

CONGRESS SESSION BY DAY

Mon, Oct 17, 2005

14:30 hrs • Technical Sessions		Room	Session #
A1.5.	Psychosocial Issues during Long Duration Space Missions	410	1
A2.1.	Gravity and Fundamental Physics	Suehiro	2
A3.1.	Space Based Astronomy	Palace Room B	3
B1.1.	Earth Observation Missions and International Cooperation	201	4
B2.1.	Climate Change and Natural Disasters	412	5
B3.1.	Advanced Technologies	Palace Room A	6
B4.1.	Overview	203	7
B5.2.	Small Space Science Missions	202	8
C1.1.	Mission and Constellation Design	409	9
C2.1.A.	Space Structures - Development and Verification "Spacecrafts & Components"	414	10
C4.1.	Propulsion Systems I	503	11
D2.1.	Launch Vehicles in Service or in Development	204	12
D3.1.	Strategies to Establish a "Stepping Stone" Approach to our Future in Space	502	13
E1.1.	"Hands-on" Space Education	413	14
E3.1.	Policy and Legal Issues Associated with Space Exploration	Heian	15
E5.1.	Social Benefits of Space Spin-Offs	411	16

Tue, Oct 18, 2005

8:30 hrs • Technical Sessions		Room	Session #
A2.2.	Microgravity Engineering Sciences	Suehiro	17
A3.4.	New Mission Concepts for Space Exploration	501	18
A4.1.	SETI I - Technical Aspects	Palace Room B	19
A5.1.	Strategies to Establish Lunar and Mars Colonies	203	20
B1.2.	Future Earth Observation Systems	201	21
B2.2.	International Cooperation for Natural Hazards Management	412	22
B5.3./B5.5.	Integrated Session on Small Satellite Operations and Space Access for Small Satellites	202	23
C1.2.	Attitude Dynamics Modeling and Determination	409	24
C2.1.B.	Space Structures - Development and Verification "Deployables and Dimension Stable Structures"	414	25

C4.2.	Propulsion Systems II	503	26
D1.1.	Innovative and Visionary Space Systems Concepts	411	27
D2.2.	Launch Services, Missions, Operations and Facilities	204	28
D3.2.	Novel Concepts and Technologies for the Exploration and Utilization of Space	502	29
E2.1.	Student Conference I	413	30
E5.4.	Space Spin-Offs: Principles and Practice	410	31
E6.1.	Legal Issues Related to New Developments in Space Applications: Navigation, Remote Sensing and GIS	Heian	32

14:30 hrs • Technical Sessions

		Room	Session #
A1.3.	Mathematical Models, Physiology and Spaceflight	410	33
A2.3.	Results of Microgravity Experiments	Suehiro	34
A3.3.	Mars Exploration	203	35
A4.2.	SETI II - Interdisciplinary Aspects	Palace Room B	36
B1.3.	Earth Observation Sensors and Technology	201	37
B5.4.	Small Satellites for Earth Observation - Lessons Learned and New Generation Missions	202	38
C1.3.	Attitude Control, Sensors and Actuators	409	39
C2.2.	Space Structures - Dynamics and Microdynamics	414	40
C3.1.	Power from Space - Prospects for the 21st Century	502	41
D1.2.	Enabling Technologies for Space Systems	411	42
D2.3.	Upper Stages, Space Transfer and Reentry Systems	204	43
D4.2.	Space Elevator System and its Environment	503	44
D5.2.	Safety and Quality Challenges for a Planetary Exploration Initiative	Palace Room A	45
E2.2.	Student Conference II	413	46
E4.1.	Memoirs	412	47
E6.2.	Legal Aspects of Expanding Human Presence Beyond Low Earth Orbit	Heian	48

Wed, Oct 19, 2005

8:30 hrs • Technical Sessions

		Room	Session #
A1.2.	Going to Mars: Development of Medical Operational Systems to Ensure Human Health	410	49
A2.4.	Results from Ground Based Research	Suehiro	50
A5.2.	Human and Robotic Partnerships to Realize Space Exploration Goals	203	51
B3.2.	Fixed and Broadcast Services	Palace Room A	52
B4.2.	Assembly and Operations	412	53
B5.1.	6th UN/IAA Workshop on Small Satellite Programs at the Service of Developing Countries	414	54
B6.1.	Measurements and Space Surveillance	Palace Room B	55
C1.4.	Multibody Dynamics	409	56
C2.3.	New Materials and Structural Concepts	202	57
C4.3.	Propulsion Technology	503	58

D2.4.	Future Space Transportation Systems	204	59
D3.3.	"System-of-Systems" Infrastructures to Enable Ambitious Future Exploration and Utilization of Space	502	60
D5.1.	Space Weather and Environmental Effects on Space Systems	Palace Room A	61
E2.3.	Student Conference III	413	62
E5.2.	Cultural Dimensions of Space	411	63
E6.3.	Other Legal Matters I, including Legal Aspects of Sub-Orbital Flights	Heian	64

14:30 hrs • Technical Sessions

		Room	Session #
A1.4.	Analog Models for Microgravity	410	65
A2.5.	Facilities and Operations of Microgravity Experiments	Suehiro	66
B1.4.	Data for Environmental Applications and Global Change Studies	201	67
B1.5.	Earth Observation Business Development and Economic Benefits	201	68
B4.3.	International Utilization of Space Stations	412	69
B6.2.	Risk Analysis and Modelling	Palace Room B	70
C1.5.	Optimization	409	71
C2.4.	Smart Materials and Adaptable Structures	414	72
C3.2.	Advanced Space Power Systems and Technologies	502	73
C4.4.	Electric Propulsion	503	74
D2.5.	Future Space Transportation Systems Technologies	204	75
D4.1.	Bases and Space Colonization	203	76
E1.2.	Structures for Space Education	413	77
E4.4.	History of Japanese Contributions to Astronautics	202	78
E5.3.	Making the Arts an Integral Part of Space Programs	411	79
E6.4.	Other Legal Matters II, including legal aspects of Property Rights on the Moon	Heian	80

Thu, Oct 20, 2005

8:30 hrs • Technical Sessions

		Room	Session #
A1.1.	Gravity: Effects on Human Physiology	410	81
A3.2.A.	Solar System Exploration (Part 1)	203	82
B1.6.	Data Processing and GIS	201	83
B3.4.	Advanced Systems	Palace Room A	84
B4.4.	Evolution, Enhancement, New Programs	412	85
B5.6.A.	Design and Technology for Small Satellites (Part 1)	202	86
B6.4.	Hypervelocity Impacts and Protection	Palace Room B	87
C1.6.	Orbital Dynamics	409	88
C2.5.	Space Environmental Effects and Spacecraft Protection	414	89
C3.3.	Experiments and Demonstrations for Space Solar Power	502	90
C4.5.	Hypersonic and Combined Cycle Propulsion	503	91
D1.3.	System Engineering Tools, Processes and Training	411	92

D2.6.	Future Space Transportation Systems Technologies In-Flight Experimentation	204	93
E1.3.	Educational Outreach	413	94
E3.2.	Space Exploration and International Cooperation	Suehiro	95
E3.4.	Scientific-Legal Round Table on Space Traffic Management (IAA.5.13/IISL): Space traffic already takes place. But the investigation of space traffic and its management has only recently become a point of wider discussion. The centerpiece of this Round-Table is the presentation and discussion of an international interdisciplinary study project by IAA, which has been conducted between 2001 and 2005. This study, for the first time, comprises an in-depth analysis of the technical and regulatory features of space traffic. In the form of findings and recommendations it draws the picture of a space traffic management regime, which might come into operation by 2020. Invited papers to the Round-Table will cover the most prominent aspects of space traffic management and lead to a discussion of the concept. A panel discussion will be held at the end of the round-table.	Heian	96

14:30 hrs • Technical Sessions

		Room	Session #
A1.6.	Habitats, Life Support and Extravehicular Activity	410	97
A2.7.	Microgravity Combustion Science and Technology	Suehiro	98
A3.2.B.	Solar System Exploration (Part 2)	203	99
B3.3.	Communication Satellite Infrastructure and Economics	Palace Room A	100
B3.5.	Mobile Communications and Satellite Navigation	Palace Room A	101
B4.5.	Transportation to and from the ISS (Joint session with the Space Transportation Symposium)	204	102
B5.6.B.	Design and Technology for Small Satellites (Part 2)	202	103
B6.3.	Mitigation and Standards	Palace Room B	104
C1.7.	Mission Operations	409	105
C2.6.	Space Vehicles - Mechanical/Thermal/Fluidic Systems	414	106
C3.5.	Space Nuclear Power and Propulsion (Joint session with the Space Propulsion Symposium)	502	107
C4.7.	Space Nuclear Power and Propulsion (Joint session with the Space Power Symposium)	502	108
D1.5.	Lessons Learned in Space Systems	411	109
D2.7.	Transportation to and from the ISS (Joint session with the Space Station Symposium)	204	110
D4.3.	Space Elevators and Advanced Tethers: Applications and Impacts	503	111
E1.4.	Beyond Education	413	112
E3.3.	The Economics of Space Exploration, Are There Commercial Opportunities?	Heian	113
E4.3.	Scientific and Technical Reviews	412	114

17:30 hrs • Poster sessions		Room	Session #
A1.P.	Poster Session on Life Sciences	Marine Messe 2F	115
A2.P.	Poster Session on Microgravity Sciences and Processes	Marine Messe 2F	116
A3.P.	Poster Session on Space Exploration	Marine Messe 2F	117
A5.P.	Poster Session on Integrated Approaches to the Exploration and Utilization of Moon and Mars	Marine Messe 2F	118
B1.P.	Poster Session on Earth Observation	Marine Messe 2F	119
B3.P.	Poster Session on Space Communications	Marine Messe 2F	120
B6.P.	Poster Session on Space Debris	Marine Messe 2F	121
C1.P.	Poster Session on Astrodynamics	Marine Messe 2F	122
C2.P.	Poster Session on Materials and Structures	Marine Messe 2F	123
C3.P.	Poster Session on Space Power	Marine Messe 2F	124
C4.P.	Poster Session on Space Propulsion	Marine Messe 2F	125
D1.P.	Poster Session on Space Systems	Marine Messe 2F	126
D2.P.	Poster Session on Space Transportation	Marine Messe 2F	127
D4.P.	Poster Session on The Far Future: Renewed Visions	Marine Messe 2F	128
E1.P.	Poster Session on Space Education and Outreach	Marine Messe 2F	129
E2.P.	Student Poster Session	Marine Messe 2F	130
E5.P.	Poster Session on Space Activity and Society	Marine Messe 2F	131

Fri, Oct 21, 2005

8:30 hrs • Technical Sessions		Room	Session #
A1.7.	Robotics and Human Missions to Mars and beyond: Challenges in Astrobiology and Planetary Protection	410	132
A2.6.	Microgravity Platforms	Suehiro	133
A3.5.A.	Small Bodies Missions and Technologies (Part 1)	203	134
A3.5.B.	Small Bodies Missions and Technologies (Part 2)	203	135
B3.6.	Near-Earth and Interplanetary Communications Systems	Palace Room A	136
C1.8.	Guidance and Control	409	137
C2.7.	Specialized Technologies, including Nanotechnologies	414	138
C3.4.	The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Transportation)	204	139
C4.6.	Advanced Propulsion - Non Chemical, non Electric	503	140
D1.4.	Space Systems Architectures	411	141
D2.8.	The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Power Symposium)	204	142
E6.5.	Convergence and Privatisation in Telecommunications: Institutional and Other Responses	Heian	143

CONGRESS SESSION BY SYMPOSIUM

A1.	SPACE LIFE SCIENCES (JOINT IAF G./IAA.2.1)	Session #
1.	Gravity: Effects on Human Physiology	81
2.	Going to Mars: Development of Medical Operational Systems to Ensure Human Health	49
3.	Mathematical Models, Physiology and Spaceflight	33
4.	Analog Models for Microgravity	65
5.	Psychosocial Issues during Long Duration Space Missions	1
6.	Habitats, Life Support and Extravehicular Activity	97
7.	Robotics and Human Missions to Mars and beyond: Challenges in Astrobiology and Planetary Protection	132
P.	Poster Session on Life Sciences	115
A2.	MICROGRAVITY SCIENCES AND PROCESSES (IAF J.)	Session #
1.	Gravity and Fundamental Physics	2
2.	Microgravity Engineering Sciences	17
3.	Results of Microgravity Experiments	34
4.	Results from Ground Based Research	50
5.	Facilities and Operations of Microgravity Experiments	66
6.	Microgravity Platforms	133
7.	Microgravity Combustion Science and Technology	98
P.	Poster Session on Microgravity Sciences and Processes	116
A3.	SPACE EXPLORATION (IAF Q.)	Session #
1.	Space Based Astronomy	3
2.A.	Solar System Exploration (Part 1)	82
3.	Mars Exploration	35
4.	New Mission Concepts for Space Exploration	18
5.A.	Small Bodies Missions and Technologies (Part 1)	134
P.	Poster Session on Space Exploration	117
2.B.	Solar System Exploration (Part 2)	99
5.B.	Small Bodies Missions and Technologies (Part 2)	135
A4.	SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) - THE NEXT STEPS (34TH SYMPOSIUM) (IAA.1.1)	Session #
1.	SETI I - Technical Aspects	19
2.	SETI II - Interdisciplinary Aspects	36
A5.	INTEGRATED APPROACHES TO THE EXPLORATION AND UTILIZATION OF THE MOON AND MARS (IAA.3.7.)	Session #
1.	Strategies to Establish Lunar and Mars Colonies	20
2.	Human and Robotic Partnerships to Realize Space Exploration Goals	51
P.	Poster Session on Integrated Approaches to the Exploration and Utilization of Moon and Mars	118

B1.	EARTH OBSERVATION SYMPOSIUM (IAF B.)	Session #
1.	Earth Observation Missions and International Cooperation	4
2.	Future Earth Observation Systems	21
3.	Earth Observation Sensors and Technology	37
4.	Data for Environmental Applications and Global Change Studies	67
5.	Earth Observation Business Development and Economic Benefits	68
6.	Data Processing and GIS	83
P.	Poster Session on Earth Observation	119
B2.	SPACE AND NATURAL DISASTER REDUCTION SYMPOSIUM (IAF C.)	Session #
1.	Climate Change and Natural Disasters	5
2.	International Cooperation for Natural Hazards Management	22
B3.	SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (IAF M.)	Session #
1.	Advanced Technologies	6
2.	Fixed and Broadcast Services	52
3.	Communication Satellite Infrastructure and Economics	100
4.	Advanced Systems	84
5.	Mobile Communications and Satellite Navigation	101
6.	Near-Earth and Interplanetary Communications Systems	136
P.	Poster Session on Space Communications	120
B4.	SPACE STATIONS SYMPOSIUM (IAF T.)	Session #
1.	Overview	7
2.	Assembly and Operations	53
3.	International Utilization of Space Stations	69
4.	Evolution, Enhancement, New Programs	85
5.	Transportation to and from the ISS (Joint session with the Space Transportation Symposium)	102
B5.	SMALL SATELLITE MISSIONS SYMPOSIUM (IAA 4.11.)	Session #
1.	6th UN/IAA Workshop on Small Satellite Programs at the Service of Developing Countries	54
2.	Small Space Science Missions	8
3./B5.5.	Integrated Session on Small Satellite Operations and Space Access for Small Satellites	23
4.	Small Satellites for Earth Observation - Lessons Learned and New Generation Missions	38
6.A.	Design and Technology for Small Satellites (Part 1)	86
6.B.	Design and Technology for Small Satellites (Part 2)	103
B6.	SPACE DEBRIS SYMPOSIUM (IAA 5.12.)	Session #
1.	Measurements and Space Surveillance	55
2.	Risk Analysis and Modelling	70
3.	Mitigation and Standards	104
P.	Poster Session on Space Debris	121

4.	Hypervelocity Impacts and Protection	87
C1.	ASTRODYNAMICS SYMPOSIUM (IAF A.)	Session #
1.	Mission and Constellation Design	9
2.	Attitude Dynamics Modeling and Determination	24
3.	Attitude Control, Sensors and Actuators	39
4.	Multibody Dynamics	56
5.	Optimization	71
6.	Orbital Dynamics	88
7.	Mission Operations	105
8.	Guidance and Control	137
P.	Poster Session on Astrodynamics	122
C2.	MATERIALS AND STRUCTURES SYMPOSIUM (IAF I.)	Session #
1.A.	Space Structures - Development and Verification "Spacecrafts & Components"	10
2.	Space Structures - Dynamics and Microdynamics	40
3.	New Materials and Structural Concepts	57
4.	Smart Materials and Adaptable Structures	72
5.	Space Environmental Effects and Spacecraft Protection	89
6.	Space Vehicles - Mechanical/Thermal/Fluidic Systems	106
P.	Poster Session on Materials and Structures	123
7.	Specialized Technologies, including Nanotechnologies	138
1.B.	Space Structures - Development and Verification "Deployables and Dimension Stable Structures"	25
C3.	SPACE POWER SYMPOSIUM (IAF R.)	Session #
1.	Power from Space - Prospects for the 21st Century	41
2.	Advanced Space Power Systems and Technologies	73
3.	Experiments and Demonstrations for Space Solar Power	90
4.	The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Transportation Symposium)	139
5.	Space Nuclear Power and Propulsion (Joint session with the Space Propulsion Symposium)	107
P.	Poster Session on Space Power	124
C4.	SPACE PROPULSION SYMPOSIUM (IAF S.)	Session #
1.	Propulsion Systems I	11
2.	Propulsion Systems II	26
3.	Propulsion Technology	58
4.	Electric Propulsion	74
5.	Hypersonic and Combined Cycle Propulsion	91
6.	Advanced Propulsion - Non Chemical, non Electric	140
7.	Space Nuclear Power and Propulsion (Joint session with the Space Power Symposium)	108
P.	Poster Session on Space Propulsion	125
D1.	SPACE SYSTEMS SYMPOSIUM (IAF U.)	Session #
1.	Innovative and Visionary Space Systems Concepts	27
2.	Enabling Technologies for Space Systems	42
3.	System Engineering Tools, Processes and Training	92

4.	Space Systems Architectures	141
5.	Lessons Learned in Space Systems	109
P.	Poster Session on Space Systems	126
D2.	SPACE TRANSPORTATION SYMPOSIUM (IAF V.)	Session #
1.	Launch Vehicles in Service or in Development	12
2.	Launch Services, Missions, Operations and Facilities	28
3.	Upper Stages, Space Transfer and Reentry Systems	43
4.	Future Space Transportation Systems	59
5.	Future Space Transportation Systems Technologies	75
6.	Future Space Transportation Systems Technologies In-Flight Experimentation	93
7.	Transportation to and from the ISS (Joint session with the Space Station Symposium)	110
8.	The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Power Symposium)	142
P.	Poster Session on Space Transportation	127
D3.	SYMPOSIUM ON STEPPING STONES TO THE FUTURE: STRATEGIES, ARCHITECTURES, CONCEPTS AND TECHNOLOGIES (IAA 3.6.)	Session #
1.	Strategies to Establish a "Stepping Stone" Approach to our Future in Space	13
2.	Novel Concepts and Technologies for the Exploration and Utilization of Space	29
3.	"System-of-Systems" Infrastructures to Enable Ambitious Future Exploration and Utilization of Space	60
D4.	SYMPOSIUM ON THE FAR FUTURE: RENEWED VISIONS (IAA 3.8.)	Session #
1.	Bases and Space Colonization	76
2.	Space Elevator System and its Environment	44
3.	Space Elevators and Advanced Tethers: Applications and Impacts	111
P.	Poster Session on The Far Future: Renewed Visions	128
D5.	SAFETY AND QUALITY IN SPACE ACTIVITIES SYMPOSIUM (IAA.4.9.)	Session #
1.	Space Weather and Environmental Effects on Space Systems	61
2.	Safety and Quality Challenges for a Planetary Exploration Initiative	45
E1.	SPACE EDUCATION AND OUTREACH SYMPOSIUM (IAF P.)	Session #
1.	"Hands-on" Space Education	14
2.	Structures for Space Education	77
3.	Educational Outreach	94
4.	Beyond Education	112
P.	Poster Session on Space Education and Outreach	129
E2.	35TH STUDENT CONFERENCE (IAF W.)	Session #
1.	Student Conference I	30
2.	Student Conference II	46
3.	Student Conference III	62
P.	Student Poster Session	130

E3.	SYMPOSIUM ON SPACE EXPLORATION: POLICY, ECONOMIC AND LEGAL ISSUES (IAA 5.13.)	Session #
1.	Policy and Legal Issues Associated with Space Exploration	15
2.	Space Exploration and International Cooperation	95
3.	The Economics of Space Exploration, Are There Commercial Opportunities?	113
4.	Scientific-Legal Round Table on Space Traffic Management (IAA.5.13/IISL): Space traffic already takes place. But the investigation of space traffic and its management has only recently become a point of wider discussion. The centerpiece of this Round-Table is the presentation and discussion of an international interdisciplinary study project by IAA, which has been conducted between 2001 and 2005. This study, for the first time, comprises an in-depth analysis of the technical and regulatory features of space traffic. In the form of findings and recommendations it draws the picture of a space traffic management regime, which might come into operation by 2020. Invited papers to the Round-Table will cover the most prominent aspects of space traffic management and lead to a discussion of the concept. A panel discussion will be held at the end of the round-table.	96
E4.	HISTORY OF ASTRONAUTICS SYMPOSIUM (IAA 6.15.)	Session #
1.	Memoirs	47
3.	Scientific and Technical Reviews	114
4.	History of Japanese Contributions to Astronautics	78
E5.	SPACE ACTIVITY AND SOCIETY SYMPOSIUM (IAA.6.16)	Session #
1.	Social Benefits of Space Spin-Offs	16
2.	Cultural Dimensions of Space	63
3.	Making the Arts an Integral Part of Space Programs	79
P.	Poster Session on Space Activity and Society	131
4.	Space Spin-Offs: Principles and Practice	31
E6.	48TH COLLOQUIUM ON LAW OF OUTER SPACE (IISL)	Session #
1.	Legal Issues Related to New Developments in Space Applications: Navigation, Remote Sensing and GIS	32
2.	Legal Aspects of Expanding Human Presence Beyond Low Earth Orbit	48
3.	Other Legal Matters I, including Legal Aspects of Sub-Orbital Flights	64
4.	Other Legal Matters II, including legal aspects of Property Rights on the Moon	80
5.	Convergence and Privatisation in Telecommunications: Institutional and Other Responses	143

TECHNICAL SESSION PAPERS ORDERED BY SESSION NUMBER

1

October 17 2005, 14:30 - 410

A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.5. Psychosocial Issues during Long Duration Space Missions

Chairmen: Gro M. Sandal (Norway), Nick Kanas (United States)

Rapporteur: Vadim I. Gushin (Russia)

IAC-05-A1.5.01 (WITHDRAWN)

NASA Behavioral Health and Performance Research Program: Recent Programmatic Changes and a View toward the Future

Dr. Edna Fiedler, National Space and Biomedical Research Institute, Houston, United States

Dr. Bette Siegel, NASA Headquarters, Washington DC, United States

IAC-05-A1.5.02

Human Interactions in Space: ISS versus Shuttle/Mir

Dr. Nick Kanas, University of California and Veterans Affairs Medical Center, San Francisco, CA, United States

Dr. Vyacheslav P. Salnitskiy, Institute for Biomedical Problems, Moscow D-7, Russia, Dr. Jennifer Boyd Ritsher, University of California and Veterans Affairs Medical Center, San Francisco, CA, United States, Dr. Vadim I. Gushin, Institute of Biomedical Problems, Moscow, Russia, Dr. Daniel S. Weiss, University of California/San Francisco, San Francisco CA, United States,

IAC-05-A1.5.03

Cultural differences in patterns of mood states on board the International Space Station

Dr. Jennifer Boyd Ritsher, University of California and Veterans Affairs Medical Center, San Francisco, CA, United States

Dr. Nick Kanas, University of California and Veterans Affairs Medical Center, San Francisco, CA, United States, Dr. Vadim I. Gushin, Institute of Biomedical Problems, Moscow, Russia, Ms. Stephanie Saylor, University of California and Veterans Affairs Medical Center, San Francisco CA, United States

IAC-05-A1.5.04

NASA Behavioral Health and Performance Operational Psychology Support

Dr. Walter Sipes, NASA - Johnson Space Center, Houston, United States

Dr. Edna Fiedler, National Space and Biomedical Research Institute, Houston, United States, Mr. Steve VanderArk, NASA Johnson Space Center, Houston, TX, United States

IAC-05-A1.5.05

Operating the ISS: Cultural and Leadership Challenges

Mr. James Clement, NASA Johnson Space Center, Houston, United States

Dr. Jennifer Boyd Ritsher, University of California and Veterans Affairs Medical Center, San Francisco, CA, United States

IAC-05-A1.5.06

A Comparison of Homogeneous Male and Female Teams in a Mars Simulation

Dr. Sheryl L. Bishop, University of Texas Medical Branch, Galveston, TX, United States

Mr. Rémon Annes, National Aerospace Laboratory (NLR), Marknesse, Netherlands, Dr. Rachael Eggins, The Australian National University, Canberra, Australia, Ms. Anne Pacros, HE Space Operations, Noordwijk, Netherlands, Mr. Ricardo Patricio, Active Space Technologies, Coimbra, Portugal

IAC-05-A1.5.07

Personality characteristics as predictors of supervisory assessments of personnel performance at four over-winter Antarctic research stations

Dr. Dave Musson, The University of Texas at Austin, Austin, TX, United States

Dr. Robert Helmreich, The University of Texas at Austin, Austin, United States, Dr. JoAnna Wood, NASA/Johnson Space Center, Houston, TX, United States, Dr. Desmond Lugg, NASA Headquarters, Washington, DC, United States

IAC-05-A1.5.08

Crew - Ground Control Communication Styles: Preliminary Results

Dr. Vadim Gushin, Institute for Biomedical Problems, Moscow, Russia

Ms. Anna Yusupova, Institute of Biomedical Problems, Moscow, Russia, Mrs. Irina Popova, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.5.09

Cultural Determinants of Co-Working and Performance in Space Operations

Dr. Gro M. Sandal, University of Bergen, Bergen, Norway

IAC-05-A1.5.10

Objective Measurement of Performance and Psycho-Physiological Arousal during Flight Simulator Testing

Dr. Bernd Johannes, German Aerospace Center (DLR), Hamburg, Germany

Dr. Peter Maschke, German Aerospace Center (DLR), Hamburg, Germany, Mrs. Melina Rauch, German Aerospace Center (DLR), Hamburg, Germany, Dr. Vyacheslav Salnitskiy, Institute for Biomedical Problems, Moscow D-7, Russia, Mr. Henning Soll, German Aerospace Center (DLR), Hamburg, Germany,

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October 17 2005, 14:30 - Suehiro

A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.1. Gravity and Fundamental Physics

Chairmen: François Gonzalez (France), Joachim Richter (Germany)

Rapporteur: Romain Marcout (France)

IAAC-05-A2.1.01

Fabrication method of FGM thin films using very strong acceleration field

Mr. Takashi Nishiyama, Kyushu University, Fukuoka, Japan
Mr. Shusaku Iba, Kyushu University, Fukuoka, Japan, Prof. Kunihiro Nagayama, Kyushu University, Fukuoka, Japan

IAAC-05-A2.1.02

Equivalence Principle test with MICROSCOPE: Laboratory and engineering models preliminary results for evaluation of performance

Mr. Ratana Chhun, Office National d'Etudes et de Recherches Aéropatiales, Châtillon, France

Ms. Danya Hudson, Office National d'Etudes et de Recherches Aéropatiales, Châtillon, France, Mr. Patrick Flinoise, Office National d'Etudes et de Recherches Aéropatiales, Châtillon, France, Mr. Manuel Rodrigues, Office National d'Etudes et de Recherches Aéropatiales, Châtillon, France, Mr. Pierre Touboul, Onera, Chatillon, France,

IAAC-05-A2.1.03

Study on Chiral Symmetry Breaking during Growing Process of NaClO₃ Crystal Under DC Electric Field

Prof. Wanchun Chen, Chinese Academy of Sciences, Beijing, China

Prof. Xiaolong Chen, Institute of Physics, CAS, Beijing, China

IAAC-05-A2.1.04

Cavity Collapse at Spherical Free Surfaces in Microgravity

Mr. Danail Obreschkow, Esa Student Participation Programme, Gossau, Switzerland

IAAC-05-A2.1.05

The Bubble Films, Interference and Turbulences Under Microgravity and Gravity Conditions

Ms. Agnieszka Wasylewicz, University of Gdansk, Leba, Poland

Mr. Wojciech Miloch, University of Gdansk, Gdansk, Poland, Mr. Lukasz Redlarski, University of Gdansk, Gdansk, Poland, Mr. Adam Schroder, University of Gdansk, Gdynia, Poland

IAAC-05-A2.1.06

Investigating heamodynamics in Parabolic Flight: early results and spillovers

Mr. Panagiotis Kyrtatos, University of Nottingham, Nottingham, United Kingdom

Dr. Rachel Tullet, Derriford Hospital, Plymouth, United Kingdom, Ms. Lonnie Petersen, University of Copenhagen, Copenhagen N, Denmark, Mr. Casper Grove, University of Copenhagen, Copenhagen, Denmark, Mr. Bruce Braithwaite, Queen Nottingham, United Kingdom

IAAC-05-A2.1.07

Proposal of Testing Newtonian Inverse-Square Law in Space Mission

Prof. Jun Luo, Centre for Gravitational Experiments (HUST), Wuhan, China

Dr. Liang-Cheng Tu, Centre for Gravitational Experiments (HUST), Wuhan, China

IAAC-05-A2.1.08

Numerical Simulation of Complex Plasmas: the Challenge, Advantages and Limitations

Mr. Wojciech Miloch, University of Gdansk, Gdansk, Poland

IAAC-05-A2.1.09

Simulating Space Tether Deployment on Earth for the YES2 Satellite

Mr. Andrew Hyslop, Delta-Utec SRC, Leiden, Netherlands

Mr. Michiel Kruijff, Delta-Utec, Leiden, Netherlands, Mr. Carlo Menon, ESA/ESTEC, Noordwijk, Netherlands

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A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.1. Space Based Astronomy

Chairmen: Henk Olthof (Netherlands), Roger Malina (France)

Rapporteur: Karoly Szego (Hungary)

IAAC-05-A3.1.01

The Fine Guidance Sensor for the James Webb Space Telescope

Dr. Neil Rowlands, EMS Technologies Canada, Ltd., Ottawa, Canada

IAAC-05-A3.1.02

Space Based Intensity Interferometer

Prof. Mauricio Guelman, Technion, I.I.T., Haifa, Israel

Mr. Itzik Klein, Technion, I.I.T., Haifa, Israel, Prof. Steve Lipson, Technion, I.I.T., Haifa, Israel

IAAC-05-A3.1.03

Nulling Interferometry on a Full Scale Space System Simulator

Mr. Emil Vinterhav, Swedish Space Corporation, Solna, Sweden

Mr. Sten Berge, Swedish Space Corporation, Stockholm, Sweden

IAAC-05-A3.1.04

SIM-Planetquest Mission: Overview and Current Status

Mr. James C. Marr, Jet Propulsion Laboratory, Pasadena, CA, United States

IAAC-05-A3.1.05

Multi-Spacecraft Formation Maneuvering for Optimal Interferometric Image Acquisition - Necessary Conditions for Optimality

Mr. Haithem Al-Twaijry, University of Michigan, Ann Arbor, United States

Prof. David Hyland, Texas AM University, College Station, United States

IAC-05-A3.1.06

Innovative Cryogenic System for Japanese Infrared Astronomical Mission "SPICA"

Dr. Hiroyuki Sugita, JAXA/ISTA, Tsukuba, Japan
Dr. Hiroki Nagai, Tohoku University, Sendai, Japan, Prof. Takao Nakagawa, JAXA/ISAS, Sagamihara, Japan, Prof. Hiroshi Murakami, JAXA/ISAS, Sagamihara, Japan, Prof. Toshio Matsumoto, JAXA/ISAS, Sagamihara, Japan,

IAC-05-A3.1.07

The CALET Mission for Observing High Energy Electrons and Gamma-rays at ISS/JEM

Prof. Shoji Torii, Waseda University, Tokyo, Japan

IAC-05-A3.1.08

'X-red': A satellite mission concept for detecting Gamma Ray Bursts

Mr. Pedro Russo, Navegar Foundation, Espinho, Portugal

IAC-05-A3.1.09

SUGAR-1 Spectrometry in Ultraviolet of GALAXIES at Redshift-1

Mr. Jean-François Vandenrijt, Centre Spatial de Liège, Vyle-Tharoul, Belgium

Dr. Carlos Alvarez, Max-Planck-Institut für Astronomie, Heidelberg, Germany, Mr. Henrik Hojhave Andersen, Copenhagen University Observatory, Copenhagen, Denmark, Mr. Luca Boschini, Laben S.p.A., Vimodrone (MI), Italy, Mr. André Burzlaff, Fachhochschule Aachen, Aachen, Germany,

IAC-05-A3.1.10

Structured Cloud of Particles

Mr. Julien Coyne, University of Cambridge, Cambridge, United Kingdom

IAC-05-A3.1.11

A Systematic Imaging Survey for Planet Formation and Direct Detection of Extra-Solar Planet Candidates

Mr. Satoshi Mayama, The Graduate University for Advanced Studies/National Astronomical Observatory of Japan, Tokyo, Japan

Dr. Motohide Tamura, National Astronomical Observatory of Japan, Tokyo, Japan, Dr. Masahiko Hayashi, National Astronomical Observatory of Japan, Hawaii, United States

IAC-05-A3.1.12

Astrobiological Instrumentation – A Two Way Flow Between Biologically Inspired Instrumentation and Instrumentation to Detect Signs of Life in Space.

Mr. Stephen Kearney, University College Dublin, Bray, Co. Wicklow, Ireland

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B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.1. Earth Observation Missions and International Cooperation

Chairmen: W. John Hussey (United States), Pierre Ranzoli (Germany)

Rapporteur: Brent Smith (United States)

IAC-05-B1.1.01

The Committee on Earth Observation Satellites (CEOS) - Moving Towards a New Group on Earth Observations (GEO) ERA

Mr. Ian Gibson, British National Space Centre, London, United Kingdom

Mr. Mark Churchyard, British National Space Centre, London, United Kingdom

IAC-05-B1.1.02

Small Satellite Program for the Success of GEOSS

Ms. Ikuko Kuriyama, JAXA, Ibaraki, Japan

IAC-05-B1.1.03

Responding to EO market needs through international cooperation and low cost small satellite constellations

Mr. David Hodgson, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom

Mr. Paul Stephens, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom

IAC-05-B1.1.04

COMS-1 Satellite Program

Dr. Myung-Jin Baek, Korea Aerospace Research Institute, Daejeon, Korea

Dr. Seong-Bong Choi, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-B1.1.05

Missions and Scenarios for a Multinational Early Warning Spaceborne System

Mr. Didier Alary, EADS-Astrium, Toulouse, France

IAC-05-B1.1.06

The KOMPSAT Program to Provide Various Applications in the Field of Earth Observation Covering Land, Sea and Coastal Zones

Dr. Byoungsoo Kim, Korea Institute of ST Evaluation and Planning, Namyangju, Kyunggi-Do, Korea

Dr. Hee Seob Kim, Korea Aerospace Research Institute, Daejeon, Korea, Mr. George W. Morgenthaler, University of Colorado, Boulder, CO, United States

IAC-05-B1.1.07

Structures and Advanced Composites for Lighter-than-Air Crafts

Mr. Kimito Tanaka, JAXA, Tokyo, Japan

IAC-05-B1.1.08

International cooperation in earth observation: which way for developing countries ?

Mrs. Clémence Bastien, Esa Student Participation Programme, Paris, France

B2. Space and Natural Disaster Reduction Symposium (IAF C.)

Coordinators: Ramesh P. Singh (United States), Dimitar Ouzounov (United States)

B2.1. Climate Change and Natural Disasters

Chairmen: Katarzyna Dabrowska-Zielinska (Poland), Felix Kogan (United States)

Rapporteur: Ramesh P. Singh (United States)

IAC-05-B2.1.01**Earthquake Disaster Assessment from Space in Urban Area based on the Soil Database**

Dr. Shinkichi Kishi, Hiroshima Institute of Technology, Hiroshima, Japan

Mr. Hideyasu Hattori, Hiroshima Institute of Technology, Hiroshima, Japan, Dr. Yuzo Suga, Hiroshima Institute of Technology, Hiroshima, Japan

IAC-05-B2.1.02**A Data Integration Project to Establish a Forecast and Control Model of Mass Movements' in Urbanized Areas. Pilot-Project: Campos do Jordao, Brazil**

Mrs. Ieda Vieira, University of Taubaté, Taubaté, Brazil

IAC-05-B2.1.03**Wildfire Mitigation Strategies Using Space Technologies**

Dr. Vern Singhroy, International Space University, Ottawa, Canada

IAC-05-B2.1.04**REMFIRESAT: Real Time Emergency Management tool via Satellite**

Dr. Jesús Gonzalo, INSA, Madrid, Spain

IAC-05-B2.1.05 (WITHDRAWN)**Development of the Technique of Optical Spectral Heterodyning for Measurement of CO₂ and Water Vapour in the Atmosphere and the Potential that this Observational Technique Brings to the Monitoring of Climate Change.**

Dr., Andrew Bell, EMS Technologies Canada, Ltd., Ottawa, Canada

IAC-05-B2.1.06**Early warning and prevention of related climate epidemics using satellite based integrated approach**

Mr. René Rettig, Institute for Space Medicine and Physiology/MEDES, Toulouse, France

Mr. Antonio Guell, CNES, Toulouse, France, Mr. Laurent Braak, MEDES, Toulouse, France, Mr. Nicolas Poirot, MEDES, Toulouse, France, Mr. Olivier Tournebize, MEDES, Toulouse, France

IAC-05-B2.1.07**Assessment of a Global System for Detecting Tsunami's Using Space Based GNSS Bi-static Radar Technology**

Mr. Scott Gleason, Surrey Space Centre, Guildford, United Kingdom

IAC-05-B2.1.08**Space-based earthquakes and seaquakes early detection system**

Mr. Federico Grasso, Università degli Studi di Catania, Acicastello Catania, Italy

IAC-05-B2.1.09**Discussion on Frequency Range of SEMS for Satellite Remote Sensing**

Dr. Dong Jiping, China Academy of Space Technology (CAST), Beijing, China

IAC-05-B2.1.10**Analysis of the Earth Surface Observation to Study Disasters from the ISS in the Uragan Program and Perspectives of this Program**

Prof. Mikhail Beliaev, Rocket Space Corporation ENERGIA, Korolev, Moscow Region, Russia

Dr. Lev Dessinov, Institute of Geography at Russian Academy of Sciences, Moscow, Russia

B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.1. Advanced Technologies

Chairmen: Elemer Bertenyi (Canada), Edward W. Ashford (United States)

Rapporteur: Bruno Perrot (Luxembourg)

IAC-05-B3.1.01**Is Satellite Communication Technology Matured or Not? –From R and D Point of View–**

Dr. Takashi Iida, JAXA, Ibaraki, Japan

IAC-05-B3.1.02**Satellites in a Wireless Revolution**

Mr. Neil Helm, George Washington University, Washington, DC, United States

IAC-05-B3.1.03**Space Technologies and Informatization of Russia**

Mr. N. Sevastyanov, JSC GASCOM, Koroliov, Moscow region, Russia

Mr. V. Vekhoturov, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. O. Grafodatskiy, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. V. Shutov, JSC GASCOM, Koroliov, Moscow region, Russia

IAC-05-B3.1.04**Analysis of satellite multibeam antennas' performances**

Mr. Guido Sterbini, Università degli Studi di Roma "La Sapienza", Olevano Romano (RM), Italy

IAC-05-B3.1.05

Onboard Reconfigurable Communication Equipment for next generation satellite

Mr. Masayoshi Yoneda, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan

Mr. Kenji Haga, NEC TOSHIBA Space Systems (NTS), Tokyo, Japan, Mr. Hideto Okada, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan

IAC-05-B3.1.06

Microstrip Antennas Integrated With Electromagnetic Band-Gap (EBG) Structures: Performance Improvement in Space Applications

Mr. Emilio Arneri, Università della Calabria, D.E.I.S., Rende CS, Italy

Prof. Giandomenico Amendola, Università della Calabria, D.E.I.S., Rende CS, Italy, Prof. Giovanni Angiulli, Università della Calabria, D.E.I.S., Arcavacata di Rende (CS), Italy

IAC-05-B3.1.07

Radiation test results of consumer type S-RAM FPGA

Dr. Nozomu Nishinaga, National Institute of Information and Communications Technology, Koganei, Japan

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B4. Space Stations Symposium (IAF T.)

Coordinators: Carlo Mirra (Netherlands), Mag Iskander (Canada)

B4.1. Overview

Chairmen: Carlo Mirra (Netherlands), Graham Gibbs (United States)

Rapporteur: Sergey K. Shaevich (Russia)

IAC-05-B4.1.01

Japan's ISS Program Status

Mr. Norihito Tsuji, JAXA, Tsukuba, Japan

Dr. Kuniaki Shiraki, JAXA, Tsukuba, Japan

IAC-05-B4.1.02

The International Space Station: Stepping-stone to Exploration

Mr. Gary H. Kitmacher, NASA, Houston, TX, United States

Mr. William Gerstenmaier, NASA Johnson Space Center, Houston, TX, United States

IAC-05-B4.1.03

The ESA ISS Programme: Status and Outlook

Mr. Daniel Sacotte, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B4.1.04

Canada and The International Space Station Program: Overview and Status

Mr. Graham Gibbs, Canadian Embassy, Washington, DC, United States

IAC-05-B4.1.05

The Integration and Operation of the Italian Soyuz Mission, ENEIDE

Mr. Carlo Mirra, EADS Space Transportation, Leiden, Netherlands

IAC-05-B4.1.06

Technical Development of ISS Centrifuge Rotor

Mr. Naoki Sato, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

IAC-05-B4.1.07

Use of the Russian Segment of the ISS as Space Laboratory and Technology Testbed to Support Future Human Space Flights

Mr. Vadim Suvorov, TSNIIMASH, Korolyov, Russia

Mr. Nikolai A. Anfimov, TSNIIMASH, Moscow Region, Russia, Mr. Andrey Golovinkin, TSNIIMASH, Korolyov, Russia, Mr. V.I. Lukjashchenko, TSNIIMASH, Korolev, Russia, Ms. Tatiana Vasileva, TSNIIMASH, Korolyov, Russia

IAC-05-B4.1.08

The Role of Research on the International Space Station in achieving the "Vision for Space Exploration"

Dr. Don Thomas, NASA Headquarters, Houston, TX, United States

Dr. Jennifer L. Rhatigan, NASA Johnson Space Center, Houston, TX, United States, Dr. Julie A. Robinson, NASA Johnson Space Center, Houston, TX, United States

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B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (United States), Rainer Sandau (Germany)

B5.2. Small Space Science Missions

Chairmen: Denis J.P. Moura (France), Tom Krimigis (United States)

IAC-05-B5.2.01

Development of SELENE Small Sub-satellites for Lunar Gravity Observation

Dr. Takahiro Iwata, JAXA Institute of Space and Astronautical Science, Tsukuba, Ibaraki, Japan

Prof. Nobuyuki Kawano, National Astronomical Observatory of Japan, Mizusawa, Iwate, Japan, Mr. Takeshi Sasaki, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Ibaraki, Japan, Prof. Tadashi Takano, Japan Aerospace Exploration Agency, Sagamihara, Kanagawa, Japan, Mr. Yoshisada Takizawa, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Ibaraki, Japan

IAC-05-B5.2.02

CALIPSO : A Small Satellite in Low Earth Orbit for the Study of the Clouds and Aerosols

Mr. Paoli Francois, Alcatel Space, Cannes la Bocca, France

Mr. Blouvac Jean, CNES, Toulouse, France

IAC-05-B5.2.03

Swarm Satellite Constellation

Dr. Hendrik Lübberstedt, OHB-System AG, Bremen, Germany

Mr. Martin Kassebom, OHB-System AG, Bremen, Germany, Mr. Carsten Tobehn, OHB-System AG, Bremen, Germany

IAC-05-B5.2.04

Mission Design and Integrated Guidance and Navigation Strategy for NEO Flyby Using 'Interceptor'

Dr. Osamu Mori, Japan Aerospace Exploration Agency (JAXA), Sagamihara, Kanagawa, Japan

Mr. Kohta Tarao, University of Tokyo, Kanagawa, Japan, Dr. Yasuhiro Kawakatsu, JAXA/ ISAS, Sagamihara, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-B5.2.05

New concept of small satellite, HETE-2 and its scientific activity

Dr. Masaru Matsuoka, JAXA/ ISAS, Tsukuba, Ibaraki, Japan

IAC-05-B5.2.06

Small-sat Platforms and Formation Flying : an opportunity for the gamma ray telescope MAX

Mr. Jacques Borde, EADS Astrium, Toulouse, France

Dr. Peter Von Ballmoos, Centre d Etude Spatiale des Rayonnements (CESR - CNRS/UPS), Toulouse, France

IAC-05-B5.2.07

Monitor of All-Sky X-Ray Image on "KIBO"

Mr. Kazuyoshi Kawasaki, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Ibaraki, Japan

IAC-05-B5.2.08

Study on Formation Flying Based on Orbital Elements Method

Mrs. Juan Wei, Xidian University, xi'an, China

IAC-05-B5.2.09

Mission Analysis of Hevelius - Lunar Microsatellite Mission

Mr. Ettore Scari, Politecnico di Milano, Sondrio, Italy

Mr. Matteo Ceriotti, Politecnico di Milano, Dairago (MI), Italy, Ms. Camilla Colombo, Politecnico di Milano, Castellanza (VA), Italy

IAC-05-B5.2.10

Correction for Small Satellite Motion on the COROT Asteroseismology Channel

Ms. Rachel Drummond, K.U. Leuven, Leuven, Belgium

Dr. Bart Vandenbussche, K.U. Leuven, Leuven, Belgium, Mr. Michel Auvergne, Observatoire de Paris, Meudon, France

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C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.1. Mission and Constellation Design

Chairmen: Miguel Bello Mora (Spain), Antonio Prado (Brazil)

Rapporteur: Erick Lansard (France)

IAC-05-C1.1.01

Spacecraft Station-keeping on the Molniya Orbit Using Electric Propulsion

Prof. Mikhail S. Konstantinov, Moscow Aviation Institute, Moscow, Russia

Prof. Garri Popov, RIAME MAI, Moscow, Russia, Dr. Vladimir Obukhov, RIAME MAI, Moscow, Russia, Dr. Vyacheslav Petukhov, Khrunichev State Research Production Space Center, Moscow, Russia

IAC-05-C1.1.02

Design of a Formation Flying Demonstration Mission In GTO based on Optimal Guidance Profiles

Dr. Luis F. Penin, DEIMOS Engenharia, Lisboa, Portugal

Mr. Joao Araujo, DEIMOS Engenharia, Lisboa, Portugal, Mr. Juan-Carlos Bastante, DEIMOS Space, Tres Cantos, Madrid, Spain, Mr. Augusto Caramagno, DEIMOS Space, Tres Cantos, Madrid, Spain, Mr. Bogdan Udrea, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C1.1.03

Trajectory Control in Formation Flying

Dr. Takeya Shima, Mitsubishi Electric Corporation, Amagasaki, Japan

Dr. Katsuhiko Yamada, Mitsubishi Electric Corporation, Amagasaki, Japan, Mr. Shoji Yoshikawa, Mitsubishi Electric Corporation, Amagasaki, Japan

IAC-05-C1.1.04

Optimization method for mission analysis of aeroassisted orbital transfer vehicles

Mr. Nicolas Berend, Onera, Châtillon, France

Mr. Sylvain Bertrand, Onera, Chatillon, France, Ms. Catherine Jolly, Onera, Chatillon, France

IAC-05-C1.1.05

Transfer Options for Missions to Near Earth Objects.

Mr. Paolo De Pascale, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Milano, Italy

Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy, Dr. Stefano Casotto, CISAS - "G. Colombo" Center of Studies and Activities, Padova, Italy

IAC-05-C1.1.06

Trajectory Design for the SOLar Orbiter Mission

Mr. Stefano Campagnola, ESA/ESOC, Darmstadt, Germany

Dr. Arnaud Boutonnet, ESA/ESOC, Darmstadt, Germany, Dr. Guy Janin, ESA/ESOC, Darmstadt, Germany

IAC-05-C1.1.07

Lunar space station for providing services to solar libration missions

Ms. Elisabet Canalias, Universitat Politècnica de Catalunya, Barcelona, Spain

Mr. Josep J. Masdemont, Universitat Politècnica de Catalunya, Barcelona, Spain

IAC-05-C1.1.08

Halo Orbit Determination in Mission Analysis of Hevelius - Lunar Microsatellite Mission

Mr. Matteo Ceriotti, Politecnico di Milano, Dairago (MI), Italy

Ms. Camilla Colombo, Politecnico di Milano, Castellanza (VA), Italy, Mr. Ettore Scari, Politecnico di Milano, Sondrio, Italy

IAC-05-C1.1.09

Optimal Libration Point Orbital Maneuvers

Dr. Paul Williams, RMIT University, Melbourne, Australia

Ms. Olga Trivailo, Monash University, Mount Waverley, Victoria, Australia

IAC-05-C1.1.10

Orbit Concepts at L2 for Soyuz Launches from Kourou

Mr. Martin Hechler, ESA/ESOC, Darmstadt, Germany

Mr. Miguel Bello Mora, DEIMOS Space S.L., Madrid, Spain, Mr. Mariano Sánchez-Nogales, DEIMOS Space, Tres Cantos, Spain, Spain, Mr. Arturo Yañez Otero, GMV S.A., TRES CANTOS, Spain

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.1.A. Space Structures - Development and Verification "Spacecrafts & Components"

Chairmen: Michael Dogigli (Germany), Andreas Rittweger (Germany)

Rapporteur: Jean-Alain Massoni (France)

IAC-05-C2.1.A.01**Investigation on the Strength and Vibration Safety of a Liquid Rocket Turbopump**

Dr. Seong Min Jeon, Korea Aerospace Research Institute, Daejeon, Korea

Mr. Jinhan Kim, Korea Aerospace Research Institute, Daejeon 305-333, Korea

IAC-05-C2.1.A.02**Parametric Instability of Pressurized Propellant Tanks**

Dr. Jochen Albus, EADS Space Transportation GmbH, Bremen, Germany

Dr. Stefan Dieker, Reimerdes + Dieker Ingenieure GbR, Bremen, Germany, Bremen, Germany, Dr. Andreas Rittweger, EADS Space Transportation, Bremen, Germany, Prof. em. Dr. Dr. h.c. (H) Huba Öry, Aachen University of Technology, Aachen, Germany

IAC-05-C2.1.A.03**Spin forming of XXL bulkheads for large cryo tanks**

Mr. Alfred Trenkler, MAN Technologie AG, Augsburg, Germany

Dr. Michael Dogigli, MAN Technologie AG, Augsburg, Germany, Mr. Ulrich Glaser, MAN Technologie AG, Augsburg, Germany

IAC-05-C2.1.A.04**CFRP Infusion Processing on Large-Scale Cylindrical Structures**

Mr. Reinhold Pernpeintner, MAN Technologie AG, Augsburg, Germany

Mrs. Angelika Fröhlich, MAN Technologie AG, Augsburg, Germany, Mr. Torsten Lorenz, RUAG Aerospace, Emmen, Switzerland

IAC-05-C2.1.A.05**The outline of HTV structural design and verification**

Mr. Hidefumi Kawano, Mitsubishi Heavy Industries, Ltd., Komaki, Aichi Pref., Japan

Mr. Atsushi Kuno, Mitsubishi Heavy Industries, Ltd., Komaki, Aichi Pref., Japan

IAC-05-C2.1.A.06**Postbuckling Failure Behaviors of Hat-Stiffened Composite Panes with Different Bonding Methods**

Mr. Kwang-Soo Kim, Korea Aerospace Research Institute, Daejeon, Korea

Dr. Jae-Seok Yoo, Korea Aerospace Research Institute, Daejeon, Korea, Mr. Jae-Mo An, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Young-Soon Jang, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Yeong-Moo Yi, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C2.1.A.07**Topology Optimization of Cylindrical Structures in Propellant Tank for Buckling Load and Low Weight**

Dr. Yeong-Moo Yi, Korea Aerospace Research Institute, Daejeon, Korea

Mr. Joon-Tae Yoo, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Sung-Kie Youn, Korea Advanced Institute of Science and Technology, Daejeon, Korea, Mr. Yu-Deok Seo, Korea Advanced Institute of Science and Technology, Daejeon, Korea

IAC-05-C2.1.A.08**Structural Design and Development of ISOGRID Cylinder for Propellant Tank**

Mr. Joon-Tae Yoo, Korea Aerospace Research Institute, Daejeon, Korea

Dr. Young-Soon Jang, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Yeong-Moo Yi, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C2.1.A.09**Transient heat-transfer analysis for sub-scale nozzle**

Dr. Jae-Seok Yoo, Korea Aerospace Research Institute, Daejeon, Korea

Mr. Byung-Hun Kim, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Young-Soon Jang, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Yeong-Moo Yi, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C2.1.A.10**Study of Permeability in Candidate Materials for Cryogenic Tanks**

Ms. Sofia Martinez Vilarino, University of New Orleans, New Orleans, United States

Prof. David Hui, University of New Orleans, New Orleans, United States, Dr./Professor of Aerospace Mater Leo Daniel, University of New Orleans, New Orleans, United States, Dr. Sandi Campbell, NASA John H. Glenn Research Center, Cleveland, OH, United States

IAC-05-C2.1.A.11**Dynamic Testing of Insulation Foam Impact against Rigid Body**

Mr. Sergey Samorezov, ZIN Technologies, Brookpark, OH, United States

C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.1. Propulsion Systems I

Chairmen: Max Calabro (France), Hans Immich (Germany)
Rapporteur: Marcel F.M. Pouliquen (France)

IAC-05-C4.1.01**Liquid Rocket Engine Test Stand Planning**

Dr. Jeffery Emdee, The Aerospace Corporation, Los Angeles, United States

Dr. Michael Adams, The Aerospace Corporation, Los Angeles, United States, Dr. Shamim Rahman, NASA - Stennis Space Center, Stennis Space Center, MS, United States

IAC-05-C4.1.02**Design Study of Test Facility for Actual Object Firing Test in KSLV Program**

Mr. Sunil Kang, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C4.1.03

The Design Characteristics of the HTV Propulsion Module

Mr. Shinobu Matsuo, Mitsubishi Heavy Industries, Ltd., Komaki, Aichi Pref., Japan

Mr. Yoichiro Miki, Mitsubishi Heavy Industries, Ltd., Komaki, Aichi Pref., Japan, Mr. Takane Imada, JAXA, Tsukuba, Ibaraki-ken, Japan, Mr. Shunichiro Nakai, IHI Aerospace Co, Ltd., Tomioka, Gunma, Japan

IAC-05-C4.1.04

Propulsion System of DNEPR LV Fourth Stage

Dr. Vladimir Shnyakin, Yuzhnoye State Design Office, Dniepropetrovsk, Ukraine

IAC-05-C4.1.05

ELV: Pressure Fed LOX/LH2 Upper Stage

Mr. Max Calabro, The Inner Arch, Villennes sur Seine, France

Mr. Christophe Bonnal, CNES, Evry, France

IAC-05-C4.1.06

Development status of the VINCI engine

Mr. Christian Fiorentino, Snecma Moteurs, Vernon, France

IAC-05-C4.1.07

Single-Stage Earth-to-Orbit Space Transport Vehicle

Prof. Alexander A. Sergienko, Moscow Aviation Institute, Moscow, Russia

Prof. Sergey L. Finogenov, Moscow State Aviation Institute, Moscow, Russia, Prof. Valery P. Burdakov, Moscow State Aviation Institute, Moscow, Russia, Prof. Vladimir I. Zernov, Moscow Aviation Institute, Moscow, Russia, Mrs. Zhou Weixing, Moscow Aviation Institute, Moscow, China

IAC-05-C4.1.08

Concept Study of High-reliable LH2/LOX Rocket Engine for Reusable Experimental Vehicle

Mr. Hiroshi Aoki, Japan Aerospace Exploration Agency (JAXA), Chofu-city, Japan

Mr. Moriyasu Fukuzoe, JAXA, Tsukuba, Ibaraki, Japan, Dr. Yoshihiro Naruo, ISAS/JAXA, Sagamihara, Japan, Mr. Masaaki Yasui, Mitsubishi Heavy Industries, Ltd., Komaki-city, Aichi, Japan, Mr. Hirotaka Kure, Ishikawajima-Harima Heavy Industries Co.,Ltd., Mizuho-cho, West-tama, Japan,

IAC-05-C4.1.09

Propulsion System for Panel ExTension SATellite (PETSAT)

Dr. Hironori Sahara, University of Tokyo, Tokyo, Japan

Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan, Ms. Chisato Kobayashi, -, Higashi Osaka, Japan

IAC-05-C4.1.10

Evolution Tendencies of the LV Propellant Tanks Pressurization Systems

Mr. Logvinenko Anatoly, Yuzhnoye State Design Office, Dniepropetrovsk, Ukraine

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D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.1. Launch Vehicles in Service or in Development

Chairmen: Ulf Palmnäs (Sweden), Ray F. Johnson (United States)

Rapporteur: Sergey F. Kostromin (Russia)

IAC-05-D2.1.01

Return to Flight and the Future of H-IIA

Mr. Shoichiro Asada, Mitsubishi Heavy Industries, Ltd., Nagoya, Aichi, Japan

IAC-05-D2.1.02

Falcon I: First Flight Results

Mr. Hans Koenigsmann, Space Exploration Technologies, El Segundo, United States

Mrs. Gwynne Shotwell, Space Exploration Technologies, El Segundo, United States

IAC-05-D2.1.03

Inaugural Flight of the EELV Delta IV Heavy Expendable Launch Vehicle

Mr. Michael Berglund, The Boeing Company, Huntington Beach, CA, United States

Mr. Dan Marin, Boeing Integrated Defense Systems, Huntington Beach, United States, Mr. Mark Wilkins, Boeing Integrated Defense Systems, Huntington Beach, United States

IAC-05-D2.1.04

Qualification of the Upgraded ARIANE 5 ECA Launcher

Mr. Lionel Ravet, CNES, Evry cedex, France

IAC-05-D2.1.05

ARIANE 5 evolution, robustness and reliability

Mr. Robert Lainé, ESA Headquarters, Paris, France

IAC-05-D2.1.06

Evolved Atlas to Meet Space Transportation Needs

Dr. George Sowers, Lockheed Martin Astronautics, Denver, United States

IAC-05-D2.1.07

Soyuz ST, a new version of the Soyuz launch vehicle

Mr. Pascal Claudel, Starsem, Evry, France

IAC-05-D2.1.08

Russian Launch Vehicles: Problems and Ways of Progress

Dr. Yakov Chatrov, TSNIIMASH, Korolev, Russia

Mr. V.I. Lukjashchenko, TSNIIMASH, Korolev, Russia

IAC-05-D2.1.09

The case for the 20MT rocket

Mr. Sandro Catanzaro, Massachusetts Institute of Technology (MIT), Cambridge, United States

D3. Symposium on Stepping Stones to the Future: Strategies, Architectures, Concepts and Technologies (IAA 3.6.)*Coordinators: John C. Mankins (United States)***D3.1. Strategies to Establish a "Stepping Stone" Approach to our Future in Space***Chairmen: John C. Mankins (United States)**Rapporteur: Christian Sallaberger (Canada)***IAC-05-D3.1.01****Exploration System Technology Aspects in the Exploration Programme of the European Space Agency***Mr. Alain Pradier, ESA/ESTEC, Noordwijk, Netherlands**Mr. Claus-Juergen Reimers, ESA/ESTEC, Noordwijk, Netherlands***IAC-05-D3.1.02****Technological Stepping Stones for Affordable and Sustained Space Exploration***Mr. Nantel Suzuki, NASA- HQ, Washington, DC, United States***IAC-05-D3.1.03****Japanese Lunar Exploration Long Term Plan***Mr. Kohtaro Matsumoto, JAXA, Chofu, Tokyo, Japan**Mr. Norimitsu Kamimori, JAXA/ISTA, Chofu-shi, Japan,**Mr. Yoshisada Takizawa, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Ibaraki, Japan, Prof. Manabu Kato, JAXA/ ISAS, Sagami-hara, Japan***IAC-05-D3.1.04****Coping with Illusional Stepping Stones***Mr. David Crabtree, Canadian Space Agency, St Hubert, Canada***IAC-05-D3.1.05****Motivating Factors for Human Spaceflight: The Long-Term Implications of the ANSARI X PRIZE***Ms. Dawn Owens, X PRIZE Foundation, Trona, California, United States***IAC-05-D3.1.06****The Mars-back Approach: Affordable and Sustainable Exploration of the Moon, Mars, and Beyond Using Common Systems***Mr. Paul Wooster, Massachusetts Institute of Technology, Cambridge, United States**Mr. Wilfried Hofstetter, Massachusetts Institute of Technology, Cambridge, United States, Mr. William Nadir, Massachusetts Institute of Technology, Cambridge, United States, Prof. Edward Crawley, Massachusetts Institute of Technology, Cambridge, MA, United States***IAC-05-D3.1.07****Exploration Program Transparency: Ensuring Effective On-ramps and Off-ramps for Technologies, Commerce, and International Participation***Mr. Frank Eichstadt, Spacehab, Inc., Webster, Texas, United States**Mr. James D. Baker, Spacehab, Incorporated, Webster, TX, United States***IAC-05-D3.1.08****Policy Model for Space Economy Infrastructure***Prof. Narayanan Komerath, Georgia Institute of Technology, Atlanta, United States**Mr. James Nally, Georgia Institute of Technology, Atlanta, United States, Ms. Elizabeth Tang, Georgia Institute of Technology, Atlanta, United States***IAC-05-D3.1.09****Application of a BIP Constrained Optimization Model to Select the Optimal Sequence of Space Missions and Vehicles to Implement the Proposed International Space Exploration and Utilization Initiative of January 14, 2004***Mr. George W. Morgenthaler, University of Colorado, Boulder, CO, United States***IAC-05-D3.1.10****Financial Bootstrapping as the Steppingstones to Space***Mr. Declan O'Donnell, United Societies in Space, Inc., Castle Rock, CO, United States***E1. Space Education and Outreach Symposium (IAF P.)***Coordinators: Pierre-Louis Contreras (France)***E1.1. "Hands-on" Space Education***Chairmen: Pierre-Louis Contreras (France), Fernando Stancato (Brazil)**Rapporteur: Stephen Brock (United States)***IAC-05-E1.1.01****Space Education Opportunities Through International Partnership***Mr. Christian Van der Velden, RMIT University, Melbourne, Australia**Associate Professor Cees Bil, RMIT University, Melbourne, Australia, Associate Professor Lachlan Thompson, RMIT University, Melbourne, Australia, Ir Ron Noomen, Delft University of Technology, Delft, Netherlands***IAC-05-E1.1.02****Classes Azur Astro Espace: The Activities and their Impact***Mr. Philippe Jung, AAAF, Grasse, France***IAC-05-E1.1.03****Space Mission Simulator - An interactive educational project***Mr. Mark Horvath, Budapest University of Technology and Economics, Budapest, Hungary***IAC-05-E1.1.04****Outreach Experiments: From FOTON M-1 to the ISS***Mr. Iñaki Rodriguez Rebolledo, HE Space Operations, Leiden, Netherlands*

IAC-05-E1.1.05

14 Bissat, an International Student Experience

Mr. Fernando Stancato, Metropolitana-IESB, Londrina, Brazil

Mr. Yulian Protsan, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine, Prof. Arlindo Tribess, Escola Politécnica, São Paulo, Brazil, Mr. José Fernando Mangili Jr., Metropolitana - IESB, Londrina, Brazil

IAC-05-E1.1.06

Student Rocket Program in Tokai University

Mr. Yutaka Wada, Tokai University, Hiratsuka-city, Japan
Mr. Hiroyuki Yamaguchi, Tokai University, Hiratsuka, Japan,
Mr. Hitoshi Nobata, Tokai University, Hiratsuka, Japan,
Prof. Masahisa Hanzawa, Tokai University, Hiratsuka, Japan,
Prof. Fumio Tohyama, Tokai University, Hiratsuka, Japan

IAC-05-E1.1.07 (WITHDRAWN)

Nationale Mobile Space Station

Ms. Christyne Legault, Montreal school board, Montreal, Canada

IAC-05-E1.1.08

COMPASS-1 CubeSat Project: Status and Lessons Learned

Mr. Artur Scholz, University of Applied Sciences Aachen, Aachen, Germany

IAC-05-E1.1.09

"See and Learn" a New educational DVD from SPFC'2004

Mr. Ibai Diez Bilbao, -, Getxo, Spain

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E3. Symposium on Space Exploration: Policy, Economic and Legal Issues (IAA 5.13.)

Coordinators: Gérard Brachet (France), John M. Logsdon (United States)

E3.1. Policy and Legal Issues Associated with Space Exploration

Chairmen: Gérard Brachet (France), John M. Logsdon (United States)
Rapporteur: Masahiko Sato (Japan)

IAC-05-E3.1.01

The European Exploration Programme and the international Context

Mr. Piero Messina, ESA Headquarters, Paris, France

IAC-05-E3.1.02

The New Japanese Space Vision

Mr. Hideshi Kozawa, JAXA, Ibaraki, Japan

IAC-05-E3.1.03

A Geotechnological Balancer: The Emerging China-EU Space Axis

Dr. Joan Johnson-Freese, National Security Decision Making Dept., Newport, RI, United States

IAC-05-E3.1.04

Whatever Happened to Competition in Space Agency Procurement? Monopsonists, Monopolies and NASA

Dr. Vasilis Zervos, The University of Nottingham, Nottingham, United Kingdom

IAC-05-E3.1.05

Successful space exploration through easier technology transfer

Mr. Serge Plattard, European Space Policy Institute (ESPI), Vienna, Austria

IAC-05-E3.1.06

To Build Bifrost

Mr. Thomas Gangale, OPS-Alaska, Petaluma, California, United States

Dr. Marilyn Dudley-Rowley, OPS-Alaska, Petaluma, California, United States

IAC-05-E3.1.07

Definitions of Exploration and Scientific Investigation with Focus on Mineralogical Prospecting and Exploration Activities

Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-E3.1.08

A Youth Forum

Ms. Sandhya Dhaliwal, Space Generation Advisory Council (SGAC) in support of the United Nations Programme on Space Applications, Southport, Australia

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E5. Space Activity and Society Symposium (IAA.6.16)

Coordinators: Ivan Almar (Hungary), Roger Malina (France)

E5.1. Social Benefits of Space Spin-Offs

Chairmen: David Raitt (Netherlands), Nona Cheeks (United States)
Rapporteur: Katsuya Terasawa (Japan)

IAC-05-E5.1.01

Social Benefits of Space Spin-offs: An Introduction

Ms. Nona Cheeks, NASA Goddard space Flight Center, Greenbelt, Maryland, United States

IAC-05-E5.1.02

The abstract of Technology Transfer Activities within JAXA

Mr. Katsuya Terasawa, JAXA, Chiyoda-ku, Tokyo, Japan

IAC-05-E5.1.03

The Dutch Technology Transfer Programme

Mr. Len Van der Wal, TNO Science and Industry, Delft, Netherlands

IAC-05-E5.1.04

Moving away the horizon

Mr. Oleg Ventskovsky, Yuzhnoye SDO European Representation, Brussels, Belgium

Mr. Alexander Degtyarev, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine, Mr. Vladimir Kotyegov, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine

IAC-05-E5.1.05

Exploring Opportunities to Improve the Quality of Life (QOL) thorough Expertise Exchange Between Space and Welfare Fields; Ranging From Rehabilitation Science To Elderly Care and Assistive Technology.

Dr. Hisaichi Ohnabe, University of Pittsburgh, Pittsburgh, PA, United States

Dr. Rory A Cooper, University of Pittsburgh, Pittsburgh, PA, United States, Dr. Diane M Collins, University of Pittsburgh, Pittsburgh, PA, United States, Dr. Atsushi Nakajima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Dr. Tokuji Okada, Niigata University, Niigata, Japan,

IAC-05-E5.1.06

Benefitting Society Through Space-Based Technologies and Systems

Dr. David Raitt, ESA/ESTEC, Noordwijk, Netherlands

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A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.2. Microgravity Engineering Sciences

Chairmen: Nickolay N. Smirnov (Russia), Raimondo Fortezza (Italy)

Rapporteur: Peter Hofmann (Germany)

IAC-05-A2.2.01

Development of self-controlled and self-powered space experiment support system with passive vibration isolation system

Mr. Mitsuru Ohnishi, Japan Aerospace Exploration Agency (ISTA/JAXA), Chofu, Japan

IAC-05-A2.2.02

Mathematical modeling of thermal fields inside Foton-M Spacecraft.

Mr. Nickolay N. Smirnov, Moscow Lomonosov State University, Moscow, Russia

Dr. Oleg Ivashnyov, Moscow Lomonosov State University, Moscow, Russia, Mrs. Anfisa E. Kazakova, Central Specialised Design Bureau of, Samara, Russia

IAC-05-A2.2.03

Sorption Heat Pipe - New Thermal Control Device For Space And Ground Applications.

Dr. Leonid Vasiliev, Luikov Heat and Mass Transfer Institute, Minsk, Belarus

IAC-05-A2.2.04

The Interaction between Drops and Solidification Front in Presence of Marangoni Effect

Ph.D. Fabrizio Nota, Department of Space Science and Engineering "L.G. Napolitano" University of Naples "Federico II", Naples, Italy

Mr. Raffaele Savino, University of Naples "Federico II", 80125 Napoli, Italy, PhD Stefano Fico, Department of Space Science and Engineering "L.G. Napolitano" University of Naples "Federico II", Napoli, Italy

IAC-05-A2.2.05

Dusty Plasma Liquid: Structure and Transfer Phenomena in Gravity and Microgravity Conditions

Prof. Vladimir Fortov, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia

IAC-05-A2.2.06

Experimental Study of Strongly Coupled Dusty Plasmas on Kinetic Level

Prof. Oleg Petrov, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia

Prof. Vladimir Fortov, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia, Dr. Olga Vaulina, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia, Dr. Vladimir Molotkov, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia, Mr. Andrey Lipaev, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia,

IAC-05-A2.2.07

Liquid Sloshing in Microgravity

Dr. Roel Luppens, University of Groningen, Groningen, Netherlands

prof.dr. Arthur E.P. Veldman, University of Groningen (Netherlands), Groningen, Netherlands

IAC-05-A2.2.08

Transient Subcooling Pool Boiling in Microgravity

Prof. Jian-Fu Zhao, Institute of Mechanics, Chinese Academy of Sciences, Beijing, China

IAC-05-A2.2.09

Preparation of Future Space Experimentntt for Measurement of Diffusion and Soret Coefficients

Mr. Viktor Gousselnikov, University of Brussels, Brussels, Belgium

IAC-05-A2.2.10

URCOOL, an Experimental Platform for Sloshing Investigation in Microgravity

Ms. Inés Fuente, Universidad Politécnica de Madrid, Cerdilla, Spain

Ms. Mercedes Ruiz, Universidad Politécnica de Madrid, León, Spain, Mr. Ricardo Navarro Vásquez, Universidad Nacional de Educación a Distancia, Toledo, Spain, Ms. Sara García, Universidad Politécnica de Madrid, Madrid, Spain, Dr. Benigno Lázaro, Universidad Politécnica de Madrid, Madrid, Spain

A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.4. New Mission Concepts for Space Exploration

Chairmen: Denis J.P. Moura (France), James Middleton (Canada)

Rapporteur: Junichiro Kawaguchi (Japan), Douglas A. O'Handley (United States), William H. Siegfried (United States)

IAC-05-A3.4.01**Update on ESA's Technology Reference Studies**

Dr. Peter Falkner, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.4.02**Pioneer anomaly: What can we learn from future planetary exploration missions?**

Dr. Andreas Rathke, ESA/ESTEC, Noordwijk, Netherlands

Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.4.03**Design of Aerogravity Assist Transfer Trajectory for Ivar Asteroid Rendezvous Mission**

Mr. Qiao Dong, Harbin Institute of Technology, Harbin, China

Mr. Cui Hutao, Harbin Institute of Technology, Harbin, China, Mr. Cui Pingyuan, Beijing University of Technology, Beijing, China

IAC-05-A3.4.04**Miniaturized microscopic hyperspectral imagery for in situ compositional analysis of samples at a grain scale**

Mr. Jean-Pierre Bibring, IAS, Orsay, France

IAC-05-A3.4.05**Unraveling Venusian mysteries with planetary aerobots**

Mr. Erik Laan, Dutch Space, Leiden, Netherlands

Dr. Daphne Stam, University of Amsterdam, Amsterdam, Netherlands, Mr. Arno Wielders, Space Horizon, Haarlem, Netherlands, Mr. Aad Eggers, Dutch Space B.V., Leiden, Netherlands, Mr. James Burke, -, Sierra Madre, United States

IAC-05-A3.4.06**Ariane 5 based Low Frequency Lunar Telescope - A high value early Lunar Science Infrastructure**

*Prof. Dr. Uwe Apel, Hochschule Bremen, Bremen, Germany
Dipl.-Ing. Hartmut Müller, EADS ST, Bremen, Germany*

IAC-05-A3.4.07**A New Strategy for Lunar Soft Landing**

Prof. Xu Shijie, Beijing University of Aeronautics and Astronautics, Beijing, China

Mr. Zhu Jianfeng, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-A3.4.08**Design for a Moon/Mars surface habitat with parts made from locally produced glass**

M.Sc. Bas Lansdorp, Delft University of Technology, Delft, Netherlands

IAC-05-A3.4.09**Lunar Polar Mission applying Laser Power Transmission**

Dr. Nobuyuki Kaya, Kobe University, Kobe, Japan

Mr. Christian Schaefer, Kobe University, Kobe, Japan

A4. Search for Extraterrestrial Intelligence (SETI) - The Next Steps (34th Symposium) (IAA.1.1)

Coordinators: Jill Tarter (United States), Carol Oliver (Australia)

A4.1. SETI I - Technical Aspects

Chairmen: Claudio Maccone (Italy), Seth Shostak (United States)

Rapporteur: Ray P. Norris (Australia)

IAC-05-A4.1.01**Quantum Communication and SETI**

Mr. Walt Simmons, University of Hawaii, Honolulu, HI, United States

IAC-05-A4.1.02**Advantages of Active SETI**

Dr. Douglas A. Vakoch, The SETI Institute, Mountain View, CA, United States

IAC-05-A4.1.03**The San Marino Scale for Transmissions from Earth to ET**

Dr. H. Paul Shuch, The SETI League, Inc., Cogan Station, PA, United States

Mr. Ivan Almar, Konkoly Observatory, Budapest, Hungary

IAC-05-A4.1.04**Effects of Collisions upon a Partial Dyson Sphere**

Mr. Robert L. DeBiase, DeBiase Entreprises, Staten Island, NY, United States

IAC-05-A4.1.05**SETI Activities at Kyushu Tokai University**

Mr. Mitsumi Fujishita, Kyushu Tokai University, Kumamoto-ken, Japan

IAC-05-A4.1.06**Gamma Ray Bursters and the Longevity of Life**

Prof. Ray P. Norris, CSIRO Australia Telescope National Facility, Epping, NSW, Australia

IAC-05-A4.1.07**Short-Pulse SETI**

Dr. Seth Shostak, The SETI Institute, Mountain View, CA, United States

IAC-05-A4.1.08**Rethinking the Nature of Extraterrestrial Intelligence**

Dr. Allen Tough, University of Toronto, Toronto, ON, Canada

IAC-05-A4.1.09

Definition of a SETI Search

Ms. Lori Walton, Tigerstar Geoscience, Edmonton, Canada

IAC-05-A4.1.10

The ITASEL Project (Italian Search for Extraterrestrial Life)

Dr. Claudio Maccone, Member of the International Academy of Astronautics, Torino (Turin), Italy

IAC-05-A4.1.11

On the Wings of Copernicus: Further Implications of Discovering Life in the Solar System?

Mr. John D. Rummel, NASA, Washington, DC, United States

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A5. Integrated approaches to the Exploration and Utilization of the Moon and Mars (IAA.3.7.)

Coordinators: George W. Morgenthaler (United States), Christian Sallaberger (Canada)

A5.1. Strategies to Establish Lunar and Mars Colonies

Chairmen: Uwe Apel (Germany), William H. Siegfried (United States)

Rapporteur: George W. Morgenthaler (United States)

IAC-05-A5.1.01

Roadmap for Robotic and Human Exploration of the Moon and beyond

Prof. Bernard H. Foing, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A5.1.02

Identifying "Enablers" and "Catalysts" Toward Realizing the Goal of a Self-Supporting Lunar Colony

Ms. Susmita Mohanty, MoonFront LLC., San Francisco, United States

Dr. Maria Nyström, Lund Institute of Technology, Lund, Sweden

IAC-05-A5.1.03

Industrial Development of the Moon

Mr. N. Sevastyanov, JSC GASCOM, Koroliov, Moscow region, Russia

Mr. V. Vekhoturov, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. V. Shutov, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. V. Branets, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. O. Kazantsev, JSC GASCOM, Koroliov, Moscow region, Russia,

IAC-05-A5.1.04

Review of Existing Legal Principles that Enable or Disable the Colonisation of the Moon and Mars

Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-A5.1.05

Design Strategies enabling Evaluation ON the lunar surface

Ms. Sandra Haeuplik, UT Vienna, Vienna, Austria

IAC-05-A5.1.06

In Situ Propellant Production on Mars

Mr. Gabriele Messina, Politecnico di Milano, Tarcento (Udine), Italy

Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy, Dr. Andrea Davighi, Politecnico di Milano, Milano, Italy, Dr. Elvina Finzi, Politecnico di Milano, 20133 Milano, Italy

IAC-05-A5.1.07

Moon Mobile Bases 2012

Mr. Oleg Aleksandrov, AeroSpace Systems, Moscow, Russia

IAC-05-A5.1.08

An Energy-Rich Environment for the Moon by Solar Cell Fabrication on the Moon

Dr. Alex Ignatiev, University of Houston, Houston, TX, United States

Dr. Alexandre Freundlich, University of Houston, Houston, TX, United States, Dr. Adenet Alemu, University of Houston, Houston, TX, United States, Dr. Laurent Sibille, BAE SYSTEMS Analytical Solutions, Huntsville, AL, United States, Dr. Peter Curreri, NASA Marshall Space Flight Center, Huntsville, AL, United States

IAC-05-A5.1.09

Bioforming and Terraforming: A Balance of Methods for Feasible Space Colonization

Mr. Aaron Gronstal, International Space University (ISU), Carroll, United States

Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands, Mr. Tobias Bittner, International Space University (ISU), Ottobrunn, Germany, Mr. Erik Clacey, International Space University (ISU), Järfälla, Sweden, Mr. Angelo Grubisic, International Space University (ISU), Kiddeminster, United Kingdom,

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B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.2. Future Earth Observation Systems

Chairmen: Mukund Rao (India), Benoît Boissin (France)

Rapporteur: Gilles Corlay (France)

IAC-05-B1.2.01

Feasibility Study of Monitoring Earthquakes from Satellites in Orbit

Prof. Tadashi Takano, Japan Aerospace Exploration Agency, Sagamihara, Japan

IAC-05-B1.2.02

Next-Generation High-Resolution Commercial Imaging Satellite

Dr. Robert Clemons, Space Imaging, Chiyoda-ku, Tokyo, Japan

IAC-05-B1.2.03

ASTROSAT 500 - A Flight Proven New Generation of High Resolution Small Satellites Embarking Innovative Technologies

Mr. Hervé Lambert, EADS Astrium, Toulouse, France

IAC-05-B1.2.04

A Superspectral Micro Satellite System for GMES Land Cover Applications

Mr. Vincent Poinsignon, EADS-Astrium, Toulouse, France
Mr. Eric Maliet, EADS Astrium, Toulouse cedex, France

IAC-05-B1.2.05

Focus-M – A Satellite-based Missile Early Warning System

Mr. Sascha Mahal, OHB-System AG, Bremen, Germany
Mr. Carsten Tobehn, OHB-System AG, Bremen, Germany,
Mr. Martin Kassebom, OHB-System AG, Bremen, Germany,
Mr. Andreas Gehlenborg, OHB-System AG, Bremen, Germany

IAC-05-B1.2.06

Multicaptor Formation Flying Based on a Swarm of Microsatellites

Mr. Didier Alary, EADS-Astrium, Toulouse, France
Mr. Gérard Carrin, EADS Astrium, Toulouse, France

IAC-05-B1.2.07

A Canadian constellation of C-band SAR satellite

Dr. Guy Seguin, Canadian Space Agency, Saint-Hubert (Québec), Canada

IAC-05-B1.2.08

Geosynchronous Synthetic Aperture Radar: concept design, properties and possible applications

Mr. Davide Bruno, Cranfield University, Cranfield, United Kingdom
Dr. Stephen Hobbs, Cranfield University, Cranfield, United Kingdom, Mr. Giuseppe Ottavianelli, University of Cranfield, Cranfield, United Kingdom

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B2. Space and Natural Disaster Reduction Symposium (IAF C.)

Coordinators: Ramesh P. Singh (United States), Dimitar Ouzounov (United States)

B2.2. International Cooperation for Natural Hazards Management

Chairmen: Stuart Marsh (United Kingdom), Hormoz Modarressi (France)
Rapporteur: Robert Missotten (France)

IAC-05-B2.2.01

Impact Hazards: Large-scale Disaster Planning Worthy of International Cooperation

Dr. Liara Covert, University of New Brunswick, Rothesay, Canada

IAC-05-B2.2.02

Threats from near Earth Objects (NEOs)

Dr. Simon Worden, University of Arizona, Tucson, AZ, United States
Dr. Ray A. Williamson, The George Washington University, Washington, DC, United States

IAC-05-B2.2.03

Disaster Management in Developing Countries: the Necessity against the Challenge. An overview in the Brazilian situation.

Mrs. Ieda Vieira, University of Taubaté, Taubaté, Brazil

IAC-05-B2.2.04

Constellation capacity providing daily Disaster response - the DMC and the Charter

Mr. Paul Stephens, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom
Mr. David Hodgson, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom, Mr. M. Bekhti, Centre National des Techniques Spatiales, Arzew, Algeria

IAC-05-B2.2.05

The Role of Space Remote Sensing Technology in the Earthquake and Tsunami Emergency Response and Disaster Mitigation in ACEH and NIAS north Sumatra, Indonesia, 26 December 2004

Dr. Mahdi Kartasasmita, Indonesian National Institute of Aeronautics and Space-LAPAN, Jakarta, Indonesia
Mr. Bmabang Tejasukmana, Indonesian National Institute of Aeronautics and Space-LAPAN, Jakarta, Indonesia

IAC-05-B2.2.06

Proposal of SMART MicroHAP

Mr. Matej Kutil, Hochschule Zittau/Görlitz - University of Applied Sciences, Jablonec nad Nisou, Czech Republic

IAC-05-B2.2.07

A new system to avoid the catastrophes caused by Tsunamis in Third World countries making use of the international cooperation

Mr. Fernando Martinez, Universidad Politécnica de Valencia, Valencia, Spain

IAC-05-B2.2.08

Emergency Aid System – VITA

Mr. Oleg Mirny, Yuzhnoye State Design Office, Dnepropetrovsk, Ukraine

IAC-05-B2.2.09

Natural Hazards Monitoring System Based on the Gun Launch System

Mr. Oleg Ventkovsky, Yuzhnoye SDO European Representation, Brussels, Belgium
Mr. Oleg Korostelev, "Luch" Kiev State Design Bureau, Kiev, Ukraine, Mr. Peter Yakovenko, "Luch" Kiev State Design Bureau, Kiev, Ukraine, Mr. Valery Kanevsky, High Technology Institute, Kiev, Ukraine, Mr. Alexander Tselinko, High Technology Institute, Kiev, Ukraine,

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October 18 2005, 08:30 - 202

B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (United States), Rainer Sandau (Germany)

B5.3./B5.5. Integrated Session on Small Satellite Operations and Space Access for Small Satellites

Chairmen: Peter M. Allan (United Kingdom), Alex da Silva Curiel (United Kingdom), Rhoda Shaller Hornstein (United States), Jeffery Emdee (United States)

IAC-05-B5.3./B5.5.01

Accounting for Varying Sensor Alignments in the Attitude Reconstruction for Odin.

Mr. Emil Vinterhav, Swedish Space Corporation, Solna, Sweden

Mr. Fredrik Nilsson, Swedish Space Corporation, Stockholm, Sweden, Mr. Dag Hallberg, Swedish Space Corporation, Stockholm, Sweden

IAC-05-B5.3./B5.5.02

Technology Demonstration on University of Tokyo's Pico-Satellite "XI-V" and Its Effective Operation Result using Ground Station Network

Mr. Rju Funase, University of Tokyo, Tokyo, Japan

Mr. Yuliang Cheng, University of Tokyo, Tokyo, Japan, Mr. Takashi Eishima, University of Tokyo, Tokyo, Japan, Mr. Akito Enokuchi, University of Tokyo, Tokyo, Japan, Mr. Masaki Nagai, University of Tokyo, Tokyo, Japan,

IAC-05-B5.3./B5.5.03

Operating a terrestrial Internet router onboard and alongside a small satellite

Dr. Lloyd Wood, Cisco Systems, Feltham, United Kingdom

Mr. Alex da Silva Curiel, Surrey Satellite Technology Limited, Guildford, Surrey, United Kingdom, Mr. Will Ivancic, NASA Glenn Research Center, Ohio, United States, Mr. David Hodgson, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom, Mr. Dan Shell, Cisco Systems, Ohio, United States,

IAC-05-B5.3./B5.5.04

An Approach for Achieving High Levels of Reuse and Adaptability in Software Systems for Small Satellite Missions

Mr. Jaco van der Merwe, Sun Space Information Systems, Stellenbosch, South Africa

IAC-05-B5.3./B5.5.05

Sloshsat FLEVO project, flight, and lessons learned

Mr. J.J.M. Prins, NLR, AD Marknesse, Netherlands

IAC-05-B5.3./B5.5.06

Surrey Small Satellite Transfer Vehicle

Mrs. Catherine Ward, University of Surrey, Guildford, Surrey, United Kingdom

IAC-05-B5.3./B5.5.07

Cubesat microsatellite with a balloon

Mr. Grzegorz Niemirowski, Warsaw University of Technology, Ryki, Poland

IAC-05-B5.3./B5.5.08

Spacecraft Architecture with Electric-Jet Propulsions Implementating Long-Term Mission in Conditions of Radiation/Van Allen Belts of the Earth

Mr. Yulian Protsan, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine

IAC-05-B5.3./B5.5.09

Flight Opportunities for Small Payloads on the K-1 Reusable Aerospace Vehicle

Ms. Debra Facktor Lepore, Kistler Aerospace Corporation, Kirkland, WA, United States

IAC-05-B5.3./B5.5.10

SMART-1 Operations

Eng. Daniel Gestal, LSE Space Engineering and Operations AG, Darmstadt, Germany

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October 18 2005, 08:30 - 409

C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.2. Attitude Dynamics Modeling and Determination

Chairmen: Shinichi Nakasuka (Japan), Uwe Feucht (Germany)

Rapporteur: Paolo Teofilatto (Italy)

IAC-05-C1.2.01

Attitude Dynamics of Satellites: from Spinning Satellite to Space Robot

Prof. Kazuo Tsuchiya, Kyoto University, Kyoto, Japan

IAC-05-C1.2.02

Algorithm and Simulation Analysis of CCD Image-based Relative Motion Estimation

Dr. Xiaokui Yue, Northwestern Polytechnical University, Xi'an, China

IAC-05-C1.2.03

A study on the Stability of Spinning Solar Sail-craft

Mr. Tomoki Nakano, University of Tokyo, Sagamihara, Japan

Dr. Osamu Mori, Japan Aerospace Exploration Agency (JAXA), Sagamihara, Kanagawa, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-C1.2.04

Mathematical modelling of stabilization and docking processes of space objects which taking into account liquid fuel mobility in tanks

Mr. Gennady Efimenko, TSNIIMASH, Korolev, Moscow region, Russia

Mr. Oleg Klishev, TSNIIMASH, Korolev, Moscow region, Russia

IAC-05-C1.2.05

Periodic Motion of Multi-Compound-Tether Satellite System on Elliptic Orbits

Mr. Katsuya Nakanishi, Tokyo Metro. Inst. of Tech., Tokyo, Japan

Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan

IAC-05-C1.2.06

UNISAT-3 Attitude Determination using Solar Panel and Magnetometer Data

Mr. Fabio Santoni, Scuola di Ingegneria Aerospaziale, Rome, Italy

Mr. Fabrizio Piergentili, Scuola di Ingegneria Aerospaziale, Rome, Italy

IAC-05-C1.2.07

Precise Numerical Simulations of Electrodynamical Tethers for an Active Debris Removal System

Ms. Satomi Kawamoto, JAXA/ISTA, Tokyo, Japan

Mr. Takeshi Makida, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Dr. Yasushi Okawa, Japan Aerospace Exploration Agency (ISTA/JAXA), Chofu, Tokyo, Japan, Dr. Shin-ichiro Nishida, JAXA/ISTA, Chofu, Japan, Dr. Atsushi Nakajima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan

IAC-05-C1.2.08

Non-Holonomic Turn and its Application to Spacecraft Attitude Maneuvers

Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-C1.2.09

Measured states of Sloshtat FLEVO

Mr. Jan Vreeburg, NLR, BM Amsterdam, Netherlands

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October 18 2005, 08:30 - 414

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.1.B. Space Structures - Development and Verification "Deployables and Dimension Stable Structures"

Chairmen: Paolo Gasbarri (Italy), Jean-Alain Massoni (France)

Rapporteur: Pierre Rochus (Belgium)

IAC-05-C2.1.B.01

Development of a High Precision Deployable Modular Antenna for the Next Space VLBI Mission

Dr. M.C. Natori, Institute of Space and Astronautical Sciences (ISAS), Sagamihara, Kanagawa, Japan

Dr. H. Hirabayashi, JAXA/ISAS, Sagamihara, Kanagawa, Japan, Mr. S. Iikura, NEC TOSHIBA Space Systems (NTS), Yokohama, Kanagawa, Japan, Dr. Yasuhiro Murata, JAXA/ISAS, Sagamihara, Kanagawa, Japan, Dr. N. Okuizumi, JAXA/ISAS, Sagamihara, Kanagawa, Japan

IAC-05-C2.1.B.02

A Feasibility Study of An Ultra-light Large Antenna Reflector for Future Mobile Communications Satellites

Dr. Akira Meguro, NTT Access Network Service System Laboratories, Yokosuka, Kanagawa, Japan

Mr. Satoshi Harada, -, Yokosuka-shi, Japan, Dr. Masazumi Ueba, -, Yokosuka-shi, Japan

IAC-05-C2.1.B.03

Dobson Space Telescope - Development of the deployment mechanism

Mr. Bjoern Danziger, Institute of Aeronautics and Astronautics, Berlin, Germany

Mr. Matthias Lieder, Technische Universität Berlin Sekr. F6, Berlin, Germany, Mr. Tom Segert, Technische Universität Berlin, Berlin, Germany

IAC-05-C2.1.B.04

Study on a Reconfigurable Antenna Consisting of Cable Networks

Dr. Hiroaki Tanaka, National Defense Academy, Yokosuka, Kanagawa, Japan

Dr. M.C. Natori, Institute of Space and Astronautical Sciences (ISAS), Sagamihara, Kanagawa, Japan

IAC-05-C2.1.B.05

Investigating Semi-Rigid Kapton Panels for use in Space Telescopes

Jonathan Black, University of Kentucky, Lexington, KY, United States

IAC-05-C2.1.B.06

Free-Flying Robot 3D Simulator Validation by Means of Air-Bearings Table 2D Tests

Mr. Silvio Cocuzza, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Padova, Italy

Mr. Alessio Aboudan, CISAS - "G. Colombo" Center of Studies and Activities, Padova, Italy, Mr. Carlo Bettanini, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Padova, Italy, Mr. Andrea Bulgarelli, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Padova, Italy, Mr. Carlo Menon, ESA/ESTEC, Noordwijk, Netherlands,

IAC-05-C2.1.B.07

Structural Design of Ultra-Lightweight Spin Axis Extendable Mast Using Inflation Extension Method

Mr. Kazuki Watanabe, WEL Research Co., Ltd., Chiba, Japan

Mr. Akihito Watanabe, Sakase Adtech Co., Ltd., Sakaigun, Fukui, Japan, Dr. Ken Higuchi, ISAS/JAXA, Sagamihara, Kanagawa, Japan, Dr. Hiroaki Tsunoda, NTT Corporation, Yokosuka, Kanagawa, Japan, Dr. Hiroshi Yamakawa, Waseda University, Tokyo, Japan

IAC-05-C2.1.B.08

Deployment Control Experiment of Solar Sail in Sub-Payload of M-V Rocket

Dr. Shinsuke Takeuchi, Institute of Space and Astronautical Sciences (ISAS), Kanagawa, Japan

Dr. Yuichi Tsuda, Japan Aerospace Exploration Agency, Sagamihara, Kanagawa, Japan, Prof. Jun-jiro Onoda, Japan Society for Aeronautics and Space Sciences (JSASS), Tokyo, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-C2.1.B.09

Structural and HygroThermal Analysis of Composite Space Tube

Dr. Deog-Gyu Lee, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C2.1.B.10

Structural development and analysis of an inflatable deployment and rib support large reflector model

Mr. Tian Zhenhui, Harbin Institute of Technology, Harbin, China

Mr. Yunliang Li, Harbin Institute of Technology, Harbin, China, Dr. Huifeng Tan, Harbin Institute of Technology, Harbin, China, Mr. Xingwen Du, Harbin Institute of Technology, Harbin, China

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October 18 2005, 08:30 - 503

C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.2. Propulsion Systems II

Chairmen: Charles A. Chase (United States), Jean-François Guery (France)

Rapporteur: John Harlow (United Kingdom)

IAC-05-C4.2.01

Recent Advances in Cryogenic Solid Propellant Multiple Hybrid Combustion

Dr. Roger Lo, AI: Aerospace Institute, Berlin, Germany

IAC-05-C4.2.02

A new Continuous Mixing Facility for the Demonstration of Solid Propulsion Technologies of Future ELV

Mr. Jean-François Guery, SNPE Matériaux Energetiques, Vert-le Petit, France

Dr. Marie Gaudre, SNPE Matériaux Energetiques, Saint Médard en Jalles, France, Mr. Philippe Greco, SNPE Matériaux Energetiques, Saint Médard en Jalles, France, Dr. Georges Chounet, SNPE Matériaux Energetiques, Saint Médard en Jalles, France

IAC-05-C4.2.03

ARIANE 5 SRM Nozzle Evolution

Mr. Didier Boury, Snecma Propulsion Solide, Le Haillan, France

IAC-05-C4.2.04

Potential performance upgrade by the use of an extendible nozzle on ARIANE 5

Mr. Alain Mercier, Snecma Propulsion Solide, Le Haillan, France

Mr. Renaud Barreteau, Snecma Propulsion Solide, Le Haillan, France, Mr. Alain Lacombe, Snecma Propulsion Solide, Le Haillan, France, Mr. Thierry Pichon, Snecma Propulsion Solide, Le Haillan, France

IAC-05-C4.2.05

Flight Vehicle Propulsion Efficiency Increase

Prof. Vasily Semenov, Moscow Aviation Institute, Moscow, Russia

Dr. Igor Ivanov, Moscow State Aviation Institute, Moscow, Russia, Prof. Sergey L. Finogenov, Moscow State Aviation Institute, Moscow, Russia, Dr. Andrew Talalaev, Moscow Aviation Institute, Moscow, Russia, Mr. Andrew Krukov, Moscow Aviation Institute, Moscow, Russia

IAC-05-C4.2.06

Characteristics of Dynamic Load on Nozzle Extension of Extendible Nozzle

Dr. Masaki Sato, JAXA/ISTA, Kakuda, Japan

Dr. Shinichi Moriya, JAXA/ISTA, Kakuda, Japan, Mr. Kazuo Kusaka, JAXA/ISTA, Kakuda, Japan, Mr. Makoto Tadano, JAXA/ISTA, Kakuda, Japan, Mr. Masahiro Sato, JAXA/ISTA, Kakuda, Japan,

IAC-05-C4.2.07

LE-7A Sub-scale Combustion tests to Clarify Causes of Severe Side-loads in the Nozzle

Mr. Takeo Tomita, JAXA/ISTA, Miyagi, Japan

Mr. Hiroshi Sakamoto, JAXA/ISTA, Miyagi, Japan, Mr. Masahiro Takahashi, JAXA/ISTA, Miyagi, Japan, Mr. Mamoru Takahashi, JAXA/ISTA, Miyagi, Japan, Mr. Masaki Sasaki, JAXA/ISTA, Miyagi, Japan,

IAC-05-C4.2.08

Design Criterion of the Dual-Bell Nozzle Contour

Dr. Hirotaka Otsu, Shizuoka University, Hamamatsu, Japan

Dr. Masafumi Miyazawa, Shizuoka University, Kamakura, Japan

IAC-05-C4.2.09

Prototyping and Experimental Characterization of a Micropropulsion System based on Supersonic Cold-Gas and Warm-Gas Micronozzles

Dr. Giulio Manzoni, Microspace Srl, Trieste, Italy

Dr. Sven Heisig, National Institute of Advanced Science and Technology (AIST), Tsukuba, Japan, Dr. Sohei Matsumoto, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, Prof.Dr.Eng. Ryutaro Maeda, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan

IAC-05-C4.2.10

Investigation of LPRE operation features at modes of preliminary stage and deep throttling

Dr. Igor Fatuev, NPO Energomash, Khimki, Moscow region, Russia

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D1. Space Systems Symposium (IAF U.)

Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.1. Innovative and Visionary Space Systems Concepts

Chairmen: Mauricio Guelman (Israel), Clarence Wingate (United States)

Rapporteur: Jean-Louis Marcé (France)

IAC-05-D1.1.01

Conceptual Study on Inflatable Tensegrity Module for Large Scale Space Structures and its Robotic Assembly

Mr. Satoshi Murata, Tokyo Institute of Technology, Kanagawa, Japan

Dr. Hiroshi Furuya, Tokyo Institute of Technology, Yokohama, Japan, Mr. Daisuke Jodoi, Tokyo Institute of Technology, Kanagawa, Japan, Mr. Keiki Takadama, Tokyo Institute of Technology, Kanagawa, Japan, Mr. Yuzuru Terada, Tokyo Institute of Technology, Kanagawa, Japan

IAC-05-D1.1.02

Advances in Force Field Tailoring for Construction in Space

Mr. Sam Wanis, Georgia Institute of Technology, Atlanta, GA, United States

Prof. Narayanan Komerath, Georgia Institute of Technology, Atlanta, United States

IAC-05-D1.1.03

Proposed Space Experiments of Space Tether Technology

Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan

Prof. Chikatoshi Satoh, Nihon University, Funabashi, Japan, Prof. Koh-ichiro Oyama, JAXA/ISAS, Sagami-hara, Japan, Prof. Susumu Sasaki, Institute of Space and Astronautical Sciences (ISAS), Sagami-hara, Japan, Prof. J. R. Sanmartin, Universidad Politécnica de Madrid, Madrid, Spain,

IAC-05-D1.1.04

Tethered formation flight for roto-translational energy exchange

Ms. Cristina de Nequeruela, ESA/ESTEC, Noordwijk, Netherlands

Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands, Mr. Carlo Menon, ESA/ESTEC, Noordwijk, Netherlands, Dr. Andreas Rathke, ESA/ESTEC, Noordwijk, Netherlands, Dr. Mark Ayre, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D1.1.05

Moon's Positioning System. A comparative approach.

Mr. Ignacio Javier Clérigo Vecino, University of Valladolid, Valladolid, Spain

IAC-05-D1.1.06

A Captured Asteroid: our David's Stone for Shielding Earth and Providing the Cheapest Extraterrestrial Material

Dr. Didier Massonnet, CNES, Toulouse, France
Dr. Benoît Meyssignac, CNES, Toulouse, France

IAC-05-D1.1.07

Human Hypometabolism for Long Duration Spaceflight: Possibilities and System-level Consequences

Dr. Mark Ayre, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D1.1.08

On the Possibility of Removing Dangerous Technogenic

Dr. Mykola M. Slyunyaev, Yuzhnoye State Design Office, Dnepropetrovsk, Ukraine
Dr. Stanislav Konyukhov, Yuzhnoye State Design Office, Dnepropetrovsk, Ukraine

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October 18 2005, 08:30 - 204

D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.2. Launch Services, Missions, Operations and Facilities

Chairmen: Walter Faulconer (United States), Laurent Bouaziz (France)
Rapporteur: S.S. Balakrishnan (India)

IAC-05-D2.2.01

Overview of GX Launch Services by GALEX

Mr. Koji Sato, Galaxy Express Corporation, Tokyo, Japan

IAC-05-D2.2.02

Real time performance monitoring of a Satellite Launch Vehicle - An over view of evolution and it's present capability at Satish Dhawan Space Centre SHAR

Mr. S.S. Balakrishnan, ISRO Headquarters, Bangalore, India

Real time performance monitoring Vellanki Seshagiri Rao, ISRO, Sriharikota, India

IAC-05-D2.2.03

Use of Imagery and Other Sensors for Decision Making during STS-114

Mr. Paul D. Maley, United Space Alliance, Houston TX, United States

IAC-05-D2.2.04

Ariane 5 back to business

Mr. Louis Laurent, Arianespace, Evry, France

IAC-05-D2.2.05

An Overview of Mission Planning for the National Reconnaissance Office to Ensure Assured Access to Space

Dr. Peter L. Portanova, The Aerospace Corporation, El Segundo, CA, United States

Mr. David L. Bradley, Scitor Corporation, El Segundo, CA, United States, Mrs. Erika L. Neitzke, U.S. Air Force, El Segundo, CA, United States

IAC-05-D2.2.06

Privatization of the H-IIA Launch Vehicle

Mr. Shoichiro Asada, Mitsubishi Heavy Industries, Ltd., Nagoya, Aichi, Japan

IAC-05-D2.2.07

Domestic Insurance and Licensing Requirements for Private Launch Services: A Comparative Guide

Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-D2.2.08

From the Failure to the Success - The Return to Flight of the ARIANE 5 ECA Launcher

Mr. Séverin Drogoul, EADS Space Transportation, Les Mureaux, France

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October 18 2005, 08:30 - 502

D3. Symposium on Stepping Stones to the Future: Strategies, Architectures, Concepts and Technologies (IAA 3.6.)

Coordinators: John C. Mankins (United States)

D3.2. Novel Concepts and Technologies for the Exploration and Utilization of Space

Chairmen: John C. Mankins (United States), Dietrich Vennemann (Netherlands)

Rapporteur: Maria Antonietta Perino (Italy)

IAC-05-D3.2.01

In-Space Cryogenic Propellant Depot Stepping Stone

Mr. Joe T. Howell, NASA, Huntsville, Alabama, United States

Mr. John Fikes, NASA Marshall Space Flight Center, Huntsville, United States, Mr. John C. Mankins, NASA, Washington D.C., United States

IAC-05-D3.2.02

Unmanned on-orbit servicing (OOS) - A Roadmap to the future, ROKVISS & the TECSAS mission

Mr. Bernd Sommer, DLR, Bonn, Germany

IAC-05-D3.2.03

High-Power Solar Electric Propulsion for Human Mars Transportation

Mr. Gordon R. Woodcock, Space America Inc., Huntsville, AL, United States

IAC-05-D3.2.04

Modular, Reconfigurable, High-Energy Systems Stepping Stones

Mr. Joe T. Howell, NASA, Huntsville, Alabama, United States

Mrs. Connie K. Carrington, NASA, Huntsville, AL, United States, Mr. John C. Mankins, NASA, Washington D.C., United States

IAC-05-D3.2.05

MOONWALKER One – First Mobile Lunar Base

Ms. Sandra Haepflik, UT Vienna, Vienna, Austria

IAC-05-D3.2.06

Next-Generation Exploration Networking Systems for Traverses on Planetary Surfaces

Dr. Stephen Braham, Simon Fraser University, Vancouver, BC, Canada

Dr. Brian Glass, NASA Ames Research Center, Moffett Field, CA, United States

IAC-05-D3.2.07

Pico Reentry Probes: New Tools for Reentry Testing

Dr. William Ailor, Aerospace Corporation, El Segundo, CA, United States

Dr. Daniel Rasky, NASA Ames Research Center, Moffett Field CA, United States, Mr. Vinod Kapoor, The Aerospace Corporation, El Segundo, CA, United States

IAC-05-D3.2.08

Think Outside the ‘CAN’: Novel Architectural Concepts for Space Exploration

Ms. Susmita Mohanty, MoonFront LLC., San Francisco, United States

Dr. Maria Nyström, Lund Institute of Technology, Lund, Sweden

30 --- **October 18 2005, 08:30 - 413**

E2. 35th Student Conference (IAF W.)

Coordinators: Bénédicte Escudier (France), Rachid Amekrane (Germany)

E2.1. Student Conference I

Chairmen: Bénédicte Escudier (France), Stephen Brock (United States)

Rapporteur: Carsten Holze (Germany)

IAC-05-E2.1.01

Application of Onboard Radar for Spacecraft Security

Ms. Han Lei, National University of Defense Technology, Changsha, China

IAC-05-E2.1.02

An Ultra-High-Altitude Sun-Synchronous Orbit and the Perturbation due to the Earth Gravity

Ms. Keiko Kuroshima, University of Tokyo, Kanagawa, Japan

IAC-05-E2.1.03

Ejector Active Thermal Control System of Spacecraft

Mrs. Ekaterina Solodovnikova, Moscow Aviation Institute (State Technical University), Moscow, Russia

IAC-05-E2.1.04

Theoretical variations in SPT performances with the use of Krypton as propellant

Mr. Rafael Contreras Fernandez, Escuela Técnica Superior de Ingenieros Aeronáuticos, Madrid, Spain

IAC-05-E2.1.05

A study on the effect of Atomic Oxygen on Kapton: chemical approach to the polymer and experimental verify in a simulator facility

Ms. Barbara Codan, University of Trieste, Duino Aurisina (TS), Italy

Ms. Grazia Bitetti, University of Rome “La Sapienza”, Rome, Italy, Dr. Lucio Colombi Ciacchi, University of Cambridge, Cambridge, United Kingdom, Prof. Alessandro De Vita, University of Trieste, Trieste, Italy

IAC-05-E2.1.06

Abort Determination with Non-Adaptive Neural Networks for the Mars Precision Landers

Ms. Kara M. Kranzusch, Iowa State University, Ames, IA, United States

IAC-05-E2.1.07

Re-entry of a Solar Kite into Earth’s Atmosphere

Mr. Andreas Thellmann, University of the Federal Armed Forces Munich, Springe / Hanover, Germany

IAC-05-E2.1.08

The Miniature Star Tracker for the European Student Earth Orbiter

Mr. Nicolas Schaeffer, SUPAERO, Saint-Paul-de-Serre, France

Mr. Yoann Decourt, SUPAERO, Toulouse, France, Mr. Vincent Goiffon, SUPAERO, Toulouse, France

IAC-05-E2.1.09

Small Satellite Formations in Resonant Orbits

Ms. Kathryn ODonnell, Surrey Space Centre, Surrey, United Kingdom

Mr. Philip L. Palmer, Surrey Space Centre, Surrey, United Kingdom

31 --- **October 18 2005, 08:30 - 410**

E5. Space Activity and Society Symposium (IAA.6.16)

Coordinators: Ivan Almar (Hungary), Roger Malina (France)

E5.4. Space Spin-Offs: Principles and Practice

Chairmen: David Raitt (Netherlands), Nona Cheeks (United States)

Rapporteur: Katsuya Terasawa (Japan)

IAC-05-E5.4.01

What Makes Space Technology Transfer Tick?

Mr. Joerg Kreisel, JOERG KREISEL International Consultant (JKIC), Aachen, Germany

IAC-05-E5.4.02

Down-to-Earth Benefits of Space Exploration: Past, Present, Future

Mr. Benjamin Neumann, NASA Headquarters, Washington, DC, United States

IAC-05-E5.4.03

Space Radar Technology for Mine-Tunnel Security
Dr. Hans Martin Braun, RST Raumfahrt Systemtechnik GmbH, Salem, Germany

Dr. Peter Kaiser, MIRARCO Mining Innovation, Salem, Germany, Mrs. Yvonne Krellmann, RST Raumfahrt Systemtechnik GmbH, Salem, Germany, Dr. Arnfinn Prugger, PCS Potash, , Germany, Mr. Gunnar Triltzsch, RST Raumfahrt Systemtechnik GmbH, Salem, Germany

IAC-05-E5.4.04

Technology and knowledge transfer using manned space flight results to nourish new ground breaking medical research areas: a comparison of reactive and proactive technology transfer processes using two examples of European innovative SMEs

Dr. Serge Galant, TECHNOFI, Sophia Antipolis, France

IAC-05-E5.4.05

Space Exploration to Benefit Humanity: NASA's Innovative Partnerships Program

Dr. Frank Schowengerdt, NASA- HQ, Washington, DC, United States

IAC-05-E5.4.06

Investigate before Investing: Using Technology Transfer Principles to Guide R&D

Ms. Laura Schoppe, Fuentek, LLC, Apex, North Carolina, United States

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October 18 2005, 08:30 - Heian

E6. 48th Colloquium on Law of Outer Space (IISL)
Coordinators: Tanja Masson-Zwaan (Netherlands)

E6.1. Legal Issues Related to New Developments in Space Applications: Navigation, Remote Sensing and GIS

Chairmen: Francis Lyall (United Kingdom), Toshio Kosuge (Japan)

Rapporteur: Sethu Nandakumar (United Kingdom)

IAC-05-E6.1.01

Privatisation of Telecommunications in the developing world: A lesson learnt, or a burden imposed?

Mr. Atip Latipulhayat, Monash University, Mount Waverley, Victoria, Australia

IAC-05-E6.1.02

Convergence of telecommunication services and the problems of their regulation

Prof. Rosa María Ramírez de Arellano, Ramírez de Arellano y Abogados, S.C. Law Firm, Mexico, D. F., Mexico

IAC-05-E6.1.03

Regulation of Access to Limited Resources in Telecommunications Sector in Europe

Dr. Lesley Jane Smith, University of Bremen, Bremen, Germany

IAC-05-E6.1.04

Asia Broadband Plan and its implications for bridging Digital Divide Within the frame work of WSIS and international cooperation

Prof. Toshio Kosuge, University of Electro-Communications, Tokyo, Japan

IAC-05-E6.1.05

Deriving more 'Common Benefit' from Space Telecommunications.

Prof. Francis Lyall, University of Aberdeen, Aberdeen, United Kingdom

IAC-05-E6.1.06

Remote Sensing in the War Against Terrorism

Prof. Carl Q. Christol, -, Pacific Palisades, CA, United States

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A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.3. Mathematical Models, Physiology and Space-flight

Chairmen: Martin Kushmerick (United States), Ronald J. White (United States)

Rapporteur: James E. Coolahan (United States)

IAC-05-A1.3.01

A Mathematical Model of Vestibular Reactions to Artificial Gravity

Mr. Thomas Coffee, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-A1.3.02

Multi-scale Model of Whole Body to Predict Integrated Metabolic Response to Space Travel

Dr. Marco Cabrera, Case Western Reserve University, Cleveland, United States

Mr. Russell Valentine, Case Western Reserve University, Cleveland, United States, Dr. Ranjan Dash, Case Western Reserve University, Cleveland, United States

IAC-05-A1.3.03

Low gravity Orbiting Research Laboratory Environment Potential Impact on Space Biology Research

Mr. Kenol Jules, NASA, Cleveland, OH, United States

IAC-05-A1.3.04

Fuzzy Inference System for Human Environment Analysis in Space Mission

Mr. Rasyid Aqmar, Bandung Institut of Tecnology, Bandung, Indonesia

Dr. Aman Mostavan, Institut Teknologi Bandung, Bandung, Indonesia

IAC-05-A1.3.05

Cognitive Tests and Problem Solving Performance
Dr. Norbert Kraft, NASA Ames Research Center, Moffett Field CA, United States
Dr. Judith Orasanu, NASA Ames Research Center, Moffett Field, United States, Dr. Yuri Tada, NASA Ames Research Center, Moffett Field, United States, Dr. Ute Fischer, Georgia Institute of Technology/ NASA-Ames, Moffett Field, United States, Mrs. Heidi Binder, NASA, Moffett Field, CA, United States

IAC-05-A1.3.06

Some aspects in development and applying of computer system for space and ground based psychological investigations
Dr. Kunyu Palazov, Bulgarian Academy of Sciences (BAS), Stara Zagora (Sofia), Bulgaria

IAC-05-A1.3.07

The Equation of the Psychological Condition of Cosmonauts
Prof. Vladimir Prisniakov, Academy of Science of Ukraine, Dnipropetrovsk, Ukraine

IAC-05-A1.3.08

Modeling Sensory Conflict and Motion Sickness in Artificial Gravity
Mr. Laurence R. Young, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States
Dr. Thomas Jarchow, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States, Dr. Paul Z. Elias, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States

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A2. Microgravity Sciences and Processes (IAF J.)
Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.3. Results of Microgravity Experiments

Chairmen: Rodney Herring (Canada), Eugene H. Trinh (United States)
Rapporteur: Vladimir Pletser (Netherlands)

IAC-05-A2.3.01

Results of JAXA-GCF Project — High-quality Protein Crystallization under Microgravity for Structural Biology
Mr. Sachiko Takahashi, Japan Space Forum, Tokyo, Japan
Mr. Hiroaki Tanaka, Japan Space Forum, Tokyo, Japan, Dr. Koji Inaka, Maruwa Food Industries, Inc., Nara, Japan, Mr. Masaru Sato, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan, Mr. Shinichi Shinozaki, Japan Space Forum, Tokyo, Japan,

IAC-05-A2.3.02

Formation of voidless dusty plasma using coaxially-segmented RF discharge under microgravity condition
Dr. Satoru Iizuka, Tohoku University, Sendai, Japan
Mr. Wataru Suzukawa, Tohoku University, Sendai, Japan

IAC-05-A2.3.03

Observation of multi-shell structure of dusty cloud by the TAPD method in plasmas under microgravity condition
Dr. Satoru Iizuka, Tohoku University, Sendai, Japan
Mr. Wataru Suzukawa, Tohoku University, Sendai, Japan

IAC-05-A2.3.04

Mechanism of Morphology Change on Synthesis of New AlPO₄·H₂O Crystal
Prof. Wanchun Chen, Chinese Academy of Sciences, Beijing, China
Ms. Daodan Liu, Institute of Physics, CAS, Beijing, China, Prof. Yuren wang, Institute of Mechanics, CAS, Beijing, China

IAC-05-A2.3.05

Measuring equipment for thermophysical properties of droplet electromagnetically-levitated under axial static magnetic field
Mr. Fumitomo Onishi, The Graduate University of Advanced Studies, Kanagawa, Japan

IAC-05-A2.3.06

Ultrasonic-based Viscosity Measurements and the Devitrification of Heavy-Metal Fluoride Glasses
Mr. Ian Dunkley, Queen's University, Kingston, ON, Canada

IAC-05-A2.3.07

Phase Separation of Co-Cu-Pb Immiscible Alloy During Containerless Processing
Prof. Chongde Cao, Northwestern Polytechnical University, Xi an, China
Prof. Bingbo Wei, Northwestern Polytechnical University, Xi an, China

IAC-05-A2.3.08

Reduced gravity devices based on the yoyo principle
Prof. Ryojiro Akiba, Hokkaido Aerospace Science and Technology Incubation Center, Sapporo, Japan

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A3. Space Exploration (IAF Q.)
Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.3. Mars Exploration

Chairmen: Christian Sallaberger (Canada)
Rapporteur: Eduardo W. Bergamini (Brazil), Konstantin M. Pichkhadze (Russia)

IAC-05-A3.3.01

The Mars Exploration Rover Project: 2005 Surface Operations Results
Mr. James K. Erickson, NASA, Pasadena, CA, United States
Dr. John Callas, Jet Propulsion Laboratory, Pasadena, United States, Dr. Albert Haldemann, Jet Propulsion Laboratory, Pasadena, United States

IAC-05-A3.3.02

Status of Mars Reconnaissance Orbiter Mission
Mr. James Graf, Jet Propulsion Laboratory, Pasadena, United States

IAC-05-A3.3.03

Mission Trade-Offs for an 'Entry-Level' Mars Orbiter and Entry Probe
Mr. Andy Phipps, Surrey Satellite Technology Limited, Guildford, United Kingdom

IAC-05-A3.3.04

Rendez-Vous GNC and System Analyses for the Mars Sample Return Mission

Mr. Regnier Pascal, EADS-Astrium, Toulouse, France

Dr. Charles Koeck, EADS Astrium, Toulouse, France,
Mr. Frapard Benoit, EADS-Astrium, Toulouse, France,
Mr. Sembely Xavier, EADS-Astrium, Toulouse, France, Mr.
Slade Richard, EADS-Astrium, Stevenage, United Kingdom

IAC-05-A3.3.05

Sample Analysis at Mars (SAM)

Dr. William Brinckerhoff, Johns Hopkins University, Laurel, MD, United States

Dr. Paul Mahaffy, NASA Goddard space Flight Center, Greenbelt, MD, United States, The SAM Team, -, , United States

IAC-05-A3.3.06

Relay Communications Strategies for Mars Exploration Through 2020

Dr. Charles D. Edwards, NASA/JPL, Pasadena, CA, United States

Mr. Ramon P. De Paula, NASA, Washington, DC, United States, Mr. Greg Kazz, NASA/JPL, Pasadena, CA, United States, Dr. Charles Lee, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States, Mr. Gary Noreen, Jet Propulsion Laboratory, Pasadena, United States

IAC-05-A3.3.07

Trajectory Analysis of Martian Entry Probes for the ESA Exploration Program

Dr. Guillermo Ortega, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.3.08

Designing of sequence of putting into operation of braking and drift systems in the atmosphere of Mars and Venus

Dr. Vorontsov Victor, Babakin Space Center, Khimki-2, Moscow region, Russia

Dr. Victor Vorontsov, Babakin Space Center, Khimki-2, Moscow region, Russia

IAC-05-A3.3.09

Vision-Based Autonomous Hazard Detection and Avoidance for Soft Landing on Mars

Dr. Zhang Zexu, Harbin Institute of Technology, Harbin, China

Mr. Cui Hutaο, Harbin Institute of Technology, Harbin, China, Mr. Cui Pingyuan, Beijing University of Technology, Beijing, China

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A4. Search for Extraterrestrial Intelligence (SETI) - The Next Steps (34th Symposium) (IAA.1.1)

Coordinators: Jill Tarter (United States), Carol Oliver (Australia)

A4.2. SETI II - Interdisciplinary Aspects

Chairmen: Douglas A. Vakoch (United States), John Billingham (United States)

Rapporteur: Bruce Dorminey (United States)

IAC-05-A4.2.01

The Equant Node of Oblivion: The Eighth Major Aspect of the Quiet Axis, A Nearly 40-year Cosmic Artistic/Poetic Construction

Mr. Lowry Burgess, Carnegie Mellon University, Pittsburgh, United States

IAC-05-A4.2.02

Phenomenology and Interstellar Communication: from the life-world to the universe

Dr. Charles Courtney, Drew University, Madison, NJ, United States

IAC-05-A4.2.03

"L" on Earth

Mrs. Kathryn Denning, York University, Toronto, Ontario, Canada

IAC-05-A4.2.04 (WITHDRAWN)

A Study on Interstellar Storytelling

Dr. Harry Letaw, Jr., Letaw Associates, Severna Park, MD, United States

IAC-05-A4.2.05

The Challenges and Rewards of Producing a Science Magazine at a Scientific Institution

Mr. Ly Ly, The SETI Institute, Mountain View, United States

Ms. Ngan Truong, The SETI Institute, Mountain View, United States, Ms. Karen Randall, The SETI Institute, Mountain View, United States, Mrs. May Lam, The SETI Institute, Mountain View, United States

IAC-05-A4.2.06

What should we ask ET?

Prof. Paolo Musso, University of Insubria, Genova, Italy

IAC-05-A4.2.07

Astrobiology: A Pathway Towards Adult Scientific Literacy?

Ms. Carol Oliver, Macquarie University, North Ryde, NSW, Australia

IAC-05-A4.2.08

Invitation to ETI

Mrs. Scarlett Wang, -, North York, Ontario, Canada

IAC-05-A4.2.09

Testing a Claim of Extraterrestrial Technology

Dr. H. Paul Shuch, The SETI League, Inc., Cogan Station, PA, United States

IAC-05-A4.2.10

A Post-Detection Decipherment Matrix

Dr. John Elliott, Leeds Metropolitan University, Leeds, United Kingdom

IAC-05-A4.2.11

Past and Future of Astronomy and SETI Cast in Maths

Dr. Claudio Maccone, Member of the International Academy of Astronautics, Torino (Turin), Italy

B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.3. Earth Observation Sensors and Technology

Chairmen: Andrew Court (Netherlands), Bruce K. Quirk (United States)

Rapporteur: David L. Glackin (United States)

IAC-05-B1.3.01**GOCE Mission: on-ground characterization results for the GRADIO accelerometer flight models**

Dr. Bernard Foulon, Onera, Châtillon, France

Mr. Jean-Pierre Marque, Onera, Chatillon, France, Mr. Bruno Christophe, Onera, Châtillon, France, Mrs. Françoise Liorzou, Onera, Châtillon, France, Mr. Guillaume Hermand, Onera, Châtillon, France

IAC-05-B1.3.02**Progress in RADARSAT Follow-On Constellation Payload Design**

Mr. Arthur Baylis, EMS Technologies Canada, Ltd., Ste-Anne-de-Bellevue, QC, Canada

IAC-05-B1.3.03**Cesic a new technology for lightweight and cost effective space instrument structures and mirrors**

Mr. Christophe Devilliers, Alcatel Alenia Space France, Pegomas, France

Mr. matthias kroedel, ECM, Munich, Germany

IAC-05-B1.3.04**All-SiC telescope technology at EADS Astrium: A revolution for space optical payloads**

Mr. Jacques Breyse, EADS Astrium, Toulouse, France

Mr. Emmanuel Sein, EADS Astrium, Toulouse cedex, France

IAC-05-B1.3.05 (WITHDRAWN)**The Development of an Optical Engineering Model of a Dyson Spectrometer for a Spaceborne Hyperspectral Mission.**

Dr., Andrew Bell, EMS Technologies Canada, Ltd., Ottawa, Canada

IAC-05-B1.3.06**Atmospheric detection applying Laguerre optics to femtosecond lasers**

Ms. Laura Diez Merino, University of Valladolid, Leon, Spain

B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (United States), Rainer Sandau (Germany)

B5.4. Small Satellites for Earth Observation - Lessons Learned and New Generation Missions

Chairmen: Larry Paxton (United States), Amnon Ginati (Netherlands)

Rapporteur: Klaus Briess (Germany)

IAC-05-B5.4.01**The next generation DMC small satellite platform for high-resolution imaging**

Mr. Andrew Cawthorne, Surrey Satellite Technology Ltd, Guildford, United Kingdom

Mr. Alex da Silva Curiel, Surrey Satellite Technology Limited, Guildford, Surrey, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom

IAC-05-B5.4.02**A Small Satellite Solution for Regional Disaster Monitoring Mission**

Mr. Chao Bei, RD Center of Academy of Information Technology, Beijing, China

IAC-05-B5.4.03**PARASOL a micro satellite in the A-Train for Earth atmospheric observations**

Mr. Philippe Lier, CNES, Toulouse, France

IAC-05-B5.4.04**MSMISat – New generation micro-satellite**

Prof. Sias Mostert, Stellenbosch University, Stellenbosch, South Africa

IAC-05-B5.4.05**Lessons Learned from FORMOSAT-2 Mission Operations**

Dr. Jeng-Shing Chern, National Space Program Office, Hsin-Chu, Taiwan

IAC-05-B5.4.06**Satellite Families - Return of Experience and future evolutions**

Mr. Xavier Roser, Alcatel Space, Cannes la Bocca Cedex, France

Dr. Francis Douillet, Alcatel Space Industries, Cannes La Bocca cedex, France

IAC-05-B5.4.07**FIGOSat: First Inter-oceanic GNSS-reflection Observation Satellite**

Ms. Sioe Wen Go, Technical University of Delft (TUDelft), Delft, Netherlands

IAC-05-B5.4.08**Dobson Space Telescope - Recent Developments**

Mr. Tom Segert, Technische Universität Berlin, Berlin, Germany

Mr. Bjoern Danziger, Institute of Aeronautics and Astronautics, Berlin, Germany, Mr. Matthias Liedler, Technische Universität Berlin Sekr. F6, Berlin, Germany

IAC-05-B5.4.09**University of Tokyo's Pico-Satellite Project "PRISM"**

Mr. Masaki Nagai, University of Tokyo, Tokyo, Japan

Mr. Takashi Eishima, University of Tokyo, Tokyo, Japan,

Mr. Akito Enokuchi, University of Tokyo, Tokyo, Japan, Mr.

Tsukasa Funane, University of Tokyo, Tokyo, Japan, Mr.

Ryu Funase, University of Tokyo, Tokyo, Japan,

C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.3. Attitude Control, Sensors and Actuators

Chairmen: Michael Yu. Ovchinnikov (Russia), Amalia Ercoli Finzi (Italy)

Rapporteur: Christopher Dean Hall (United States)

IAC-05-C1.3.01**Attitude Control of Vehicle Ikar at Orbiting and Placement of Globalstar Satellites**

Prof. Gennady Anshakov, SRP RSC TsSKB-Progress, Samara, Russia

Prof. Vladimir Matrosov, CIUD IMASH RAS, Moscow, Russia, Dr. Yevgeny Somov, NII PNMS, Samara, Russia

IAC-05-C1.3.02**Attitude control of satellites in earth and moon orbits**

Mr. Thomas Krogstad, Norwegian University of Science and Technology, Trondheim, Norway

Dr. Jan Tommy Gravdahl, Norwegian University of Science and Technology, Trondheim, Norway, Post doc Petter Tøndel, Norwegian University of Science and Technology, Trondheim, Norway

IAC-05-C1.3.03**Precise Attitude Control of Docking Spacecraft Based on the Observer Reconstruction Using Computer Vision System**

Dr. Xiaokui Yue, Northwestern Polytechnical University, Xi an, China

IAC-05-C1.3.04**Synthesis of optimal control strategy by damping a vibration of Earth satellite with a gravity-gradient stabilization with incomplete information about the state**

Dr. Mikhail Khrustalev, Moscow Aviation Institute (State Technical University), Moscow, Russia

Mr. Dmitriy Rumjancev, Moscow Aviation Institute (State Technical University), Moscow, Russia

IAC-05-C1.3.05**Design for robustness using the mu-synthesis applied to Launcher Attitude and Vibration Control**

Prof. Yasuhiro Morita, ISAS/JAXA, Kanagawa, Japan

IAC-05-C1.3.06**Advanced Attitude Control of Pico Sized Satellites**

Mr. Jesper Abilgaard Larsen, Aalborg University, Aalborg, Denmark

Mr. Rouzbeh Amini, Aalborg University, Aalborg, Denmark, Dr. Roozbeh Izadi-Zamanabadi, Aalborg University, Aalborg, Denmark

IAC-05-C1.3.07**Spacecraft Optical Beam Jitter Control**

Prof. Brij Agrawal, Naval Postgraduate School, Monterey, United States

IAC-05-C1.3.08**Optimal Torque Assignment for Redundant Wheels**

Dr. Takehiro Nishiyama, Mitsubishi Electric Corporation, Amagasaki, Japan

Dr. Katsuhiko Yamada, Mitsubishi Electric Corporation, Amagasaki, Japan

IAC-05-C1.3.09**Non-linear Dynamic Inversion versus Gain Scheduling Techniques for Re-entry Flight Control System**

Mrs. Sinar Juliana, Delft University of Technology, Delft, Netherlands

Dr. Q.P. Chu, Delft University of Technology, Delft, Netherlands, Prof. J.A. Mulder, Delft University of Technology, Delft, Netherlands, Dr. T.J. van Baten, Delft University of Technology, Delft, Netherlands

IAC-05-C1.3.10**Tethered Interferometric Constellations with Self-Stabilizing Platforms' Attitude Control**

Mr. Carlo Menon, ESA/ESTEC, Noordwijk, Netherlands

Mr. Claudio Bombardelli, University of Padova, Padova, Italy, Prof. GianAndrea Bianchini, University of Padova, Padova, Italy

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.2. Space Structures - Dynamics and Micro-dynamics

Chairmen: Ijar M. Da Fonseca (Brazil), Peter M. Bainum (United States)

Rapporteur: Paolo Gasbarri (Italy)

IAC-05-C2.2.01**A six degrees of freedom active isolator based on Stewart Platform for space applications**

Mr. More Avraam, University of Brussels, Brussels, Belgium

Mr. Bruno De Marneffe, University of Brussels, Brussels, Belgium, Prof. André Preumont, University of Brussels, Brussels, Belgium, Dr. Iulian Romanescu, University of Brussels, Brussels, Belgium

IAC-05-C2.2.02**Evaluation of Double-Layer Suspension Cable-Network Design For Vibration Isolation in Membrane Structures**

Dr. Hiraku Sakamoto, University of Colorado, Boulder, United States

Prof. K.C. Park, University of Colorado, Boulder, United States

IAC-05-C2.2.03**Application of the LQG/LTR Method for Attitude Control of a Rigid/Flexible Satellite**

Mr. Luiz Carlos Gadelha De Souza, INPE, Sao José dos Campos, Brazil

Mr. Rolf Vargas, INPE, Sao Jose dos Campos SP, Brazil

IAC-05-C2.2.04**Artificial Damping for Spacecraft Structures Based on LQG Controller and Kalman Observer**

Dr. Anton Grillenbeck, Industrieanlagen-Betriebsgesellschaft mbH (IABG), Ottobrunn, Germany

Dr. Ahmed Abou-El-Ela, Industrieanlagen-Betriebsgesellschaft mbH (IABG), Ottobrunn, Germany, Mr. Mark Wagner, Industrieanlagen-Betriebsgesellschaft mbH (IABG), Ottobrunn, Germany

IAC-05-C2.2.05

Structural and Control Interaction for a LSS Attitude Control System Using Thrusters and Reaction Wheels

Mr. Ijar M. Da Fonseca, INPE, Sao José dos Campos, Brazil

Mr. Peter M. Bainum, Howard University, Washington D.C., United States, Dr. Adenilson Da Silva, INPE, S. J. Campos, S.P., Brazil

IAC-05-C2.2.06

Investigation on Effects of Circumferential Constraint of Membrane on Dynamics of Spinning Solar Sail

Mr. Munetaka Kashiwa, University of Tokyo, Kanagawa, Japan

Prof. Jun-jiro Onoda, Japan Society for Aeronautics and Space Sciences (JSASS), Tokyo, Japan

IAC-05-C2.2.07

Liftoff vibro-acoustic analysis of upper stage of small launch vehicle

Dr. Soon-Hong Park, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C2.2.08

Further Development of the Computational Technique for Dynamics of Structure Subject to Aerodynamic and Acoustic Excitation

Dr. Harijono Djojodihardjo, Universitas Al Azhar Indonesia, Jakarta, Indonesia

Mr. Eric Tendean, Institut Teknologi Bandung, Bandung, Indonesia

IAC-05-C2.2.09

Research of Structural Flexibility Influence of Docking Space Objects on Force Contact Functions during the Docking

Mr. Gennady Efimenko, TSNIIMASH, Korolev, Moscow region, Russia

Dr. Anatoly Likhoded, -, Korolev, Russia, Mr. Aleksei Anisimov, TSNIIMASH, Korolev, Moscow Region, Russia

IAC-05-C2.2.10

On Shock Environment of Solar Arrays of Chinese Lunar-probing Satellite in the Stage of Phasing Orbit

Mr. Yueyu Wang, China Academy of Space Technology (CAST), Beijing, China

IAC-05-C2.2.11

Dynamics heat and mass transfer processes

Prof. Vladimir Prisniakov, Academy of Science of Ukraine, Dnipropetrovsk, Ukraine

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C3. Space Power Symposium (IAF R.)

Coordinators: John C. Mankins (United States)

C3.1. Power from Space - Prospects for the 21st Century

Chairmen: Leopold Summerer (Netherlands)

Rapporteur: Harvey J. Willenberg (United States), Susumu Sasaki (Japan)

IAC-05-C3.1.01

Peter Glaser Lecture: Research Activities on the Space Power in Japan

Dr. Nobuyuki Kaya, Kobe University, Kobe, Japan

IAC-05-C3.1.02

Overview of Activities for Space Solar Power Systems in USEF

Mr. Shoichiro Mihara, Institute for Unmanned Space Experiment Free Flyer (USEF), Tokyo, Japan

IAC-05-C3.1.03

Summary of Studies on Space Solar Power Systems of Japan Aerospace Exploration Agency (JAXA)

Ms. Yuka Saito, Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi Ibaraki-ken, Japan

Mr. Masahiro Mori, JAXA, Tsukuba-shi, Japan, Mr. Hideshi Kagawa, JAXA, Ibaraki, Japan

IAC-05-C3.1.04

Novel Space-Based Solar Power Technologies and Architectures for Earth and Beyond

Mr. Joe T. Howell, NASA, Huntsville, Alabama, United States

Mr. John Fikes, NASA Marshall Space Flight Center, Huntsville, United States, Mr. Mark O'Neill, ENTECH, Inc., Keller, Texas, United States

IAC-05-C3.1.05

Potential role of space in 21st century energy systems

Dr. Leopold Summerer, ESA/ESTEC, Noordwijk, Netherlands

Dr. Tiziana Pipoli, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C3.1.06

International Peer Review Results of European Work on Solar Power from Space

Dr. Leopold Summerer, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C3.1.07

Energy Crisis and Cosmonautics

Prof. Vitaly Melnikov, Moscow Aviation Institute, Moscow, Russia

Prof. Vladimir Komkov, Moscow Aviation Institute, Moscow, Russia, Prof. Vladimir Senkevich, Russian Academy of Cosmonautics, Korolev, Russia

IAC-05-C3.1.08

Economic Evaluation of Space Solar Power System in Consideration of the Technological Development

Mr. Iwao Matsuoka, Kyoto Univ., Kyoto, Japan

IAC-05-C3.1.09

TASCET-Technology to Activate Space Commercial Electric Themes

Mr. Richard Dickinson, Off Earth-WPT, La Crescenta, CA, United States

D1. Space Systems Symposium (IAF U.)

Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.2. Enabling Technologies for Space Systems

Chairmen: Marco Guglielmi (Netherlands), Qi Zheng Hu (Finland)

Rapporteur: Erick Lansard (France)

IAC-05-D1.2.01**Supporting Innovation in the Space Business: one year of experience with the Innovation Triangle Initiative of ESA**

Mr. Marco Freire, ESA/ESTEC, Noordwijk, Netherlands
Mr. Marco Guglielmi, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D1.2.02**Formations of Drag-Free Satellites**

Dr. Stephan Theil, Center of Applied Space Technology Microgravity, Bremen, Germany

Mr. Martin From, Luleå Technical University, Uppsala, Sweden, Mr. Lorenzo Pettazzi, ZARM - University of Bremen, Bremen, Germany, Mrs. Silvia Scheithauer, ZARM - University of Bremen, Bremen, Germany

IAC-05-D1.2.03**Controller Area Network in Space – background and lesson learn from practical experience**

Dr. Gabriel Leen, University of Limerick, Limerick, Ireland
Dr. Ing. Massimiliano Porciani, Kayser Italia SRL, Livorno, Italy

IAC-05-D1.2.04**Autonomous Assembly of Cellular Satellite by Robot for Sustainable Space System**

Mr. Hideyuki Tanaka, University of Tokyo, Tokyo, Japan
Dr. Kazuo Machida, The University of Tokyo, Tokyo, Japan,
Dr. Takehisa Yairi, The University of Tokyo, Tokyo, Japan,
Mr. Noritaka Yamamoto, University of Tokyo, Tokyo, Japan

IAC-05-D1.2.05**Flight acceptance of the 0.1K Dilution Cooler for PLANCK HFI**

Mr. Louis Sentis, Air Liquide DTA, Sassenage, France
Mr. Jean Delmas, Air Liquide DTA, Sassenage, France, Mr. Philippe Camus, CNRS, Grenoble, France

IAC-05-D1.2.06**Biomimetics at the European Space Agency**

Dr. Mark Ayre, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D1.2.07**A Preliminary Design for a Spherical Inflatable Microrover for Planetary Exploration**

Dr. Fredrik Bruhn, Uppsala University, Uppsala, Sweden
Dr. Henrik Kratz, Uppsala University, Uppsala, Sweden,
Dr. Johan Warell, Uppsala University, Uppsala, Sweden,
Prof. Claes-Ingvar Lagerkvist, Uppsala University, Uppsala, Sweden, Mr. Viktor Kaznov, Rotundus AB, Uppsala, Sweden,

IAC-05-D1.2.08**Inflatable Re-entry Demonstrator Technology (IRDT-2R) - Results of the Demonstration Flight and Future Prospects**

Mr. Thomas Walloschek, EADS Space Transportation, Bremen, Germany

Dr. Peter Kyr, EADS Space Transportation, Bremen, Germany, Dr. Stephan Walther, EADS Space Transportation, Bremen, Germany, Mr. Detlef Wilde, EADS Space Transportation, Bremen, Germany, Dr. Lionel Marraffa, ESA/ESTEC, Noordwijk, Netherlands,

IAC-05-D1.2.09**Overview of SERVIS Project toward Application of Commercial Technology for Space**

Mr. Kazumori Hama, Institute for Unmanned Space Experiment Free Flyer (USEF), Tokyo, Japan

Mr. Hiroshi Kanai, -, Chiyoda-ku, Japan, Dr. Masatsugu Akiyama, Institute for Unmanned Space Experiment Free Flyer (USEF), Tokyo, Japan, Mr. Norio Natsuka, New Energy and Industrial Technology Development Organization (NEDO), Kawasaki, Japan

D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.3. Upper Stages, Space Transfer and Reentry Systems

Chairmen: Shoichiro Asada (Japan), Douglas O. Stanley (United States)

Rapporteur: Robert C. Parkinson (United Kingdom)

IAC-05-D2.3.01**De-orbiting of ARIANE 5 Upper Composite within ATV Jules Verne Mission**

Mr. Markus Jaeger, EADS Space Transportation, Bremen, Germany

Mr. Thierry Ruaud, EADS ST, Les Mureaux, France, Mr. Helmut Zewen, -, , Germany

IAC-05-D2.3.02**Improvement of Rockot Launch Vehicle Performance by an Upgraded Upper Stage Breeze**

Dr. Tuncer Miski, EUROCKOT, Bremen, Germany
Dr. Tuncer Miski, EUROCKOT, Bremen, Germany

IAC-05-D2.3.03**Feasibility of Additional HTV Operation Requirement for Sample Returning Capability from the ISS**

Mr. Takane Imada, JAXA, Tsukuba, Ibaraki-ken, Japan
Mr. Hiroshi Sasaki, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan, Mr. Koji Yamanaka, JAXA, Tsukuba, Ibaraki-ken, Japan

IAC-05-D2.3.04**Transonic Dynamic Instability of Blunt-nosed Recovery Vehicle validated by Actual Reentry Flight**

Dr. Koju Hiraki, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan

Mr. Seiji Matsuda, IHI Aerospace Co, Ltd., Tomioka, Gumma, Japan, Mr. Koichi Ijichi, Institute for Unmanned Space Experiment Free Flyer (USEF), Chiyoda-ku, Japan, Dr. Takashi Abe, JAXA, Kanagawa, Japan

IAC-05-D2.3.05

A Lunar Exploration Architecture Design and Decision Environment

Dr. Douglas Stanley, Georgia Institute of Technology, Hampton, VA, United States

Mr. Dean Bucher, Georgia Institute of Technology, Hampton, VA, United States, Mr. David Reeves, Georgia Institute of Technology, Hampton, VA, United States, Dr. Alan Wilhite, Georgia Institute of Technology, Hampton, United States

IAC-05-D2.3.06

An Innovative Earth-Moon Transportation System

Mr. Walter Kistler, Lunar Transportation Systems, Bellevue, United States

IAC-05-D2.3.07

Concept Study on Deep Space Orbit Transfer Vehicle

Dr. Yasuhiro Kawakatsu, JAXA/ISAS, Sagami, Japan

IAC-05-D2.3.08

Geolunar Shuttle as Upper Stage for Heavy Earth Launchers

Mr. Robert Salkeld, -, Santa Fe, United States

IAC-05-D2.3.09

Entry of a Solar Kite into a Planetary Atmosphere

Mr. Andreas Thellmann, University of the Federal Armed Forces Munich, Springe / Hanover, Germany

Prof. Christian Mundt, University of the Federal Armed Forces Munich, Neubiberg / Munich, Germany, Dr. Chris Welch, Kingston University, London, United Kingdom, Mr. Colin Jack, Oxford Mathematical Designs, Oxford, United Kingdom

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October 18 2005, 14:30 - 503

D4. Symposium on The Far Future: Renewed Visions (IAA 3.8.)

Coordinators: George W. Morgenthaler (United States), Hans E.W. Hoffmann (Germany)

D4.2. Space Elevator System and its Environment

Chairmen: Peter A. Swan (United States), Bradley C. Edwards (United States)

Rapporteur: David Raitt (Netherlands)

IAC-05-D4.2.01

WHY - The Motivation for a Space Elevator

Dr. Peter A. Swan, Teaching Science and Technology, Inc., Paradise Valley, AZ, United States

IAC-05-D4.2.02

Private Investment and Space Elevator Development Activities

Dr. Bradley C. Edwards, Carbon Designs, Inc., Bridgeport WV, United States

IAC-05-D4.2.03

The Space Elevator and Planetary Defense

Dr. Bryan E. Laubscher, Los Alamos National Laboratory, Los Alamos, NM, United States

IAC-05-D4.2.04

Critical Technologies for the Development of Future Space Elevator Systems

Mr. David Smitherman, NASA, Huntsville, AL, United States

Mr. Carey Butler, Institute for Scientific Research, Inc., Fairmont, WV, United States

IAC-05-D4.2.05

Releasing Earth Space Elevator Climbers into Geostationary Orbit

Mr. Paul Nelson, -, Darien, United States

IAC-05-D4.2.06

Analytic Model of Large Scale Transverse Dynamics of Proposed Space Elevator

Dr. Steven Patamia, Los Alamos National Laboratory, Los Alamos, NM, United States

Dr. Anders M. Jorgensen, Los Alamos National Laboratory, Los Alamos, NM, United States

IAC-05-D4.2.07

Novel Payload Dynamics on Space Elevator Systems

Prof. Colin R. McInnes, University of Strathclyde, Glasgow, United Kingdom

Mr. Chris Davis, Freelance Software Engineer, Devon, United Kingdom

IAC-05-D4.2.08

The Space Elevator and the Radiation Belts: Shielding Through a Combination of Approaches

Dr. Anders M. Jorgensen, Los Alamos National Laboratory, Los Alamos, NM, United States

Dr. Steven Patamia, Los Alamos National Laboratory, Los Alamos, NM, United States, Mr. Blaise Gassend, Massachusetts Institute of Technology, Cambridge, MA, United States

IAC-05-D4.2.09

The Space Elevator in the Context of a Martian Exploration Effort

Mr. Kilian A. Engel, Technical University of Munich, Garching, Germany

IAC-05-D4.2.10

Debris Hazards Evaluation and Mitigation for the Space Elevator Project

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

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October 18 2005, 14:30 - Palace Room A

D5. Safety and Quality in Space Activities Symposium (IAA.4.9.)

Coordinators: Manola Romero (France)

D5.2. Safety and Quality Challenges for a Planetary Exploration Initiative

Chairmen: Max Grimard (France), Michael A. Greenfield (United States)

Rapporteur: Manola Romero (France)

IAC-05-D5.2.01

Space Safety: A Systems Thinking Approach

Mr. William Glascoe III, Earth Outer Space Organization, Fort Washington, MD, United States

IAC-05-D5.2.02

Human Factors and Success in Space Transportation
Mr. Sebastian Rothammel, ESA Education Office, Bremen, Germany

IAC-05-D5.2.03

Role of Fault Tree Analysis in Risk Management of Launch Vehicle
Ms. K. Santhamma, Vikram Sarabhai Space Center, Trivandrum, India

IAC-05-D5.2.04

Fault Diagnosis for Spacecraft Using Probabilistic Reasoning and Statistical Learning with Dynamic Bayesian Networks
Mr. Yoshinobu Kawahara, The University of Tokyo, Tokyo, Japan
Dr. Kazuo Machida, The University of Tokyo, Tokyo, Japan,
Dr. Takehisa Yairi, The University of Tokyo, Tokyo, Japan

IAC-05-D5.2.05

Modeling of Effects due to Radiation Environment for Missions to Mars and Moon
Dr. Giovanni De Angelis, Old Dominion University, Hampton VA, United States

IAC-05-D5.2.06

A mass optimization technique to mitigate the radiation environmental risk
Prof. Giovanni B. Palmerini, University of Rome La Sapienza, Rome, Italy
Dr. Francesco Pizzirani, Etnoteam s.p.a., Roma, Italy

IAC-05-D5.2.07

Commercial Electronic Components (COTS) and Reliability
Mr. John Jones, IGG Component Technology Ltd., Fareham, United Kingdom
Mr. Duncan Crocker, IGG Component Technology Ltd., Fareham, United Kingdom

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October 18 2005, 14:30 - 413

E2. 35th Student Conference (IAF W.)
Coordinators: Bénédicte Escudier (France), Rachid Amekrane (Germany)

E2.2. Student Conference II

Chairmen: Rachid Amekrane (Germany), Fernando Stancato (Brazil)
Rapporteur: Pierre-Louis Contreras (France)

IAC-05-E2.2.01

In-Orbit Robotic Manipulation of a Geostationary Satellite by using a Multibody Approach
Mrs. Chiara Togliola, University La Sapienza, Roma, Italy

IAC-05-E2.2.02

Control and Multi-Objective Optimization of a Constellation of Space craft Flying in Elliptical Orbits
Ms. Olga Trivailo, Monash University, Mount Waverley, Victoria, Australia

IAC-05-E2.2.03

Aerothermodynamic Analysis on Low-Ballistic-Coefficient Aerocapture Vehicle with Membrane Decelerator
Ms. Kumiko Nakamura, University of Tokyo, Tokyo, Japan
Dr. Kojiro Suzuki, University of Tokyo, Tokyo, Japan

IAC-05-E2.2.04

The Downrange Capability with the Influence of Reentry Initial Conditions of Reusable Launch Vehicle during the Primary Entry Phase
Ms. Hongbo Li, Beijing University of Aeronautics and Astronautics, Beijing, China
Prof. Yelun Xiao, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-E2.2.05

A Comprehensive Investigation of an Air versus Ground-Launch of LEO-Bound Small Satellites
Mr. Michael Labib, Carleton University, Ottawa, Canada
Dr. Tarik Kaya, Carleton University, Ottawa, Canada

IAC-05-E2.2.06

Evaluation of Material Substitution in Knitted Spring Tubes for Advanced Structural Seals
Mr. Shaun C. Taylor, Case Western Reserve University, Cleveland Heights, OH, United States

IAC-05-E2.2.07

Development and Characterisation of Sol-Gel derived Diffusion Barrier Coatings on CMC Combustion Chambers
Mr. Matthias Grundwürmer, -, München, Germany

IAC-05-E2.2.08

A Theoretical Approach of Thrust Oscillations in Solid Rocket Motors
Mr. François Chedevergne, Onera, Toulouse, France
Mr. Grégoire Casalis, Onera, Toulouse, France

IAC-05-E2.2.09

Surface Attachment Devices for Asteroid Deflection Missions
Ms. Felicity Holland, Kingston University, Hull, United Kingdom

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E4. History of Astronautics Symposium (IAA 6.15.)
Coordinators: Christophe Rothmund (France), Yasunori Matogawa (Japan), George James (United States)

E4.1. Memoirs

Chairmen: Hervé Moulin (France), Frederick I. Ordway (United States)
Rapporteur: Susan McKenna-Lawlor (Ireland), Théo Pirard (Belgium)

IAC-05-E4.1.01

The Influence of Jules Verne on the Public and Space Community
Mr. Jacques Villain, Snecma, Paris, France

IAC-05-E4.1.02

Goddard's 85 Years Optimal Ascent Problem yet Unsolved

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

IAC-05-E4.1.03

EUGEN SÄNGER – Meritorious Space Pioneer

Mr. Aleksander Kerstein, CM-Celje, Celje, Slovenia
Prof. Drago Matko, University of Ljubljana, Ljubljana, Slovenia

IAC-05-E4.1.04

Fred L. Whipple, A Pioneer in the Space Program

Dr. Charles Lundquist, University of Alabama in Huntsville, Huntsville, United States

IAC-05-E4.1.05

The Famous Son of Ukrainian People V.I. Voznuk who has Provided Launch of all Ballistic Missiles of the Cosmodrome Kapustin Yar

Prof. Vladimir Prisniakov, Academy of Science of Ukraine, Dnipropetrovsk, Ukraine

IAC-05-E4.1.06

Civil Space Debates during the Presidential Campaign in 1960 - Richard M. Nixon Vs John F. Kennedy

Mr. Nicolas Turcat, Paris IV La Sorbonne University, Athis-Mons, France, Metropolitan

IAC-05-E4.1.07

Corporate image and Finnish Astronautical Society (SATS ry)

Ms. Päivi Jukola, Finnish Astronautical Society (SATS ry), Helsinki, Finland

IAC-05-E4.1.08

The International Cooperation in Space: Is it a necessity to soar the space activities?

Mr. Hervé Moulin, Institut Français d'Histoire de l'Espace, Paris, France

IAC-05-E4.1.09

Dr. Lavo Cermelj - Humanist and Early Slovenian Popularizer of Space Research and Exploration

Mr. Milos Krmelj, -, Ljubljana, Slovenia

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October 18 2005, 14:30 - Heian

E6. 48th Colloquium on Law of Outer Space (IISL)

Coordinators: Tanja Masson-Zwaan (Netherlands)

E6.2. Legal Aspects of Expanding Human Presence Beyond Low Earth Orbit

Chairmen: Elisabeth Back Impallomeni (Italy), Shin-ichi Ago (Japan)

Rapporteur: Setsuko Aoki (Japan)

IAC-05-E6.2.01

The Sky Is The Limit - But Where Does It End?

Dr. Frans G. Von der Dunk, International Institute of Air and Space Law, Leiden, Netherlands

IAC-05-E6.2.02

Article II of the Outer Space Treaty and Human Presence on Celestial Bodies: Prohibition of State Sovereignty, Exclusive Property Rights, or Both?

Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-E6.2.03

Between concord and rivalry – requirements for and political feasibility of modifications of planetary operations legal regime

Mr. Jakub Ryzenko, Polish Space Office Institute of International Relations, Warsaw University, Warszawa, Poland

Ms. Anna Burzykowska, International Institute of Air and Space Law, Leiden University, The Netherlands, Lowicz, Poland

IAC-05-E6.2.04

Applying UNCLOS Principles to Outer Space: Guidance from the High Seas Regime

Mr. Barry Glaspell, Borden Ladner Gervais LLP, Toronto, Ontario, Canada

IAC-05-E6.2.05

Application of the Precautionary Principle to Lunar Activities

Mr. Paul B. Larsen, Georgetown University Law Center, Washington, D.C., United States

IAC-05-E6.2.06

Second-Tier Agreements in the International Space Station (ISS) Program: Their Legal Basis, Critical Benefits, and Precedent for the Future

Ms. Donna Bartoe, NASA Johnson Space Center, Houston, Texas, United States

IAC-05-E6.2.07

Space Colonies and Terrestrial Regulation - An Ill-Assorted Couple?

Ms. Lotta Viikari, Arctic Centre, University of Lapland, Rovaniemi, Finland

IAC-05-E6.2.08

Human colonisation/exploration beyond low-orbit space: safety imperatives at conflict with the provisions of the Outer Space Treaty and other such instruments

Mr. Kallun Willock, University of Sydney/University of Tokyo, Tasmania, Australia

IAC-05-E6.2.09

Nuclear Power Sources and Future Space Exploration

Mr. Steven Mirmina, NASA Headquarters, Washington, DC, United States

IAC-05-E6.2.10

Expanding Human Presence beyond the Solar System through Active SETI: On the Prerequisites for Legal Relations with Extraterrestrial Intelligence

Dr. Douglas A. Vakoch, The SETI Institute, Mountain View, CA, United States

IAC-05-E6.2.11

Crimes in Outer Space. Criminal Law Policy Basis for Long-Term Human Presence beyond Low Earth Orbit.

Dr. Julian Hermida, Dalhousie University, Halifax, Nova Scotia, Canada

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A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.2. Going to Mars: Development of Medical Operational Systems to Ensure Human Health

Chairmen: Anatoly I. Grigoriev (Russia), Jeffrey R. Davis (United States)

Rapporteur: Peter Graef (Germany)

IAC-05-A1.2.01

Human Health Strategies for Missions to Mars

Dr. Jeffrey R. Davis, NASA-Johnson Space Center/USRA, Houston, Texas, United States

IAC-05-A1.2.02

Prospective Areas for Development of Biomedical Technologies for a Piloted Martian Mission

Dr. Anatoly I. Grigoriev, State Research Center – Institute for Biomedical Problems of Russian Academy of Sciences, Moscow, Russia

Mrs. Inessa B. Kozlovskaya, Institute for Biomedical Problems, Moscow, Russia, Dr. Anatoly N. Potapov, State Research Center – Institute for Biomedical Problems of Russian Academy of Sciences, Moscow, Russia

IAC-05-A1.2.03

A Study of how much Gravitational Load People are experiencing on Earth; A Questionnaire Taken Among Japanese Young Adult Females

Prof. Kazuyoshi Yajima, Nihon University School of Medicine, Sano City, Japan

IAC-05-A1.2.04

Gravity... Hurts?

Ms. Isabel Toro, Escuela Técnica Superior de Ingenieros Aeronáuticos - Polytechnical University of Madrid, Madrid, Spain

IAC-05-A1.2.05

Cell Biology: an Essential in Exploration

Mrs. Regina North, USRA/NASA Johnson Space Center, Houston, United States

Dr. Neal R. Pellis, -, Houston, United States

IAC-05-A1.2.06 (WITHDRAWN)

Effect of artificial gravity with exercise load by a short-arm centrifuge with bicycle ergometer as a countermeasure against disused osteoporosis

Dr. Tomoki Shiozawa, Nihon University School of Medicine, Tokyo, Japan

Dr. Satoshi Iwase, -, Nagoya, Japan, Prof. Kazuyoshi Yajima, Nihon University School of Medicine, Sano City, Japan

IAC-05-A1.2.07

Biomedical problems of EVA support during space manned flight to Mars

Mr. Vladimir P. Katuntsev, Institute of Biomedical Problems, Moscow, Russia

Dr. Sergey Filipenkov, Institute of Biomedical Problems, Moscow, Russia, Dr. Yuri Osipov, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.2.08

Parameters determining neurovestibular adaptation to short-radius artificial gravity.

Dr. Thomas Jarchow, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States

Mr. Laurence R. Young, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States

IAC-05-A1.2.09

Space-borne Facilities for Detecting the Biodestructors and for Preventing the Biodamaging Processes Using Physical Methods in Relation to the Manned Martian Expedition

Mr. Valerii V. Borisov, NTT Network Innovation Laboratories, Korolev, Moscow Region, Russia

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October 19 2005, 08:30 - Suehiro

A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.4. Results from Ground Based Research

Chairmen: Valentina Shevtsova (Belgium), Antonio Viviani (Italy)

Rapporteur: Hisao Azuma (Japan)

IAC-05-A2.4.01

The attenuation of oscillatory thermocapillary convection in the oxide melt by an axial magnetic field

Prof. Jin Wei Qing, Chinese Academy of Sciences, Shanghai, China

Dr. Hong Yong, Chinese Academy of Sciences, Shanghai, China

IAC-05-A2.4.02

Thermocapillary convection in a binary liquid layer overlying a porous layer in the presence of Soret effect

Dr. M. Chacha, UAE University, Faculty of Engineering, Al Ain, United Arab Emirates

Mrs. Rita Kozak, Ryerson University, Toronto, Canada, Dr. M. Ziad Saghir, Ryerson University, Toronto, ON, Canada

IAC-05-A2.4.03

Oscillatory Instabilities of two-layer Rayleigh-Marangoni-Bénard Convection

Dr. Qiu-Sheng Liu, Chinese Academy of Sciences, Beijing, China

IAC-05-A2.4.04

Numerical Study of Small Accelerations Influence on Composition Uniformity of a Growing Crystal

Dr. Alexander Senchenkov, Russian Space Agency - KBOM, Moscow, Russia

IAC-05-A2.4.05

Stability of the oscillatory flow in liquid non-cylindrical liquid bridge

Dr. Valentina Shevtsova, Université Libre de Bruxelles, Brussels, Belgium

Prof. Jean Claude Legros, University of Brussels, Brussels, Belgium, Dr. Alexander Myaldun, University of Brussels, Brussels, Belgium

IAC-05-A2.4.06

Oscillatory Marangoni Convection around Bubbles and Drops in Heterogeneous Solutions of Surfactants

Prof. Antonio Viviani, Seconda Università di Napoli, Aversa, Italy

IAC-05-A2.4.07

Marangoni Convection in Spherical Shells

Mr. Pravin Subramanian, Rutgers University, Piscataway, New Jersey, United States

Mr. Abdelfattah Zebib, Rutgers University, Piscataway, NJ, United States

IAC-05-A2.4.08

Combined Surface Tension and Buoyancy Driven Convection around a Bubble on a Heated Surface

PhD Stefano Fico, Department of Space Science and Engineering "L.G. Napolitano" University of Naples "Federico II", Napoli, Italy

Mr. Raffaele Savino, University of Naples "Federico II", 80125 Napoli, Italy, Ph.D. Fabrizio Nota, Department of Space Science and Engineering "L.G. Napolitano" University of Naples "Federico II", Naples, Italy

IAC-05-A2.4.09

Instability in Displacement of Viscous Fluids from Helt-Shaw Cell

Mr. Nickolay N. Smirnov, Moscow Lomonosov State University, Moscow, Russia

Dr. Oleg Ivashnyov, Moscow Lomonosov State University, Moscow, Russia, Prof. Jean Claude Legros, University of Brussels, Brussels, Belgium, Dr. Valeriy Nikitin, Moscow Lomonosov State University, Moscow, Russia, M.Sc. Mohammad Shakhmardan, Moscow Lomonosov State University, Moscow, Russia

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A5. Integrated approaches to the Exploration and Utilization of the Moon and Mars (IAA.3.7.)

Coordinators: George W. Morgenthaler (United States), Christian Sallaberger (Canada)

A5.2. Human and Robotic Partnerships to Realize Space Exploration Goals

Chairmen: Christian Sallaberger (Canada), Michael Reichert (Germany)

Rapporteur: Benton C. Clark (United States)

IAC-05-A5.2.01

Robotic and Human-tended Collaborative Drilling Automation for Subsurface Exploration

Dr. Brian Glass, NASA Ames Research Center, Moffett Field, CA, United States

Mr. Howard Cannon, NASA Ames Research Center, Moffett Field, CA, United States, Dr. Carol Stoker, NASA Ames Research Center, Moffett Field, CA, United States, Mr. Kiel Davis, Honeybee Robotics, New York, NY, United States

IAC-05-A5.2.02

Balancing the Role of Humans and Automation in the Surface Exploration of Mars

Mr. Julien-Alexandre Lamamy, Massachusetts Institute of Technology, Somerville, United States

Mr. Sandro Catanzaro, Massachusetts Institute of Technology (MIT), Cambridge, United States, Dr. Jeffrey Hoffman, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-A5.2.03

RPS Strategies to Enable NASA's Next Decade Robotic Mars Missions

Dr. Tibor S. Balint, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States

IAC-05-A5.2.04

Assessment of Landing System Concepts for the ExoMars Mission

Mr. Regnier Pascal, EADS-Astrium, Toulouse, France

Dr. Charles Koeck, EADS Astrium, Toulouse, France, Mr. Sembely Xavier, EADS-Astrium, Toulouse, France, Mr. Slade Richard, EADS-Astrium, Stevenage, United Kingdom, Mr. Tran Philippe, EADS Space Transportation, Les Mureaux, France

IAC-05-A5.2.05

Proposal on application of Russian technical facilities for International Mars Research Program for 2009-2015

Dr. Georgy Polishchuk, Lavochkin Association, Khimki-2, Moscow region, Russia

Dr. Konstantin Pichkhadze, Lavochkin Association, Khimki-2, Moscow region, Russia, Dr. Victor Vorontsov, Babakin Space Center, Khimki-2, Moscow region, Russia

IAC-05-A5.2.06

TRANSPORTATION SCENARIOS FOR HUMAN LUNAR EXPLORATION

Mr. Philippe Augros, EADS ST, Les Mureaux, France

IAC-05-A5.2.07

The following work shows the possibility of human expedition to Mars in 2009.

Mr. Oleg Aleksandrov, AeroSpace Systems, Moscow, Russia

IAC-05-A5.2.08

Geometrical and physical simulation of Rovers using Webots software

Mr. Nicolas Uebelhart, EiVd - Ecole d'ingénieurs du canton de Vaud, Gland, Switzerland

IAC-05-A5.2.09

Glass prepared with untreated Martian soil as construction material; report on preparation, processing and testing

M.Sc. Bas Lansdorp, Delft University of Technology, Delft, Netherlands

B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.2. Fixed and Broadcast Services

Chairmen: Joe Melvin Straus (United States), Robert D. Briskman (United States)

Rapporteur: Carlo Elia (Netherlands)

IAC-05-B3.2.01
Broadband Services by Satellites

Mr. Manfred Wittig, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B3.2.02
Scalable MultiMedia Systems (SMM)

Mr. Bent Ziegler, OHB-System AG, Bremen, Germany
Mr. Manfred Wittig, ESA/ESTEC, Noordwijk, Netherlands,
Dr. Bernhard Neumeyer, IPcopter GmbH Co. KG, Salem Neufnach, Germany, Mr. Wilhelm Milcz, Tesat-Spacecom GmbH Co.KG, Backnang, Germany, Mr. Martin Kassebom, OHB-System AG, Bremen, Germany

IAC-05-B3.2.03
A Study on 21-GHz Band Direct Broadcast Satellite using Phased Array Antenna -System Concept and Key Technologies to Compensate for Rain Attenuation-

Mr. Kazuo Imai, STRL of Japan Broadcasting Corporation (NHK), Tokyo, Japan

IAC-05-B3.2.04
MTSAT 1-R - A Multifunctional Satellite for Japan - and the Asia-Pacific Region

Mr. Kenneth Faller, Space Systems Loral, Palo Alto CA, United States

IAC-05-B3.2.05
Communications satellites, In-orbit operation of Eurostar 3000 series

Mr. Hugues Guilhem, EADS Astrium, Velizy Villacoublay, France

IAC-05-B3.2.06
MBSAT - Operational Service for Mobile Users

Mr. Yoshitake Yamaguchi, Mobile Broadcasting Corporation, Tokyo, Japan

Mr. Masashi Suenaga, Mobile Broadcasting Corporation, Tokyo, Japan

B4. Space Stations Symposium (IAF T.)

Coordinators: Carlo Mirra (Netherlands), Mag Iskander (Canada)

B4.2. Assembly and Operations

Chairmen: Guenther Brandt (Germany), Todd Fox (United States)

Rapporteur: Ronald Davidson (Canada)

IAC-05-B4.2.01
The Payload Rack Road Show - Testing the Same Payload Rack in Three Different ISS Laboratory Modules

Mr. Brian Rhone, NASA, Houston, TX, United States

Ms. Susan Hutchison, NASA - Kennedy Space Center, Kennedy Space Center, United States, Mr. Horst Koenig, ESA/ESTEC, Noordwijk, Netherlands, Mr. Hideyuki Watanabe, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

IAC-05-B4.2.02
Assembly and Operation of Robotics Components On-Board ISS

Dr. Wolfgang Paetsch, EADS Space Transportation, Bremen, Germany

Mr. Michael Turk, DLR German Aerospace Center, Oberkassel, Germany, Mr. Klaus Landzettel, DLR, Wessling, Germany

IAC-05-B4.2.03
Automated execution of crew procedures and Combination of Flight + Ground Procedures

Mr. Maurizio Martignano, Serco FM B.V., Noordwijk, Netherlands

Mr. Uwe Brauer, EADS Space Transportation, Bremen, Germany, Mr. Paul Kiernan, Skytek Ltd, Dublin, Ireland, Mr. Frank Plassmeier, EADS Space Transportation, Bremen, Germany, Mr. Mikael Wolff, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B4.2.04
Columbus System Validation Test Program

Mr. Karim Mellab, ESA/ESTEC, Noordwijk, Netherlands

Mr. Giuliano Canovai, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B4.2.05
Unified Description of HTV's Mission Operations with Spacecraft Operations Markup Language

Mr. Noriyasu Inaba, JAXA/ISTA, Ibaraki, Japan

Mr. Koji Yamanaka, JAXA, Tsukuba, Ibaraki-ken, Japan, Mr. Satoshi Harauchi, Mitsubishi Electric Corporation, Hyogo, Japan, Dr. Hiroshi Koyama, Mitsubishi Electric Corporation, Kanagawa, Japan

IAC-05-B4.2.06
Concept of Operation of the Special Purpose Dexterous Manipulator

Mr. Mathieu Caron, Canadian Space Agency, Saint-Hubert (Quebec), Canada

Mr. Andrew Keenan, Canadian Space Agency, Saint-Hubert (Quebec), Canada

IAC-05-B4.2.07
Natural and Induced Space Environments Effects on the International Space Station

Mr. Carlos Soares, Boeing Integrated Defense Systems, Houston, TX, United States

Mr. Ronald Mikatariyan, Boeing Integrated Defense Systems, Houston, United States, Dr. William Schmidl, Boeing Integrated Defense Systems, Houston, United States, Courtney Pankop, The Boeing Company, Houston, United States, Dr. John Alred, Boeing Integrated Defense Systems, Houston, United States,

IAC-05-B4.2.08
Columbus-CC - a German Contribution to the European ISS Operations

Mr. Thomas Kuch, DLR German Aerospace Center, 82230 Wessling, Germany

IAC-05-B4.2.09

Health Management Applications for International Space Station

Mr. Richard Alena, NASA Ames Research Center, Moffett Field, United States

Mr. Daniel Duncavage, NASA - Johnson Space Center, Houston, United States

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October 19 2005, 08:30 - 414

B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (United States), Rainer Sandau (Germany)

B5.1. 6th UN/IAA Workshop on Small Satellite Programs at the Service of Developing Countries

Chairmen: Pierre Molette (France), Sergei Chernikov (Austria)

Rapporteur: Petr Lala (Czech Republic)

IAC-05-B5.1.01

Small Satellites at the Service of Developing Countries - A review of past UN/IAA Workshops

Mr. Petr Lala, Czech Space Office, Praha 6, Czech Republic

Mr. Pierre Molette, -, Toulouse, France

IAC-05-B5.1.02

Remote Sensing Micro-satellites in Countries with no Tangible Space Industry

Mr. Ricardo Patricio, Active Space Technologies, Coimbra, Portugal

IAC-05-B5.1.03

A National Pathfinder Satellite for South Africa

Prof. Sias Mostert, Stellenbosch University, Stellenbosch, South Africa

Mr. Mothibi Ramusi, CSIR, Pretoria, South Africa, Dr. Bethuel Sehlapelo, South African Government, Pretoria, South Africa

IAC-05-B5.1.04

DMC: a network of economical space assets serving Member's national needs, generating commercial returns, and responding to international Disasters.

Mr. Paul Stephens, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom

Mr. David Hodgson, DMC International Imaging Ltd., Guildford, Surrey, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom

IAC-05-B5.1.05

The STSAT-2 Program to Demonstrate Space Science and Technologies

Dr. Byoungsoo Kim, Korea Institute of ST Evaluation and Planning, Namyangju, Kyunggi-Do, Korea

Dr. Eun-Sup Sim, Korea Aerospace Research Institute, Daejeon, Korea, Mr. George W. Morgenthaler, University of Colorado, Boulder, CO, United States

IAC-05-B5.1.06

New Small Satellite Projects for the Brazilian Space Program

Dr. Otavio S.C. Durao, The Brazilian Institute for Space Research, Sao José dos Campos, Brazil

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B6. Space Debris Symposium (IAA 5.12.)

Coordinators: Nicholas L. Johnson (United States), Walter Flury (Germany)

B6.1. Measurements and Space Surveillance

Chairmen: Nicholas L. Johnson (United States), Syuzo Isobe (Japan)

Rapporteur: Fernand Alby (France)

IAC-05-B6.1.01

Observation of Space Debris by the Kamisaibara Radar System

Ms. Chikako Hirose, Japan Aerospace Exploration Agency, JAXA, Tsukuba, Japan

Mr. Sadao Aoki, Japan Space Forum, Tokyo, Japan, Mr. Michiaki Horii, Japan Aerospace Exploration Agency, JAXA, Tsukuba, Japan, Dr. Syuzo Isobe, Japan Spaceguard Association, Tokyo, Japan, Mr. Shigehiro Mori, Japan Aerospace Exploration Agency, JAXA, Tsukuba, Japan,

IAC-05-B6.1.02

A Statistical Size Estimation Model for Haystack and HAX Radar Detections

Dr. Yu-lin Xu, Jacobs Sverdrup, Houston, Texas, United States

Dr. Mark J. Matney, NASA, Houston, Texas, United States, Mr. Eugene Stansbery, NASA, Houston, Texas, United States, Dr. Chris Stokely, Barrios Technology, Inc., Houston, Texas, United States

IAC-05-B6.1.03

Space-based radar system for geostationary debris detection and tracking at MEO

Ms. Marta Marti-Marqués, Technical University of Valencia, Paterna (Valencia), Spain

IAC-05-B6.1.04

Optical Observation Facilities for Space Debris and Moving Objects

Dr. Atsushi Nakajima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan

Dr. Toshifumi Yanagisawa, Japan Aerospace Exploration Agency, Chofu, Tokyo, Japan, Mr. Hirohisa Kurosaki, Japan Aerospace Exploration Agency, Tokyo, Japan

IAC-05-B6.1.05

Orbital parameters for objects observed by the Michigan Orbital Debris Survey Telescope (MODEST)

Dr. Kira Abercromby, ESCG/Jacobs Sverdrup, Houston, Texas, United States

Dr. Ed Barker, NASA Johnson Space Center, Houston, Texas, United States, Ms. Kandy Jarvis, ESCG/Hamilton Sundstrand, Houston, Texas, United States, Dr. Mark J. Matney, NASA, Houston, Texas, United States, Dr. Patrick Seitzer, University of Michigan, Ann Arbor, Michigan, United States,

IAC-05-B6.1.06

Systematic Survey Observations of Space Debris during these 5 Years

Dr. Syuzo Isobe, Japan Spaceguard Association, Tokyo, Japan

IAC-05-B6.1.07

Estimating the Number of Debris in the Geostationary Ring

Mr. Rudiger Jehn, ESA/ESOC, Darmstadt, Germany

IAC-05-B6.1.08

An instrument design for space-based optical observations of space debris

Mr. Frank Wokke, National Aerospace Laboratory (NLR), Marknesse, Netherlands

Mr. Tim Flohrer, Astronomical Institute University of Bern (AIUB), Bern, Switzerland, Mr. Arjan Kramer, National Aerospace Laboratory (NLR), Marknesse, Netherlands, Dr. Juhani Peltonen, Aboa Space Research Oy, Turku, Finland, Dr. Thomas Schildknecht, Astronomical Institute University of Bern (AIUB), Bern, Switzerland,

IAC-05-B6.1.09

Observation of Rotational Motion of LEO Debris by Optical Telescope

Mr. Hirohisa Kurosaki, Japan Aerospace Exploration Agency, Tokyo, Japan

Dr. Toshifumi Yanagisawa, Japan Aerospace Exploration Agency, Chofu, Tokyo, Japan, Dr. Atsushi Nakajima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Mr. Takayuki Kuribayashi, Nippon Institute of Technology, Saitama, Japan

IAC-05-B6.1.10

Meteoroid and space Debris Detector (MDD) flight experiment on the Cosmos upper stage

Dr. Rolf Janovsky, OHB-System AG, Bremen, Germany

Mr. Indulis Kalnins, COSMOS International GmbH, D - 28359 Bremen, Germany, Dr. Frank K. Schaefer, Fraunhofer, Institute for High-Speed Dynamics, Freiburg, Germany, Mr. Guy Spencer, Ernst-Mach Institut, Freiburg, Germany, Mr. Makoto Tanaka, Tokai University, Kanagawa, Japan

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C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.4. Multibody Dynamics

Chairmen: Elbert E.N. Macau (Brazil), Yasuhiro Morita (Japan)

Rapporteur: Arun Misra (Canada)

IAC-05-C1.4.01

Dynamics Of Spinning Multi-Tethered Satellite Formations Containing A Central Body

Mr. Ary Pizarro-Chong, McGill University, Montreal, Canada

Dr. Arun Misra, McGill University, Montreal QC, Canada

IAC-05-C1.4.02

Numerical Simulations on the Stable Tether Deployment prior to the Activation of the Conductive Tether System for the Debris Mitigation

Mr. Shoichi Yoshimura, JAXA/ISTA, Tokyo, Japan

IAC-05-C1.4.03

Experiment of the bare tape tether deployment by using of Small Spacecraft Simulator

Mr. Tatsuaki Kikuchi, Tokyo Metro. Inst. of Tech., Tokyo, Japan

Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Mr. Takeo Watanabe, Tokyo Metro. Inst. of Tech., Hino, Japan, Mr. Tairo KUSAGAYA, Tokyo Metro. Inst. of Tech., Tokyo, Japan

IAC-05-C1.4.04

Fundamental Experiment of Tape Tether Deployment System

Mr. Takeo Watanabe, Tokyo Metro. Inst. of Tech., Hino, Japan

Mr. Tatsuaki Kikuchi, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Mr. Tairo KUSAGAYA, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan

IAC-05-C1.4.05

Flight Result and Analysis of Solar Sail Deployment Experiment Using S-310 Sounding Rocket

Dr. Yuichi Tsuda, Japan Aerospace Exploration Agency, Sagamihara, Kanagawa, Japan

Dr. Osamu Mori, Japan Aerospace Exploration Agency (JAXA), Sagamihara, Kanagawa, Japan, Dr. Shinsuke Takeuchi, Institute of Space and Astronautical Sciences (ISAS), Kanagawa, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-C1.4.06

Impulsive Control for Angular Momentum Management of Tumbling Spacecraft

Mr. Shoji Yoshikawa, Mitsubishi Electric Corporation, Amagasaki, Japan

Dr. Katsuhiko Yamada, Mitsubishi Electric Corporation, Amagasaki, Japan

IAC-05-C1.4.07

Optimal trajectory of robots using symbolic regression

Ms. Zuzana Oplatková, Tomas Bata University in Zlín, Czech Republic, Zlín, Czech Republic

IAC-05-C1.4.08

Dynamic Stress Analysis of Variable Geometry Telescopic Multi-Link Flexible Robotic Systems During Their Reconfiguration

Prof. Pavel Trivailo, RMIT University, Bundoora VIC, Australia

Prof. Ludmilla Plotnikova, RMIT University, Bundoora, Australia, Dr. Trenton Gilbert, Defence Science and Technology Organisation (DSTO), Fishermans Bend, Australia, Dr. Paul Williams, RMIT University, Melbourne, Australia

IAC-05-C1.4.09

Experimental Study on Vibration Suppression Control of Flexible Structures with Flexible Space Robotic Arm Operation

Mr. Kazuya Konoue, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan

Mr. Masashi Asami, Tokyo Institute of Technology, Tokyo, Japan, Prof. Saburo Matunaga, Tokyo Institute of Technology, Tokyo, Japan

IAC-05-C1.4.10

Equilibria of multibody connected system in a circular orbit

Dr. Anna Guerman, University of Beira Interior, Covilha, Portugal

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.3. New Materials and Structural Concepts

*Chairmen: Marc Lacoste (France), Detlef Alwes (Germany)
Rapporteur: Yuriy Moshnenko (Ukraine)*

IAC-05-C2.3.01**Fracture Behavior of Ceramic Materials under Multi-axial Stress**

Mr. Masaharu Miyata, University of Tokai, Sagamihara, Japan

Mr. Masayuki Tsukada, University of Tokyo, Sagamihara, Japan, Prof. Eiichi Sato, ISAS/JAXA, Sagamihara, Japan, Prof. Junichi Matsushita, University of Tokai, Hiratsuka, Japan

IAC-05-C2.3.02**Oxidation Resistance of HfB₂-SiC Coatings for Protection of Carbon Fibers Based Composites**

Dr. Lespade Pierre, EADS Space Transportation, Saint Medard en Jalles, France

IAC-05-C2.3.03**Si/SiC Ceramic Composite for Space Optical Mirror**

Dr. Yumin Zhang, Harbin Institute of Technology, Harbin, China

IAC-05-C2.3.04**Advanced methodologies for the preliminary internal optimisation of Hot Structures**

Mr. Giordano Tomassetti, Università di Roma La Sapienza; Roma, Italy

Prof. Renato Barboni, Università di Roma "La Sapienza", Roma, Italy

IAC-05-C2.3.05**PRORA-USV SHS: Development of Sharp Hot Structures Based on Ultra High Temperature Metal Diborides**

Dr. Luigi Scatteia, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

Dr. Raffaele Borrelli, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy, Dr. Antonio Del Vecchio, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy, Dr. Giuliano Marino, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

IAC-05-C2.3.06 (WITHDRAWN)**Materials and Design Optimization for Thermal Protection System (TPS)**

Mr. Stefano Bietto, University of New Orleans, New Orleans, United States

Prof. David Hui, University of New Orleans, New Orleans, United States, Dr./Professor of Aerospace Mater Leo Daniel, University of New Orleans, New Orleans, United States

IAC-05-C2.3.07**Weight Optimization of Honeycomb Structures**

Dr. Volodymyr Slyvyn'sky, Public Corporation "Ukrainian Research Institute of Engineering Technique", Dnipropetrovsk, Ukraine

Ms. Nonna Slyvynska, Public Corporation "Ukrainian Research Institute of Engineering Technique", Dnipropetrovsk, Ukraine, Dr. Alexander Gajdachuk, N.E. Zhukovsky National Aerospace University Kharkov Aviation Institute, Kharkov, Ukraine, Dr. Vitalij Gajdachuk, N.E. Zhukovsky National Aerospace University Kharkov Aviation Institute, Kharkov, Ukraine

IAC-05-C2.3.08**Cryogenic thermal insulation based on PUF for tanks of expendable and future reusable launch vehicles**

Mr. Nikolai Panichkin, TSNIMASH, Korolev, Moscow Region, Russia

Mr. Yuriy Gusev, TSNIMASH, Korolev, Russia, Dr. Anton Kolozevny, TSNIMASH, Korolev, Russia, Dr. Nickolai Volkov, TSNIMASH, Korolev, Russia

IAC-05-C2.3.09**Fatigue, hardness and oxidation properties of single crystal, Nickel-base superalloys CMSX-4 and PWA1484 in air and vacuum at 650 degrees centigrade.**

Ms. Amira Kawar, University of Southampton, Southampton, United Kingdom

IAC-05-C2.3.10**Strain energy minimization of arcs and plates under uncertain loadings**

Prof. Alfredo de Faria, Instituto Tecnológico de Aeronáutica - ITA - IEM, Sao Jose dos Campos, Brazil

Eng. Leandro Cardozo, Instituto Nacional de Pesquisas Espaciais (INPE), Sao Jose dos Campos, Brazil, Mr. Ijar M. Da Fonseca, INPE, Sao José dos Campos, Brazil

IAC-05-C2.3.11**Structural Sizing of a Lunar Mission Module**

Mr. Glenn A. Hrinda, NASA, Hampton, Virginia, United States

C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.3. Propulsion Technology

Chairmen: Francesca Lillo (Italy), Randy C. Parsley (United States)

Rapporteur: Hongjun Liu (China)

IAC-05-C4.3.01**Development of Ceramic Based 500 N Class Bipropellant Thruster**

Dr. Shujiro Sawai, ISAS/JAXA, Kanagawa, Japan

Prof. Kuminori Uesugi, Japan Aerospace Exploration Agency, CHOFU, Japan, Prof. Eiichi Sato, ISAS/JAXA, Sagamihara, Japan, Mr. Katsumi Furukawa, Mitsubishi Heavy Industries, Ltd., Nagasaki, Japan

IAC-05-C4.3.02**Real-Time Fault Detection and Alarm System for Liquid Propellant Rocket Engines**

Dr. Jianjun Wu, National University of Defense Technology, Changsha, Hunan, China

IAC-05-C4.3.03

Thrust Augmentation Nozzle (TAN) Concept for Rocket Engine Booster Applications

Mr. Scott Forde, Aerojet, Folsom, CA, United States
Mr. Mel Bulman, Aerojet, Folsom, United States, Mr. Todd Neill, Aerojet, Folsom, United States

IAC-05-C4.3.04

Volvo Aero Laser Welded Sandwich Nozzle Industrialisation

Mr. Roland Rydén, Volvo Aero Corporation, Trollhättan, Sweden
Mr. Michael Hallberg, Volvo Aero Corporation, Trollhättan, Sweden, Mr. Thomas Aaboe Jensen, FORCE Technology, Broendby, Denmark, Mr. Niels Krebs, FORCE Technology, Broendby, Denmark

IAC-05-C4.3.05

Complex Flow Analysis Inside Rocket Nozzle using Particle Image Velocimetry

Mr. Adrianus Indrat, Institut Teknologi Bandung, Jakarta Timur, Indonesia
Mr. Martin Budi Utama, Institut Teknologi Bandung, Bandung, Indonesia

IAC-05-C4.3.06

A Technology of Liquid Rocket Engines Operational Process Self-Stabilization by Means of Injector Dynamic Characteristics Tuning

Prof. Vladimir G. Bazarov, Moscow Aviation Institute (State Technical University), Moscow, Russia
Prof. Clark Hawk, University of Alabama in Huntsville, Huntsville, United States

IAC-05-C4.3.07

Numerical Analysis of a Partial Admission Turbine of the Turbopump in Liquid Rocket Engines

Dr. Eun Seok Lee, Korea Aerospace Research Institute, Daejeon, Korea
Dr. Woo Seok Seol, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C4.3.08

Experimental Investigation of High Frequency Combustion Instabilities in Liquid Rocket Engine

Mr. Franck Richecoeur, CNRS, Chatenay Malabry, France
Prof. Sébastien Candel, CNRS, Chatenay Malabry, France, Dr. Sébastien Ducruix, CNRS, Chatenay Malabry, France

IAC-05-C4.3.09

DEIMOS Methane/Oxygen rocket engine test results

Mr. Steven Engelen, Technical University of Delft (TUDelft), Pijnacker, Netherlands
Mr. Louis Souverein, -, Dordrecht, Netherlands, BSc. Daniel Twigt, TU Delft, Delft, Netherlands

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D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.4. Future Space Transportation Systems

Chairmen: Debra Facktor Lepore (United States), Ralf Klaedtke (Germany)

Rapporteur: Terrence Reese (United States)

IAC-05-D2.4.01

A new multidisciplinary approach to RLVs design

Mr. Davide Bonetti, Esa Student Participation Programme, Sesto San Giovanni (MI), Italy
Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy

IAC-05-D2.4.02

Current activities for future reusable space transportation systems at MHI

Mr. Koji Shimura, Mitsubishi Heavy Industries, Ltd., Nagoya, Japan
Mr. Takeshi Mori, Mitsubishi Heavy Industries, Ltd., Nagoya, Japan, Mr. Toshimasa Ochiai, Mitsubishi Heavy Industries, Ltd., Kobe, Japan, Mr. Hiroaki Matsumoto, Mitsubishi Heavy Industries, Ltd., Kobe, Japan, Mr. Kiyoshi Suzuki, Mitsubishi Heavy Industries, Ltd., Kobe, Japan

IAC-05-D2.4.03

Future Launcher Preparatory Programme (FLPP): Europe's programme to prepare its Next Generation Launcher

Mr. Juergen Ackermann, ESA, Paris, France
Mr. Jérôme Breteau, ESA Headquarters, Paris, France, Mr. Jens Kauffmann, ESA Headquarters, Paris, France, Mr. Guy Ramusat, ESA, Paris, France, Mr. Giorgio Tumino, ESA Headquarters, Paris, France

IAC-05-D2.4.04

Comparative assessment of projects of Russian and foreign Air-Based Space Launch Systems

Dr. Alexey Romashkin, TSNIIMASH, Korolev, Russia
Prof. Vladimir Vakhnichenko, TSNIIMASH, Korolev, Russia

IAC-05-D2.4.05

Status of the K-1 Fully Reusable Aerospace Vehicle

Ms. Debra Facktor Lepore, Kistler Aerospace Corporation, Kirkland, WA, United States

IAC-05-D2.4.06 (WITHDRAWN)

Reusable versus Expendable Launch Vehicles

Dr.-Ing. Robert Goehlich, JAXA, Berlin, Germany

IAC-05-D2.4.07

Future European Concepts for low Cost Access to Space

Mr. David Iranzo-Greus, EADS Space Transportation, Les Mureaux cedex, France
Mr. Martin Poncon, EADS Space Transportation, Les Mureaux, France, Mr. Christophe Bonnal, CNES, Evry, France, Mr. Yves Prel, CNES Launcher Directorate, Evry, France, Mr. Olivier Gogdet, EADS Space Transportation, Les Mureaux, France

IAC-05-D2.4.08

A Concept of a Reusable Sounding Rocket

Dr. Hiroyuki Ogawa, Institute of Space and Astronautical Sciences (ISAS), Sagamihara, Kanagawa, Japan
Dr. Yoshihiro Naruo, ISAS/JAXA, Sagamihara, Japan, Dr. Satoshi Nonaka, Institute of Space and Astronautical Sciences (ISAS), Kanagawa, Japan, Prof. Yoshifumi Inatani, JAXA, Kanagawa, Japan

IAC-05-D2.4.09

Comparative Study on Options for High-Speed Intercontinental Passenger Transports: Air-Breathing vs. Rocket-Propelled

Dr. Martin Sippel, Deutsches Zentrum für Luft-und Raumfahrt e.V. (DLR), Cologne, Germany

D3. Symposium on Stepping Stones to the Future: Strategies, Architectures, Concepts and Technologies (IAA 3.6.)*Coordinators: John C. Mankins (United States)***D3.3. "System-of-Systems" Infrastructures to Enable Ambitious Future Exploration and Utilization of Space***Chairmen: Gordon R. Woodcock (United States), William H. Siegfried (United States)**Rapporteur: George W. Morgenthaler (United States)***IAC-05-D3.3.01****Assessing the Flexibility Provided by an On-orbit Infrastructure of Fractionated Spacecrafts***Ms. Charlotte Mathieu, Massachusetts Institute of Technology (MIT), Cambridge, United States**Dr. Annalisa Weigel, Massachusetts Institute of Technology (MIT), Cambridge, United States***IAC-05-D3.3.02****Modular Software Interfaces for Revolutionary Flexibility in Space Operations***Dr. Brian Glass, NASA Ames Research Center, Moffett Field, CA, United States**Dr. Stephen Braham, Simon Fraser University, Vancouver, BC, Canada, Mr. Jay Pollack, Computer Sciences Corporation, Rockville, MD, United States***IAC-05-D3.3.03****Sustainability in System Architectures through Reconfigurability: A Case Study of Planetary Surface Vehicles***Mrs. Afreen Siddiqi, Massachusetts Institute of Technology (MIT), Cambridge, United States**Dr. Olivier de Weck, -, Cambridge, MA, United States, Dr. Jeffrey Hoffman, Massachusetts Institute of Technology (MIT), Cambridge, United States***IAC-05-D3.3.04****Martian GNSS: Preliminary design and performance analysis of a European evolutionary system***Mr. Antonio Fernández, DEIMOS Space S.L., Tres Cantos (Madrid), Spain**Mr. Fabrizio Pirondini, DEIMOS Space S.L., Tres Cantos (Madrid), Spain, Dr. Guy Janin, ESA/ESOC, Darmstadt, Germany***IAC-05-D3.3.05****On-Orbit Assembly Strategies for Human Space Exploration***Ms. Erica Gralla, Massachusetts Institute of Technology, Cambridge, MA, United States**Dr. Olivier de Weck, -, Cambridge, MA, United States***IAC-05-D3.3.06****Mission Capture With A Multi-Role Capsule***Mr. Mark Hempell, University of Bristol, Bristol, United Kingdom***IAC-05-D3.3.07****Commonality Analysis of Technology Choices in Moon and Mars Transportation Architectures***Dr. Rania Hassan, Massachusetts Institute of Technology, Cambridge, MA, United States**Dr. Olivier de Weck, -, Cambridge, MA, United States, Ms. Christine Taylor, -, Cambridge, MA, United States***IAC-05-D3.3.08****The CEV Mission Module to travel to the Moon and beyond***Mr. Philippe Berthe, EADS Space Transportation, Les Mureaux, France**Mr. Rich Freeman, Lockheed Martin Space Systems, Littleton, United States, Mr. Detlef Wilde, EADS Space Transportation, Bremen, Germany***D5. Safety and Quality in Space Activities Symposium (IAA.4.9.)***Coordinators: Manola Romero (France)***D5.1. Space Weather and Environmental Effects on Space Systems***Chairmen: Tateo Goka (Japan), Magdeleine Dinguirard (France)**Rapporteur: Manola Romero (France)***IAC-05-D5.1.01****MHD Simulation of the Shock Wave Event on October 24, 2003***Dr. Tatsuki Ogino, Nagoya University, Toyokawa, Japan***IAC-05-D5.1.02****Radiation Belt Monitoring and Forecast in Japan***Dr. Takahiro Obara, National Information and Communications Technology, Tokyo, Japan**Dr. TATEO GOKA, ISTA/JAXA, Ibaraki, Japan***IAC-05-D5.1.03****Issues associated with standardization of ground test methods of electrostatic discharge phenomena on spacecraft surface***Prof. Mengu Cho, Kyushu Institute of Technology, Kitakyushu, Japan**Dr. TATEO GOKA, ISTA/JAXA, Ibaraki, Japan***IAC-05-D5.1.04****Development status of Multi-utility Spacecraft Charging Analysis Tool (MUSCAT)***Dr. Shinji Hatta, Kyushu Institute of Technology, Kitakyushu, Japan**Dr. Takanobu Muranaka, Kyushu Institute of Technology, Kitakyushu, Japan, Dr. Jeongho Kim, Kyushu Institute of Technology, Kitakyushu, Japan, Dr. Satoshi Hosoda, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan, Prof. Mengu Cho, Kyushu Institute of Technology, Kitakyushu, Japan,***IAC-05-D5.1.05****The Effect of Space Radiation onto on-Board Electronic and Systems***Mrs. Sophie Duzellier, Office National d'Etudes et de Recherches Aéropatiales, Toulouse cedex, France***IAC-05-D5.1.06****Preparatory radiation monitoring activities for the Galileo programme***Dr. Petteri Nieminen, European Space Agency, Noordwijk, Netherlands**Dr. Giovanni Santin, ESA/ESTEC, Noordwijk ZH, Netherlands, Dr. Hugh Evans, ESA/ESTEC, Noordwijk ZH, Netherlands, Dr. Eamonn Daly, ESA/ESTEC, Noordwijk, Netherlands, Dr. Ali Mohammadzadeh, ESA/ESTEC, Noordwijk, Netherlands,*

IAC-05-D5.1.07

Space Weather Mission of SmartSat Program

Dr. Maki Akioka, National Institute of Information and Communications Technology, Ibaraki, Japan

IAC-05-D5.1.08

A Proxy for Space Radiation Effects Studies: Exposure to the Atmospheric Ionizing Radiation Environment for civilian Aviation Flight Personnel

Dr. Giovanni De Angelis, Old Dominion University, Hampton VA, United States

IAC-05-D5.1.09

Investigation of the Space Weather Influence on Technological, Biological and Ecological Systems: Results of Complex Studies Carried out in Azerbaijan

Mr. Elchin S. Babayev, Azerbaijan National Academy of Sciences, Baku, Azerbaijan

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E2. 35th Student Conference (IAF W.)

Coordinators: Bénédicte Escudier (France), Rachid Amekrane (Germany)

E2.3. Student Conference III

Chairmen: Piero Messina (France), Roger T. Moses (United Kingdom)

IAC-05-E2.3.01

Semi-Active Attitude Control and Off-line Attitude Determination for the SSETI-Express Student Microsatellite

Mr. Lars Alminde, Aalborg University, Aalborg, Denmark

IAC-05-E2.3.02

Survival and operations of a micro-lander during the night in the dark side of the moon

Nicola Baggio, Politecnico di Milano, Cittadella (Pd), Italy
Mr. Giovanni Binet, Politecnico di Milano, Milano, Italy, Mr. Fabio Pignata, Politecnico di Milano, Sesto San Giovanni (MI), Italy, Ms. Concetta Clemente, Politecnico di Milano, Lucera (FG), Italy, Mr. Andrea Falzone, Politecnico di Milano, Bisuschio VA, Italy

IAC-05-E2.3.03

Applying Martian Rover Technology to Solve Terrestrial Problems: The Development of an Autonomous Cold-Trailing Omnirange Robot (ACTOR)

Mr. Amor Menezes, University of Waterloo, Brampton, Ontario, Canada

Ms. Rowena Luk, University of Waterloo, Waterloo, Ontario, Canada, Mr. Paul Lam, University of Waterloo, Waterloo, Ontario, Canada, Mr. Ziad Bhunnoo, University of Waterloo, Waterloo, Ontario, Canada

IAC-05-E2.3.04

Orpheus Project: a study proposal for a Mars ISRU plant.

Mr. Gabriele Bellei, Politecnico di Milano, Pavullo Nel Frignano (MO), Italy

Dr. Andrea Davighi, Politecnico di Milano, Milano, Italy, Dr. Elvina Finzi, Politecnico di Milano, 20133 Milano, Italy, Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy, Mr. Stefano Cattaneo, Politecnico di Milano, Milano, Italy,

IAC-05-E2.3.05

Spacecraft Systems Engineering

Mr. Rafal Burek, Warsaw University of Technology, Siedlce, Poland

IAC-05-E2.3.06

Design and Implementation of a Space Environment Simulation Toolbox for Small Satellites

Mr. Rouzbeh Amini, Aalborg University, Aalborg, Denmark
Mr. Jesper Abilgaard Larsen, Aalborg University, Aalborg, Denmark, Dr. Roozbeh Izadi-Zamanabadi, Aalborg University, Aalborg, Denmark, Mr. Dan Danji Virji Bhanderi, Aalborg University, Aalborg, Denmark

IAC-05-E2.3.07

Autonomic Construction: LEO Space Hotel Design Concepts

Mr. Yusuke Murakami, The University of Tokyo, Tokyo, Japan

Mr. Yuki Komure, The University of Tokyo, Tokyo, Japan

IAC-05-E2.3.08

Martian Flight Prototypes

Mr. Asier Ania, Royal Military College of Canada, Toronto, Canada

Dr. Dominique Poirel, Royal Military College of Canada, Kingston, Canada, Dr. Marie-Josée Potvin, Canadian Space Agency, Saint-Hubert, Canada, Mr. Steeve Montminy, Canadian Space Agency, Saint-Hubert, Canada, Mr. Gabriel Desmarais, Canadian Space Agency, Saint-Hubert, Canada

IAC-05-E2.3.09

BEOSAT: A Student Initiative

Mr. Jörn Pflingstgräff, Experimental Raumfahrt-Interessen Gemeinschaft e.V., Braunschweig, Germany

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E5. Space Activity and Society Symposium (IAA.6.16)

Coordinators: Ivan Almar (Hungary), Roger Malina (France)

E5.2. Cultural Dimensions of Space

Chairmen: David Raitt (Netherlands), Fumiaki Tanigaki (Japan)

Rapporteur: Patrick J. Gyger (Switzerland)

IAC-05-E5.2.01

Space Science Outreach Initiatives in Culturally Sensitive Societies

Mr. Imran Majid, Space Generation Advisory Council (SGAC) in support of the United Nations Programme on Space Applications, Karachi, Pakistan

IAC-05-E5.2.02

Environment Design in Space: Lunar Base and the ISS

Ms. Ayako Ono, Tokyo National University of Fine Arts and Music, Taito-ku, Japan

IAC-05-E5.2.03

MIR in Orbit

Ms. Nicola Triscott, The Art Catalyst, Tymbee Studios, London, United Kingdom

Mr. Rob La Frenais, The Arts Catalyst, London, United Kingdom

IAC-05-E5.2.04

Audio Arts via Robotic Lunar Orbiters
Mr. James Burke, -, Sierra Madre, United States

IAC-05-E5.2.05

Architectural Design for Life in Space
Mr. Jun Okushi, Space Projects Group/Okushi Architects, Mito, Japan

IAC-05-E5.2.06

Space Design and Life Style Design by using the Body Supporting System at ISS
Mr. Fukuhara Tetsuro, Tokyo Space Dance, Sagamihara-city, Kanagawa, Japan
Dr. Matsumoto Shinji, CSP Japan Inc., Tokyo, Japan, Dr. Okamoto Osamu, Japan Aerospace Exploration Agency, Tsukuba, Ibaraki, Japan, Dr. Kitao Hiroyo, Joshibi University of Art and Design, Sagamihara-shi, Kanagawa-ken, Japan, Mr. Kawasaki Yukiomi, NEC, Minato-ku, Tokyo, Japan

IAC-05-E5.2.07

'The cradle Earth' - new anthropological fieldwork
Ms. Anna Burzykowska, International Institute of Air and Space Law, Leiden University, The Netherlands, Lowicz, Poland

IAC-05-E5.2.08

Toward an Anthropology of Space: human consciousness and astronautics
Dr. Michael Punt, University of Plymouth, Plymouth, United Kingdom
Ms. Martha Blassnigg, University of Plymouth, Plymouth, United Kingdom

IAC-05-E5.2.09

Space Library
Mr. Tsutomu Yamanaka, JAXA Space Environment Utilization Center, Saitama-Shi, Japan

IAC-05-E5.2.10

Representing Culture in Interstellar Messages
Dr. Douglas A. Vakoch, The SETI Institute, Mountain View, CA, United States

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E6. 48th Colloquium on Law of Outer Space (IISL)
Coordinators: Tanja Masson-Zwaan (Netherlands)

E6.3. Other Legal Matters I, including Legal Aspects of Sub-Orbital Flights
Chairmen: Jonathan F. Galloway (United States), Megumu Nakamura (Japan)
Rapporteur: Martha Mejia-Kaiser (Germany)

IAC-05-E6.3.01

The UN Principles on Remote Sensing today
Prof. Maureen Williams, University of Buenos Aires, Buenos Aires, Argentina

IAC-05-E6.3.02

Global Earth Observation for Compliance of International Environmental Agreements
Ms. Masami Onoda, JAXA, Kyoto, Japan

IAC-05-E6.3.03

Legal Issues Relating to Convergence of Imaging, Positioning and Spatial Databases
Mr. Mukund Rao, ISRO, Bangalore Karnataka, India
Mr. K R Sridhara Murti, Antrix Corporation, Bangalore, India

IAC-05-E6.3.04

Asia Satellite Centre –Its Case Study in Tsunami Disaster
Prof. Yasuaki Hashimoto, National Institute for Defense Studies, Tokyo, Japan

IAC-05-E6.3.05

Regulatory Framework for the Distribution of Remote Sensing Data: Germanys Draft Legislation on Safeguarding Security Interests
Dr. Michael Gerhard, German Aerospace Center (DLR), Bonn-Oberkassel, Germany
Mr. Dr. Bernhard Schmidt-Tedd, DLR German Aerospace Center, Bonn-Oberkassel, Germany

IAC-05-E6.3.06

The Policy for Commercializing CBERS Data
Mr. Alvaro Fabricio Dos Santos, INPE, Sao José dos Campos, Brazil

IAC-05-E6.3.07

The Demise of "Open Skies?": Commercial Remote Sensing in an Age of Terror
Mr. John Heath, -, West Memphis, Arkansas, United States

IAC-05-E6.3.08

The Search for New Institutional Models of International Remote Sensing Activities
Dr. Mahulena Hofmann, Max Planck Institute for Comparative Public Law and International Law, Heidelberg, Germany

IAC-05-E6.3.09

Legal Aspect of implementing World Heritage Convention using Remote Sensing Data
Ms. Atsuyo Ito, University of Paris XI, Paris, France

IAC-05-E6.3.10

Problem of Coordination the Use of National GNSS System
Prof. G. Zhukov, Peoples Friendship University, Moscow, Russia

IAC-05-E6.3.11

Possibilities of Economic Instruments in the Further Development of the Law of Outer Space
Dr. Leila Juanto, University of Lapland, Rovaniemi, Finland
Ms. Lotta Viikari, Arctic Centre, University of Lapland, Rovaniemi, Finland

A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlouskaya (Russia), Ronald J. White (United States)

A1.4. Analog Models for Microgravity

Chairmen: Martina Heer (Germany), Kazuyoshi Yajima (Japan)

Rapporteur: Jancy C. McPhee (United States)

IAC-05-A1.4.01**Usefulness and limitations of head-down tilt method as a ground-based simulation for phenomena occurring in microgravity**

Dr. Masao Yamasaki, Dept. of Physiol., Fukushima Medical University School of Medicine, Fukushima, Japan

Prof., Dr. Akihiro Hazama, Dept. of Physiol., Fukushima Medical University School of Medicine, Fukushima, Japan, Dr. Yahiro Netsu, Obstetrics Gynecology, Suwa Maternity Clinic, Shimo-suwa-machi, Japan, Dr. Fumihiko Yoshikawa, Obstetrics Gynecology, Suwa Maternity Clinic, Shimo-suwa-machi, Japan, Dr. Kaori Kamijo, Obstetrics Gynecology, Suwa Maternity Clinic, Simosuwamachi, Japan,

IAC-05-A1.4.02**Re-adaptation from Simulated Microgravity as a Stimulus for Improved Orthostatic Tolerance**

Dr. Marlene Grenon, National Space and Biomedical Research Institute/McGill University, Montreal, Canada

Dr. Richard J. Cohen, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts, United States, Dr. Shelley Hurwitz, Brigham and Women's Hospital, Boston, MA, United States, Ms. Christine Kim, Brigham and Women's Hospital, Boston, United States, Dr. Gordon H. Williams, Brigham and Women's Hospital, Boston, MA, United States,

IAC-05-A1.4.03**Vestibular system contributes human arterial blood pressure control upon gravitational change**

Ms. Chihiro Awazu, Fukui University, Kusatsu, Japan

Mr. Taro Gotoh, Gifu University, Gifu, Japan, Ms. Tomoko Matsuda, Gifu University, Gifu, Japan, Prof. Hironobu Morita, Gifu University, Gifu, Japan, Dr. Kunihiko Tanaka, Gifu University, Gifu, Japan

IAC-05-A1.4.04**Human Perception of Body Longitudinal Axis in Parabolic Flight**

Mr. Morten Hannevik Olsen, BI School of Management, Færvik, Norway

Ms. Tonje Nanette Arnesen, Norwegian University of Science and Technology, Oslo, Norway, Mr. Bruno Sylvestre, École de technologie supérieure, Montreal, Canada, Dr. Gilles Clement, Centre de Recherche Cerveau et Cognition (UMR 5549, CNRS-UPS), Toulouse Cedex, France

IAC-05-A1.4.05**Effects of mechanical stimuli via vibration plate training on bone metabolism in immobilized healthy subjects**

Dr. Natalie Baecker, DLR German Aerospace Center, Cologne, Germany

Mrs. Anna-Maria Liphardt, DLR German Aerospace Center, Cologne, Germany, Mrs. Petra Frings, DLR German Aerospace Center, Cologne, Germany, Mrs. Andrea Boese, DLR German Aerospace Center, Cologne, Germany, Dr. Martina Heer, DLR, Cologne, Germany

IAC-05-A1.4.06**Countermeasure effects of artificial gravity on weight loading bones of 3w tail suspension rats**

Dr. Xinsheng Cao, Department of Aerospace medicine, Fourth Military Medical University, Xi an, China

Mr. Xingyu Wu, Forth Military Medical University, Xi an, China, Mr. Lianjia yang, Forth Military Medical University, Xi an, China, Mr. Lifan Zhang, Forth Military Medical University, Xi an, China

IAC-05-A1.4.07**Changes of mechanotransduction in MG-63 osteosarcoma cells induced by simulated weightlessness**

Dr. Shu Zhang, The Fourth Military Medical University, Xian, China

Dr. Bin Wang, The Fourth Military Medical University, Xi an, China, Mr. Zhi Yang, The Fourth Military Medical University, Xi an, China

IAC-05-A1.4.08**The change of HSP47, collagen specific molecular chaperone, expression in rat skeletal muscle may regulate collagen production with gravitational conditions**

Ms. Asami Oguro, University of Tokyo, Saitamaken, Japan

Mr. Yoriko Atomi, University of Tokyo, Tokyo, Japan

IAC-05-A1.4.09**Activation of Immediate Early Respose Genes in Mouse Brain Induced by Simulated Microgravity**

Dr. Govindarajan Ramesh, Texas Southern University, Houston, United States

Ms. Kimberly Wise, Texas Southern University, Houston, United States, Ms. Vani Ramesh, The University of Texas Health Science center, Medical School and Graduate School of Biomedical Sciences, Houston, United States, Dr. Keiko Yamauchi, University of Texas Medical School in Houston, Houston, United States, Dr. Bobby Wilson, Texas Southern University, Houston, United States,

IAC-05-A1.4.10**Effects of the simulated microgravity on protein nitration in the PC12 cells**

Mrs. Lina Qu, Institute of Space Medico-Engineering, Beijing, China

A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.5. Facilities and Operations of Microgravity Experiments

Chairmen: Gérard Cambon (France), Rainer Willnecker (Germany)

Rapporteur: Raffaele Savino (Italy)

IAC-05-A2.5.01**Utilization of the European Modular Cultivation System: Opportunities and Support Functions**

Mr. Knut Olav Helleseng, Norwegian University of Science and Technology, Trondheim, Norway

Mr. Arve Gronnevik, Norwegian University of Science and Technology, Trondheim, Norway, Mr. Knut Robert Fossum, Norwegian University of Science and Technology, Trondheim, Norway, Ms. Ann-Iren Kittang, Norwegian University of Science and Technology, Trondheim, Norway, Prof., dr.philos Tor-Henning Iversen, Norwegian University of Science and Technology, Trondheim, Norway

IAC-05-A2.5.02

DECLIC- a facility for Telescience operations

Mr. Gérard Cambon, CNES, Toulouse, France

IAC-05-A2.5.03

Digital Video System for TEMPUS on Parabolic Flights

Dr. Rainer Willnecker, DLR, Köln, Germany

Dr. Stephan Schneider, DLR German Aerospace Center, Cologne, Germany, Mr. Wolfram Sies, DLR, German Aerospace Center, Cologne, Germany, Mr. Wolfram Koerver, SEA, Cologne, Germany, Mr. Frank Muenstermann, SEA, Cologne, Germany

IAC-05-A2.5.04

The Fluids and Combustion Facility: Enabling the Exploration of Space

Dr. Karen Weiland, NASA Glenn Research Center, Cleveland, OH, United States

Mr. Frank Gati, NASA Glenn Research Center, Cleveland, OH, United States, Dr. Myron Hill, NASA Glenn Research Center, Cleveland, OH, United States, Mr. Terence OMalley, NASA Glenn Research Center, Cleveland, OH, United States, Mr. Robert Zurawski, NASA Glenn Research Center, Cleveland, OH, United States

IAC-05-A2.5.05

A New Kind of Space Materials Processing Facility in China

Dr. Liu Yan, Shanghai Institute of Ceramics, Chinese Academy of Science, Shanghai, China

Ms. yanfei zhou, Shanghai Institute of Ceramics, Chinese Academy of Science, Shanghai, China

IAC-05-A2.5.06

MASER 10 Microgravity Rocket Mission and recent microgravity activities of Swedish Space Corporation

Mr. Kenneth Loeth, Swedish Space Corporation, Solna, Sweden

Mr. Bengt Larsson, Swedish Space Corporation, Solna, Sweden, Mr. Gunnar Florin, Swedish Space Corporation, Solna, Sweden

IAC-05-A2.5.07

Micro-gravity Experiments at Micro-Gravity Laboratory of Japan (MGLAB)

Mr. Toshio Iwakami, Micro-Gravity Laboratory of Japan, Toki-city Gifu Pref., Japan

Mr. Masaki Nokura, Micro-Gravity Laboratory of Japan, Toki City Gifu Pref., Japan

IAC-05-A2.5.08

The New Drop Tower Catapult System

Mr. Peter von Kampen, ZARM - University of Bremen, Bremen, Germany

Mr. Ulrich Kaczmarczik, ZARM - University of Bremen, Bremen, Germany, Prof. Hans Rath, ZARM - University of Bremen, Bremen, Germany

IAC-05-A2.5.09

Real Time on-line Space Research Laboratory Environment Monitoring with off-line Trend and Prediction Analysis

Mr. Kenol Jules, NASA, Cleveland, OH, United States

Dr. Paul Lin, Cleveland State University, , United States

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B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.4. Data for Environmental Applications and Global Change Studies

Chairmen: Bhaskar Choudhury (United States), Carlo Ulivieri (Italy)

Rapporteur: Bruce K. Quirk (United States)

IAC-05-B1.4.01

A National Urban Information System - EO and GIS Concept

Mr. Mukund Rao, ISRO, Bangalore Karnataka, India

Dr. Rajeev Jaiswal, ISRO Headquarters, Bangalore, India, Dr. Vaddiparti Raghavswamy, National Remote Sensing Agency, Hyderabad, A.P, India, Dr. SK Pathan, ISRO, Bangalore, India, Mr. J Premnath Singh, ISRO, Bangalore, India,

IAC-05-B1.4.02

FORMOSAT-2 Satellite Images for Daily Monitoring

Dr. An-Ming Wu, National Space Program Office, Hsin-chu, Taiwan

Mr. Yung Liu, National Space Program Office, Hsinchu, Taiwan, Dr. Lance Wu, National Space Program Office, Hsinchu, Taiwan, Dr. Frank Wu, National Space Program Office, Hsinchu, Taiwan, Dr. Ching-Jyh Shieh, National Science Council, Taipei, Taiwan

IAC-05-B1.4.03

Short-term temperature anomalies on and above the black sea surface and Norman-Dobbson's principle

Mr. Angel Manev, Bulgarian Academy of Sciences, Stara Zagora, Bulgaria

Prof. Petar Gethov, Bulgarian Academy of Sciences, Sofia, Bulgaria, Prof. Jivko Jekov, Space Research institute, Sofia, Bulgaria, Prof. Garo Mardirossian, Bulgarian Academy of Sciences, Sofia, Bulgaria, Dr. Kunyu Palazov, Bulgarian Academy of Sciences (BAS), Stara Zagora (Sofia), Bulgaria,

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B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.5. Earth Observation Business Development and Economic Benefits

Chairmen: Paul Kamoun (France), Luigi Bussolino (Italy)

Rapporteur: Fu Danying (China)

IAC-05-B1.5.01

Earth Observation for Solid Waste Landfill Management

Mr. Giuseppe Ottavianelli, University of Cranfield, Cranfield, United Kingdom

IAC-05-B1.5.02

Remote Sensing for Renewable Energy: A Logical Step for Japanese Space Development & Utilization

Mr. Avery Sen, National Oceanic Atmospheric Administration, Silver Spring, MD, United States

IAC-05-B1.5.03

Multiple Use of Earth Observation, Meteorological and Navigation Space Means for the Purposes of On-Line Monitoring of Natural Resources and Economically Important and/or Hazardous Objects

Prof. Valery Menshikov, Space Systems Research Institute - Branch of Khrunichev Space Center, Jubileiny, Moscow Region, Russia

IAC-05-B1.5.04

Earth Observation Satellites and Demands from Civil Security

Mr. Gunter Schreier, DLR, Oberpfaffenhofen, Germany

IAC-05-B1.5.05

Use of Space Observation For the Benefit of Russian Industry

Mr. N. Sevastyanov, JSC GASCOM, Koroliov, Moscow region, Russia

Mr. V. Vekhoturov, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. V. Shutov, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. V. Pantchenko, JSC GASCOM, Koroliov, Moscow region, Russia, Mr. N. Khrenov, JSC GASCOM, Koroliov, Moscow region, Russia

IAC-05-B1.5.06

Real-Time Mosaic Business Plan

Mr. Sean Hodges-Jackson, University of Surrey, Guildford, Surrey, United Kingdom

IAC-05-B1.5.07

Commercial Exploitation of TERRASAR-X

Dr. B. Babu Madhavan, PASCO Corporation, Tokyo, Japan

Mr. Jorg Herrmann, Infoterra GmbH, Friedrichshafen, Germany, Mr. Nicolaus Faller, Infoterra GmbH, Friedrichshafen, Germany, Mr. Andreas Kern, Infoterra GmbH, Friedrichshafen, Germany, Dr. Tadashi Sasagawa, PASCO Corporation, Tokyo, Japan,

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B4. Space Stations Symposium (IAF T.)

Coordinators: Carlo Mirra (Netherlands), Mag Iskander (Canada)

B4.3. International Utilization of Space Stations

Chairmen: Geneviève Gargir (France), John-David F. Bartoe (United States)

Rapporteur: Thomas J. Sutliff (United States)

IAC-05-B4.3.01

Fundamental and Applied Research Program on the Russian Segment of ISS: Status, Plans and Perspectives for International Cooperation

Mr. Vadim Suvorov, TSNIMASH, Korolyov, Russia

Mr. Nikolai A. Anfimov, TSNIMASH, Moscow Region, Russia, Mr. Andrey Golovinkin, TSNIMASH, Korolyov, Russia, Mr. V.I. Lukjashchenko, TSNIMASH, Korolyov, Russia, Ms. Tatiana Vasilieva, TSNIMASH, Korolyov, Russia

IAC-05-B4.3.02

Five Years of NASA Research on ISS – A Continuing Saga

Mr. John Uri, NASA Johnson Space Center, Houston, United States

IAC-05-B4.3.03

Japanese-Russian Cooperation on International Space Station Now and in the Future

Dr. Igor Sorokin, S.P. Korolev Rocket and Space Corporation Energia, Korolyov, Moscow Region, Russia

Mr. Mitsuyasu Kato, Japan Aerospace Exploration Agency (JAXA), Japan, Mr. Tai Nakamura, JAXA, Ibaraki, Japan, Ms. Chie Saito, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

IAC-05-B4.3.04

Reduced Gravity Environment Onboard the International Space Station for Increments 9 to 11

Mr. Kenol Jules, NASA, Cleveland, OH, United States

Mr. Kenneth Hrovat, ZIN Technologies, Inc., Cleveland, OH, United States, Mr. Eric Kelly, ZIN Technologies, Inc., Cleveland, OH, United States

IAC-05-B4.3.05

Planning of Experiments Aboard the Progress Cargo Vehicles

Ms. Tatiana Matveeva, Rocket Space Corporation ENER-GIA, Korolev, Moscow Region, Russia

IAC-05-B4.3.06

External Contamination Environment of International Space Station Externally Mounted Payloads

Mr. Carlos Soares, Boeing Integrated Defense Systems, Houston, TX, United States

Mr. Ronald Mikatari, Boeing Integrated Defense Systems, Houston, United States, Dr. William Schmidl, Boeing Integrated Defense Systems, Houston, United States, Courtney Pankop, The Boeing Company, Houston, United States, Mr. Kendall Smith, Boeing Integrated Defense Systems, Houston, United States,

IAC-05-B4.3.07

Two Units of the minus Eighty Freezer MELFI ready for flight towards the ISS

Dr. Jean Cheganças, EADS-Astrium, Toulouse, France

Mrs. Lina de Parolis, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B4.3.08

Thermal performance verification for the JEM MAXI Loop Heat Pipe Radiator System

Dr. Hiroki Nagai, Tohoku University, Sendai, Japan

Dr. Shiro Ueno, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

IAC-05-B4.3.09

Complex Plasma Research on ISS - Past, Present and Future Facilities

Mr. Roland Seurig, Kayser-Threde GmbH, Munich, Germany

Prof. Gregor Morfill, Max-Planck-Institut for Extraterrestrial Physic, Garching, Germany, Prof. Vladimir Fortov, Institute for High Energy Densities, Russian Academy of Sciences, Moscow, Russia, Dr. Peter Hofmann, Kayser-Threde GmbH, D-81379 München, Germany

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B6. Space Debris Symposium (IAA 5.12.)

Coordinators: Nicholas L. Johnson (United States), Walter Flury (Germany)

B6.2. Risk Analysis and Modelling

*Chairmen: Toshiya Hanada (Japan), Carmen Pardini (Italy)
Rapporteur: Masahide Katayama (Japan)*

IAC-05-B6.2.01

A Minimalist Empirical Orbital Debris/Meteoroid Hazard Model for the Space Shuttle

Dr. Mark J. Matney, NASA, Houston, Texas, United States

IAC-05-B6.2.02

A Statistical Analysis on the Future Debris Environment

Dr. J.-C. Liou, ESCG/ERC, Houston, United States

IAC-05-B6.2.03

Modelling of Debris Impacts and Resulting Particle Releases in ESA MASTER

Mr. Sebastian Stabroth, Technische Universität Braunschweig, Braunschweig, Germany

Dr. Heiner Klinkrad, ESA/ESOC, Darmstadt, Germany, Mr. Michael Oswald, Institute of Aerospace Systems, D-38108 Braunschweig, Germany, Prof. Peter Vörsmann, Technische Universität Braunschweig, Braunschweig, Germany, Dr. Peter Wegener, Wegener Aerospace Consult, Braunschweig, Germany,

IAC-05-B6.2.04

Characterizing Fragments from Impact on A Micro Satellite

Mr. Kyohei Nakashima, Kyushu University, Fukuoka, Japan

Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan, Dr. Yasuhiro Akahoshi, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Takayuki Harano, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Yu Machida, Kyushu Institute of Technology, Kitakyushu, Japan,

IAC-05-B6.2.05

Long Term Collision Risk Effects on Low Earth Targets

Dr. A.K. Anilkumar, Vikram Sarabhai Space Center, Trivandrum, India

IAC-05-B6.2.06

Collision Probability of a Target Body Close to a Breakup during the Short Term Evolution of the Debris Cloud

Prof. M.R. Ananthasayanam, Indian Institute of Science, Bangalore, India

IAC-05-B6.2.07

Orbital Anomaly Analysis of Haiyang-1 Satellite

Dr. Jing Liu, Chinese Academy of Sciences, Beijing, China

IAC-05-B6.2.08

Influences of Space Debris Impact on Solar Array under Power Generation

Mr. Shinya Fukushige, Kyushu Institute of Technology, Kitakyushu, Japan

Mr. Yasuhiro Akahoshi, Kyushu Institute of Technology, Kitakyushu, Japan, Prof. Mengu Cho, Kyushu Institute of Technology, Kitakyushu, Japan, Prof. Shoji Harada, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Takayuki Harano, Kyushu Institute of Technology, Kitakyushu, Japan,

IAC-05-B6.2.09

The Impact of High-Rate Interaction of Microparticles with SC on Onboard Electronic Equipment Resistance

Mr. Bunchuk Yriy, Yuzhnoye State Design Office, Dniepropetrovsk, Ukraine

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October 19 2005, 14:30 - 409

C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.5. Optimization

Chairmen: Mauricio Guelman (Israel), Kathleen Howell (United States)

Rapporteur: David C. Folta (United States)

IAC-05-C1.5.01

Optimal Collision Avoidance in Aerospace

Dr. Angelo Miele, Rice University, Houston, TX, United States

Dr. Tong Wang, Rice University, Houston, Texas, United States

IAC-05-C1.5.02

Realtime Optimization Constrained Reentry Trajectory based on Reentry Corridor

Dr. Mingguang Wang, Northwestern Polytechnical University, Xian, China

IAC-05-C1.5.03

A Study on Information Propagation Structure and Formation Maintenance Control

Dr. Takanao Saiki, ISAS/JAXA, Kanagawa, Japan

Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagami, Japan

IAC-05-C1.5.04

Quasi-Linear Optimization for Multiple-Spacecraft Clustering

Dr. Hiroaki Umehara, National Institute of Information and Communications Technology, Ibaraki, Japan

Prof. Colin R. McInnes, University of Strathclyde, Glasgow, United Kingdom

IAC-05-C1.5.05

Trajectory Optimization in Hevelius - Lunar Microsatellite Mission

Ms. Camilla Colombo, Politecnico di Milano, Castellanza (VA), Italy

Mr. Matteo Ceriotti, Politecnico di Milano, Dairago (MI), Italy, Mr. Ettore Scari, Politecnico di Milano, Sondrio, Italy, Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy

IAC-05-C1.5.06

Optimal low-thrust trajectories for the impulsive deflection of Near Earth Objects

Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands

Ms. Cristina de Negueruela, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C1.5.07

Interplanetary Trajectory Optimisation Using Ant Colony Algorithms

Dr. Gianmarco Radice, University of Glasgow, Glasgow, United Kingdom

Mr. German Olmo, University of Glasgow, Glasgow, United Kingdom

IAC-05-C1.5.08

The Optimal Trajectories to the Asteroids with Using Low Thrust and Gravity Assist Maneuver

Dr. Alexander Chernov, Keldysh Institute of Applied Mathematics, RAS, Moscow, Russia

IAC-05-C1.5.09

Minimum Fuel Three-Dimensional Trajectories for an Asteroid Explorer

Dr. Seiya Ueno, Yokohama National University, Yokohama, Japan

Mr. Hironori Asaoka, Yokohama National University, Yokohama, Japan

IAC-05-C1.5.10

Optimal Titan Return Solution by the Singular Deviators Method

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

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October 19 2005, 14:30 - 414

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.4. Smart Materials and Adaptable Structures

Chairmen: Jun-jiro Onoda (Japan), Michael J. Eiden (Netherlands)

Rapporteur: Paolo Gaudenzi (Italy)

IAC-05-C2.4.01

Variable curvature concepts for smart thermal protection systems (Smart TPS)

Luca Lampani, Università di Roma "La Sapienza", Roma, Italy

Karl Keller, HPS GmbH, Braunschweig, Germany, Dr.-Ing. Ernst K. Pfeiffer, HPS GmbH Braunschweig, Germany, Braunschweig, Germany, Heiko Ritter, ESA/ESTEC, Noordwijk, Netherlands, Prof. Paolo Gaudenzi, University of Rome La Sapienza, Rome, Italy

IAC-05-C2.4.02

Active Payload Adapter for Ariane 5

Dr. Andreas Rittweger, EADS Space Transportation, Bremen, Germany

Mr. Hans-Georg Beig, EADS Space Transportation, Bremen, Germany, Dr.-Ing. Peter Konstanzer, EADS Deutschland GmbH, Corporate Research Center Germany, München, Germany, Mr. Rafael Bureo Dacal, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C2.4.03

Actuation Precision Control of SMA Actuators Used for Shape Control of Inflatable SAR Antenna

Dr. Fuyun Peng, Canadian Space Agency, St-Hubert, Quebec., Canada

Dr. Yan-Ru Hu, Canadian Space Agency, Saint-Hubert, Canada, Dr. Alfred Ng, Canadian Space Agency, St-Hubert, Canada

IAC-05-C2.4.04

Structural Health Monitoring for Large Smart Structures via Optimal Control Design

Dr. Paul Williams, RMIT University, Melbourne, Australia
Prof. Pavel Trivailo, RMIT University, Bundoora VIC, Australia

IAC-05-C2.4.05

A Concept of Self-Identification of Adaptive Structures with Variable Geometric Properties

Mr. Atsuhiko Senba, Tokyo Institute of Technology, Yokohama, Japan

Dr. Hiroshi Furuya, Tokyo Institute of Technology, Yokohama, Japan

IAC-05-C2.4.06

New Actuator Using Shape Memory Polymer for Space Use

Mr. Junichiro Ishizawa, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Ibaraki, Japan

New Actuator Using Shape Memory Hiroyuki Shimamura, JAXA, Tsukuba, Ibaraki, Japan, New Actuator Using Shape Memory Minami Shintaro, JAXA/ISTA, Tsukuba, Ibaraki, Japan, Dr. Kichiro Imagawa, JAXA, Tsukuba-shi, Japan

IAC-05-C2.4.07

Improvement of Smart Radiation Device

Mr. Akira Okamoto, NEC Toshiba Space Systems, Ltd., Yokohama, Japan

Mr. Yasuyuki Nakamura, NEC Toshiba Space Systems, Ltd., Yokohama, Japan, Dr. Akira Ohnishi, ISAS/JAXA, Sagamihara, Japan, Mr. Sumitaka Tachikawa, ISAS/JAXA, Sagamihara, Japan, Dr. Kazunori Shimazaki, JAXA/ISTA, Tsukuba, Japan,

IAC-05-C2.4.08

Control of vibration of the International Space Station with piezoelectric actuators

Ms. Fabiana di Scioscio, University La Sapienza, Rome, Italy

IAC-05-C2.4.09

Design and Implementation of a Shape Memory Alloy Actuated Separation Mechanism for Microsatellites

Mr. Masafumi Iai, Tokyo Institute of Technology, Tokyo, Japan

Mr. Ken Fujiwara, Tokyo Institute of Technology, Tokyo, Japan, Mr. Katsutoshi Imai, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan, Mr. Shinji Masumoto, Tokyo Institute of Technology, Tokyo, Japan, Prof. Saburo Matunaga, Tokyo Institute of Technology, Tokyo, Japan,

IAC-05-C2.4.10

Structural Health Monitoring for Composite Pressure Vessels Using Fiber Optic Sensors

Dr. Tadahito Mizutani, The University of Tokyo, Chiba, Japan

IAC-05-C2.4.11

Detection of Rib Fractures in Advanced Grid Structure by Monitoring of Static Strain Distributions

Mr. Masataro Amano, University of Tokyo, Tokyo, Japan

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C3. Space Power Symposium (IAF R.)

Coordinators: John C. Mankins (United States)

C3.2. Advanced Space Power Systems and Technologies

Chairmen: Gérard Gave (France), Henry W. Brandhorst (United States)

Rapporteur: Alex Ignatiev (United States), Lucien Deschamps (France)

IAC-05-C3.2.01

Stretched Lens Array Squarerigger (SLASR): a Unique High-Power Solar Array for Exploration Missions

Mr. Mark O'Neill, ENTECH, Inc., Keller, Texas, United States

IAC-05-C3.2.02

Solar cell development for Mars exploration missions
Nicola Baggio, Politecnico di Milano, Cittadella (Pd), Italy

IAC-05-C3.2.03

Development of amorphous silicon film solar arrays formed by centrifugal forces
Prof. Melnikov Vitaly, Measuring Equipment Research and Production Association, Moscow, Russia

IAC-05-C3.2.04

Development of high voltage solar array for large space platforms
Dr. Satoshi Hosoda, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan
Mr. Teppei Okumura, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan, Dr. Jeongho Kim, Kyushu Institute of Technology, Kitakyushu, Japan, Prof. Mengu Cho, Kyushu Institute of Technology, Kitakyushu, Japan, Dr. Kazuhiro Toyoda, Chiba University, Chiba, Japan

IAC-05-C3.2.05

Feasibility Study on the Thermal Management System for Space Solar Power System
Dr. Haruhiko Ohta, Kyushu University, Fukuoka, Japan
Ms. Makiko Ando, Kyushu University, Fukuoka, Japan

IAC-05-C3.2.06

Fuels cells: a power system option for the outer Solar System?
Dr. Andreas Rathke, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C3.2.07

Thin Film High Power Density Solid Oxide Fuel Cell for Space Use
Dr. Alex Ignatiev, University of Houston, Houston, TX, United States
Dr. Naijuan Wu, University of Houston, Houston, TX, United States, Dr. Xin Chen, University of Houston, Houston, TX, United States, Ms. Laverene Smith, University of Houston, Houston, TX, United States

IAC-05-C3.2.08

Request and Roadmap for Microwave Power Transmission System of Space Solar Power System (SSPS)
Dr. Naoki Shinohara, Kyoto Univ., Kyoto, Japan
Mr. Yasumasa Hisada, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan, Mr. Masahiro Mori, JAXA, Tsukuba-shi, Japan, JAXA SSPS WG4 Team, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan

IAC-05-C3.2.09

Wireless Power Transmission Technology Applications
Mr. Frank Steinsiek, EADS Space Transportation, Bremen, Germany

IAC-05-C3.2.10

Laser Beam Control Mechanisms
Mr. Christian Schaefer, Kobe University, Kobe, Japan

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C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.4. Electric Propulsion

Chairmen: Vladimir Prisniakov (Ukraine), Giorgio Saccoccia (Netherlands)
Rapporteur: Garri Popov (Russia)

IAC-05-C4.4.01

Performance characterization of a 1N laboratory resistojet (DUR-1)
Mr. Karel Rycek, -, Gent, Belgium
Prof. Barry Zandbergen, Delft University of Technology, Delft, Netherlands

IAC-05-C4.4.02

A Miniaturized Ion Thruster and Neutralizer With Microwave Discharge
Mr. Tanisho Masahiko, Kyushu University, Fukuoka, Japan
Mr. Hiroshi Kataharada, Kyushu University, Fukuoka, Japan, Dr. Hideki Nakashima, Kyushu University, Kasuga City, Japan, Dr. Naoji Yamamoto, Kyushu University, Fukuoka, Japan

IAC-05-C4.4.03

Application of Stationary Plasma Thrusters for the Multispacecraft Constellation Maintenance
Dr. Vladimir Obukhov, RIAME MAI, Moscow, Russia

IAC-05-C4.4.04

Studies of a Helicon Double Layer Plasma Thruster for High Power Electric Propulsion Missions
Dr. Roger Walker, ESA/ESTEC, Noordwijk, Netherlands
Dr. Pascal Chabert, Ecole Polytechnique, Palaiseau, France, Mr. Nicolas Plihon, Ecole Polytechnique, Palaiseau, France

IAC-05-C4.4.05

Helicon Plasma Source Using a Flat-Spiral Antenna for Electric Propulsion
Prof. Takao Tanikawa, Tokai University, Kanagawa, Japan
Prof. Shunjiro Shinohara, Kyushu University, Fukuoka, Japan

IAC-05-C4.4.06

Ablative PPT. New Quality, New Perspectives
Prof. Garri Popov, RIAME MAI, Moscow, Russia

IAC-05-C4.4.07

An Experimental Study on Carbon Nanotube Cathodes for Electrodynamic Tether Propulsion
Dr. Yasushi Okawa, Japan Aerospace Exploration Agency (ISTA/JAXA), Chofu, Tokyo, Japan
Dr. Shoji Kitamura, Japan Aerospace Exploration Agency, JAXA, Chofu, Japan, Ms. Satomi Kawamoto, JAXA/ISTA, Tokyo, Japan, Mr. Yasushi Iseki, Toshiba Corporation, Fuchu, Tokyo, Japan, Dr. Kiyoshi Hashimoto, Toshiba Corporation, Yokohama, Japan,

IAC-05-C4.4.08

Nanoelectrospray as a Digital Thrust Control method for colloid thrusters
Dr. Mark Paine, Queen Mary Westfield College, London, United Kingdom

IAC-05-C4.4.09

The Discharge Performance Study of Hollow Cathode in Electric Thruster

Mr. Ma Zhanhua, Shanghai Institute of Space Propulsion, Shanghai, China

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D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.5. Future Space Transportation Systems Technologies

Chairmen: Yoshifumi Inatani (Japan), Anselmo Russo (Italy)

Rapporteur: Norbert Puettmann (Germany)

IAC-05-D2.5.01

Next Generation Launcher: CNES approach and associated Demonstration Logic

Mr. Christophe Bonnal, CNES, Evry, France

Mr. Sylvain Guedron, CNES, Evry, France, Mr. Jean-Marc Astorg, CNES, Evry, France

IAC-05-D2.5.02

Numerical Analysis of Reverse Jet Effect on the aerodynamic characteristics of SSTO configuration with an Aerospike Nozzle in Landing Phase

Ms. Harumi Tsukada, Yokohama National University, Kanagawa, Japan

Mr. Keiichiro Fujimoto, University of Tokyo, Kanagawa, Japan, Dr. Koji Miyaji, Yokohama National University, Kanagawa, Japan, Prof. Kozo Fujii, JAXA/ISAS, Kanagawa, Japan

IAC-05-D2.5.03

Improvement of Aerodynamic Performances for Reusable Launch Vehicles Using the Lateral Blowing

Mr. Kenji Tadakuma, Kyushu University, Fukuoka, Japan

Prof. Shigeru Aso, Kyushu University, Fukuoka, Japan, Dr. Yasuhiro Tani, Kyushu University, Fukuoka, Japan,

Mr. Kentaro Hayashi, Mistubishi Space Software Co. Ltd., Ibaraki, Japan

IAC-05-D2.5.04

Investigation of Cryogenic Solid Propulsion Application for Large Solid Rocket Boosters

Mr. Norbert Pilz, AI: Aerospace Institute, Berlin, Germany

Mr. Harry Adirim, AI: Aerospace Institute, Berlin, Germany

IAC-05-D2.5.05

Development of Cryogenic Composite Tank Lined with Polymer Film

Prof. Eiichi Sato, ISAS/JAXA, Sagamihara, Japan

Mr. Yoji Arakawa, Fuji Heavy Industries Ltd., Utsunomiya, Japan, Dr. Ken Higuchi, ISAS/JAXA, Sagamihara, Kanagawa, Japan, Prof. Yoshifumi Inatani, JAXA, Kanagawa, Japan, Mr. Seiichi Matsuoka, Fuji Heavy Industries Ltd., Utsunomiya, Japan,

Utsunomiya, Japan,

IAC-05-D2.5.06

Development of X-43A Mach 10 Leading Edges

Mr. David E. Glass, NASA, Hampton, VA, United States

IAC-05-D2.5.07

Final Report of HSF Phase II Transport Flight Data Evaluation by CFD Simulations

Dr. Yukimitsu Yamamoto, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan

IAC-05-D2.5.08

Advanced Development Projects for Constellation from the Next Generation Launch Technology Program Elements

Mr. Lawrence Huebner, NASA, Marshall Space Flight Center, AL, United States

IAC-05-D2.5.09

Analysis of shockwave interactions for a Generic Space Plane Configuration at hypersonic speeds and estimation of heat flux generation on the structure

Mr. Antonio Purpuri, University of Bristol, Cardiff, United Kingdom

Mr. Kyriacos Frank, University of Bristol, Bristol, United Kingdom

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D4. Symposium on The Far Future: Renewed Visions (IAA 3.8.)

Coordinators: George W. Morgenthaler (United States), Hans E.W. Hoffmann (Germany)

D4.1. Bases and Space Colonization

Chairmen: Wendell Mendell (United States), Gordon R. Woodcock (United States)

Rapporteur: Claudio Maccone (Italy)

IAC-05-D4.1.01

Advanced Space Concepts for the Far Future - Considerations for Selection Strategies

Dr. Alexander M. Jablonski, Canadian Space Agency, Saint-Hubert, Canada

IAC-05-D4.1.02

Industrial Developing of the Moon

Mrs. Elena Radchuk, Gascom, Korolev, Russia

IAC-05-D4.1.03

Concepts for 1st generation hybrid and inflatable habitats with in-situ resource utilisation for the Moon, Mars and Phobos: Results of the Habitat Design Workshop.

Mr. Douglas K. R. Robinson, MoonMarsWorking Group / University of Twente, Amsterdam, Netherlands

Ms. Manuela Aguzzi, Politecnico di Milano, Milano, Italy, Ms. Sandra Haeuplik, UT Vienna, Vienna, Austria, Mr. Erik Laan, Dutch Space, Leiden, Netherlands, Mr. Michael Glenn Sterenberg, MoonMarsWorking Group, Rotterdam, Netherlands

Mr. Michael Glenn Sterenberg, MoonMarsWorking Group, Rotterdam, Netherlands

IAC-05-D4.1.04

Space Colonization Using a Hub/Spoke Approach

Mr. Pablo Caffyn, ETSIA - Universidad Politécnic de Madrid, Madrid, Spain

IAC-05-D4.1.05

Proposing Two Space Bases at L1 and L3 (Earth-Moon) for Planetary Defense

Dr. Claudio Maccone, Member of the International Academy of Astronautics, Torino (Turin), Italy

IAC-05-D4.1.06

Studies in the Future of Experimental Terraforming Techniques

Mr. Damian Rogers, International Space University (ISU), Burlington, Canada

Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands, Mr. Tobias Bittner, International Space University (ISU), Ottobrunn, Germany

IAC-05-D4.1.07

Construction and the Proposal of a Space Urban Disaster Prevention System

Mr. Masakazu Kawai, Laboratory of Space Disaster Prevention System, Tokyo, Japan

Prof. Suminao Murakami, Waseda University, Tokyo, Japan

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E1. Space Education and Outreach Symposium (IAF P.)

Coordinators: Pierre-Louis Contreras (France)

E1.2. Structures for Space Education

Chairmen: Chris Welch (United Kingdom), Dennis A. Stone (United States)

Rapporteur: Bénédicte Escudier (France)

IAC-05-E1.2.01

Encouraging Scientific Careers Using Space

Ms. Helen Wilson, ESA, Noordwijk, Netherlands

IAC-05-E1.2.02

A step-by-step methodology to develop teaching materials for science and technology education in secondary schools

Ms. Caroline Pujol, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-E1.2.03

E-learning: a key tool for educational cooperation with universities

Mr. Jose Sanchez Troncoso, ESA, Noordwijk, Netherlands

Mr. Gueric Pont, ESA/ESTEC, Leiden, Netherlands

IAC-05-E1.2.04

10 years of Student Parabolic Flight Campaigns (SPFC): Return on Investment of the Project with Tangible and Intangible Results

Ms. Elisabeth Celton, ESA/ESTEC, Noordwijk, Netherlands

Mr. Philippe Willekens, ESA, Paris, France

IAC-05-E1.2.05

The International Space University: Past, Present and Future

Mr. Ian W. Pryke, George Mason University, Falls Church, Virginia, USA, United States

Mrs. Margaret G. Finarelli, International Space University, Arlington, VA, United States

IAC-05-E1.2.06

Aerospace Student Coaching to Develop & Realise Potential: Taking a Different Approach

Mr. Filippo De Rose, VEGA Group, Darmstadt, Germany

Mr. George Inoue, Actimi Ltd., London, United Kingdom,

Mr. Jason Maroothernaden, Actimi Ltd., London, United Kingdom

IAC-05-E1.2.07

Roles of Taiwan's Universities on Earth Observation

Dr. Jeng-Shing Chern, National Space Program Office, Hsin-Chu, Taiwan

IAC-05-E1.2.08

TU-Berlin to Space – A student initiative to improve space related education in Berlin

Ms. Simone Arloth, Technische Universität Berlin Sekr. F6, Pasewalk, Germany

Mr. Tom Segert, Technische Universität Berlin, Berlin, Germany

IAC-05-E1.2.09

Astronomy and Space Sciences Education in Portugal

Mr. Pedro Russo, Navegar Foundation, Espinho, Portugal

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E4. History of Astronautics Symposium (IAA 6.15.)

Coordinators: Christophe Rothmund (France), Yasunori Matogawa (Japan), George James (United States)

E4.4. History of Japanese Contributions to Astronautics

Chairmen: Otfried G. Liepack (United States)

Rapporteur: Roger D. Launius (United States), Randy Liebermann (United States)

IAC-05-E4.4.01

Lessons from Half a Century Experience of Japanese Rocketry since Pencil Rocket

Prof. Yasunori Matogawa, JAXA, Kanagawa, Japan

IAC-05-E4.4.02

Preliminary Study of Pedigree and Origin of Japanese Traditional Farmers Rocket

Mr. Akira Kubozono, Ex-NASDA, Matsudo City, Japan

IAC-05-E4.4.03

Military Rockets in 1930's and 1940's in Japan

Mr. Toshio Masutani, Japanese Rocket Society, Nagoya, Japan

Mr. Hisao Saijou, Japan Association of Rocketry, Saitama, Japan

IAC-05-E4.4.04

History of Scientific Satellites in Japan

Dr. Ichiro Nakatani, ISAS/JAXA, Sagami, Japan

IAC-05-E4.4.05

History of Liquid Propellant Rockets in Japan

Mr. Yoji Shibato, JAXA, Tsukuba-shi, Ibaraki, Japan

IAC-05-E4.4.06

History of Tanegashima Space Center
Mr. Eiji Sogame, CosmoTec, Tokyo, Japan

IAC-05-E4.4.07

The Evolution of Japanese Space Policy: Autonomy and International Cooperation
Mr. Hirotaka Watanabe, Osaka University, Kurashiki-shi, Okayama, Japan

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E5. Space Activity and Society Symposium (IAA.6.16)
Coordinators: Ivan Almar (Hungary), Roger Malina (France)

E5.3. Making the Arts an Integral Part of Space Programs
Chairmen: Richard Clar (France), Hiroyuki Iwamoto (Japan)
Rapporteur: Naoko Hamada (Japan)

IAC-05-E5.3.01

The NASA Program: Reaching Art to the Stars
Mr. Ulrich Bert, NASA Headquarters, Washington DC, United States

IAC-05-E5.3.02

Cultural Utilization Promotion for ISS in Japan
Ms. Naoko Hamada, Japan Aerospace Exploration Agency, Ibaraki-ken, Japan

IAC-05-E5.3.03

ESA and the Arts: A Program in the Making
Dr. David Raitt, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-E5.3.04

Arts in Space: French Experiences and Elements of Prospective
Dr. Jacques Arnould, CNES, Paris, France

IAC-05-E5.3.05

Cultural Utilisation of the International Space Station – A Study
Ms. Nicola Triscott, The Art Catalyst, Tynbee Studios, London, United Kingdom
Mr. Rob La Frenais, The Arts Catalyst, London, United Kingdom, Dr. David Raitt, ESA/ESTEC, Noordwijk, Netherlands, Mr. Alexander Van Dijk, Delta-Utec SRC, Leiden, Netherlands

IAC-05-E5.3.06

The Arts and Space Culture: The Common Ground of Creativity
Mr. Lowry Burgess, Carnegie Mellon University, Pittsburgh, United States

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E6. 48th Colloquium on Law of Outer Space (IISL)
Coordinators: Tanja Masson-Zwaan (Netherlands)

E6.4. Other Legal Matters II, including legal aspects of Property Rights on the Moon
Chairmen: Patricia Sterns (United States), Masahiko Sato (Japan)
Rapporteur: Yasuaki Hashimoto (Japan)

IAC-05-E6.4.01

The Impact of Space Tourism on the International Law of Outer Space
Mr. Steven Freeland, University of Western Sydney, Sydney NSW, Australia

IAC-05-E6.4.02

Lessons from "The Little Prince" on Space Flight
Dr. Sylvia Ospina, S. Ospina Associates - Consultants, Coral Gables, FL, United States

IAC-05-E6.4.03

Developing a Legal Regime for Space Tourism: Pioneering a Legal Framework for Space Commercialization
Mr. Yun Zhao, City University of Hong Kong, Kowloon, Hong Kong, Hong Kong

IAC-05-E6.4.04

Space Passenger Liability
Mr. Stefan Kaiser, North Atlantic Treaty Organisation, Heinsberg, Germany
Dr. Martha Mejia-Kaiser, Independent Researchers, Heinsberg, Germany

IAC-05-E6.4.05

Liability Arising from Article VI and Other Provisions of the Outer Space Treaty: States, Domestic Law and Private Operators
Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-E6.4.06

Consumer Protection and the Limitation of Liability in the National Regulation of the Space Tourism Industry – Lessons from EU Law
Ms. Zeldine O'Brien, Esa Student Participation Programme, County Dublin, Ireland

IAC-05-E6.4.07

Private Enterprise and the Resources of Outer Space
Mr. Leslie Tennen, Law Offices of Sterns and Tennen, Phoenix, AZ, United States
Mrs. Patricia Sterns, Law Offices of Sterns and Tennen, Phoenix, AZ, United States

IAC-05-E6.4.08

Corporations and Space Law
Mr. José Monserrat-Filho, Brazilian Association of Air and Space Law, Rio de Janeiro RJ, Brazil

IAC-05-E6.4.09

Space Commercialisation: Addressing Intellectual Property Issues

Ms. Sagee Geetha Sasikumar, NALSAR University of Law, Hyderabad, Andhra Pradesh, India

IAC-05-E6.4.10

Regulation of Space Activities in Canada

Prof. Ram S. Jakhu, McGill University, Montreal, Quebec, Canada

IAC-05-E6.4.11

Space and the European Constitution

Mr. Thomas Reuter, University of Cologne, Cologne, Germany

IAC-05-E6.4.12

Current and Future Relationship of ESA and EU – Findings of the Session at the Final Symposium of "Project 2001 Plus" (Cologne, 8th to 10th June, 2005)

Ms. Julia Neumann, University of Cologne, Cologne, Germany

IAC-05-E6.4.13

Is a "fair return" admissible on space activities funded by the EC/EU?

Mrs. Katharina Kunzmann, University of Cologne, Cologne, Germany

IAC-05-E6.4.14

Commercial Space Activities and Investment Protection in Argentina

Dr. Luis Castillo Arganaras, National Council of Scientific and Technical Research (CONICET) of Argentina, Buenos Aires, Argentina

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A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.1. Gravity: Effects on Human Physiology

Chairmen: Inessa B. Kozlovskaya (Russia), Victor S. Schneider (United States)

Rapporteur: Guenter Ruyters (Germany)

IAC-05-A1.1.01

Long-Term Weightlessness Influence on Cosmonaut Metabolic and Immune Status

Dr. Boris Morukov, Institute of Biomedical Problems, Moscow, Russia

IAC-05-A1.1.02

New approaches to countermeasures of the negative effects of microgravity in long-term space flights

Academician Inessa Kozlovskaya, Institute for Biomedical Problems, Moscow, Russia

Dr. Eugenia Yarmanova, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.1.03

Mobility Control Alteration under Weightlessness and Its Effects upon the Graphical Skills of Astronauts

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

Dr. Iulia Busuioceanu, Politechnic University of Bucharest, Bucharest, Romania

IAC-05-A1.1.04

Study of the development of the effective device for maintaining the skeletal muscle in the space

Prof. Naoto Shiba, Kurume University Hospital, Kurume city, Fukuoka, Japan

post graduate student Hiroo Matsuse, Kurume University, Kurume city, Fukuoka, Japan, post graduate student Takeshi Nago, Kurume University, Kurume city, Fukuoka, Japan, Prof. Yoshihiko Tagawa, Kyushu Institute of Technology, Kitakyushu City, Fukuoka, Japan

IAC-05-A1.1.05

Short term spaceflights influence autonomic cardiovascular control

Dr. Frank Beckers, Laboratory of Experimental Cardiology, Leuven, Belgium

Prof. André Aubert, -, Leuven, Belgium, Mr. Bart Verheyden, K.U. Leuven, Leuven, Belgium

IAC-05-A1.1.06

Autonomic function testing on board the ISS – update on "Pneumocard"

Dr. Jens Tank, Franz Volhard Clinical Research Center, Charité, Berlin-Buch, Berlin, Germany

Dr. Irina I. Funtova, State Research Center – Institute for Biomedical Problems of Russian Academy of Sciences, Moscow, Russia, Prof. André Diedrich, Vanderbilt University, GCRC, Nashville, TN, United States, Dr. Juergen Drescher, German Aerospace Center (DLR), Washington, United States, Prof. V.M. Baranov, State Research Center – Institute for Biomedical Problems of Russian Academy of Sciences, Moscow, Russia

IAC-05-A1.1.07

Qualitative analysis of arm motion in gravity variation

Mr. Frédéric Meyer, Ecole Polytechnique Fédérale de Lausanne, Plan-Les-Ouates, Switzerland

Mr. Gregory Chollet, University of Geneva, Onex, Switzerland, Mr. Adrian Gutknecht, University of Geneva, Plan-Les-Ouates, Switzerland, Mr. Nicolas Wiederecht, University of Geneva, Bernex, Switzerland

IAC-05-A1.1.08

OVAR (Off-Vertical-Axis-Rotation)

Mr. Yougeen Rezk, Medical University Graz, Vienna, Austria

IAC-05-A1.1.09

Space motion sickness (SMS), therapy by astronaut profile

Mr. Tom Ennekens, University of Antwerp, Kontich, Belgium

A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.2.A. Solar System Exploration (Part 1)

Chairmen: Marc D. Rayman (United States), Luc Frecon (France)

Rapporteur: James Middleton (Canada)

IAC-05-A3.2.A.01**Cassini/Huygens at Saturn and Titan**

Mr. Robert T. Mitchell, NASA, Pasadena, CA, United States

IAC-05-A3.2.A.02**The HUYGENS mission - Space history in many ways**

Ms. Anne marie Schipper, Alcatel Space, Cannes-La Bocca, France

IAC-05-A3.2.A.03**The Huygens probe system avionics : its design and its performance in flight**

Mr. Patrice Couzin, Alcatel Alenia Space France, Villeneuve Loubet, France

Mr. Thierry Blancquaert, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.2.A.04**The Juno New Frontiers Mission**

Mr. Steven E. Matousek, Jet Propulsion Laboratory, Pasadena, CA, United States

IAC-05-A3.2.A.05**The Jovian Minisat Explorer: The challenge of studying Europa**

Mr. Alessandro Atzei, ESA/ESTEC, Noordwijk Zh, Netherlands

Dr. Peter Falkner, ESA/ESTEC, Noordwijk, Netherlands, Dr. Anthony Peacock, ESA/ESTEC, noordwijk, Netherlands

IAC-05-A3.2.A.06**Jovian Outpost Establishment Trajectory Design**

Mr. Ridanto Poetro, Kyushu University, Fukuoka, Japan
Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan

IAC-05-A3.2.A.07**Radio-isotope versus solar power generation for an ESA mission to Jupiter/Europa**

Mr. Patrice Renard, EADS-Astrium, Toulouse, France
Dr. Peter Falkner, ESA/ESTEC, Noordwijk, Netherlands, Mr. Alessandro Atzei, ESA/ESTEC, Noordwijk Zh, Netherlands, Dr. Charles Koeck, EADS Astrium, Toulouse, France, Mr. Stephen Kemble, Astrium Ltd., Hertfordshire, United Kingdom

IAC-05-A3.2.A.08**Energy supply and technological solutions for rovers in space research**

Mr. Ferenc Horvai, Eötvös Lorand University of Scientist, Budapest, Hungary

IAC-05-A3.2.A.09**Exploring Triton With Multiple Landers**

Dr. Tibor S. Balint, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States

B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.6. Data Processing and GIS

Chairmen: Y.J.A. Chong (Rep. Of Singapore)

Rapporteur: Bhaskar Choudhury (United States)

IAC-05-B1.6.01**EO and GIS Standards for Establishing a National Natural Resources Repository - The Indian Experiences in NNRMS**

Dr. Rajeev Jaiswal, ISRO Headquarters, Bangalore, India
Mr. Arup Dasgupta, Space Application Centre, Ahmedaba, India, Mr. Mukund Rao, ISRO, Bangalore Karnataka, India, Dr. PS Roy, National Remote Sensing Agency, Hyderabad, India

IAC-05-B1.6.02**Land Cover Changes over 40 Years Detected from Remote Sensing Data**

Mr. Jan Kolar, Charles' University, Praha 2, Czech Republic

IAC-05-B1.6.03**GIS and Remote Sensing Based Approach for Developmental Planning and Resource Management: A Case Study of Kuraon Block, India**

Dr. Krishna Kumar, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India

Dr. R.D. Gupta, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India

IAC-05-B1.6.04**Extraction of Vegetation Cover Rate in Urban Areas Based on Mixel Analysis and Its Relationship with Vegetation Indices**

Dr. Shoji Takeuchi, Hiroshima Institute of Technology, Hiroshima, Japan

IAC-05-B1.6.05**Integrated Change Detection and Updating Remote Sensing Images by GIS Tools**

Mr. S. Ablameyko, National Academy of Sciences, Minsk, Belarus

Dr. Nikolai Murashko, United Institute of Informatics Problems, Minsk, Belarus, Mr. Alexander Kryuchkov, United Institute of Informatics Problems, Minsk, Belarus, Dr. Seiichi Uchida, Kyushu University, Fukuoka, Japan

IAC-05-B1.6.06**Evaluation of different digital elevation models for orthorectification of very high resolution satellite images**

Mr. Vassil Vassilev, Agency for Sustainable Development and Eurointegration (ASDE), Sofia, Bulgaria

Mr. Pavel Milenov, Agency for Sustainable Development and Eurointegration (ASDE), Sofia, Bulgaria

IAC-05-B1.6.07

Road extraction aided by adaptive directional filtering and template matching

Dr. Gianni Lisini, University of Pavia, Pavia, Italy

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B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.4. Advanced Systems

Chairmen: Elemer Bertenyi (Canada), Robert Prevoux (United States)

Rapporteur: Bruno Perrot (Luxembourg)

IAC-05-B3.4.01

622Mbps High Speed Satellite Communication System for WINDS

Mr. Yasuo Ogawa, National Institute of Information and Communications Technology, Tokyo, Japan

IAC-05-B3.4.02

Using Inflatable Antennas for Portable Satellite-based Personal Communications Systems

Ms. Naomi Mathers, RMIT University, Melbourne, Australia

Dr. Kamran Ghorbani, RMIT University, Melbourne, Australia, Associate Professor Lachlan Thompson, RMIT University, Melbourne, Australia

IAC-05-B3.4.03

Potential of Space Means for Radio Spectrum Monitoring

Mr. Jean-Paul Aguttes, CNES, Toulouse, France

Mr. Frederic Couturier, Agence Nationale des Frequences - France, Maisons Alfort, France, Mrs. Valerie Foix, CNES, Toulouse, France, Mrs. Claire Ederly-Guirado, CNES, Toulouse, France, Mr. Louis Torres, CNES, Toulouse, France,

IAC-05-B3.4.04

Elliptic Orbit Communication System Molniya-Zond: Launch, Spacecraft Assembling and Communication Equipment

Dr. Yuri Utybyshev, Rocket-Space Corporation "ENERGIA", Korolev, Moscow Region, Russia

Dr. Victor N. Doniants, Zond-Holdings, Moscow, Russia, Mr. Evgeny Zemskov, Rocket-Space Corporation "ENERGIA", Korolev, Moscow Region, Russia

IAC-05-B3.4.05

Performance Analysis of Integrated QZSS-GPS Navigation

Mr. Takeshi Ono, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan

IAC-05-B3.4.06

Coherent Optical Receiver for PPM Signals under Atmospheric Turbulence

Ms. Michela Munoz Fernandez, NASA, Pasadena, CA, United States

IAC-05-B3.4.07

Human Safety Design for Inter-orbit Communication System of Japanese Experiment Module

Mr. Tatsuya Ijiri, JAXA, Tsukuba-city, Ibaraki-ken, Japan

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B4. Space Stations Symposium (IAF T.)

Coordinators: Carlo Mirra (Netherlands), Mag Iskander (Canada)

B4.4. Evolution, Enhancement, New Programs

Chairmen: Judith L. Robey (United States), Mag Iskander (Canada)

Rapporteur: Shigeki Kamigaichi (Japan)

IAC-05-B4.4.01

Improving the Imaging of the ISS through the SPQR Experiment

Dr. Manfredi Porfilio, Università di Roma "La Sapienza", Roma, Italy

Prof. Filippo Graziani, University of Rome "La Sapienza", 00184 Rome, Italy, Prof. Antonio Paolozzi, Università di Roma "La Sapienza", Rome, Italy, Prof. Douglas Currie, The University of Maryland, Maryland, United States, Mr. Ronald Dantowitz, Dexter and Southfield Schools, Brookline, United States,

IAC-05-B4.4.02

Enhancing MSS Software to Meet the Evolving Needs of the ISS

Ms. Pat Greene, MDA, Brampton, Canada

IAC-05-B4.4.03

Experience using the Clarissa Spoken Dialogue System on the ISS

Dr. James L. Hieronymus, NASA Ames Research Center, Moffett Field, CA, United States

Mr. John Dowding, University of California/Santa Cruz, Moffett Field, CA, United States

IAC-05-B4.4.04

Increasing the Utilization of the ISS Mobile Servicing System Through Ground Control

Mr. Richard Rembala, MDA, Brampton, Canada

Mr. Sarmad Aziz, Canadian Space Agency, Houston, TX, United States

IAC-05-B4.4.05

Design of Fault-Detection, Isolation, Reconfiguration Function for Space Robot Distributed Network Controller

Mr. Shinichiro Narita, Keio University, Yokohama, Kanagawa, Japan

Dr. Yoshiaki Ohkami, Keio University, Yokohama, Kanagawa, Japan

IAC-05-B4.4.06

Innovative Solutions for Maintaining On-Orbit Crew Skills Proficiency: A Key to Successful Long Duration Space Missions

Ms. Lindsay Evans, Canadian Space Agency, Saint-Hubert, Canada

Ms. Elaine Greenberg, Canadian Space Agency, St. Hubert, Canada

IAC-05-B4.4.07

A Lidar-based Sensor Tool for Modeling and Inspection of the International Space Station

Mr. Ross Gillett, MD Robotics, Brampton, Canada

IAC-05-B4.4.08

Space Cinema Mission

Mr. Oleg Aleksandrov, AeroSpace Systems, Moscow, Russia

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B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (United States), Rainer Sandau (Germany)

B5.6.A. Design and Technology for Small Satellites (Part 1)

Chairmen: Philip Davies (United Kingdom), Richard Holdaway (United Kingdom)

IAC-05-B5.6.A.01

Design of Attitude Determination and Control System for Hokkaido Satellite

Mr. Koichiro Sugimoto, Hokkaido University, Sapporo, Japan

Mr. Daigaku Igarashi, Hokkaido University, Sapporo, Japan, Dr. Kosei Ishimura, Hokkaido University, Sapporo, Japan

IAC-05-B5.6.A.02

Delfi-C3: a Student Nanosatellite as a Test-bed for Thin Film Solar Cells and Wireless Onboard Communication

Mr. Abe Bonnema, Delft University of Technology, Delft, Netherlands

Mr. Rob Hamann, Delft University of Technology, Delft, Netherlands

IAC-05-B5.6.A.03

Tokyo Tech Separation Demonstration TSD as M-V Rocket Sub-Payload for Nanosatellite Separation Mechanism

Mr. Kei Miyamoto, Tokyo Institute of Technology, Tokyo, Japan

Mr. Kyoichi Ui, Tokyo Institute of Technology, Meguro-ku, Japan, Mr. Naoki Miyashita, Tokyo Institute of Technology, Tokyo, Japan, Mr. Masafumi Iai, Tokyo Institute of Technology, Tokyo, Japan, Prof. Saburo Matunaga, Tokyo Institute of Technology, Tokyo, Japan,

IAC-05-B5.6.A.04

Student nano satellite M.G

Mr. Jonas Bohman, Esa Student Participation Programme, Stockholm, Sweden

IAC-05-B5.6.A.05

Development of CubeSat

Mr. Nobuaki Kinoshita, Nihon University, Chiba, Japan

Mr. Kazumasa Sase, Nihon University, Chiba, Japan, Mr. Satoshi Okino, Nihon University, Chiba, Japan, Mr. Shigeki Uchiyama, Nihon University, Chiba, Japan, Mr. Sotaro Hashiguchi, Nihon University, Chiba, Japan,

IAC-05-B5.6.A.06

The BEOSAT - Project (Student built microsatellite)

Mr. Arne Sauer, Technische Universität Braunschweig, Reinbek, Germany

IAC-05-B5.6.A.07

Experimental Verification of Docking Mechanism Control to Grasp and Guide a Nanosatellite

Mr. Kyoichi Ui, Tokyo Institute of Technology, Meguro-ku, Japan

Prof. Saburo Matunaga, Tokyo Institute of Technology, Tokyo, Japan

IAC-05-B5.6.A.08

Dobson Space Telescope - Development of a collimation testbed and an active optic

Mr. Matthias Lieder, Technische Universität Berlin Sekr. F6, Berlin, Germany

Mr. Bjoern Danziger, Institute of Aeronautics and Astronautics, Berlin, Germany, Mr. Tom Segert, Technische Universität Berlin, Berlin, Germany

IAC-05-B5.6.A.09

The Design of Reconfigurable Hardware Platform on Small Satellite House-keeping Computer Based on SOC

Dr. Wei zhaobi, School of Electrical Engineering, Xi'an Jiaotong University, Xi an, China

Mr. Ma Zhiying, School of Electrical Engineering, Xi an Jiatong University, Xi an, China

IAC-05-B5.6.A.10

Single-chip telemetry transmitters for small satellites

Mr. Odd Erling Norheim Eriksen, Norwegian University of Science and Technology, Vestnes, Norway

IAC-05-B5.6.A.11

UWE-1: A pico-satellite to test telecommunication protocols

Mr. Bernhard Herbst, Esa Student Participation Programme, Wuerzburg, Germany

IAC-05-B5.6.A.12

A Multiplexed All-Reflective Static Fourier Transform Spectrometer For Space-Based Applications

Mr. Fabio Frassetto, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Treviso, Italy Dr. Giampiero Naletto, University of Padova, Padova, Italy

IAC-05-B5.6.A.13

Nano satellite project

Ms. Kristina Läfars, Student, Bedford, United Kingdom

IAC-05-B5.6.A.14 (WITHDRAWN)

Design and Development of a Power Conditioning Unit for the European Student Earth Orbiter

Ms. Amelia De Chiara, Seconda Università' di Napoli, Casal di Principe (CE), Italy

IAC-05-B5.6.A.15

Canadian Advanced Nanospace eXperiment 2: Scientific and Technological Innovation on a Three-Kilogram Satellite

Mr. Karan Sarda, Student, Toronto, Canada

IAC-05-B5.6.A.16

A Lunar Microsatellite Mission Propelled by an Electric Propulsion System

Ing. Luca Derosa, Politecnico di Torino, Torino (TO), Italy Mr. Ettore Scari, Politecnico di Milano, Sondrio, Italy, Mr. Davide Tonini, Politecnico di Milano, Induno Olona (VA), Italy

IAC-05-B5.6.A.17

Applying a Simple Control Law to Deploy Space Tether on a Micro Tethered Satellite

Tanaka Yosuke, Kyushu University, Fukuoka, Japan
Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan,
Dr. Hiroshi Hirayama, Kyushu University, Fukuoka, Japan

IAC-05-B5.6.A.18

One dimensional Fluid Wheel

Masataka Tochimoto, ISAS/JAXA, Sagamihara, Japan

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B6. Space Debris Symposium (IAA 5.12.)

Coordinators: Nicholas L. Johnson (United States), Walter Flury (Germany)

B6.4. Hypervelocity Impacts and Protection

Chairmen: Sergey Meshcheryakov (Russia), Takashi Nakajima (Japan)

Rapporteur: J.-C. Liou (United States)

IAC-05-B6.4.01

Performance Assessment of Debris Shield with Hyper Velocity Impact Testing for the Japanese Experiment Module(JEM) and HII Transfer Vehicle(HTV)

Mr. Takeshi Kamiya, JAXA, Ibaraki, Japan
Dr. Kuniaki Shiraki, JAXA, Tsukuba, Japan, Mr. Hideaki Uchikawa, Japan Aerospace Exploration Agency (JAXA), Ibaraki, Japan

IAC-05-B6.4.02

Vulnerability of spacecraft electric equipment to hypervelocity impacts

Mr. Robin Putzar, Fraunhofer-Institute for High-Speed Dynamics, Freiburg, Germany
Dr. Frank K. Schaefer, Fraunhofer, Institute for High-Speed Dynamics, Freiburg, Germany, Dr. Hedley Stokes, Qinetiq Ltd., Farnborough, United Kingdom, Mr. Richard Chant, Qinetiq Ltd., Farnborough, United Kingdom, Mr. Michel Lambert, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B6.4.03

The orbital debris hypervelocity impact effects

Prof. Hweei Pang, Beijing institute of satellite environment engineering, Beijing, China
Mr. Hongjian Dong, Beijing institute of satellite environment engineering, Beijing, China, Prof. Bencheng Huang, Beijing institute of satellite environment engineering, Beijing, China, Prof. Jingyu Tong, Beijing institute of satellite environment engineering, Beijing, China

IAC-05-B6.4.04

Numerical Simulation of Debris Clouds Produced by Projectile Hypervelocity Impact on Double-Layer Bumper

Dr. Wei Zhang, Harbin Institute of Technology, Harbin, China

IAC-05-B6.4.05

Improvement of Conical Shaped Charge System and comparison of the test result between CSC and Gas gun

Mr. Yosuke Nagao, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan
Dr. Seishiro Kibe, JAXA, Chiyoda-ku, Japan, Mr. Takayuki Shimizu, Mitsubishi Heavy Industries Ltd., Nagoya, Japan, Mr. Makoto Hikiji, Chugoku Kayaku Co., Ltd., Gunma, Japan

IAC-05-B6.4.06

Comparison of Shielding Performance between Al-Foam and Solid-Aluminum Bumpers with Numerical Simulation

Mr. Zhitao Ma, Harbin Institute of Technology, Harbin, China
Mr. Baojun Pang, Harbin Institute of Technology, Harbin, China, Mr. Bin Jia, Harbin Institute of Technology, Harbin, China

IAC-05-B6.4.07

A numerical study on hypervelocity impacts using SPH code

Mr. Makoto Tanaka, Tokai University, Kanagawa, Japan

IAC-05-B6.4.08

Proposal of Counter Impact Using Two-Stage Light Gas Guns

Mr. Junichi Kitagawa, Kyushu Institute of Technology, Kitakyushu, Japan
Mr. Yasuhiro Akahoshi, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Shinya Fukushima, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Takao Koura, Kyushu Institute of Technology, Kitakyushu, Japan, Mr. Masayoshi Tadaoka, Kyushu Institute of Technology, Kitakyushu, Japan

IAC-05-B6.4.09

Hypervelocity Impact Phenomena at Low Temperatures using a Cryostat

Dr. Kiyonobu Ohtani, Tohoku University, Sendai, Japan
Mr. Daijyu Numata, Tohoku University, Sendai, Japan, Mr. Takamasa Kikuchi, Tohoku University, Sendai, Japan, Prof. Mingyu Sun, Tohoku University, Sendai, Japan, Prof. Kazuyoshi Takayama, Tohoku University, Sendai, Japan

IAC-05-B6.4.10

Features of a protection against meteoroids

Dr. Sergey Meshcheryakov, Central Research Institute of Machine Building (TSNIIMASH), Korolev, Russia

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C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.6. Orbital Dynamics

Chairmen: An-Ming Wu (Taiwan), Robert G. Melton (United States)
Rapporteur: Colin R. McInnes (United Kingdom)

IAC-05-C1.6.01

Transfers Between the Earth-Moon and Sun-Earth Systems Using Manifolds and Transit Orbits

Dr. Kathleen Howell, Purdue University, West Lafayette, IN, United States
Mr. Masaki Kakoi, Purdue University, West Lafayette, United States

IAC-05-C1.6.02

Periodic Orbits in the Restricted Full Three-Body Problem for an Ellipsoid-Sphere System.

Ms. Julie Bellerose, University of Michigan, Ann Arbor, MI, United States

Dr. Daniel J. Scheeres, University of Michigan, Ann Arbor, MI, United States

IAC-05-C1.6.03

Control of Lagrange Point Orbits Using Solar Sail Propulsion

Mr. John Bookless, University of Glasgow, Glasgow, United Kingdom

IAC-05-C1.6.04

Analytical Orbit Predictions with Oblate Atmosphere using K-S Uniformly Regular Canonical Elements

Dr. Ram Krishnan Sharma, ISRO, Thiruvananthapuram, India

Mr. Xavier James Raj, ISRO, Thiruvananthapuram, India

IAC-05-C1.6.05

An Electric Propulsion Configured Small Halo Orbit Around L2

Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagami, Japan

IAC-05-C1.6.06

Low Energy Transfers to the Moon Exploiting the Hyperbolic Dynamics of L1

Mr. Francesco Toppeto, Politecnico di Milano, Milano, Italy

Mr. Franco Bernelli-Zazzera, Politecnico di Milano, Milano, Italy, Mr. Massimiliano Vasile, Politecnico di Milano, Milano, Italy

IAC-05-C1.6.07

Solutions to the low-thrust problem via conformal mapping

Dr. Andreas Rathke, ESA/ESTEC, Noordwijk, Netherlands

Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C1.6.08

The use of consecutive collision orbits to obtain swing-by maneuvers

Dr. Antonio Prado, National Institute of Space Research (INPE), Sao Jose dos Campos, Brazil

Mr. Denilson Santos, INPE, S J Campos, Brazil

IAC-05-C1.6.09

Orbital Control of a Tethered Satellite System Using Tether-Length Variations

Mr. Shinji Hokamoto, Kyushu University, Fukuoka, Japan

Mr. Kazuo Setoyama, Kyushu University, Fukuoka, Japan

IAC-05-C1.6.10

Spacecraft Orbit Control using Air Drag

Prof. Giovanni B. Palmerini, University of Rome La Sapienza, Rome, Italy

Prof. Silvano Sgubini, -, Rome, Italy

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.5. Space Environmental Effects and Spacecraft Protection

Chairmen: Akira Meguro (Japan), Murray Hirschbein (United States)

Rapporteur: Frédéric Leleu (France)

IAC-05-C2.5.01

Numerical Simulation of Internal Charging inside Teflon Film

Dr. Rikio Watanabe, Musashi Institute of Technology, Tokyo, Japan

Mr. Masahiro Ota, Musashi Institute of Technology, Tokyo, Japan, Dr. Yasuhiro Tanaka, Musashi Institute of Technology, Tokyo, Japan

IAC-05-C2.5.02

Radiation effects on dielectric multilayer coatings on optics

Dr. Kazuhisa Fujita, The Graduate school for the Creation of New Photonics Industries, Hamamatsu, Shizuoka, Japan

Dr. Kazuyuki Suzuki, Foundation for promotion of Japanese Aerospace Technology, Sendai, Japan

IAC-05-C2.5.03

Validation of a SEU simulation technique for a radiation hardened 64-bit MIPS processor.

Mr. Albert Ferrer Florit, TIMA laboratory (INPG), Grenoble, France

Dr. Raoul Velazco, TIMA laboratory (INPG), Grenoble, France

IAC-05-C2.5.04 (WITHDRAWN)

Radiation Hardness of Silicon Detectors

Mr. Ilias Tsagkas, University of Strathclyde in Glasgow, Glasgow, United Kingdom

IAC-05-C2.5.05

Atomic Oxygen-induced Polymer Degradation Phenomena in Simulated LEO Space Environments: how do Polymers React in a Complicated Space Environment?

Dr. Masahito Tagawa, Kobe University, Kobe, Japan

Dr. Nobuo Ohmae, Kobe University, Kobe, Japan, Ms. Yokota Kumiko, Kobe University, Kobe, Japan

IAC-05-C2.5.06

Simulation and test technique of AO/VUV synergistic effects

Prof. Jingyu Tong, Beijing institute of satellite environment engineering, Beijing, China

Dr. Lixiang Jiang, Beijing institute of satellite environment engineering, Beijing, China, Prof. Hewei Pang, Beijing institute of satellite environment engineering, Beijing, China

IAC-05-C2.5.07

Effect of Exposure in Orbit on Friction of Lubricative Coating

Dr. Masahiro Tosa, National Institute for Materials Science, Tsukuba-shi, Japan

Dr. Masahiro Goto, National Institute for Materials Science, Tsukuba-shi, Japan, Dr. Kichiro Imagawa, JAXA, Tsukuba-shi, Japan, Dr. Toshihiko Inoue, JAXA, Tsukuba-shi, Japan, Mr. Akira Kasahara, National Institute for Materials Science, Tsukuba-shi, Japan,

IAC-05-C2.5.08

Impact of the space environment on Darwin and a Low Earth Orbit (LEO) demonstration mission
Ms. Veerle Sterken, Technical University of Delft (TUDelft), Delft, Netherlands

IAC-05-C2.5.09

Research progresses of ultra-high temperature materials for TPS
Dr. Zhang Xinghong, Harbin Institute of Technology, Harbin, China

IAC-05-C2.5.10

Preliminary Theoretical Material Characterization for Numerical Modelling of Composite Structures
Mr. Shannon Ryan, RMIT University, Australia and Fraunhofer-Institute for High-Speed Dynamics, Freiburg im Breisgau, Germany
Dr. Werner Riedel, Fraunhofer-Institute for High-Speed Dynamics, Freiburg im Breisgau, Germany, Dr. Frank K. Schaefer, Fraunhofer, Institute for High-Speed Dynamics, Freiburg, Germany

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C3. Space Power Symposium (IAF R.)

Coordinators: John C. Mankins (United States)

C3.3. Experiments and Demonstrations for Space Solar Power

Chairmen: Nobuyuki Kaya (Japan), Patrick Collins (Japan)
Rapporteur: John C. Mankins (United States), Alain Celeste (France), Timothy G. Collins (United States)

IAC-05-C3.3.01

Sounding Rocket Flight Experiment for Demonstrating
Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan
Mr. Tsukasa Funane, University of Tokyo, Tokyo, Japan,
Dr. Nobuyuki Kaya, Kobe University, Kobe, Japan, Mr. Mitsuhiro Komatsu, University of Tokyo, Tokyo, Japan, Mr. Kenji Nakada, University of Tokyo, Tokyo, Japan,

IAC-05-C3.3.02

Rocket Experiment on the Retrodirective Antenna for Microwave Power Transmission
Mr. Naoki Nakahira, Kobe University, Kobe, Japan
Dr. Nobuyuki Kaya, Kobe University, Kobe, Japan

IAC-05-C3.3.03

Spider-like robotic mobility for the construction of large antennas in space
Dr. Leopold Summerer, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-C3.3.04

Crawling Robots on A Large Web with the Furoshiki Deployment
Dr. Nobuyuki Kaya, Kobe University, Kobe, Japan
Mr. Masashi Iwashita, Kobe University, Kobe, Japan, Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan, Dr. Leopold Summerer, ESA/ESTEC, Noordwijk, Netherlands, Mr. John C. Mankins, NASA, Washington D.C., United States

IAC-05-C3.3.05

Technology demonstrations and flight experiments validating an optical power infrastructure for Earth-moon space
Dr. Richard L. Fork, University of Alabama in Huntsville, Huntsville, AL, United States
Mr. Joe T. Howell, NASA, Huntsville, Alabama, United States, Mr. Rustin Laycock, University of Alabama in Huntsville, Huntsville, United States, Mr. Dane Phillips, University of Alabama in Huntsville, Huntsville, United States

IAC-05-C3.3.06

Retrodirective Very Large Aperture Phased Array Beam Steering Demonstration
Mr. Samuel Kokel, Kobe University, Kobe, Japan

IAC-05-C3.3.07

Microwave Energy Transmission for a Micro Aerial Vehicle by a Phased Array Antenna
Mr. Hiroki Takayanagi, University of Tokyo, Tokyo, Japan
Prof. Yoshihiro Arakawa, University of Tokyo, Tokyo, Japan, Mr. Hiroyuki Koizumi, University of Tokyo, Tokyo, Japan, Dr. Kimiya Komurasaki, University of Tokyo, Chiba, Japan, Mr. Yasuhisa Oda, University of Tokyo, Chiba, Japan,

IAC-05-C3.3.08

Recent US and Japanese Research in Wireless Power Transmission to Investigate Possible Ice Deposits in Dark Craters at the Moon's Poles
Mr. Mark Henley, The Boeing Company, Canoga Park, CA, United States

IAC-05-C3.3.09

A Strategic Campaign to Develop and Flight Test Advanced Space Solar Power
Mr. John C. Mankins, NASA, Washington D.C., United States

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October 20 2005, 08:30 - 503

C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.5. Hypersonic and Combined Cycle Propulsion

Chairmen: Paul A. Czysz (United States), Nobuhiro Tanat-sugu (Japan)
Rapporteur: Federico Massobrio (Italy)

IAC-05-C4.5.01

Balloon-based Overall Verification Experiment for Precooled Turbo Jet Engine
Dr. Kazuhisa Fujita, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan

IAC-05-C4.5.02

Design Study and Component Tests on a Subscale Precooled Turbojet Engine for Flight Experiment
Dr. Takayuki Kojima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan
Dr. Kazuhisa Fujita, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Mr. Hiroaki Kobayashi, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Dr. Keiichi Okai, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Dr. Tetsuya Sato, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan,

IAC-05-C4.5.03

Design of Sub-scale Rocket-Ramjet Combined Cycle Engine Model

Mr. Takeshi Kanda, JAXA/ISTA, Kakuda, Miyagi, Japan
Mr. Sadatake Tomioka, JAXA/ISTA, Kakuda, Miyagi, Japan, Mr. Shuichi Ueda, JAXA/ISTA, Kakuda, Miyagi, Japan, Mr. Kouichiro Tani, Japan Aerospace Exploration Agency (ISTA/JAXA), Kakuda, Miyagi, Japan, Dr. Yoshio Wakamatsu, JAXA/ISTA, Kakuda, Miyagi, Japan

IAC-05-C4.5.04

Study on Variable-Shape Supersonic Inlets and Missiles with MRD Device

Mr. Hiroaki Kobayashi, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan
Mr. Motoyuki Hongoh, Japan Aerospace Exploration Agency, Kanagawa, Japan, Dr. Takayuki Kojima, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan, Mr. Yusuke Maru, University of Tokyo, Sagamihara, Kanagawa, Japan, Dr. Keiichi Okai, Japan Aerospace Exploration Agency (ISTA/JAXA), Tokyo, Japan,

IAC-05-C4.5.05

Experimental and Numerical Study on Hypersonic 3D Sidewall Compression Inlet

Dr. Jianhan Liang, National University of Defense Technology, Changsha, Hunan, China

IAC-05-C4.5.06

Designing and Aerodynamic Performance of the Combined-Cycle Engine Inlet in a Hypersonic Flow

Mr. Kouichiro Tani, Japan Aerospace Exploration Agency (ISTA/JAXA), Kakuda, Miyagi, Japan
Mr. Takeshi Kanda, JAXA/ISTA, Kakuda, Miyagi, Japan, Mr. Kanenori Kato, JAXA/ISTA, Kakuda, Miyagi, Japan, Mr. Noboru Sakuranaka, JAXA/ISTA, Kakuda, Miyagi, Japan, Mr. Shuichi Watanabe, JAXA/ISTA, Kakuda, Miyagi, Japan

IAC-05-C4.5.07

Optimization Design for Scramjet Flowpath Considering Hypersonic Vehicle Trim Effects

Mr. Xu Dajun, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-C4.5.08

A Study on the enhancement of supersonic mixing by using ramp shaped injector with shock generator and cavity

Mr. Kei Inoue, Kyushu University, Fukuoka, Japan

IAC-05-C4.5.09

Numerical Research of Hypersonic Inlet Starting Procedure in Impulsive Ground Test Facility

Dr. Fan Xiao-qiang, National University of Defence Technology, Changsha, China
Dr. JIA Di, National University of Defence Technology, Changsha, China

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D1. Space Systems Symposium (IAF U.)

Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.3. System Engineering Tools, Processes and Training

Chairmen: Hans F.A. Roefs (Netherlands), Lawrence Dale Thomas (United States)
Rapporteur: Qi Zheng Hu (Finland)

IAC-05-D1.3.01

Expected Productivity-Based Risk Analysis in Conceptual Design

Ms. Julie Wertz, Massachusetts Institute of Technology, Pasadena, United States
Dr. David Miller, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-D1.3.02

Dynamic Probabilistic Risk Assessment of Conceptual Launch Vehicles and Spacecraft

Mr. Dev K. Sen, SAIC, New-York, United States

IAC-05-D1.3.03

Flight optimization of spaceborne equipment at manned stations – a reserve of increase of its tests efficiency

Dr. Igor Sorokin, S.P. Korolev Rocket and Space Corporation Energia, Korolev, Moscow Region, Russia

IAC-05-D1.3.04

Multidisciplinary Optimization of Space Transportation Systems

Dr. Naoshi Kuratani, JAXA, Tokyo, Japan
Mr. Hirokazu Suzuki, JAXA, Tokyo, Japan, Dr.-Ing. Robert Goehlich, JAXA, Berlin, Germany

IAC-05-D1.3.05

Long Term Space Program Scheduling and System Design Optimisation

Ms. Gabriella Vittoria Maria Gaias, Esa Student Participation Programme, Milano, Italy
Mr. Andrea Da Costa, Politecnico di Milano, Milano, Italy, Ms. Michelle Lavagna, Politecnico di Milano, Milan, Italy, Mr. Simone Emanuele Centuori, Esa Student Participation Programme, milano, Italy

IAC-05-D1.3.06

Concurrent Engineering at CNES

Mr. Pierre W. Bousquet, CNES, Toulouse, France

IAC-05-D1.3.07

Aerospace Technical Information Management Systems in JAXA

Mr. Shinichi Sobue, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

IAC-05-D1.3.08

Planetary Exploration: SPADE - A New Integrated Entry Systems Design Tool

Mr. Elie Allouis, Surrey Space Centre, Guildford, United Kingdom
Dr. Alex Ellery, Surrey Space Centre, Guildford, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom

IAC-05-D1.3.09

Revision of the quality standard methodologies

Mr. Adriano Autino, *Technologies of the Frontier / Andromeda s.r.l., Moncrivello (VC), Italy*

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D2. Space Transportation Symposium (IAF V.)

Coordinators: *Christophe Bonnal (France), Richard Tyson (United States)*

D2.6. Future Space Transportation Systems Technologies In-Flight Experimentation

Chairmen: *Christian Dujarric (France), Richard Tyson (United States)*

Rapporteur: *Shigeru Aso (Japan)*

IAC-05-D2.6.01

X-43 Hypersonic Vehicle Technology Development

Mr. *Randall Voland, NASA Langley Research Center, Hampton, VA, United States*

IAC-05-D2.6.02

The preparation and the flight of SHEFEX

Dr. *Norbert Puettmann, German Aerospace Center (DLR), Bonn, Germany*

Dr. *José Longo, German Aerospace Center (DLR), Braunschweig, Germany*

IAC-05-D2.6.03

Daily Shuttle: RLV operation demonstrator of JAXA

Mr. *Masashi Okada, JAXA, Tsukuba, Ibaraki, Japan*

Prof. *Yoshifumi Inatani, JAXA, Kanagawa, Japan, Mr. Moriyasu Fukuzoe, JAXA, Tsukuba, Ibaraki, Japan*

IAC-05-D2.6.04

PHOENIX A Demonstrator Family for Technology in-Flight Experimentation and RLV Flight Demonstration

Dr. *Peter Kyr, EADS Space Transportation, Bremen, Germany*

Mr. *Josef Sommer, EADS Space Transportation, Bremen, Germany*

IAC-05-D2.6.05

Flight Experiment of the Capsule with the Deployable Flexible Aeroshell Using a Large Scientific Balloon

Dr. *Kazuhiko Yamada, University of Tokyo, Tokyo, Japan*

Dr. *Takashi Abe, JAXA, Kanagawa, Japan, Mr. Daisuke Akita, University of Tokyo, Tokyo, Japan, Mr. Keisuke Kinumoto, University of Tokyo, Tokyo, Japan, Dr. Yukihiko Matsusaka, JAXA, Kanagawa, Japan,*

IAC-05-D2.6.06

Preparing for Next Generation Launcher: In-flight Experimentation Activities

Mr. *Giorgio Tumino, ESA Headquarters, Paris, France*

Mr. *Dario Boggiatto, Alenia Aerospazio S.p.A, Torino, Italy,*

Mr. *Yves Gerard, EADS Space Transportation, St Medard en Jalles, France*

IAC-05-D2.6.07

PRE-X Project: Short Term Perspectives

Mr. *Sylvain Guedron, CNES, Evry, France*

Mr. *Christophe Bonnal, CNES, Evry, France*

IAC-05-D2.6.08

Aerothermodynamic Environment of EXPERT and Flight Measurement Technique integration issues.

Mr. *Jean-Marie Muylaert, ESA/ESTEC, Noordwijk, Netherlands*

Ms. *Francesca Cipollini, European Space Agency, Noordwijk ZH, Netherlands, Dr. Louis Walpot, AOES, Leiden, Netherlands, Mr. Harald Ottens, AOES, Leiden, Netherlands, Dr. Antonio Schettino, CIRA, Capua, Italy*

IAC-05-D2.6.09

A Spectrometric Device to measure species concentration close to the surface during re-entry

Mr. *Francesco Finamore, University of Rome "La Sapienza", Rome, Italy*

Prof. *Claudio Bruno, University of Rome La Sapienza, Rome, Italy, Prof. Antonio Paolozzi, Università di Roma "La Sapienza", Rome, Italy, Prof. Douglas Currie, The University of Maryland, Maryland, United States*

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E1. Space Education and Outreach Symposium (IAF P.)

Coordinators: *Pierre-Louis Contreras (France)*

E1.3. Educational Outreach

Chairmen: *Frank Friedlaender (United States), Olga Zhdanovich (Russia)*

Rapporteur: *Carsten Holze (Germany)*

IAC-05-E1.3.01

Internet-Based Space-Related Public Programs and Outreach at the Powerhouse Museum

Ms. *Kerrie Dougherty, Power House Museum, Haymarket, NSW, Australia*

IAC-05-E1.3.02

Adolescent's Voluntary Involvement in Space Education - Space Academy Program -

Mr. *Takahiro Kato, Kanazawa Univ., Kanazawa, Japan*

Ms. *Akiha Tomoko, Young Astronauts Club-Japan, Tokyo, Japan, Mr. Hayashi Masayuki, Young Astronauts Club, Japan, Tokyo, Mr. Fujishima Toru, Young Astronauts Club, Japan, Tokyo, Japan*

IAC-05-E1.3.03

Using NASA's Reduced Gravity Student Flight Opportunities Program as an Effective Outreach Platform for Native Americans

Dr. *Timothy M. Ritter, University of N. Carolina at Pembroke, Pembroke, NC, United States*

Ms. *April Oxendine, University of N. Carolina at Pembroke, Pembroke, United States*

IAC-05-E1.3.04

Pedagogical, moral and scientific aspects of specialist education in space field

Mrs. *L.B. Stroganova, Moscow Aviation Institute (State Technical University), Moscow, Russia*

Mr. *Dmitry Novikov, Moscow Aviation Institute, Moscow, Russia*

IAC-05-E1.3.05

Zero Gravity: an education programme for 9 - 12 year olds

Ms. *Nicola Triscott, The Art Catalyst, Tynbee Studios, London, United Kingdom*

Mr. *Rob La Frenais, The Arts Catalyst, London, United Kingdom*

IAC-05-E1.3.06

JAXA's Student Dispatch Program "Join Us at IAF" and its Consequences

Ms. Eiko Ito, Japan Aerospace Exploration Agency (JAXA), Tokyo, Japan

IAC-05-E1.3.07

Space Generation Congress 2004 Inspiring Education Projects

Ms. Zahra Khan, Carleton University, Ottawa, ON, Canada
Mr. Timothy Bailey, Space Generation Foundation, Hallandale Beach, United States, Mr. Kanako Daigo, Nihon University, Chiba, Japan, Mr. Kirk Kittell, University of Illinois at Urbana-Champaign, Urbana, IL, United States, Mr. Randall Plitt, Science Fest, Vancouver, BC, Canada,

IAC-05-E1.3.08 (WITHDRAWN)

aMarte

Ms. Tamara Montes Bazan, -, Zaragoza, Spain

IAC-05-E1.3.09

The British Festival of Space: raising awareness of space in the UK

Ms. Anita Heward, British Festival of Space, Godalming, United Kingdom

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E3. Symposium on Space Exploration: Policy, Economic and Legal Issues (IAA 5.13.)

Coordinators: Gérard Brachet (France), John M. Logsdon (United States)

E3.2. Space Exploration and International Cooperation

Chairmen: Debra Facktor Lepore (United States), Masato Koyama (United States)
Rapporteur: Hirotaka Watanabe (Japan)

IAC-05-E3.2.01

The U.S. Approach to International Participation in the Vision for Space Exploration

Mr. Michael O'Brien, NASA Headquarters, Washington, DC, United States

IAC-05-E3.2.02

Alternative international cooperation in space development for Japan. Need for more cost-effective space application projects

Mr. Minoru Suzuki, Kwansei Gakuin University, Sanda-shi, Hyogo, Japan

IAC-05-E3.2.03

Implementing International Cooperation in Space Exploration

Mr. Ian W. Pryke, George Mason University, Falls Church, Virginia, USA, United States
Mrs. Margaret G. Finarelli, International Space University, Arlington, VA, United States

IAC-05-E3.2.04

From nuclear reactors and fighters to genes – applicability of non-space experience for development of international cooperation mechanisms for space exploration

Mr. Jakub Ryzenko, Polish Space Office Institute of International Relations, Warsaw University, Warszawa, Poland

IAC-05-E3.2.05

Novel Approaches to Space Cooperation: the Formation of Transatlantic Multi-Public-Private Partnership

Dr. Vasilis Zervos, The University of Nottingham, Nottingham, United Kingdom

IAC-05-E3.2.06 (WITHDRAWN)

Customer Expectations versus Vehicle Performance

Dr.-Ing. Robert Goehlich, JAXA, Berlin, Germany
Prof. Yoshiaki Ohkami, JAXA, Tsukuba, Japan

IAC-05-E3.2.07

International Cooperation: An Objective Approach to Space Exploration Success

Dr. Lance Bush, Asset Management Advisors, Palm Beach Gardens, FL, United States

IAC-05-E3.2.08

The Solar system exploration Program of Programs (SSEPP)

Mr. Jean-Jacques Favier, CNES, Toulouse, France

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E3. Symposium on Space Exploration: Policy, Economic and Legal Issues (IAA 5.13.)

Coordinators: Gérard Brachet (France), John M. Logsdon (United States)

E3.4. Scientific-Legal Round Table on Space Traffic Management (IAA.5.13/IISL): Space traffic already takes place. But the investigation of space traffic and its management has only recently become a point of wider discussion. The centerpiece of this Round-Table is the presentation and discussion of an international interdisciplinary study project by IAA, which has been conducted between 2001 and 2005. This study, for the first time, comprises an in-depth analysis of the technical and regulatory features of space traffic. In the form of findings and recommendations it draws the picture of a space traffic management regime, which might come into operation by 2020. Invited papers to the Round-Table will cover the most prominent aspects of space traffic management and lead to a discussion of the concept. A panel discussion will be held at the end of the round-table.

Chairmen: Petr Lala (Czech Republic), Kai-Uwe Schrogel (Germany)

Rapporteur: Corinne Contant Jorgenson (United States)

IAC-05-E3.4.01

Technical basics and prospects for the use of outer space

Dr. William Ailor, Aerospace Corporation, El Segundo, CA, United States

IAC-05-E3.4.02

Space traffic management – what is possible?

Dr. Lubos Perek, Academy of Sciences, Praha, Czech Republic

IAC-05-E3.4.03

Air and space traffic management compared

Mr. Peter van Fenema, Institute of Air and Space Law, McGill University, Montreal, QC, Canada

IAC-05-E3.4.04

Status of the IAA Study on Space Traffic Management

Ms. Corinne Contant Jorgenson, American Institute of Aeronautics, McLean, VA, United States

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A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlouskaya (Russia), Ronald J. White (United States)

A1.6. Habitats, Life Support and Extravehicular Activity

Chairmen: Rupert Gerzer (Germany), Guy Fogleman (United States)

Rapporteur: Frank Steinsiek (Germany)

IAC-05-A1.6.01

Microbiological Monitoring of the Environment of the International Space Station

Dr. Natalia Novikova, Institute for Biomedical Problems, Moscow, Russia

Mrs. Elena Deshevaya, Institute for Biomedical Problems, Moscow, Russia, Mrs. Svetlana Poddubko, Institute for Biomedical Problems, Moscow, Russia, Mr. Nikolay Polikarpov, Institute for Biomedical Problems, Moscow, Russia, Mrs. Natalia Rakova, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.6.02

Air decontamination aboard space flying vehicles

Ms. Elena Kapustina, Institute for Biomedical Problems, Moscow, Russia

Mr. Alexander Nagolkin, Scientific and Production Company Potok Inter., Moscow, Russia, Dr. Natalia D. Novikova, Institute for Biomedical Problem, Moscow, Russia, Mrs. Svetlana Poddubko, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.6.03

Sensors for spacecraft cabin environment monitoring

Mr. Jeremy J. Ramsden, Cranfield University, Cranfield, United Kingdom

IAC-05-A1.6.04

Autosynchronous Triangulation for Biomass Monitoring

Mr. Adam Deslauriers, Neptec Design Group, Ottawa, Canada

Mr. Jonathan Brockerville, Neptec Design Group, Ottawa, Canada, Mrs. Renée R. Cloutier, University of Guelph, Guelph, ON, Canada, Mr. Noé Ortiz-Urbe, University of Guelph, Guelph, ON, Canada, Dr. Evangelos D. Leonardos, University of Guelph, Guelph, ON, Canada,

IAC-05-A1.6.05

Biometric anatomy of seedlings developed in Space: results from an experiment onboard Foton M2

Dr. Veronica De Micco, Università degli Studi di Napoli "Federico II", Portici - Naples, Italy

Prof. Giovanna Aronne, University of Naples Federico II, Naples, Italy, Mr. Michele Scala, University of Naples Federico II, Naples, Italy

IAC-05-A1.6.06

Preparatory experiments for long term observation of Arabidopsis circumnutations in microgravity

Mr. Bjarte Gees Bokn Solheim, Norwegian University of Science and Technology, Trondheim, Norway

Ms. Ann-Iren Kittang, Norwegian University of Science and Technology, Trondheim, Norway, Prof., dr.philos Tor-Henning Iversen, Norwegian University of Science and Technology, Trondheim, Norway, Prof., fil.dr. Anders Johnsson, Norwegian University of Science and Technology, Trondheim, Norway

IAC-05-A1.6.07

Closed Ecological Human Life Support Systems as a Prototype of Lunar and Martian Settlements. Important Issues and Ways to Address Them

Prof. Iosif Gitelson, Russian Academy of Science-Siberian Branch, Krasnoyarsk, Russia

IAC-05-A1.6.08

EnviHab – A modularly designed ground-based habitat for scientific and medical studies –

Dr. Bernhard Koch, DLR, Cologne, Germany

Dr. Elke Rabbow, DLR German Aerospace Center, Koeln, Germany, Dr. Petra Rettberg, DLR German Aerospace Center, Koeln, Germany, Prof. Rupert Gerzer, DLR, Cologne, Germany

IAC-05-A1.6.09

Design of a Mars Habitat by an Interdisciplinary Working Group - Basic Concepts for Structure and Life Support System

Mr. Sebastian Heidrich, Space Research Group, Aachen, Germany

Mr. Christian Buettner, -, Aachen, Germany, Mr. Daniel Noelke, RWTH Aachen - Institut fuer Leichtbau, Aachen, Germany

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A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.7. Microgravity Combustion Science and Technology

Chairmen: Thomas J. Sutliff (United States), Ken'Ichi Ito (Japan)

Rapporteur: Christian Eigenbrod (Germany)

IAC-05-A2.7.01

Flame Spread of Fuel Droplet Array in a Fuel Vapor-Air Mixture

Mr. Yusuke Saganuma, Nihon University, narashino, Japan, Dr. Hiroshi Nomura, Nihon University, Narashino, Japan, Dr. Yasushige Ujii, Nihon University, narashino, Japan, Dr. Masao Kikuchi, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan, Mr. Shin Yamamoto, JAXA, Tsukuba, Japan,

IAC-05-A2.7.02

Microgravity combustion researches by utilizing the new 50M drop tower

Prof. Osamu Fujita, Hokkaido University, Sapporo, Japan

IAC-05-A2.7.03

Autoignition and Combustion of a Fuel Droplet Array at High Pressures under Microgravity

Dr. Daisuke Segawa, Osaka Prefecture University, Sakai, Osaka, Japan

Mr. Tomoki Kajikawa, Osaka Prefecture University, Sakai, Osaka, Japan, Mr. Shuichi Hirota, Osaka Prefecture University, Sakai, Osaka, Japan, Dr. Shinji Nakaya, Osaka Prefecture University, Sakai, Osaka, Japan, Prof. Toshikazu Kadota, Osaka Prefecture University, Sakai, Osaka, Japan

IAC-05-A2.7.04

Effect of Ambient Temperature on Flame Spread of an N-decane Droplet Array under Microgravity

Dr. Masao Kikuchi, Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan

Mr. Shin Yamamoto, JAXA, Tsukuba, Japan, Prof. Shinichi Yoda, JAXA, Tsukuba, Japan, Dr. Yuichiro Wakashima, National Institute of Advanced Industrial Science and Technology, Sendai, Japan, Prof. Masato Mikami, Yamaguchi University, Ube, Japan

IAC-05-A2.7.05

Diffusion Flame Extinguishment in Microgravity

Dr. Fumiaki Takahashi, National Center for Microgravity Research, Cleveland, United States

Dr. Gregory Linteris, National Institute of Standards and Technology, MD, United States, Dr. Viswanath Katta, Innovative Scientific Solutions, Inc., Dayton, Ohio, United States

IAC-05-A2.7.06

Effects of Varying Forced Convection on Single and Twin Droplets Combustion in Microgravity

Dr. Hideaki Kobayashi, Tohoku University, Sendai, Japan

Mr. Masaki Mitsuya, Tokyo Gas Corporation, Tokyo, Japan, Dr. Hironao Hanai, Chiba University of Science, Chiba, Japan, Mr. Satoru Sakurai, Tohoku University, Sendai, Japan, Dr. Yasuhiro Ogami, Tohoku University, Sendai, Japan

IAC-05-A2.7.07

Combustion Behavior of Single Fuel Droplets in Non-Uniform Electric Field under Microgravity

Mr. Osamu Imamura, The University of Tokyo, Tokyo, Japan

Mr. Isao Kume, The University of Tokyo, Tokyo, Japan, Mr. Muneatsu Kakinoki, The University of Tokyo, Tokyo, Japan, Mr. Jun Osaka, The University of Tokyo, Tokyo, Japan, Dr. Jun'ichi Sato, Ishikawajima-Harima Heavy Industries Co.,Ltd., Tokyo, Japan,

IAC-05-A2.7.08

Microgravity Research on Liquid Jet Instability

Mr. Akira Ihara, Nagoya University, Nagoya, Japan

Prof. Akira Umemura, Nagoya University, Nagoya, Japan

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A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.2.B. Solar System Exploration (Part 2)

Chairmen: Marc D. Rayman (United States), Luc Frecon (France)

Rapporteur: James Middleton (Canada)

IAC-05-A3.2.B.01

ESA's SMART 1 Mission to the Moon - Highlights of Results

Prof. Bernard H. Foing, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.2.B.02

Lunar Mission BW1 - Preliminary Design and Status of an All Electrical Small Satellite Mission to the Moon

Mr. Rene Laufer, Institute of Space Systems, Stuttgart, Germany

Prof. Hans-Peter Roeser, University of Stuttgart, Stuttgart, Germany

IAC-05-A3.2.B.03

Evaluation of Guidance and Control System of Unmanned Spacecraft for Precise Lunar Landing

Mr. Tetsujiro Ninomiya, ISTA/JAXA, Tokyo, Japan

Mr. Yoshiro Hamada, JAXA/ISTA, Tokyo, Japan, Mr. Kentaro Hayashi, Mistubishi Space Software Co. Ltd., Ibaraki, Japan, Dr. Yasuhiro Katayama, JAXA/ISTA, Tokyo, Japan, Dr. Shujiro Sawai, ISAS/JAXA, Kanagawa, Japan,

IAC-05-A3.2.B.04

Venus Express - Initial Science Observations at Venus

Mr. Raymond Hoofs, ESA/ESTEC, Amsterdam, Netherlands

Dr. Detlef Koschny, ESA/ESTEC, Noordwijk, Netherlands, Mr. Hakan Svedhem, ESA/ESTEC, Noordwijk, Netherlands, Dr. Dmitri Titov, Max-Planck Institut, Katlenburg-Lindau, Germany, Mr. Quirien Wijnands, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.2.B.05

BepiColombo - A Mission to Mercury

Mr. Jan van Casteren, ESA/ESTEC, Noordwijk ZH, Netherlands

IAC-05-A3.2.B.06

BepiColombo Mercury Magnetospheric Orbiter Design

Dr. Hiroshi Yamakawa, Japan Aerospace Exploration Agency, Sagamihara, Japan

IAC-05-A3.2.B.07

The Solar Orbiter

Mr. Aleksander Lyngvi, ESA/ESTEC, Noordwijk, Netherlands

Mr. Lothar Gerlach, ESA/ESTEC, noordwijk, Netherlands, Mr. Alex Jeanes, ESA/ESTEC, noordwijk, Netherlands, Dr. Richard Marsden, ESA/ESTEC, noordwijk, Netherlands, Mr. Alan Owens, ESA/ESTEC, noordwijk, Netherlands,

IAC-05-A3.2.B.08

Astrobiology: The First Decade

Mr. G. Scott Hubbard, NASA Ames Research Center, Moffett Field, CA, United States

IAC-05-A3.2.B.09

An innovative mechanical and control architecture for a biomimetic hexapod for planetary exploration

Mr. Marco Pavone, Scuola Superiore di Catania, Acicastello, Catania, Italy

IAC-05-A3.2.B.10

Geoen지니어ing as a Precursor to Terraforming

Mr. Angelo Grubisic, International Space University (ISU), Kildemminster, United Kingdom

Mr. Tobias Bittner, International Space University (ISU), Ottobrunn, Germany, Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands, Mr. Erik Clacey, International Space University (ISU), Järfälla, Sweden

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B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.3. Communication Satellite Infrastructure and Economics

Chairmen: Corinne Contant Jorgenson (United States), Willibald Riedler (Austria)

Rapporteur: Daniel Hernandez (France)

IAC-05-B3.3.01

Emerging Commercial Opportunities based on Combined Communication-Navigation Services*

Dr. Eberhard Gill, Deutsches Zentrum für Luft und Raumfahrt e.V. (DLR), Wessling, Germany

Mr. Brian M. Fox, The Boeing Company, Seal Beach, CA, United States, Mr. Joerg Kreisel, JOERG KREISEL International Consultant (JKIC), Aachen, Germany

IAC-05-B3.3.02

Space Technologies and Informatization of Russia

Mrs. Elena Radchuk, Gascom, Korolev, Russia

IAC-05-B3.3.03

Shifting the emphasis: from cost models to satellite utility or revenue models

Dr. Joseph Saleh, Massachusetts Institute of Technology, Cambridge, United States

Prof. Dava Newman, Massachusetts Institute of Technology, Cambridge, MA, United States, Mrs. Nicole C. Jordan, Massachusetts Institute of Technology, Cambridge, MA, United States

IAC-05-B3.3.04

Design of a Low-cost Microsatellite for Data-relay from the Dark Side of the Moon

Mr. Davide Tonini, Politecnico di Milano, Induno Olona (VA), Italy

Ing. Luca Derosa, Politecnico di Torino, Torino (TO), Italy, Mr. Ettore Scari, Politecnico di Milano, Sondrio, Italy

IAC-05-B3.3.05

A Satellite-Based Emergency Communications System

Mr. Otto Koudelka, Joanneum Research, Graz, Austria

IAC-05-B3.3.06

Satellite Communications for Tele-Medicine and Tele-Education

Mr. Otto Koudelka, Joanneum Research, Graz, Austria

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B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.5. Mobile Communications and Satellite Navigation

Chairmen: Calin Rosetti (France), Takashi Iida (Japan)

Rapporteur: Muthuda Gahalli Chandrasekhar (United States)

IAC-05-B3.5.01

Ku-Band Helicopter Satellite Communication System for Disaster Information Transmission

Dr. Yoshiyuki Fujino, National Institute of Information and Communications Technology, Ibaraki, Japan

Mr. Masaki Satoh, National Institute of Information and Communications Technology, Ibaraki, Japan, Dr. Amane Miura, National Institute of Information and Communications Technology, Kashima, Japan, Dr. Tadashi Minowa, National Institute of Information and Communications Technology, Kashima, Japan, Mr. Seiji Nagai, National Institute of Information and Communications Technology, Ibaraki, Japan,

IAC-05-B3.5.02 (WITHDRAWN)

Helicopter Flight Experiments of an Integrated Site Pointing System with GPS-Based Attitude Determination

Dr. Tadashi Minowa, National Institute of Information and Communications Technology, Kashima, Japan

Dr. Yoshiyuki Fujino, National Institute of Information and Communications Technology, Ibaraki, Japan, Mr. Masaki Satoh, National Institute of Information and Communications Technology, Ibaraki, Japan, Dr. Chujo Wataru, National Institute of Information and Communications Technology, Kashima, Japan

IAC-05-B3.5.03

A Space-Based Polar Augmentation System enabling for Truly Global Communication-Navigation Applications*

Dr. Eberhard Gill, Deutsches Zentrum für Luft und Raumfahrt e.V. (DLR), Wessling, Germany

Mr. Brian M. Fox, The Boeing Company, Seal Beach, CA, United States

IAC-05-B3.5.04

The GIANT Project

Mr. Miguel Aguilera, INECO, Madrid, Spain

Mr. Luis Chocano, INECO, Madrid, Spain, Mr. Javier Pérez, INECO, Madrid, Spain

IAC-05-B3.5.05

Enhancing the development of a particular network of aerodromes by using EGNOS

Mr. Xavier Prats, *Universitat Politècnica de Catalunya, Castelldefels, Spain*

Mr. Victor Alvarez, PiLDo Labs, Castelldefels, Spain, Mr. Santiago Soley, PiLDo Labs, Castelldefels, Spain

IAC-05-B3.5.06

Indoor and Urban Satellite Positioning Augmentation System based on UMTS

Mr. Francisco A. Lago, *University of Valladolid, Leon, Spain*

Mr. Juan Blas, University of Valladolid, Valladolid, Spain, Dr. Evaristo J. Abril, University of Valladolid, Valladolid, Spain, Dr. Ruben M. Lorenzo, University of Valladolid, Valladolid, Spain, Mrs. Ana Torre, Selfor Sistemas, Valladolid, Spain

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B4. Space Stations Symposium (IAF T.)

Coordinators: Carlo Mirra (*Netherlands*), Mag Iskander (*Canada*)

B4.5. Transportation to and from the ISS (Joint session with the Space Transportation Symposium)

Chairmen: James F. Buchli (*United States*), Luigi Bussolino (*Italy*)

Rapporteur: Raimondo Fortezza (*Italy*), Wang Xiajun (*China*)

IAC-05-B4.5-D2.7.02

Affordable, Reliable, Responsive Access to and from the ISS Using the K-1 Fully Reusable Aerospace Vehicle

Ms. Debra Facktor Lepore, *Kistler Aerospace Corporation, Kirkland, WA, United States*

IAC-05-B4.5-D2.7.04

A Concept Study of HTV Sample Return System

Mr. Tetsuo Hiraiwa, *JAXA/ISTA, Tsukuba, Ibaraki, Japan*

Mr. Kenji Fujii, *JAXA/ISTA, Chofu, Tokyo, Japan*, Mr. Atsushi Noda, *JAXA/ISTA, Ibaraki, Japan*, Mr. Koji Yamanaka, *JAXA, Tsukuba, Ibaraki-ken, Japan*

IAC-05-B4.5-D2.7.05

ISS Payload Retrieval System (PARES) - Concept of a Download System for Small and Medium ISS Payloads -

Dr. Stefan Voegt, *EADS Space Transportation, Bremen, Germany*

Mr. Thomas Walloschek, *EADS Space Transportation, Bremen, Germany*, Mr. Claus-Juergen Reimers, *ESA/ESTEC, Noordwijk, Netherlands*

IAC-05-B4.5-D2.7.06

HTV Development Status and Operation Plan

Mr. Hiroshi Sasaki, *Japan Aerospace Exploration Agency (JAXA), Tsukuba, Japan*

Mr. Osamu Kawasaki, *Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan*

IAC-05-B4.5-D2.7.08

Combined use of Shuttle and ELV to minimise number of Shuttle flights required for ISS assembly

Mr. Jakub Ryzenko, *Polish Space Office Institute of International Relations, Warsaw University, Warszawa, Poland*

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B5. Small Satellite Missions Symposium (IAA 4.11.)

Coordinators: Rhoda Shaller Hornstein (*United States*), Rainer Sandau (*Germany*)

B5.6.B. Design and Technology for Small Satellites (Part 2)

Chairmen: Philip Davies (*United Kingdom*), Richard Holdaway (*United Kingdom*)

IAC-05-B5.6.B.01

Road map of small satellite in JAXA

Mr. Matsuaki Kato, *Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan*

Mr. Shinichiro Takayama, *Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan*, Dr. Yosuke Nakamura, *Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan*, Mr. Keisuke Yoshihara, *JAXA, Tsukuba-shi, Japan*, Mr. Hidekazu Hashimoto, *Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan*

IAC-05-B5.6.B.02

Nanosat: A Spacecraft for Technology Demonstration

Dr. Alfred Ng, *Canadian Space Agency, St-Hubert, Canada*

Mr. Levesque Daniel, *Canadian Space Agency, St Hubert, QC, Canada*, Dr. Linh-Ngo Phong, *Canadian Space Agency, St Hubert, QC, Canada*, Dr. Wanping Zheng, *Canadian Space Agency, St Hubert, QC, Canada*

IAC-05-B5.6.B.03

Pico and Nano Satellite Technologies at the TU-Berlin

Dr. Hakan Kayal, *Technical University Berlin, Berlin, Germany*

Dr. Klaus Briess, *Technical University Berlin, Berlin, Germany*

IAC-05-B5.6.B.04

Self-assembling Wireless Autonomous Reconfigurable Module Design Concept

Ms. Shuonan Dong, *Massachusetts Institute of Technology, Cambridge, United States*

IAC-05-B5.6.B.05

An Overview and Initial In-Orbit Status of INDEX Satellite

Dr. Yosuke Fukushima, *ISAS/JAXA, Kanagawa, Japan*

Dr. Hirobumi Saito, *ISAS/JAXA, Kanagawa, Japan*, Dr. Takahide Mizuno, *ISAS/JAXA, Kanagawa, Japan*, Dr. Seisuke Fukuda, *ISAS/JAXA, Kanagawa, Japan*, Dr. Shinichiro Sakai, *ISAS/JAXA, Kanagawa, Japan*

IAC-05-B5.6.B.06

Development of pico-satellite Cute-1.7 and its current status

Mr. Katsutoshi Imai, *Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan*

IAC-05-B5.6.B.07

Prisma - Demonstration Mission for Advanced Rendezvous and Formation Flying Technologies and Sensors

Mr. Staffan Persson, *Swedish Space Corporation, Solna, Sweden*

Mr. Björn Jacobsson, *Swedish Space Corporation, Solna, Sweden*

IAC-05-B5.6.B.08

SOHLA-1 - A Low cost satellite development with technology transfer program of JAXA

Dr. Yosuke Nakamura, Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan

Mr. Hidekazu Hashimoto, Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan

IAC-05-B5.6.B.09

Little GEO Satellite Design - LUX

Mr. Martin Kassebom, OHB-System AG, Bremen, Germany

Mr. Dominik Lang, OHB-System AG, Bremen, Germany,

Mr. Bent Ziegler, OHB-System AG, Bremen, Germany, Mr.

Carsten Tobehn, OHB-System AG, Bremen, Germany, Mr.

Andreas Gehlenborg, OHB-System AG, Bremen, Germany

IAC-05-B5.6.B.10

Ultra-low-cost radar

Mr. Philip Davies, Surrey Space Centre, Guildford, Surrey, United Kingdom

Mr. Alex da Silva Curiel, Surrey Satellite Technology

Limited, Guildford, Surrey, United Kingdom, Dr. Stuart

Eves, Surrey Satellite Technology Ltd., Guildford, United

Kingdom, Mr. Kevin Morgan, Surrey Satellite Technology

Limited, Guildford, United Kingdom, Mr. A P Thompson,

Astrium Ltd., Portsmouth, United Kingdom,

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B6. Space Debris Symposium (IAA 5.12.)

Coordinators: Nicholas L. Johnson (United States), Walter Flury (Germany)

B6.3. Mitigation and Standards

Chairmen: W. John Hussey (United States), Christophe Bonnal (France)

Rapporteur: Carsten Wiedemann (Germany)

IAC-05-B6.3.01

Are de-Orbiting Missions Possible using Electrodynamic Tethers? Review from the Space Debris Perspective

Mrs. Carmen Pardini, ISTI-CNR, Pisa, Italy

Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan,

Mr. Luciano Anselmo, ISTI-CNR, Pisa, Italy, Dr. Hiroshi

Hirayama, Kyushu University, Fukuoka, Japan

IAC-05-B6.3.02

Deorbitation of small CNES satellites

Mr. Pierre W. Bousquet, CNES, Toulouse, France

IAC-05-B6.3.03

Development status of active space debris removal system

Dr. Shin-ichiro Nishida, JAXA/ISTA, Chofu, Japan

Ms. Satomi Kawamoto, JAXA/ISTA, Tokyo, Japan,

Dr. Yasushi Okawa, Japan Aerospace Exploration Agency

(ISTA/JAXA), Chofu, Tokyo, Japan, Mr. Shoichi Yoshimura,

JAXA/ISTA, Tokyo, Japan, Dr. Fuyuto Terui, JAXA/ISTA,

Chofu, Japan,

IAC-05-B6.3.04

Active extermination of space debris in near-Earth space orbits

Mr. Yunir V. Gataullin, Ruhr-University Bochum, Tashkent, Uzbekistan

IAC-05-B6.3.05

Kalman Filter Approach for Re-Entry Predictions of Risk Objects with K-S Element Equations

Dr. Ram Krishnan Sharma, ISRO, Thiruvananthapuram, India

Dr. A.K. Anilkumar, Vikram Sarabhai Space Center, Trivandrum, India

IAC-05-B6.3.06

The Object Reentry Survival Analysis Tool (ORSAT) – Version 6.0

Mr. Jose Dobarco-Otero, Jacobs Sverdrup, Houston, Texas, United States

Ms. Kristin Bledsoe, Georgia Institute of Technology, At-

lanta, GA, United States, Ms. Rachel De Laune, Louisiana

State University, Baton Rouge, LA, United States, Mr.

Nicholas L. Johnson, NASA, Houston, TX, United States,

Mr. William Rochelle, Jacobs Sverdrup, Houston, Texas,

United States,

IAC-05-B6.3.07

The Historical Effectiveness of Space Debris Mitigation Measures

Mr. Nicholas L. Johnson, NASA, Houston, TX, United States

IAC-05-B6.3.08

Implementation of Space Debris Mitigation Guidelines at CNES

Mr. Fernand Alby, CNES, Toulouse, France

IAC-05-B6.3.09

ISO Standards: The Next Step for Orbital Debris Mitigation

Dr. William Ailor, Aerospace Corporation, El Segundo, CA, United States

Dr. Emma Taylor, -, Baldock, United Kingdom

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October 20 2005, 14:30 - 409

C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.7. Mission Operations

Chairmen: Veniamin V. Malyshev (Russia), Therese Donath (France)

Rapporteur: Ming Li (China)

IAC-05-C1.7.01

Launch window analysis for KALPANA-1

Mr. Kiran B.S., ISRO, Bangalore, India

IAC-05-C1.7.02

Analyses of Remote Sensing Mission Scenarios with Electric Propulsion

Ms. Stefania Cornara, DEIMOS Space S.L., Tres Cantos, Madrid, Spain

Mr. Fabrizio Pirondini, DEIMOS Space S.L., Tres Cantos

(Madrid), Spain, Mr. Augusto Caramagno, DEIMOS Space,

Tres Cantos, Madrid, Spain, Mr. Michael E. Price, Qinetiq,

Farnborough, Hampshire, United Kingdom, Mr. Jose Gonza-

lez del Amo, ESA/ESTEC, Noordwijk, Netherlands,

IAC-05-C1.7.03

Orbit determination of HAYABUSA from the launch to the asteroid arrival

Dr. Makoto Yoshikawa, JAXA, Sagamihara, Japan
Dr. Takaji Kato, JAXA, Sagamihara, Japan, Mr. Tsutomu Ichikawa, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan, Dr. Hiroshi Yamakawa, Japan Aerospace Exploration Agency, Sagamihara, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan,

IAC-05-C1.7.04

Basic Angle Monitoring for Gaia

Mrs. Joke van Vugt, University of Leiden, The Hague, Netherlands

IAC-05-C1.7.05

BepiColombo – Navigation Study of a Low-Thrust Interplanetary Mission

Mr. Daniel Garcia Yarnoz, GMV S.A., Darmstadt, Germany
Mr. Michael Croon, ESA/ESOC, Darmstadt, Germany, Mr. Rudiger Jehn, ESA/ESOC, Darmstadt, Germany

IAC-05-C1.7.06

Optimal Time before AOCS Wheels Slow Down

Prof. Magne Aarset, Statcon as, Oslo, Norway

IAC-05-C1.7.07 (WITHDRAWN)

Insertion of Calipso into the A-Train Constellation: Operational Results and Lessons

Dr. Francois Dufour, CNES, Toulouse, France
Mrs. Corinne Salcedo, CNES, Toulouse, France, Mrs. Véronique Piou, CNES, Toulouse, France

IAC-05-C1.7.08

Methods for the Orbit Determination of Tethered Satellites in the Project QPS

Dr. Yuji Sakamoto, Q-shu Piggyback Satellite (QPS), Fukuoka-shi, Japan
Mr. Kazuhiko Yotsumoto, Kyushu University, Fukuoka-shi, Japan, Mr. Kazunori Sameshima, Kagoshima University, Kagoshima-shi, Japan, Prof. Masanori Nishio, Kagoshima University, Kagoshima-shi, Japan, Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan

IAC-05-C1.7.09

Further Applications of the Smallest Loss Criterion in the Multiobjective Optimization of a Satellite Constellation

Dr. Evandro Marconi Rocco, Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil
Dr. Marcelo Lopes de Oliveira e Souza, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil, Dr. Antonio Prado, National Institute of Space Research (INPE), Sao Jose dos Campos, Brazil

IAC-05-C1.7.10

Spatial and Temporal Measurement of Global Atmospheric Density with the Iridium Constellation

Mr. Ryan W. Shepperd, The Boeing Company, Leesburg, VA, United States

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C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.6. Space Vehicles - Mechanical/Thermal/Fluidic Systems

Chairmen: Oleg M. Alifanov (Russia), Mario Marchetti (Italy)
Rapporteur: Guoliang Mao (China)

IAC-05-C2.6.01

The Design and Test for Window Thermal Protection and Sealed Structure of "SHENZHO" Spacecraft

Prof. Guoting Wu, Chinese Academy of Space Technology (CAST), Beijing, China

IAC-05-C2.6.02

The Solar Orbiter Thermal Design

Mr. Aleksander Lyngvi, ESA/ESTEC, Noordwijk, Netherlands
Dr. Anthony Peacock, ESA/ESTEC, noordwijk, Netherlands, Mr. Nicola Rando, ESA/ESTEC, noordwijk, Netherlands

IAC-05-C2.6.03

Space Simulation: Designing Update Tools for Spacecraft Thermal Vacuum Tests

Dr. Jose Sergio Almeida, National Institute of Space Research (INPE), São José dos Campos - SP, Brazil

IAC-05-C2.6.04

Numerical and Experimental Studies on Circulation of Working Fluid in Liquid Droplet Radiator

Dr. Tsuyoshi Totani, Hokkaido University, Sapporo, Japan
Mr. Takuya Kodama, Hokkaido University, Sapporo, Japan, Mr. Kensuke Watanabe, Hokkaido University, Sapporo, Japan, Mr. Kota Nanbu, Hokkaido University, Sapporo, Japan, Associate Professor Harunori Nagata, Hokkaido University, Sapporo, Japan,

IAC-05-C2.6.05

The Multipurpose Expandable Module Concept for future Space missions and overall description on the material validation

Mr. Sandro Mileti, University of Rome La Sapienza, Rome, Italy
Prof. Mario Marchetti, University of Rome "La Sapienza", 00184 Rome, Italy, Ms. Grazia Bitetti, University of Rome "La Sapienza", Rome, Italy

IAC-05-C2.6.06

Multidimensional Heat Flux Prediction From Surface Heating Rate Data with DFT Error Analysis

Dr. J.I. Frankel, University of Tennessee, Knoxville, TN, United States

IAC-05-C2.6.07

A Method for Identifying Thermal Characteristics of Aerospace Anisotrope Composite Materials

Prof. Oleg M. Alifanov, Moscow Aviation Institute, Moscow, Russia

IAC-05-C2.6.08

Three-dimensional Finite Element Analysis on The Connecting Structure between Back-joint and Fixed body of Solid Rocket Motor

Ms. Yu Fan, Academy of Aerospace Propulsion Technology, CASC, Xi an, China

IAC-05-C2.6.09

Hot structures applications for next generation RLV's – the ASA program status and its possible evolution

Mr. F.A. Fossati, Alenia Spazio, Torino, Italy

IAC-05-C2.6.10

Small Thermal Vacuum Chamber for Measurements of Thermal Contact Resistance and Thermal Conductivity

Dr. Ezio Castejon Garcia, Instituto Tecnológico de Aeronáutica – ITA – IEM, São José dos Campos, Brazil

Ms. Carina Furusho, Instituto Tecnológico de Aeronáutica – ITA – IEM, São José dos Campos, Brazil, Dr. Marcio Bueno dos Santos, INPE, São José dos Campos, SP, Brazil, Mrs. Rosemary Demori, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil

IAC-05-C2.6.11

Lessons learned from the Recovered Heatshield of the USERS REV Capsule

Dr. Tetsuya Yamada, Institute of Space and Astronautical Sciences (ISAS), Sagamihara, Kanagawa, Japan

Mr. Seiji Matsuda, IHI Aerospace Co, Ltd., Tomioka, Gumma, Japan, Mr. Sumio Kato, Kawasaki Heavy Industry Co., Gifu, Japan, Prof. Yoshifumi Inatani, JAXA, Kanagawa, Japan

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C3. Space Power Symposium (IAF R.)

Coordinators: John C. Mankins (United States)

C3.5. Space Nuclear Power and Propulsion (Joint session with the Space Propulsion Symposium)

Chairmen: Harvey J. Willenberg (United States), Giorgio Saccoccia (Netherlands)

Rapporteur: Wolfgang Seboldt (Germany)

IAC-05-C3.5-C4.7.01

Technologies and Concepts for Nuclear Fission Systems for Space Power and Propulsion Applications

Mr. Samit K. Bhattacharyya, RENMAR Enterprises, Inc, Naperville, United States

IAC-05-C3.5-C4.7.02

Physics of Nuclear Propulsion – An Introduction

Prof. Claudio Bruno, University of Rome La Sapienza, Rome, Italy

IAC-05-C3.5-C4.7.03

Nuclear thermal rocket propulsion system

Prof. Timothy J. Lawrence, U.S. Air Force Academy, Colorado Springs, CO, United States

IAC-05-C3.5-C4.7.04

The application of ion thrusters to high thrust, high specific impulse nuclear-electric missions

Dr. David G. Fearn, EP Solutions, Fleet, Hans, United Kingdom

IAC-05-C3.5-C4.7.05

High Power and High Thrust Density Electric Propulsion for In-Space Transportation

Mrs. Monika Auweter-Kurtz, Institute of Space Systems, Stuttgart, Germany

IAC-05-C3.5-C4.7.08

The Utility of Nuclear Power and Propulsion For Commercially Viable Lunar and Mars Exploration

Mr. Roger X. Lenard, Sandia National Laboratories, Albuquerque, NM, United States

IAC-05-C3.5-C4.7.09

Russian Experience in Development and Testing of Nuclear Power Systems and Nuclear Thermal Propulsion Systems of the First Generation as the Basis for Development of Advanced Power and Propulsion Complexes for Peaceful Exploration of Near and Deep Space

Mr. Nikolai N. Ponomarev-Stepnoi, Federal State Institution Russian Research Center Kurchatov Institute, Moscow, Russia

Mr. Veniamin A. Usov, Federal State Institution Russian Research Center Kurchatov Institute, Moscow, Russia

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C4. Space Propulsion Symposium (IAF S.)

Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.7. Space Nuclear Power and Propulsion (Joint session with the Space Power Symposium)

Chairmen: Harvey J. Willenberg (United States), Giorgio Saccoccia (Netherlands)

Rapporteur: Wolfgang Seboldt (Germany)

IAC-05-C3.5-C4.7.06

Nuclear Safety, Legal Aspects and Policy Recommendations

Mr. Roger X. Lenard, Sandia National Laboratories, Albuquerque, NM, United States

IAC-05-C3.5-C4.7.07

A Laser Fusion Rocket based on Fast Ignition Concept

Dr. Hideki Nakashima, Kyushu University, Kasuga City, Japan

Dr. Yoshihiro Kajimura, Kyushu University, Fukuoka, Japan, Yasuji Kozaki, Osaka University, Osaka, Japan, Dr. Yuri Zakharov, Russian Academy of Science-Siberian Branch, Moscow, Russia

D1. Space Systems Symposium (IAF U.)

Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.5. Lessons Learned in Space Systems

Chairmen: David Y. Kusnierkiewicz (United States), Marco Guglielmi (Netherlands)

Rapporteur: Jean-Paul Aguttes (France)

IAC-05-D1.5.01**Training Needs for Preparing Spacecraft Operations: An Operations Engineer's Perspective**

Mr. Filippo De Rose, VEGA Group, Darmstadt, Germany

IAC-05-D1.5.02**Human Error Analysis in JEM Development and Pre-Launch Activity**

Mr. Yoshihiko Uemura, Japan Aerospace Exploration Agency, Tsukuba-shi, Japan

Mr. Hiroki Furihata, Japan Aerospace Exploration Agency, Ibaraki-ken, Japan, Mr. Yoshiyuki Hasegawa, Japan Aerospace Exploration Agency, Ibaraki-ken, Japan

IAC-05-D1.5.03**Interaction between Lessons Learned and Risk Management in the ESA Scientific Projects.**

Ms. Maria-Gabriella Sarah, ESA/ESTEC, Noordwijk, Netherlands

Mr. Jacques Louet, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D1.5.04**Operations-Based Lessons Learned for Space Telerobotics System Design**

Mr. Timothy Braithwaite, Canadian Space Agency, Houston, Texas, United States

Mr. Sarmad Aziz, Canadian Space Agency, Houston, TX, United States

IAC-05-D1.5.05**Comparison of predicted SEU rate and observed value on COTS Memories**

Mr. Koichiro Takeuchi, Mitsubishi Electric Corporation, Kamakura, Japan

Mr. Hiroshi Kinoda, Mitsubishi Electric Corporation, Kamakura, Japan, Dr. Masatsugu Akiyama, Institute for Unmanned Space Experiment Free Flyer (USEF), Tokyo, Japan

IAC-05-D1.5.06**Software Engineering Practices at SDSC Shar Range for Reliable Software Development - an Overview**

Mr. S.S. Balakrishnan, ISRO Headquarters, Bangalore, India

Real time performance monitoring Vellanki Seshagiri Rao, ISRO, Sriharikota, India

IAC-05-D1.5.07**A tool to support the patent process: The patent decision tree**

Mr. Philippos Beveratos, ESA, Noordwijk, Netherlands

Mr. Marco Freire, ESA/ESTEC, Noordwijk, Netherlands,

Mr. Marco Guglielmi, ESA/ESTEC, Noordwijk, Netherlands

D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.7. Transportation to and from the ISS (Joint session with the Space Station Symposium)

Chairmen: James F. Buchli (United States), Luigi Bussolino (Italy)

Rapporteur: Raimondo Fortezza (Italy), Wang Xiajun (China)

IAC-05-B4.5-D2.7.01**Cooperation - International Space Station Use Activation Basis**

Mr. Yury Korotky, Khrunichev State Research Production Space Center, Moscow, Russia

IAC-05-B4.5-D2.7.03**Project Of Ariane 5 Family Advancement By Use Of Reusable Fly-Back Boosters (named "Bargouzine")**

Dr. Yuriy Sumin, TSNIMASH, Korolev, Russia

Mr. Nikolai Panichkin, TSNIMASH, Korolev, Moscow Region, Russia, Mr. Sergey F. Kostromin, TSNIMASH, Korolev, Moscow Region, Russia, Mr. Christophe Bonnal, CNES, Evry, France

IAC-05-B4.5-D2.7.07**MSV - Manned Space Vehicle - A New Capsule for 6 Astronauts**

Mr. Andreas Kruselburger, Technical University of Munich, Stein, Germany

D4. Symposium on The Far Future: Renewed Visions (IAA 3.8.)

Coordinators: George W. Morgenthaler (United States), Hans E.W. Hoffmann (Germany)

D4.3. Space Elevators and Advanced Tethers: Applications and Impacts

Chairmen: Peter A. Swan (United States), David Raitt (Netherlands)

Rapporteur: Bradley C. Edwards (United States)

IAC-05-D4.3.01**Results From the First Annual Space Elevator Climber Competition**

Dr. Bradley C. Edwards, Carbon Designs, Inc., Bridgeport WV, United States

Mr. Ben Sheref, Spaceward Organization, Mountain View, United States

IAC-05-D4.3.02**The Space Elevator: Historical and Future Perspectives**

Dr. David Raitt, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-D4.3.03

Systems Engineering for the Space Elevator - Complexity

Dr. Laura Pullum, Institute for Scientific Research, Inc., Fairmont, WV, United States

Dr. Peter A. Swan, Teaching Science and Technology, Inc., Paradise Valley, AZ, United States

IAC-05-D4.3.04

Analytic Model of Dynamic Response of Proposed Space Elevator to Anchor Point Repositioning

Dr. Steven Patamia, Los Alamos National Laboratory, Los Alamos, NM, United States

Dr. Anders M. Jorgensen, Los Alamos National Laboratory, Los Alamos, NM, United States

IAC-05-D4.3.05

Space Elevator Interaction With the Space Environment: Numerical Simulations

Dr. Anders M. Jorgensen, Los Alamos National Laboratory, Los Alamos, NM, United States

Dr. Steven Patamia, Los Alamos National Laboratory, Los Alamos, NM, United States

IAC-05-D4.3.06

Survey of Proposed Tethered Systems for Debris Removal in Space

Dr. Violet Barghe-Sharghi, Aerospace Corporation, El Segundo, United States

Dr. Vladimir A. Chobotov, The Aerospace Corporation, El Segundo, CA, United States, Dr. Lawrence Palkovic, -, El Segundo, United States

IAC-05-D4.3.07

Anchoring Dynamic Problems for Orbital Tether Systems

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

IAC-05-D4.3.08

Exponential Tethers, a Detailed Evaluation

Mr. B Gassend, Massachusetts Institute of Technology, Cambridge, MA, United States

IAC-05-D4.3.09

Tether injection of a satellite into a higher orbit

Ms. Ana Blasco, Universidad Politécnic de Madrid, Madrid, Spain

IAC-05-D4.3.10

Testing of a cold gas deployment system for a tape tether

Mr. Steven van de Heijning, Delft University of Technology, Delft, Netherlands

Mr. Marcel Kwakkel, Delft University of Technology, Delft, Netherlands, Mr. Emile Arens, Delft University of Technology, Delft, Netherlands, Mr. Robin Raus, Delft University of Technology, Delft, Netherlands, Prof. Barry Zandbergen, Delft University of Technology, Delft, Netherlands

E1. Space Education and Outreach Symposium (IAF P.)

Coordinators: Pierre-Louis Contreras (France)

E1.4. Beyond Education

Chairmen: Piero Messina (France), Jean-Daniel Dessimoz (Switzerland)

Rapporteur: Felicity Holland (United Kingdom)

IAC-05-E1.4.01

Web-based Knowledge-Sharing Portal on Space Applications for Development

Mr. Nicolas Peter, George Washington University, Washington, United States

Ms. Gérardine Meishan Goh, University of Leiden, Oegstgeest, Netherlands, Mrs. Nadia Afrin, Development Gateway Foundation, Washington DC, United States

IAC-05-E1.4.02

A Space-Themed Videogame To Deliver Education and Inspiration To Space In the Canale Web Aerospaziale

Dr. Luigi Scatteia, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

Mr. Giuseppe Persechino, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

IAC-05-E1.4.03

Anti-Gravitas: Using the arts to engage a broad public

Ms. Nicola Triscott, The Art Catalyst, Tynbee Studios, London, United Kingdom

Mr. Rob La Frenais, The Arts Catalyst, London, United Kingdom

IAC-05-E1.4.04

Yuri's Night, the First 5 Years

Mr. Timothy Bailey, Space Generation Foundation, Hallandale Beach, United States

Ms. Loretta Hidalgo, Space Generation Foundation, Washington, D.C., United States, Mr. Kirk Kittell, University of Illinois at Urbana-Champaign, Urbana, IL, United States

IAC-05-E1.4.05 (WITHDRAWN)

Space Advocacy: Internal Networking and Public Education.

Mrs. Yvonne Penney, Canadian Aeronautics Space Institute (CASI), Etobicoke, On, Canada

IAC-05-E1.4.06

EDUCA SeRe II PROJECT - CD ROM for remote sensing education- Brazilian and South American Capitals

Ms. Tania Maria Sausen, National Institute of Space Research (INPE), Sao Jose dos Campos, Brazil

Dr. Sandra Maria Fonseca da Costa, UNIVAP University, São José dos Campos, SP, Brazil, Dr. Angelica Carvalho Di Maio, UNIVAP University, São José dos Campos, SP, Brazil, Dr. Bernardo Theodor Rudorff, National Institute of Space Research (INPE), São José dos Campos, SP, Brazil

IAC-05-E1.4.07

Promising Future Directions beyond Education for University Nano-Satellites Projects

Ms. Rei Kawashima, University Space Engineering Consortium, Tokyo, Japan

Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan, Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan

IAC-05-E1.4.08

Master-class – integration of knowledge round a global problem

Mr. Igor Kurkin, Moscow Aviation Institute (State Technical University), Moscow, Russia

Ms. Serafima Zhdanova, Liceum 1560, Moscow, Russia, Moscow, Russia, Mr. Vadim Terentyev, Moscow Aviation Institute (State Technical University), Moscow, Russia, Ms. Elena Mihaylova, Liceum 1560, Moscow, Russia, Moscow, Russia, Ms. Raisa Prokopovitch, Liceum 1560, Moscow, Russia, Moscow, Russia,

IAC-05-E1.4.09

"Camp on Mars": an Astrobiology Outreach Camp in Nerva

Mr. Jaime Lopez-Cerezo, Escuela Técnica Superior de Ingenieros Aeronáuticos, Madrid, Spain

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E3. Symposium on Space Exploration: Policy, Economic and Legal Issues (IAA 5.13.)

Coordinators: Gérard Brachet (France), John M. Logsdon (United States)

E3.3. The Economics of Space Exploration, Are There Commercial Opportunities?

*Chairmen: Patrick Eymar (France), Patrick Collins (Japan)
Rapporteur: Kazuto Suzuki (Japan)*

IAC-05-E3.3.01

Private Equity Investments Beyond Earth Orbits: Can Space Exploration be the New Frontier for Private Investments?

Mr. Jeph Mathurin, Aperture Financial, Rockville, MD, United States

Mr. Nicolas Peter, George Washington University, Washington, United States

IAC-05-E3.3.02

The Role and Capacity of the Public and private sectors as contributors to future commercial opportunities in Space Exploration

Ms. Joan Harvey, Canadian Space Agency, Saint Hubert, Canada

IAC-05-E3.3.03

Potential Approach Towards Private Sector-Backed Future Space Exploration

Mr. Joerg Kreisel, JOERG KREISEL International Consultant (JKIC), Aachen, Germany

IAC-05-E3.3.04

Relevance of Economic Data in the Pursuit of Orbital Launch Vehicle Programs, a U.S. Perspective

Dr. Henry Hertzfeld, George Washington University, Washington, United States

IAC-05-E3.3.05

Space Application Possibilities from JAXA Advanced Research and Development Activity

*Mr. Toshihiko Oida, JAXA/ISTA, Chofu-shi, Japan
Mr. Norimitsu Kamimori, JAXA/ISTA, Chofu-shi, Japan,
Mr. Takeshi Hoshino, JAXA/ISTA, Chofu-shi, Japan*

IAC-05-E3.3.06

The Peer-to-Peer Financing Opportunity: The Information Revolution's Dramatic Impact on Private Investment in Space Technologies Incubated within Governments

Mr. Roscoe Moore III, PeerSat, Inc., Silver Spring, MD, United States

IAC-05-E3.3.07

The Need for Global or Reciprocal Patent Protection for the Commercialisation of Technologies Discovered or Utilised in Outer Space

Mr. Ricky Lee, Ricky J. Lee Associates, Halifax Street SA, Australia

IAC-05-E3.3.08

Economic Development of Space: Examination and Simulation

Mr. A.C. Charania, SpaceWorks Engineering, Inc. (SEI), Atlanta, United States

Dr. John Bradford, SpaceWorks Engineering, Inc. (SEI), Atlanta, United States, Dr. John Olds, SpaceWorks Engineering, Inc. (SEI), Atlanta, United States

IAC-05-E3.3.09

Economics and Management of a Terraforming Project

Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands

Mr. Tobias Bittner, International Space University (ISU), Ottobrunn, Germany, Mr. Erik Clacey, International Space University (ISU), Järfälla, Sweden, Mr. Aaron Gronstal, International Space University (ISU), Carroll, United States, Mr. Angelo Grubisic, International Space University (ISU), Kiddeminster, United Kingdom,

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E4. History of Astronautics Symposium (IAA 6.15.)

Coordinators: Christophe Rothmund (France), Yasunori Matogawa (Japan), George James (United States)

E4.3. Scientific and Technical Reviews

Chairmen: Kerrie Dougherty (Australia), Philippe Jung (France)

Rapporteur: John Harlow (United Kingdom), Julius Braun (United States)

IAC-05-E4.3.01

History of development of hydrogen peroxide LPRE at NPO Energomash

Mr. Sudakov Vladimir, NPO Energomash, Khimky Moscow area, Russia

Dr. Igor Fatuev, NPO Energomash, Khimky, Moscow region, Russia, Mr. Valery Arkhangelsky, NPO Energomash, Moscow, Russia

IAC-05-E4.3.02

VE 210 RUBIS: Super Sounding Rocket on the Road to Space

Mr. Philippe Jung, AAAF, Grasse, France

IAC-05-E4.3.03

Upper Atmospheric Research at Woomera: the Australian Sounding Rockets

Ms. Kerrie Dougherty, Power House Museum, Haymarket, NSW, Australia

IAC-05-E4.3.04

Experimental SIRIJ Rocket Program by ARSC

Mr. Aleksander Kerstein, CM-Celje, Celje, Slovenia
Prof. Drago Matko, University of Ljubljana, Ljubljana, Slovenia, Ing Amalija Trauner Kerstein, Ministry of Environment, Planning and Energetics, Ljubljana, Slovenia

IAC-05-E4.3.05

60 Years of Rocket Engine Test Facilities at SNECMA Moteurs

Mr. Christophe Rothmund, Snecma, Vernon, France

IAC-05-E4.3.06

28 Years of Apogee Kick Motors Application in china, 1976-2004

Mr. Ruan Chongzhi, Academy of Solid Propulsion Technology, Xian, China

IAC-05-E4.3.07

French solid motors for missiles and rockets, from WWII to the Sixties

Mr. Jean-Jacques Serra, AAAF, Font Romeu, France
Mr. Philippe Jung, AAAF, Grasse, France

IAC-05-E4.3.08

The Industrial Space Organization in Soviet Union-Russia (from the beginning till now)

Mr. Christian Lardier, Air Cosmos, Paris, France

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October 20 2005, 17:30 - Marine Messe 2F

A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.P. Poster Session on Life Sciences

Rapporteur: Ronald J. White (United States), Inessa Kozlovskaya (Russia)

IAC-05-A1.P.01

The importance of the study of sexuality for establishing a peaceful human society in space.

Dr. Tsuyoshi Shimizu, Suwa Maternity Clinic, Shimo-suwa-machi, Japan

Prof., Dr. Akihiro Hazama, Dept. of Physiol., Fukushima Medical University School of Medicine, Fukushima, Japan, Dr. Kaori Kamijo, Obstetrics Gynecology, Suwa Maternity Clinic, Simosuwa-machi, Japan, Dr. Yahiro Netsu, Obstetrics Gynecology, Suwa Maternity Clinic, Shimo-suwa-machi, Japan, Dr. Masao Yamasaki, Dept. of Physiol., Fukushima Medical University School of Medicine, Fukushima, Japan,

IAC-05-A1.P.02

Preliminary study of the physiological demands of Mars analogue extravehicular activity

Mr. Kenneth Pizzolitto, University of Waterloo, Guelph, Canada
Dr. Richard Hughson, University of Waterloo, Waterloo, Canada

IAC-05-A1.P.03

Past, present and future life support systems and technologies comparison

Mr. Xavier Andreu Vidal, Esa Student Participation Programme, Barcelona, Spain

IAC-05-A1.P.04

Study of Air Revitalization and Water Electrolysis System For Small Satellite Orbital Demonstration

Mr. Sakurai Masato, JAXA, Tokyo, Japan

IAC-05-A1.P.05

Life Originates on Primitive Earth or on Other Planets in Space is still a Subject of Controversy

Dr. Brij Tewari, University of Guyana, Georgetown, Guyana

IAC-05-A1.P.06

A novel portable on-line biomolecules analyzer and its application in rapid and automatic detection of a trace small molecule

Mrs. Chunyan Wang, Institute of Space Medico-Engineering, Beijing, China

Dr. Yinghui Li, Institute of Space Medico-Engineering, Beijing, China, Mr. Jianghui Xiong, Institute of Space Medico-Engineering, Beijing, China, Mr. Yingjun tan, Institute of Space Medico-Engineering, Beijing, China, Dr. Tangbin Yang, Institute of Space Medico-Engineering, Beijing, China,

IAC-05-A1.P.07

Proposed study investigating the role of Ramipril in attenuating orthostatic hypotension.

Mr. Iqbal Toor, University of Birmingham, Birmingham, United Kingdom

IAC-05-A1.P.08

Main Directions of the Russian/Japanese Cooperation

Mr. Mark Belakovskiy, Institute for Biomedical Problems, Moscow, Russia

IAC-05-A1.P.09

Analysis of the Nan channel homologue from the crab *Carcinus maenas* and the nematode *Caenorhabditis elegans*

Mr. Roberto Araujo, University of Aberdeen, Aberdeen, United Kingdom

IAC-05-A1.P.10

Is Gravity involved in the Postnatal Developments of Heart Rate Variability?

Dr. Shunji Nagaoka, Fujita Health University School of Health Sciences, Toyoake, Aichi, Japan

Ms. Yuko Eno, Fujita Health University School of Health Sciences, Toyoake, Aichi, Japan, Mr. Yoshiaki Shindo, Fujita Health University School of Health Sciences, Toyoake, Aichi, Japan, Dr. Yasuhiro Itoh, Fujita Health University School of Health Sciences, Toyoake, Aichi, Japan, Dr. Hiroko Nomura, Fujita Health University School of Health Sciences, Toyoake, Aichi, Japan,

IAC-05-A1.P.11

The Attachment Theory as a possible approach for astronaut selection

Mrs. Plastina Ida Roberta, Università di Roma "La Sapienza", Luzzi (CS), Italy
Prof. Mazzoni Silvia, Università di Roma "La Sapienza", Roma, Italy

IAC-05-A1.P.12

Engineering a Cross-cultural Communication Program for Mars Missions

Mrs. Regina North, USRA/NASA Johnson Space Center, Houston, United States

IAC-05-A1.P.13

Mathematical Model of the Interpersonal Conflict on the Spacecraft during Long Mission

Ms. Ludmila Prisniakova, Academy of Sciences of Ukraine, Dnipropetrovsk, Ukraine

IAC-05-A1.P.14

The Control of Astronaut's Personal Psychological State at Transition to Conditions of Long Duration Space Flight

Dr. Olena Padashulya, International Academy of Management by Personnel, Dnipropetrovsk, Ukraine

Prof. Vladimir Prisniakov, Academy of Science of Ukraine, Dnipropetrovsk, Ukraine, Ms. Ludmila Prisniakova, Academy of Sciences of Ukraine, Dnipropetrovsk, Ukraine

IAC-05-A1.P.15

An Artist Aboard ... or the next best thing: Cultural activity as a stabilising social factor in long-duration space missions

Ms. Nicola Triscott, The Art Catalyst, Tynbee Studios, London, United Kingdom

Mr. Rob La Frenais, The Arts Catalyst, London, United Kingdom

IAC-05-A1.P.16

VOIR - Visual scOpe In Reduced gravity

Mr. Jeeshan Chowdhury, University of Alberta, Edmonton, Alberta, Canada

Ms. Meghan Grant, McGill University, Montreal, Quebec, Canada, Mr. Benjamin Sanders, University of Waterloo, Winnipeg, Canada, Mr. Farron Blanc, -, Kingston, Canada

IAC-05-A1.P.17

Biomarkers of cell and tissue injury in analog microgravity

Dr. Alamelu (Lalita) Sundaresan, USRA, Houston, United States

Dr. Anil Kulkarni, The University of Texas Health Science center, Medical School and Graduate School of Biomedical Sciences, Houston, United States, Dr. Neal R. Pellis, -, Houston, United States, Dr. Keiko Yamauchi, University of Texas Medical School in Houston, Houston, United States

IAC-05-A1.P.18

Effects of Simulated microgravity or hypergravity on the activity of Cbfa1 in MC3T3-E1

Mr. Zhongquan Dai, Institute of Space Medico-Engineering, Beijing, China

Mrs. Mei Huang, Tsinghua University, Beijing, China, Dr. Zhijie Chang, Tsinghua University, Beijing, China, Dr. Yinghui Li, Institute of Space Medico-Engineering, Beijing, China

IAC-05-A1.P.19

The Impact of Gender on Orthostatic Tolerance and on the Renal, Cardiovascular and Cardio-Endocrine Responses to Simulated Microgravity

Dr. Marlene Grenon, National Space and Biomedical Research Institute/McGill University, Montreal, Canada

Dr. Richard J. Cohen, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts, United States, Dr. Shelley Hurwitz, Brigham and Women's Hospital, Boston, MA, United States, Ms. Christine Kim, Brigham and Women's Hospital, Boston, United States, Dr. Gordon H. Williams, Brigham and Women's Hospital, Boston, MA, United States,

IAC-05-A1.P.20 (WITHDRAWN)

Catalytic RNA Folding at Zero Gravity

Mrs. Emina Besic, University of Zurich, Switzerland, Zürich, Switzerland

Mr. Stefan Markovic, University of Zurich, Switzerland, Waldshut, Germany, Mr. Joachim Schnabl, University of Zurich, Switzerland, Oberehrendingen, Switzerland, Mrs. Veronika Zelenay, University of Zurich, Switzerland, Zürich, Switzerland

IAC-05-A1.P.21

An Evidence-Based Countermeasure for Space Flight: Nutritional Nucleotide Augmentation of Immunity

Dr. Anil Kulkarni, The University of Texas Health Science center, Medical School and Graduate School of Biomedical Sciences, Houston, United States

Dr. Keiko Yamauchi, University of Texas Medical School in Houston, Houston, United States, Dr. Alamelu (Lalita) Sundaresan, USRA, Houston, United States, Dr. Catherine Ambrose, The University of Texas Health Science center, Medical School and Graduate School of Biomedical Sciences, Houston, United States, Dr. Govindarajan Ramesh, Texas Southern University, Houston, United States,

IAC-05-A1.P.22

Gravity, as Regulation Factors in rMSCs to the Cardiomyogenic Differentiation

Mrs. Yan Huang, Institute of Space Medico-Engineering, Beijing, China

Mrs. Fen Yang, Institute of Space Medico-Engineering, Beijing, China, Mr. Zhongquan Dai, Institute of Space Medico-Engineering, Beijing, China, Dr. Yinghui Li, Institute of Space Medico-Engineering, Beijing, China

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A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.P. Poster Session on Microgravity Sciences and Processes

Rapporteur: Rainer Willnecker (Germany), Antonio Viviani (Italy)

IAC-05-A2.P.01

Porous Cylinder Sublimator.

Dr. Leonid Vasiliev, Luikov Heat and Mass Transfer Institute, Minsk, Belarus

IAC-05-A2.P.02

Deployment of an inflatable gravity gradient boom in microgravity

Mr. Dries Caluwaerts, Delft University of Technology, Delft, Netherlands

Mr. Frank Michaux, Delft University of Technology, Delft, Netherlands, Mr. Peter van Marion, Delft University of Technology, Delft, Netherlands, Ms. Inge Vanschoenbeek, Delft University of Technology, Delft, Netherlands, Prof. Barry Zandbergen, Delft University of Technology, Delft, Netherlands

IAC-05-A2.P.03

Ion Injection as an Effective Technique of Heat Transfer Enhancement in Space: Preliminary Results of Ground-Based Experiments

Dr. Daniele Testi, University of Pisa, Pisa, Italy

IAC-05-A2.P.04

Faraday Waves Zero Gravity Experiment
Mr. Pedro Russo, Navegar Foundation, Espinho, Portugal

IAC-05-A2.P.05

Effects of Artificial Support Stimulation on Soleus Fiber Characteristics in Men Exposed to 7-Day "Dry" Immersion

Mrs. Karina Litvinova, Institute for Biomedical Problems, Moscow, Russia
Dr. Shenkman Boris, Institute for Biomedical Problems, Moscow, Russia

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A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.P. Poster Session on Space Exploration

Rapporteur: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

IAC-05-A3.P.01

The Host Galaxies of Gamma Ray Bursts

Ms. Suzanne Foley, University College Dublin, Dublin, Ireland

IAC-05-A3.P.02

On the Characterization of Intermediate-Luminosity X-ray Objects

Ms. Diane Wong, University of Berkeley, Berkeley, United States

IAC-05-A3.P.03

Mission and System Design of a Venus Entry Probe and Aerobot

Mr. Andy Phipps, Surrey Satellite Technology Limited, Guildford, United Kingdom

Mr. Alex da Silva Curiel, Surrey Satellite Technology Limited, Guildford, Surrey, United Kingdom, Dr. Peter Falkner, ESA/ESTEC, Noordwijk, Netherlands, Dr. Stephen Lingard, Vorticity Limited, Chalgrove, Oxfordshire, United Kingdom, Prof. Sir Martin Sweeting, Surrey Satellite Technology Limited, Guildford, United Kingdom,

IAC-05-A3.P.04

Space exploration using multiple robotic units

Mr. Joakim Öman, Space Research institute, Kiruna, Sweden

IAC-05-A3.P.05

Factors for selecting a planet as a target for terraforming

Mr. Erik Clacey, International Space University (ISU), Järfälla, Sweden

Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands, Mr. Angelo Grubisic, International Space University (ISU), Kildeminster, United Kingdom, Mr. Damian Rogers, International Space University (ISU), Burlington, Canada

IAC-05-A3.P.06

Simulating regolith deposition on 25143 Itokawa and other small asteroids

Ms. Serina Diniega, University of Arizona, Tucson, AZ, United States

Dr. Hajime Yano, ISAS/JAXA, Kanagawa, Japan

IAC-05-A3.P.07 (WITHDRAWN)

Water vapour on Mars as measured by Mars Express

Mr. Martin Tschimmel, Max Planck Institute for Solar System Research, Katlenburg-Lindau, Germany

Dr. Dmitri Titov, Max-Planck Institut, Katlenburg-Lindau, Germany, Dr. Nikolay Ignatiev, Space Research Institute (IKI), RAS, Moscow, Russia, Dr. Emmanuel Lellouch, Observatoire de Paris, Meudon, France

IAC-05-A3.P.08

Applying Feed-Forward Compliance to the Control of Electric Motors Used in the Joints of Walking Planetary Robotic Explorers

Mr. Gregory Scott, University of Surrey, Godalming, United Kingdom

Dr. Alex Ellery, Surrey Space Centre, Guildford, United Kingdom, Dr. Eddie Moxey, University of Surrey, Guildford, United Kingdom

IAC-05-A3.P.09

Optimal Control of Orbit Transfer of Space Probe with Limit Thrust

Dr. Xingsuo He, Northwestern Polytechnical University, Xian, China

Ms. Wang Ping, Northwestern Polytechnical University, Xi'an, Japan

IAC-05-A3.P.10

Design and Implementation of a New Generic Concept for the Science Operations Planning of ESA Planetary Missions

Mr. Mehran Sarkarati, ESA, Leiden, Netherlands

Mr. Miguel Almeida, ESA/ESTEC, Noordwijk, Netherlands, Mr. David Frew, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.P.11

Selection, Technology Evaluation and Recommendations for Moon/Mars Transportation Architectures

Ms. Gergana Bounova, Massachusetts Institute of Technology (MIT), Cambridge, United States

Mr. Jaemyung Ahn, Massachusetts Institute of Technology (MIT), Cambridge, United States, Mr. Wilfried Hofstetter, Massachusetts Institute of Technology, Cambridge, United States, Mr. Paul Wooster, Massachusetts Institute of Technology, Cambridge, United States, Dr. Rania Hassan, Massachusetts Institute of Technology, Cambridge, MA, United States,

IAC-05-A3.P.12

Design of Mars Canyon Flyer

Mr. Wies Hageraats, Delft University of Technology, Wijchen, Netherlands

Mr. Arjen de Jong, Delft University of Technology, Barneveld, Netherlands, Mr. Robin Raus, Delft University of Technology, Delft, Netherlands

IAC-05-A3.P.13

LAREDO: A Formation Flying and Rendezvous and Docking Simulator Tool for Exploration Missions

Mr. David Modrego, GMV S.A., Tres Cantos, Madrid, Spain
Dr. Guillermo Ortega, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.P.14

Six Degree-of-Freedom Contact Dynamics Testbed for Mars Sample Return Capture Devices

Mr. Steven Sell, Payload Systems Inc., Cambridge, United States

Mr. Joe Parrish, Payload Systems Inc., Cambridge, United States, Mr. Edison Guerra, Payload Systems Inc., Cambridge, United States, Mr. Cecil van der Merwe, Payload Systems Inc., Cambridge, United States

IAC-05-A3.P.15

BepiColombo – Mission Analysis Challenges on the Way to Mercury

Mr. Rudiger Jehn, ESA/ESOC, Darmstadt, Germany

IAC-05-A3.P.16

HP3: An Integrated instrument suite to explore the Subsurface of terrestrial planets and moons

Mr. Riccardo Nadalini, DLR, Berlin, Germany

IAC-05-A3.P.17

Analytical development and numerical simulations of a space based radio-science experiment measuring the Mercury libration

Mr. Gregor Pfytter, Royal Observatory of Belgium, Brussels, Belgium

IAC-05-A3.P.18

Robotic Exploration of the Inner Solar System

Dr. Chris Welch, Kingston University, London, United Kingdom

IAC-05-A3.P.19

Re-Evaluation of Lunar Seismograms

Mr. Till Sonnemann, Deutsches Zentrum für Luft und Raumfahrt e.V. (DLR), Berlin, Germany

IAC-05-A3.P.20

A radiative transfer model of the Venus atmosphere and the search for active volcanism through Venus Express

Mr. Constantine Tsang, University of Oxford, Oxford, United Kingdom

Prof. Fred Taylor, University of Oxford, Oxford, United Kingdom

IAC-05-A3.P.21 (WITHDRAWN)

Perspectives of New Scintillators for Planetary Gamma-ray Spectroscopy

Mr. Benoit Pirard, Centre d'Etude Spatiale des Rayonnements (CESR - CNRS/UPS), Toulouse, France

Dr. Claude d'Uston, Centre d'Etude Spatiale des Rayonnements (CESR - CNRS/UPS), Toulouse, France, Dr. Sylvestre Maurice, Centre d'Etude Spatiale des Rayonnements (CESR - CNRS/UPS), Toulouse, France, Dr. Olivier Gasnault, Centre d'Etude Spatiale des Rayonnements (CESR - CNRS/UPS), Toulouse, France

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A5. Integrated approaches to the Exploration and Utilization of the Moon and Mars (IAA.3.7.)

Coordinators: George W. Morgenthauer (United States), Christian Sallaberger (Canada)

A5.P. Poster Session on Integrated Approaches to the Exploration and Utilization of Moon and Mars

Rapporteur: George W. Morgenthauer (United States), Christian Sallaberger (Canada)

IAC-05-A5.P.01

Sustainable Living Through Space Exploration

Ms. April Evans, Boeing Integrated Defense Systems, Houston, United States

IAC-05-A5.P.02

Eternal footprints: human impact on planetary bodies

Ms. Tímea Csengeri, Eötvös Loránd University, Budapest, Hungary

IAC-05-A5.P.03

Concept of solar energy use for oxygen extraction from the lunar ground

Dr. Mykola M. Slyunyaev, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine

Mr. Alexander Degtyarev, Yuzhnoye State Design Office, Dnipropetrovsk, Ukraine

IAC-05-A5.P.04

Data Acquisition Design and Construction for Mobile Robot

Mr. Suprianto Kamijaya, Heliotecchnology Laboratory, Bandung Institute of Technology, Bandung, Indonesia

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B1. Earth Observation Symposium (IAF B.)

Coordinators: W. John Hussey (United States), Pierre Ranzoli (Germany)

B1.P. Poster Session on Earth Observation

Rapporteur: Andrew Court (Netherlands)

IAC-05-B1.P.01

Simulations of Milky Way's Radiation Captured by Miras

Mrs. Rebeca Guzman, Escola Tècnica Superior d'Enginyeria de Telecomunicació, Sta. Coloma de Gramanet, Spain

IAC-05-B1.P.02

Detecting Earth's free oscillations through the observation of the atmospheric Sodium layer

Dr. Roberto Guida, Internat. Cent. for Relativ. Astroph./Univ. 'La Sapienza', Roma, Italy

Prof. Alessandro Cacciani, University of Rome "La Sapienza", Rome, Italy

IAC-05-B1.P.03

Use of Space Observation For the Benefit of Russian Industry

Mrs. Elena Radchuk, Gascom, Korolev, Russia

IAC-05-B1.P.04

A New Image Matching Algorithm for Change Detection using Hilbert Curve

Mr. Li Tian, Waseda University, Kitakyushu City, Japan
Mr. Sei-ichiro Kamata, Waseda University, Kitakyushu City, Japan, Mr. Yoshimitsu KUROKI, Kurume National College of Technology, Kurume City, Japan, Mr. Yoshifumi Ueshige, Institute of Systems Information Technologies, Kyushu, Fukuoka City, Japan

IAC-05-B1.P.05

Estimating Ground Ice Volumes in Tundra Polygon Networks

Mr. Timothy Haltigin, McGill University, Montreal, QC, Canada
Mr. Hugues Lantuit, Alfred Wegener Institute for Polar and Marine Research, Potsdam, Germany

IAC-05-B1.P.06

Ship detection signatures in AP mode data

Ms. Tonje Nanette Arnesen, Norwegian University of Science and Technology, Oslo, Norway

IAC-05-B1.P.07

Quickbird image fusion using different types of wavelets: a comparative study

Ms. Styliani Ioannidou, National Technical University of Athens, Kato Pefki - Athens, Greece

IAC-05-B1.P.08

Statistical Learning and Optimization Methods for Improving the Efficiency in Landscape Image Clustering and Classification Problems

Miss. Selime Gürol, Middle East Technical University, Mersin, Turkey

IAC-05-B1.P.09

Image Compression and Retrieval using Hilbert Curve

Mr. Noritatsu Matsuo, Waseda University, Kitakyushu City, Japan
Mr. Sei-ichiro Kamata, Waseda University, Kitakyushu City, Japan, Mr. Kazuyuki Tsuneyoshi, Kitakyushu Foundation for the Advancement of Industry Science Technology, Kitakyushu City, Japan

IAC-05-B1.P.10

Aerosol detector for middle atmosphere research

Mr. Lars Helge Surdal, Narvik University College, Narvik, Norway

IAC-05-B1.P.11 (WITHDRAWN)

Accuracy of an aster image tested in the ardennes

Mrs. Marloes Decraemer, University of Ghent, Oudenburg, Belgium

IAC-05-B1.P.12

Modular Mechanical Platform

Mr. Kjell-Edmund Ims, University of Umeå, Kiruna, Sweden

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B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.P. Poster Session on Space Communications

Rapporteur: Robert D. Briskman (United States)

IAC-05-B3.P.01

Design of a Three Marstationary Satellites Constellation to support a Mars-Earth Interplanetary Internet and future missions on the Red Planet.

Mr. Marco Giuliani, -, Almese (TO), Italy

IAC-05-B3.P.02

Discussion on Positioning Precision Improvement Plans of Twins-Satellites Navigation System in Low Latitude Area

Mr. Weihua Ma, Northwestern Polytechnical University, Xi'an, China

IAC-05-B3.P.03

End-to-end QoS Architecture in Space Internet

Mrs. Huang Wei, Beijing University of Posts and Telecommunications, Beijing, China

IAC-05-B3.P.04

Atmospheric parameters revisited in the scope of lack of accuracy in space positioning systems.

Ms. María Cortés, Esa Student Participation Programme, Madrid, Spain

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B6. Space Debris Symposium (IAA 5.12.)

Coordinators: Nicholas L. Johnson (United States), Walter Flury (Germany)

B6.P. Poster Session on Space Debris

Rapporteur: Rudiger Jehn (Germany)

IAC-05-B6.P.01

Optical Observations of Small-Sized Space Debris in High-Altitude Orbits - Discovery of a New Population

Dr. Thomas Schildknecht, Astronomical Institute University of Bern (AIUB), Bern, Switzerland

Mr. Reto Musci, Astronomical Institute University of Bern (AIUB), Bern, Switzerland, Prof. Walter Flury, ESA/ESOC, Darmstadt, Germany

IAC-05-B6.P.02

Searching the Lost Fragments

Mr. Hitoshi Ikeda, Kyushu University, Fukuoka, Japan
Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan,
Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan

IAC-05-B6.P.03

Optimization of Collision Avoidance Maneuvers with Perturbation Analysis

Mr. *Chen Lei*, National University of Defense Technology, ChangSha, Hunan, China

IAC-05-B6.P.04

Stochastic Analysis of Survivability of Double Tether

Dr. *Hiroshi Hirayama*, Kyushu University, Fukuoka, Japan
Mr. *Atushi Oishi*, Kyushu University, Fukuoka, Japan, Prof. *Toshiya Hanada*, Kyushu University, Fukuoka, Japan, Prof. *Tetsuo Yasaka*, Kyushu University, Fukuoka, Japan

IAC-05-B6.P.05 (WITHDRAWN)

Space debris: rocket upper stages

Ms. *Blanca Altés-Arlandis*, Universidad Politécnica de Madrid, Madrid, Spain

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C1. Astrodynamics Symposium (IAF A.)

Coordinators: *Arun Misra* (Canada), *Alberto Foni* (Italy)

C1.P. Poster Session on Astrodynamics

Rapporteur: *Alberto Foni* (Italy)

IAC-05-C1.P.01

Fuel-Saving Control for Formation Flying Constellations

Dr. *Mengfei Yang*, Tsinghua University, Beijing, China
Dr. *Honghua Zhang*, Beijing Institute of Control Engineering, Beijing, China

IAC-05-C1.P.02

Route Theory for Optimal Design of Satellite Constellations to Minimize Revisit Time in Low Earth Orbits

Prof. *Yury Razoumny*, Moscow State Technical University named Bauman, Moscow, Russia

IAC-05-C1.P.03

On Inherent Information Redundancy in Vector Measuring Attitude Determination Methods

Dr. *Alfred Ng*, Canadian Space Agency, St-Hubert, Canada
Mr. *Narendra Golli*, Concordia University, Montreal, Canada, Dr. *Yuri Kim*, Canadian Space Agency, St-Hubert, Canada

IAC-05-C1.P.04

Attitude Determination for the student satellite nCubeII: Kalman Filter

Mr. *Bernt Ove Sunde*, Esa Student Participation Programme, Trondheim, Norway
Dr. *Jan Tommy Gravdahl*, Norwegian University of Science and Technology, Trondheim, Norway

IAC-05-C1.P.05

Command shaping for a flexible satellite platform controlled by advanced fly-wheels systems

Dr. *Dario Izzo*, ESA/ESTEC, Noordwijk, Netherlands
Mr. *Lorenzo Pettazzi*, ZARM - University of Bremen, Bremen, Germany

IAC-05-C1.P.06

Attitude control of the ESEO satellite

Mr. *Jøran Antonsen*, Narvik University College, Narvik, Norway

Raymond Kristiansen, Narvik University College, Narvik, Norway, Dr. *Per Johan Nicklasson*, Narvik University College, Narvik, Norway

IAC-05-C1.P.07

Inflatable Gravity Gradient Boom

Mr. *Bogdan-Constantin Dumitrescu*, Delft University of Technology, Delft, Netherlands

IAC-05-C1.P.08

Coordinated control of satellites: the attitude case

Mr. *Thomas Krogstad*, Norwegian University of Science and Technology, Trondheim, Norway

Dr. *Jan Tommy Gravdahl*, Norwegian University of Science and Technology, Trondheim, Norway, Raymond Kristiansen, Narvik University College, Narvik, Norway

IAC-05-C1.P.09

A study of actuator configurations for the ESEO satellite

Mr. *Frank Robert Blindheim*, Narvik University College, Narvik, Norway

Raymond Kristiansen, Narvik University College, Narvik, Norway, Dr. *Per Johan Nicklasson*, Narvik University College, Narvik, Norway

IAC-05-C1.P.10

Thruster actuation algorithms for scientific space missions

Mr. *Daniel Bindel*, ZARM - University of Bremen, Bremen, Germany

IAC-05-C1.P.11

Attitude Determination for Three-Axis Stabilized Geostationary Satellite Image Navigation

Mr. *Zhigang Wang*, Northwestern Polytechnical University, Xi'an, China

IAC-05-C1.P.12

Reaction wheels development at Stork Aerospace

Mr. *Tim Leeuwerink*, Stork Aerospace, Amsterdam, Netherlands

IAC-05-C1.P.13

Minimum energy control law for satellite reorientation by two wheels.

Dr. *Tatsuya Endo*, Japan Aerospace Exploration Agency, JAXA, tsukuba-city, Japan

IAC-05-C1.P.14

Optimal Motion Planning and Tracking Control for a Flexible Manipulator

Dr. *Paul Williams*, RMIT University, Melbourne, Australia
Prof. *Pavel Trivailo*, RMIT University, Bundoora VIC, Australia

IAC-05-C1.P.15

A Practical Operation Strategy for an Electrodynamic Tether System

Dr. *Noboru Takeichi*, Japan Aerospace Exploration Agency, Tsukuba, Ibaraki, Japan

IAC-05-C1.P.16

Dynamics of Membrane Deployment for Tether-Controlled Spinning Solar Sail

Mr. Shinji Masumoto, Tokyo Institute of Technology, Tokyo, Japan

Mr. koji nakaya, Tokyo Institute of Technology, Tokyo, Japan, Mr. Masafumi Iai, Tokyo Institute of Technology, Tokyo, Japan, Mr. hideyuki yabe, Tokyo Institute of Technology, Tokyo, Japan, Prof. Saburo Matunaga, Tokyo Institute of Technology, Tokyo, Japan

IAC-05-C1.P.17

GEO- New Stochastic Algorithm for Design Optimization

Prof. Elbert E.N. Macau, INPE, Sao Jose dos Campos, Brazil

Dr. Fabiano L. Sousa, INPE, Sao Jose Campos - SP, Brazil, Prof. Fernando M. Ramos, INPE, Sao Jose Campos - SP, Brazil

IAC-05-C1.P.18

An efficient optimization method to deal with global RLV (ascent and branching) trajectories

Mr. Julien Laurent-Varin, INRIA, Le Chesnay, France

Mr. Nicolas Berend, Onera, Châtillon, France, Mr. Christophe Talbot, CNES, Evry, France, Mr. Frédéric Bonnans, INRIA, Le Chesnay, France

IAC-05-C1.P.19

Design and Control of Long-term Flying Around Trajectory for Target Vehicle in Non-coplanar Elliptical Orbit

Dr. Jianjun Luo, Northwestern Polytechnical University, Xian, China

IAC-05-C1.P.20

The Pioneer Anomaly in the Context of Non-Newtonian Gravity

Mr. Michael Kosbow, Aachen University of Technology, Aachen, Germany

Mr. Hans-Joachim Blome, Aachen University of Applied Sciences, Aachen, Germany

IAC-05-C1.P.21

Optimal Trajectories in Orbital Rendez-Vous

PhD Mihai Popescu, Academy of Sciences, Bucharest, Romania

IAC-05-C1.P.22

Characterizing Low Energy Transfer to the Moon

Prof. Elbert E.N. Macau, INPE, Sao Jose dos Campos, Brazil

Dr. Fabiano L. Sousa, INPE, Sao Jose Campos - SP, Brazil, Prof. Fernando M. Ramos, INPE, Sao Jose Campos - SP, Brazil

IAC-05-C1.P.23

A Design of a Mission to Neptune using Close Approaches

Dr. Antonio Prado, National Institute of Space Research (INPE), Sao Jose dos Campos, Brazil

Mr. Carlos Solorzano, Instituto Nacional de Pesquisas Espaciais (INPE), S J Campos, Brazil, Dr. Alexander Sukhanov, Instituto Nacional de Pesquisas Espaciais (INPE), S J Campos, Brazil

IAC-05-C1.P.24

Turn over Problem of Tether Satellite System

Mr. Tomoo Tone, Tokyo Metro. Inst. of Tech., Tokyo, Japan

Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Mr. Takeo Watanabe, Tokyo Metro. Inst. of Tech., Hino, Japan

IAC-05-C1.P.25

Observability of measurement bias for nonlinear systems arising from satellite autonomous navigation and attitude determination

Dr. Yong Li, China Academy of Space Technology (CAST), Beijing, China

Mr. Liang Dong LIU, China Academy of Space Technology (CAST), Beijing, China, Mrs. Chun-qing Zhang, China Academy of Space Technology (CAST), Beijing, China

IAC-05-C1.P.26

A CCD Optical Sensor for Automated Rendezvous and Docking

Dr. Yongchun Xie, Beijing Institute of Control Engineering, Beijing, China

IAC-05-C1.P.27

Feasibility Study of Robotic Servicing for the Hubble Space Telescope

Dr. Mitsushige Oda, JAXA, Ibaraki-ken, Japan

Dr. Shin-ichiro Nishida, JAXA/ISTA, Chofu, Japan

IAC-05-C1.P.28

A New Approach for Spacecraft Rendezvous and Fly-Around Control on Elliptic Orbits

Mr. Kazuki Hayashi, Kyoto Univ., Nagoya, Japan

IAC-05-C1.P.29

Augmented Flat Earth Guidance Algorithm for Precision Landing of a Ballistic Re-entry Vehicle

Mr. U.P. Rajeev, Vikram Sarabhai Space Center, Thiruvananthapuram, India

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October 20 2005, 17:30 - Marine Messe 2F

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.P. Poster Session on Materials and Structures

Rapporteur: Michael J. Eiden (Netherlands)

IAC-05-C2.P.01

Design of frameless SA deployed by centrifugal forces and its deployment mechanism as a basis of new technology of in-orbit power plant assembling

Prof. Vitaly Melnikov, Moscow Aviation Institute, Moscow, Russia

IAC-05-C2.P.02

Barberpole, mechanism for space tether deployment
Mr. Carlo Menon, ESA/ESTEC, Noordwijk, Netherlands
Mr. Michiel Kruijff, Delta-Utec, Leiden, Netherlands, Mr. Antonis Vavouliotis, University of Patras, Patras, Hellas, Greece, Mr. Angelos Miaris, University of Patras, Patras, Hellas, Spain, Prof. Vassilis Kostopoulos, University of Patras, Patras, Hellas, Greece,

IAC-05-C2.P.03

A Design Approach of CMC RAM-Combustor Wall
Dr. Tetsuya Morimoto, Japan Aerospace Exploration Agency (JAXA), Tokyo, Japan

IAC-05-C2.P.04

Thermal Design of the Swap Instrument on Board PROBA-II Microsatellite
Ms. Valerie Van Grootel, Liege University, Heusy, Belgium

IAC-05-C2.P.05 (WITHDRAWN)

Inductively Coupled CO₂ Plasma Flows Simulation for Mars Entry Applications
Mr. Pietro Rini, Université Libre de Bruxelles, Brussels, Belgium
Prof. Gerard Degrez, Université Libre de Bruxelles, Bruxelles, Belgium

IAC-05-C2.P.06

Structural Analysis of ESA Young Engineers Satellite 2 Ejection System
Mr. Antonis Vavouliotis, University of Patras, Patras, Hellas, Greece
Mr. Dimitrios Lamprou, University of Patras, Patras, Greece, Prof. Vassilis Kostopoulos, University of Patras, Patras, Hellas, Greece, Mr. Jens Carlevi, Luleå Technical University, LULEÅ, Sweden, Mr. Erik Van der Heide, Delta-Utec SRC, Leiden, Netherlands,

IAC-05-C2.P.07

Numerical Investigation of an Unsteady Type IV Shock-Shock Interaction in Supersonic Flow
Dr. Zhengyu Tian, National University of Defence Technology, Changsha, China

IAC-05-C2.P.08

Space Composite Antenna Bulking Failure-mode Analysis and Test
Ms. Juan-Fang Wei, Xi'an Institute of Space Radio Technology, Xi'an, China
Mr. Bo Gao, Xi'an Institute of Space Radio Technology, Xi'an, China, Mr. Yan-Ping Song, Xi'an Institute of Space Radio Technology, Xi'an, China

IAC-05-C2.P.09

Investigation of High Temperature Adhesive for Bonding Carbon-Carbon Composites
Mr. Zhang Xiaohu, Material Department, Northwestern Polytechnical University, Xi'an, Shaanxi, China
Mr. Li Hejun, Material Department, Northwestern Polytechnical University, Xi'an, China

IAC-05-C2.P.10

Design and Manufacture of a Composite Overwrapped Spherical Pressure Vessel for Aerospace Applications
Dr. Yan Fei, Shanghai Institute of Space Propulsion, Shanghai, China

IAC-05-C2.P.11

Design, Development and Manufacturing of Low Cost and High Performance Tanks and Pressure Vessels
Mr. Rudolf Forster, MAN Technologie AG, Augsburg, Germany
Dr. Robert Teran Beck, MAN Technologie AG, Augsburg, Germany, Mr. Marc Giegerich, MAN Technologie AG, Augsburg, Germany, Dr. Wulf Radtke, MAN Technologie AG, Augsburg, Germany

IAC-05-C2.P.12

Thermal Radiation Model (TRM) for ESA's Ground-based Telescopes
Thomas Bornkessel, TU Darmstadt, Darmstadt, Germany
Prof. Michael Schaefer, TU Darmstadt, Darmstadt, Germany

IAC-05-C2.P.13

3P - the PDU onboard the multi purpose balloon platform (MPEG)
Mr. Mikael Koivunen, University of Umeå, Kiruna, Sweden

IAC-05-C2.P.14

A Study on Comparison of Acoustic and Random Vibration Test Effects on Spacecraft
Dr. Hidehiko Mitsuma, Japan Aerospace Exploration Agency (JAXA), Tsukuba-shi, Japan

IAC-05-C2.P.15

The Potential and Economic Benefits of Composite Structures in Space Exploration
Dr./Professor of Aerospace Mater Leo Daniel, University of New Orleans, New Orleans, United States
Mr. Guy Ramusat, ESA, Paris, France

IAC-05-C2.P.16

Advanced Materials Concept Design of Cryogenic Tanks
Ms. Monika Bubacz, University of New Orleans, New Orleans, United States
Prof. David Hui, University of New Orleans, New Orleans, United States, Dr./Professor of Aerospace Mater Leo Daniel, University of New Orleans, New Orleans, United States

IAC-05-C2.P.17

Study and Structural Analysis of a New Configuration for a Micro/Nano/Picosatellite Dispenser for the VEGA Launcher
Dr. Manuel De Benedetti, Università di Roma "La Sapienza", Rome, Italy

IAC-05-C2.P.18

Dynamic Analysis & Testing of a Spacecraft/Probe Model
Mr. Farouk Jivraj, Imperial College of Science, Technology Medicine, London, United Kingdom

IAC-05-C2.P.19

Preliminary Experiments on Dynamic Properties of Deployable Spinning Membrane
Dr. Hiroshi Furuya, Tokyo Institute of Technology, Yokohama, Japan
Mr. Yosuke Inoue, Tokyo Institute of Technology, Yokohama, Japan

IAC-05-C2.P.20

Closed-Loop On-Orbit Identification of Flexible Spacecraft in the Presence of Periodic Disturbances
Dr. Kang Li, Beijing Institute of Control Engineering, Beijing, China

IAC-05-C2.P.21

Finite Element Modelling of Triaxial Woven Fabric for Aerospace Structures
Dr. Manuel De Benedetti, Università di Roma "La Sapienza", Rome, Italy

IAC-05-C2.P.22

Thermomechanical Numerical and Experimental Validation for New Materials in Space Applications
Dr. Manuel De Benedetti, Università di Roma "La Sapienza", Rome, Italy

IAC-05-C2.P.23

Vibration Control of Flexible Solar Panel by Tether Tension
Mr. Hiroyuki Fukudome, Tokyo Metro. Inst. of Tech., Hino-shi, Tokyo, Japan
Prof. Hironori A. Fujii, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Mr. Kazuma Sekikawa, Tokyo Metro. Inst. of Tech., Hino-shi, Tokyo, Japan

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C3. Space Power Symposium (IAF R.)
Coordinators: John C. Mankins (United States)

C3.P. Poster Session on Space Power

Rapporteur: John C. Mankins (United States)

IAC-05-C3.P.01

Ocean Thermal Energy Conversion: A Case Study on Space Aid for Energy, Environment and Economics
Dr. John Farrow, International Space University (ISU), Strasbourg, France
Ms. Gillian Whelan, International Space University (ISU), Illkirch-Graffenstaden, France, Ms. Harleen Jolly, International Space University (ISU), Illkirch-Graffenstaden, France

IAC-05-C3.P.02

Power systems for MEMS robots/devices used for space applications
Mr. Erik Clacey, International Space University (ISU), Järfälla, Sweden

IAC-05-C3.P.03

Design of a membrane solar panel
Mr. Bruno Sylvestre, École de technologie supérieure, Montreal, Canada
Dr. Henri Champiaud, École de technologie supérieure, Montréal, Canada, Dr. Marie-Josée Potvin, Canadian Space Agency, Saint-Hubert, Canada

IAC-05-C3.P.04

Free Piston Stirling Engine Simulation, used for Electric Power Supply of a Small Satellite
Dr. Naser Seraj Mehdizadeh, Amirkabir University of Technology of Tehran, Tehran, Iran
Mrs. Asrin Ghanbarian, Amirkabir University of Technology of Tehran, Tehran, Iran

IAC-05-C3.P.05

A 25 kW Solar-Stirling Concept for Planetary Surface Exploration
Mr. Henry W. Brandhorst, Auburn University, Auburn University, AL, United States

IAC-05-C3.P.06

Space Solar Power System with Use of Concentrating Properties of Earth Atmosphere
Sergiy Moskal'ov, Yuzhnoye State Design Office, Dnepropetrovsk, Ukraine

IAC-05-C3.P.07

Non-Linear SCHOTTKY Diode Characterization used in a High Efficiency Rectenna Design Methodology
Mr. A. Douyere, Université de la Réunion, Saint Denis Messag, La Reunion
Mr. Alain Celeste, Université de la Réunion, 97715 Saint Denis Messag Cedex 9, France, Mr. C. Descharles, Université de la Réunion, Saint Denis Messag, La Reunion, Mr. J-D. Lan Sun Luk, Université de la Réunion, Saint Denis Messag, La Reunion

IAC-05-C3.P.08

A Thin Unit Panel with Layered High-Power Active Integrated Antenna for Space Solar Power System
Mr. Kazuyoshi Nanokaichi, Kyoto Univ., Kyoto, Japan
Prof. Shigeo Kawasaki, Kyoto Univ., Kyoto, Japan, Dr. Naoki Shinohara, Kyoto Univ., Kyoto, Japan, Prof. Hiroshi Matsumoto, Kyoto Univ., Kyoto, Japan, Mr. Masahiro Mori, JAXA, Tsukuba-shi, Japan,

IAC-05-C3.P.09

The Prospect of Space Solar Power in Indonesia
Dr. Aman Mostavan, Institut Teknologi Bandung, Bandung, Indonesia
Mr. Muhamad Romadhan, Institut Teknologi Bandung, Bandung, Indonesia

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C4. Space Propulsion Symposium (IAF S.)
Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.P. Poster Session on Space Propulsion

Rapporteur: Dana G. Andrews (United States), Claudio Bruno (Italy)

IAC-05-C4.P.01 (WITHDRAWN)

Analysis of high specific impulse Hall Thrusters
Mr. Diego Escobar, Universidad Politécnica de Madrid, Villaviciosa de Odón, Spain
Mr. Eduardo Ahedo, Universidad Politécnica de Madrid, Madrid, Spain, Mr. Félix I. Parra, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-C4.P.02

Study on Impulse Bit Increase by Modification of PPT Configuration
Mr. Yukiya Kamishima, Student, Hino, Tokyo, Japan

IAC-05-C4.P.03

Electromagnetic Field Analysis for Microwave Discharge Ion Engine using Multi Mono-poles Antenna System

Mr. Keisuke Izumi, Kyushu University, Kasuga, Fukuoka, Japan

Mr. Hirokazu Masui, Kyushu University, Fukuoka, Japan, Dr. Hideki Nakashima, Kyushu University, Kasuga City, Japan, Mr. Keisuke Shinyashiki, Kyushu University, Fukuoka, Japan, Dr. Naoji Yamamoto, Kyushu University, Fukuoka, Japan

IAC-05-C4.P.04

Numerical simulation of stationary plasma thruster plume

Mr. He Bijiao, Beijing University of Aeronautics and Astronautics, Beijing, China

Prof. Guobiao Cai, -, Beijing, China, Mr. Jianhua Zhang, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-C4.P.05

Development of a simple Computational Model for Hall Thrusters

Mr. Charles Ryan, University of Southampton, Southampton, United Kingdom

IAC-05-C4.P.06

Experimental Investigation of Surface Reorientation and Oscillations of Liquid

Mr. Malte Stief, ZARM - University of Bremen, Bremen, Germany

Dr. Michael Dreyer, ZARM - University of Bremen, Bremen, Germany

IAC-05-C4.P.07

A Preliminary Study on Hydrazine Decomposition by Discharge Plasma

Mr. Junichiro Aoyagi, Tokyo Metro. Inst. of Tech., Tokyo, Japan

Dr. Akira Kakami, Kyushu Institute of Technology, Fukuoka, Japan, Prof. Haruki Takegahara, Tokyo Metro. Inst. of Tech., Tokyo, Japan, Prof. Takeshi Tachibana, Kyushu Institute of Technology, Fukuoka, Japan, Mr. Hiroyuki Mishima, Mitsubishi Heavy Industries, Ltd., Nagasaki, Japan,

IAC-05-C4.P.08

Effect of the Plume of a Hybrid Propellant Rocket

Mr. Claudio Lettieri, Second University of Naples, Casoria (NA), Italy

IAC-05-C4.P.09

Real time fault detection of turbopump using bootstrap

Dr. Xie Guang-jun, National University of Defense Technology, Changsha, China

Prof. HU Niao-qing, National University of Defense Technology, Changsha, China, Vice-Prof. QIN Guo-jun, National University of Defense Technology, Changsha, China, Prof. WEN Xi-sen, National University of Defense Technology, Changsha, China

IAC-05-C4.P.10

Blade Vibration Measurement of Turbo Pump Inducer in Liquid Hydrogen Condition

Engineer Baba Masaru, Ishikawajima-Harima Heavy Industries Co.,Ltd., Tokyo, Japan

IAC-05-C4.P.11

Transient analysis of open cycle liquid propellant rocket engine

Mr. Soon-Young Park, Korea Aerospace Research Institute, Daejeon, Korea

Dr. Woo Seok Seol, Korea Aerospace Research Institute, Daejeon, Korea, Dr. Won-Kook Cho, Korea Aerospace Research Institute, Daejeon, Korea

IAC-05-C4.P.12

A Study on GH2/GO2-RCS for the LOX/LH2 Integrated Propulsion/Power System

Dr. Shinichiro Tokudome, JAXA/ISAS, Sagamihara, Japan

IAC-05-C4.P.13

Development and Qualification of a Sustainable Carbonized Rayon Fabric for Ablative Materials

Mr. Broquere Bernard, Snecma Propulsion Solide, Le Haillan, France

IAC-05-C4.P.14

Aerothermodynamic Aspects of Railgun assisted Launches of Projectiles with Sub- and Low - Earth -Orbit - Payloads

Dr. Ognjan Bozic, German Aerospace Center (DLR), Braunschweig, Germany

Mr. Joerg Behrens, EADS Space Transportation, D-28361 Bremen, Germany, Dip.-Ing. Peter Giese, Institute of Aerodynamics and Flow Technology, Braunschweig, Germany

IAC-05-C4.P.15

Design and Experimental Investigation of a Micronewton Thrust Balance

Mr. Klaus Marhold, ARC Seibersdorf research, Seibersdorf, Austria

IAC-05-C4.P.16

Coldgas Propulsion System for Student Satellite

Mr. Gascha Tietz, University of Stuttgart, Stuttgart, Germany

IAC-05-C4.P.17

Status of European ignition systems development.

Mr. Tim Leeuwerink, Stork Aerospace, Amsterdam, Netherlands

IAC-05-C4.P.18

Numerical Investigation of Gas-Gas Injector Combustion Chamber of FFSC

Ms. Jin Ping, Beijing University of Aeronautics and Astronautics, Beijing, China

Prof. Guobiao Cai, -, Beijing, China, Prof. Xu Xu, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-C4.P.19

Optimization of System Parameters for Gas-Generator Cycle Engine

Dr. Xiao Y. Tong, Beijing University of Aeronautics and Astronautics, Beijing, China

IAC-05-C4.P.20

General prospects and methods of designing a propulsion plant for a rocket with tank combustion

Dr. Sergiy Lyagushyn, Dnipropetrovsk National University, Dnipropetrovsk, Ukraine

Dr. Vitaly Yemets, -, Dnipropetrovsk, Ukraine, Dr. Sergiy Bondarenko, -, Dnipropetrovsk, Ukraine

IAC-05-C4.P.21

Development of CAMUI Hybrid Rocket to Create a Market for Small Rocket Experiments

Associate Professor Harunori Nagata, Hokkaido University, Sapporo, Japan

Mr. Mitsunori Ito, -, Sapporo, Japan, Prof. Isao Kudo, -, Sapporo, Japan, Mr. Takenori Maeda, -, Sapporo, Japan, Dr. Tsuyoshi Totani, Hokkaido University, Sapporo, Japan,

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D1. Space Systems Symposium (IAF U.)

Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.P. Poster Session on Space Systems

Rapporteur: David Y. Kusnierkiewicz (United States)

IAC-05-D1.P.01

Utilization of CCSDS Protocols for Inter-Satellite Link

Mr. Zhengan Zhai, China General of Launching Tracking and Control (CLTC), Beijing, China

IAC-05-D1.P.02

MEMS and GPS: boost to low-cost Space Navigation

Mrs. Helen Basil, ISRO, Thiruvananthapuram, India
Mr. T.S. Ramadevi, ISRO, Thiruvananthapuram, India

IAC-05-D1.P.03

Space Systems Architecting using Meta-Languages

Mr. Willard L. Simmons, Massachusetts Institute of Technology, Cambridge, MA, United States

Dr. Benjamin H. Y. Koo, Massachusetts Institute of Technology, Cambridge, MA, United States, Prof. Edward Crawley, Massachusetts Institute of Technology, Cambridge, MA, United States

IAC-05-D1.P.04

Space Elevators: the Future of the Space Transport

Mrs. Maria Cristina Hernandez Martin, Universidad Politécnica de Madrid, Salamanca, Spain

IAC-05-D1.P.05

Design and Development of 'ATA' Space Elevator Construction Proposal

Dr. Serkan Anilir, Institute of Space and Astronautical Sciences (ISAS), Kanagawa, Japan

IAC-05-D1.P.06

Development of a Large heat lift 40 to 80 K Pulse Tube Cooler for Space Applications

Mr. Jonathan Buquet, Air Liquide DTA, Sassenage, France
Mr. Alain Ravex, Air Liquide DTA, Sassenage, France, Mr. Thierry Trollier, Air Liquide DTA, Sassenage, France

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D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.P. Poster Session on Space Transportation

Rapporteur: Dana G. Andrews (United States)

IAC-05-D2.P.01

Reusable Launch Vehicle - Booster - Fly-Back by cryogenic propulsion

Mr. Arnaud Belloli, CNES-DLA, Le Mans, France

IAC-05-D2.P.02

A Practical Solution to Near-Term Reusable Launch Vehicles

Dr. Masafumi Miyazawa, Shizuoka University, Kamakura, Japan

IAC-05-D2.P.03

Space Buoys: A Low-Cost Alternative to the Space Elevator

Mr. Thomas Coffee, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-D2.P.04

FLPP re-entry in-flight experimentation : the Intermediate eXperimental Vehicle (IXV) Technical and Programmatic Objectives

Mr. Yves Gerard, EADS Space Transportation, St Medard en Jalles, France

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D4. Symposium on The Far Future: Renewed Visions (IAA 3.8.)

Coordinators: George W. Morgenthaler (United States), Hans E.W. Hoffmann (Germany)

D4.P. Poster Session on The Far Future: Renewed Visions

Rapporteur: George W. Morgenthaler (United States), Hans E.W. Hoffmann (Germany)

IAC-05-D4.P.02

The Space Elevator Project May be Right for the International Space Development Authority Corporation

Mr. Declan O'Donnell, United Societies in Space, Inc., Castle Rock, CO, United States

IAC-05-D4.P.03

How to Gain Interest from the New Generation for The Space Elevator Concept

Mr. Paul Nelson, -, Darien, United States

IAC-05-D4.P.04

General and Debris Hazards Evaluation for Future Space Elevators

Dr. Dragos-Radu-Dan Rugescu, Politechnic University of Bucharest, Bucharest, Romania

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E1. Space Education and Outreach Symposium (IAF P.)

Coordinators: Pierre-Louis Contreras (France)

E1.P. Poster Session on Space Education and Outreach

Rapporteur: Pierre-Louis Contreras (France)

IAC-05-E1.P.01

Quality of an IP-based Video Conference on SCS : Alternative to the Internet

Dr. Tomoharu Shibuya, National Institute of Multimedia Education, Chiba, Japan

Dr. Kimio Kondo, National Institute of Multimedia Education, Chiba, Japan, Dr. Noritaka Osawa, National Institute of Multimedia Education, Chiba, Japan

IAC-05-E1.P.02

Space Science and Astronomical Education in Azerbaijan: an Experience of the Space Association of Turkic States

Mr. Elchin S. Babayev, Azerbaijan National Academy of Sciences, Baku, Azerbaijan

IAC-05-E1.P.03

The Space Bingo Surprises, very profitable and not obvious gifts of Space

Mr. Adriano Autino, Technologies of the Frontier / Andromeda s.r.l., Moncrivello (VC), Italy

IAC-05-E1.P.04

Target-group oriented space education: Polishing the images of science and engineering disciplines

Ms. Daniela Zajoncz, ESA, Noordwijk, Netherlands

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E2. 35th Student Conference (IAF W.)

Coordinators: Bénédicte Escudier (France), Rachid Amekrane (Germany)

E2.P. Student Poster Session

Rapporteur: Bénédicte Escudier (France)

IAC-05-E2.P.01

Low Energy Frequent Europa - Galilean Moons Trajectories

*Mr. Ridanto Poetro, Kyushu University, Fukuoka, Japan
Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan*

IAC-05-E2.P.02

Development of Micro Satellite in Kyushu University

*Mr. Atushi Oishi, Kyushu University, Fukuoka, Japan
Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan,
Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan,
Dr. Yuji Sakamoto, Q-shu Piggyback Satellite (QPS), Fukuoka-shi, Japan*

IAC-05-E2.P.03

Black Holes and Quantum Information

Konstantinos Nakis, National Technical University of Athens, Athens, Greece

IAC-05-E2.P.04

A Study of Operation Algorithm of a Redundant Manipulator with Tilted Rotary Joints

*Mr. Taichi Watanabe, Keio University, Yokohama, Kanagawa, Japan
Prof. Yoshiaki Ohkami, JAXA, Tsukuba, Japan*

IAC-05-E2.P.05 (WITHDRAWN)

Libration points stations: gates for deep space.

Mr. Enrico Capiozzo, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Sossano, Italy

*Mr. Marco Manente, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Padova, Italy,
Dr. Daniele Pavarin, CISAS G. Colombo Center of Studies and Activities for Space, University of Padova, Padova, Italy*

IAC-05-E2.P.06

The Optimal Movement Planning for the Reconfigurable Brachiating Robot with Multi-Degree-of-Freedom

Mr. Noriaki Tawada, Keio University, Yokohama, Kanagawa, Japan

Dr. Yoshiaki Ohkami, Keio University, Yokohama, Kanagawa, Japan

IAC-05-E2.P.07

Study on the attitude control of the micro satellite using magnetic torquer

Mr. Tasuku Wakatsuki, Kyushu University, Fukuoka, Japan

Dr. Yuji Sakamoto, Q-shu Piggyback Satellite (QPS), Fukuoka-shi, Japan, Prof. Toshiya Hanada, Kyushu University, Fukuoka, Japan, Prof. Tetsuo Yasaka, Kyushu University, Fukuoka, Japan

IAC-05-E2.P.08

Circuit analysis of conductive noise generated by solar array arcing on spacecraft

Mr. Sachio Akebono, Kyushu Institute of Technology, Fukuoka, Japan

IAC-05-E2.P.09

Effects of coverglass type on arcing phenomena on solar array in GEO environment

Mr. Takashi Kawasaki, Kyushu Institute of Technology, Kitakyushu, Japan

Dr. Satoshi Hosoda, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan, Prof. Mengu Cho, Kyushu Institute of Technology, Kitakyushu, Japan

IAC-05-E2.P.10

Laboratory test of arcing on the power cables of LEO satellites

Mr. Delu Qu, Kyushu Institute of Technology, Fukuoka, Japan

IAC-05-E2.P.11

Geometric Parameter Effect of Magneto-Plasma-Dynamic thruster

Mr. Daisuke Nakata, University of Tokyo, Kanagawa, Japan

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October 20 2005, 17:30 - Marine Messe 2F

E5. Space Activity and Society Symposium (IAA.6.16)

Coordinators: Ivan Almar (Hungary), Roger Malina (France)

E5.P. Poster Session on Space Activity and Society

Rapporteur: Ivan Almar (Hungary), Roger Malina (France)

IAC-05-E5.P.01

How can space technology help us solve problems in the third world?

Ms. Christina Aas, Norwegian University of Science and Technology, Trondheim, Norway

IAC-05-E5.P.02

International cooperation and strategy towards the development of space aid for energy

Mr. Alexandre Nicolas, International Space University (ISU), Laval, Canada

Ms. Karin Schwimbersky, International Space University (ISU), Salzburg, Austria

IAC-05-E5.P.03

SAFE3-Space Aid for Energy, Environment, and Economy

Ms. Elisabeth Ackerler, International Space University (ISU), Wien, Austria

IAC-05-E5.P.04

Space know-how and Space Spin-Offs – whether a question of existence or luxury for societies of developing countries

Mr. Sethu Nandakumar, -, Coventry, United Kingdom

IAC-05-E5.P.05

Tranquillity Base Protection & Preservation

Mr. Cian Curran, Dublin Institute of Technology, Swords, Ireland

IAC-05-E5.P.06

Cognitive Strategies for a Lunar Base

Ms. Sandra Haeuplik, UT Vienna, Vienna, Austria

IAC-05-E5.P.07

Art, Red Sprites & the NASA Space Shuttle Columbia/MEIDEX

Mr. Peter McLeish, Peter McLeish, LaSalle, Canada

IAC-05-E5.P.08

Communication in multicultural groups

Mrs. Marie De Cock, ESA Education Department, Noordwijk, Netherlands

Mr. Philippe Willekens, ESA, Paris, France, Mr. Tor Viscor, ESA Education Department, EXR-E, Noordwijk ZH, Netherlands

IAC-05-E5.P.09

The Space Synapse System and the Symbiotic Sphere: Proxemics in Space and Feedback through Cultural Diversity on Earth

Mrs. Anna Hill, Space Synapse Ltd, Dublin 8, Ireland

Dr. Marilyn Dudley-Rowley, OPS-Alaska, Petaluma, California, United States, Mr. Jun Okushi, Space Projects Group/Okushi Architects, Mito, Japan

IAC-05-E5.P.10 (WITHDRAWN)

A Concept for Space Tourism

Ms. Anna Schubert, Technische Universität Berlin Sekr. F6, Berlin, Germany

IAC-05-E5.P.11

Establishing an Interdisciplinary Curriculum: Space/Art/Culture

Mr. Steven Deihl, -, New York, United States

IAC-05-E5.P.12

Man, culture and space

Ms. Päivi Jukola, Helsinki University of Technology, Helsinki, Finland

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October 21 2005, 08:30 - 410

A1. Space Life Sciences (joint IAF G./IAA.2.1)

Coordinators: Inessa B. Kozlovskaya (Russia), Ronald J. White (United States)

A1.7. Robotics and Human Missions to Mars and beyond: Challenges in Astrobiology and Planetary Protection

Chairmen: John D. Rummel (United States), Gerda Horneck (Germany)

Rapporteur: Pascale Ehrenfreund (Netherlands)

IAC-05-A1.7.01

Human and Robotic Exploration Targets for Astrobiology in the Solar System

Dr. Dirk Schulze-Makuch, Washington State University, Pullman, United States

Dr. Penelope Boston, New Mexico Tech, Socorro, United States, Dr. Louis Irwin, University of Texas at El Paso, El Paso, United States

IAC-05-A1.7.02

Automated Payload and Instruments for Astrobiology Research Developed and Studied by German Medium-Sized Space Industry in Cooperation with European Academia

Dr. Wolfgang Schulte, Kayser-Threde GmbH, Munich, Germany

IAC-05-A1.7.03

More/AP Maldi for the Detection of Biomolecules on Mars

Ms. Luann Becker, University of California Santa Barbara, Santa Barbara, CA, United States
Dr. William Brinckerhoff, Johns Hopkins University, Laurel, MD, United States, Dr. Robert Cotter, Johns Hopkins University, Baltimore, United States, Dr. Fred Goesmann, Max-Planck Institut, Hannover, Germany, Dr. Martin Hilchenbach, Max-Planck Institut, Hannover, Germany,

IAC-05-A1.7.04

Biological Assessment of Ariane 5 Fairing

Dr. André Debus, CNES, Toulouse, France
Mr. Emmanuel Telmar, Arianespace, Kourou, French Guiana, Mr. Arnaud Boulanger, Institut Pasteur, Cayenne, French Guiana

IAC-05-A1.7.05

The Cyborg Astrobiologist: Learning How to Augment Scientific Exploration by Robots and Astronauts

Dr. Patrick McGuire, Centro de Astrobiologia, Torrejon de Ardoz, Madrid, Spain
Dr. Javier Gomez-Elvira, Centro de Astrobiologia, Torrejon de Ardoz, Madrid, Spain, Dr. Jens Ormó, Centro de Astrobiologia, Torrejon de Ardoz, Madrid, Spain, Dr. Enrique Diaz-Martinez, Instituto Geologico y Minero de España (IGME), Tres Cantos, Madrid, Spain, Prof. Helge Ritter, University of Bielefeld, Bielefeld, Germany,

IAC-05-A1.7.06

Planetary Protection and Human Mars Exploration: Precursor and Analogue Studies

Mr. John D. Rummel, NASA, Washington, DC, United States

IAC-05-A1.7.07

Exobiological missions to outer Solar system

Dr. Michael Simakov, Russian Academy of Sciences, St.Petersburg, Russia

IAC-05-A1.7.08

A Melting Probe, with Applications on Mars, Europa and in Antarctica

Dr. Stephan Ulamec, DLR, Cologne, Germany
Dr. Jens Biele, DLR, Cologne, Germany, Mr. Jörg Drescher, DLR, Cologne, Germany, Mr. Alexander Ivanov, International Space University (ISU), Illkirch-Graffenstaden, France

IAC-05-A1.7.09

The DEPTHX Project: Pioneering Technologies for Exploration of Extraterrestrial Aqueous Channels

Dr. Richard Greenberg, University of Arizona, Tucson, Arizona, United States
Dr. William C. Stone, StoneAeroSPACE, Gaithersburg, MD, United States, Dr. George Kantor, Carnegie Mellon University, Pittsburgh PA, United States, Dr. David Wettergreen, Carnegie Mellon University, Pittsburgh PA, United States, Dr. Daniel D. Durda, Southwest Research Institute, Boulder, CO, United States,

IAC-05-A1.7.10

Radiobiological effects at low temperature and their relevance to astrobiology

Dr. Gerda Horneck, DLR, Köln, Germany

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October 21 2005, 08:30 - Suehiro

A2. Microgravity Sciences and Processes (IAF J.)

Coordinators: Rainer Willnecker (Germany), Antonio Viviani (Italy)

A2.6. Microgravity Platforms

Chairmen: Kenol Jules (United States), Rodolfo Monti (Italy)

Rapporteur: M. Ziad Saghir (Canada)

IAC-05-A2.6.01

GRADFLEX: The Microgravity Experiment for Gradient Driven Fluctuations

Mrs. Barbara Hirtz, ESA/ESTEC, Noordwijk, Netherlands
Dr. Olivier Minster, ESA/ESTEC, Noordwijk, Netherlands, Dr. Frank Molster, ESA/ESTEC, Noordwijk, Netherlands, Mr. Antonio Verga, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A2.6.02

Focus on Foton for ESA's multi-disciplinary scientific program

Mr. Antonio Verga, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A2.6.03

Influence of G-Jitters on Thermodiffusion in a Ternary Mixture: Comparison between Onboard ISS and FOTON Platforms

Dr. Yu Yan, Ryerson University, Toronto, ON, Canada
Dr. M. Ziad Saghir, Ryerson University, Toronto, ON, Canada, Dr. M. Chacha, UAE University, Faculty of Engineering, Al Ain, United Arab Emirates

IAC-05-A2.6.04

The Effect of Vibrations on Heterogeneous Fluids: some Studies in Weightlessness

Dr. Daniel Beysens, CEA, Paris, France
Dr. Yves Garrabos, CNRS, Pessac, France, Dr. Pierre Evesque, Ecole Centrale Paris, Chatenay Malabry, France, Eng. Carole Lecoutre, CNRS, Pessac, France, Eng. Fabien Palencia, CNRS, Pessac, France,

IAC-05-A2.6.05

Automatic system for seedling growth onboard of unmanned spacecrafts

Dr. Veronica De Micco, Università degli Studi di Napoli "Federico II", Portici - Naples, Italy
Dr. Raimondo Fortezza, MARS s.r.l., Naples, Italy, Dr. Dario Castagnolo, MARS s.r.l., Naples, Italy, Mr. Pasquale Eduardo, University of Naples Federico II, Portici (Naples), Italy, Mr. Marco Haladich, University of Naples Federico II, Portici (Naples), Italy,

IAC-05-A2.6.06

Effects of microgravity on single neurons in the central nervous system of the house cricket *Acheta domesticus* during embryogenesis.

Dr. Uta Kirschnick, Friedrich-Schiller-University Jena, Jena, Germany
Prof. Dr. Eberhard Horn, University Ulm, Ulm, Germany, PD Dr. Hans-Jürgen Agricola, Friedrich-Schiller-University Jena, Jena, Germany

IAC-05-A2.6.07

The In-Space Soldering Investigation: Research Conducted on the International Space Station in Support of NASA's Exploration Initiative

Dr. Richard Grugel, NASA Marshall Space Flight Center, Huntsville, Alabama, United States

IAC-05-A2.6.08

The Pore Formation and Mobility Investigation: A Summary of Conducted Research on the International Space Station

Dr. Richard Grugel, NASA Marshall Space Flight Center, Huntsville, Alabama, United States

IAC-05-A2.6.09

Soyuz Missions and Taxi Flight: New Opportunities for Technology Development

Dr. Raimondo Fortezza, MARS s.r.l., Naples, Italy

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October 21 2005, 08:30 - 203

A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.5.A. Small Bodies Missions and Technologies (Part 1)

Chairmen: Susan McKenna-Lawlor (Ireland), Stephan Ulamec (Germany)

Rapporteur: Marc D. Rayman (United States), Zhengxin Liu (China)

IAC-05-A3.5.A.01

Hayabusa (MUSES-C) - Rendezvous and Proximity Operation

Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagamihara, Japan

IAC-05-A3.5.A.02

Advanced Technologies Applied to "HAYABUSA" Asteroid Explorer

Mr. Yasuo Horiuchi, NEC TOSHIBA Space Systems (NTS), Tokyo, Japan

Mr. Shinji Hagino, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan, Mr. Takeshi Oshima, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan, Mr. Masashi Uo, NEC TOSHIBA Space Systems (NTS), Yokohama, Japan, Dr. Hitoshi Kuninaka, JAXA/ISAS, Sagamihara, Japan,

IAC-05-A3.5.A.03

Results from the Deep Impact Mission

Mr. Michael F. Ahern, University of Maryland, College Park, United States

IAC-05-A3.5.A.04

Rosetta on its way to the Outer Solar System

Mrs. Elsa Montagnon, ESA/ESOC, Darmstadt, Germany
Mr. Paolo Ferri, ESA/ESOC, Darmstadt, Germany

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A3. Space Exploration (IAF Q.)

Coordinators: Gordon P. Whitcomb (Netherlands), Christian Sallaberger (Canada)

A3.5.B. Small Bodies Missions and Technologies (Part 2)

Chairmen: Susan McKenna-Lawlor (Ireland), Stephan Ulamec (Germany)

Rapporteur: Marc D. Rayman (United States), Zhengxin Liu (China)

IAC-05-A3.5.B.01

Preparing for the Dawn Mission to Vesta and Ceres

Dr. Marc D. Rayman, NASA, Pasadena, CA, United States
Mr. Thomas C. Fraschetti, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States, Dr. Carol A. Raymond, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States, Dr. Christopher T. Russell, University of California, Los Angeles, Los Angeles, CA, United States

IAC-05-A3.5.B.02

ESA studies on the Don Quijote NEO mission: Dealing with impact uncertainties

Mr. Andrés Gálvez, ESA/ESTEC, Noordwijk, Netherlands
Mr. Arnaud Bourdoux, ESA/ESTEC, Noordwijk, Netherlands, Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.5.B.03

Propulsive and Impulsive Deflection of Hazardous near Earth Asteroids using Spacecraft with High Power Electric Propulsion

Dr. Roger Walker, ESA/ESTEC, Noordwijk, Netherlands
Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands, Ms. Cristina de Negueruela, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-A3.5.B.04

The Scenario and scheme of exploring Nereus Asteroid Mission

Mr. Cui Pingyuan, Beijing University of Technology, Beijing, China

Mr. Qiao Dong, Harbin Institute of Technology, Harbin, China, Mr. Cui Hutao, Harbin Institute of Technology, Harbin, China

IAC-05-A3.5.B.05

High-Energy Small Body Missions Using Solar Sail Propulsion

Prof. Colin R. McInnes, University of Strathclyde, Glasgow, United Kingdom

Mr. Gareth W. Hughes, University of Glasgow, Glasgow, United Kingdom, Mr. Malcolm Macdonald, University of Glasgow, Glasgow, United Kingdom

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October 21 2005, 08:30 - Palace Room A

B3. Space Communications and Navigation Symposium (IAF M.)

Coordinators: Muthuda Gahalli Chandrasekhar (United States), Robert D. Briskman (United States)

B3.6. Near-Earth and Interplanetary Communications Systems

Chairmen: Matt C. Nilson (United States), Ramon P. De Paula (United States)

Rapporteur: Makoto Kajii (Japan)

IAC-05-B3.6.01

Optical Data Links for L1 and Mars Missions

Mr. Manfred Wittig, ESA/ESTEC, Noordwijk, Netherlands

IAC-05-B3.6.02

2009 Mars Telecommunications Orbiter (MTO)

Mr. Ramon P. De Paula, NASA, Washington, DC, United States

IAC-05-B3.6.03

Study on ISL network structure in LEO satellite communication systems

Mr. Ryutaro Suzuki, National Institute of Information and Communications Technology, Koganei, Japan
Prof. Yasuhiko Yasuda, Waseda University, Tokyo, Japan

IAC-05-B3.6.04

Mars Exploration Deep Space Return Link Scenarios and Transmit System Optimization

Mr. Gary Noreen, Jet Propulsion Laboratory, Pasadena, United States

IAC-05-B3.6.05

Proximity Link UHF Transponder for Small Planetary Landers

Mr. Jeremie Benoist, CNES, Toulouse, France

IAC-05-B3.6.06

Design of Onboard Communication Systems for Formation Flight SCOPE Mission

Mr. Tomoaki Toda, ISAS/JAXA, Sagami-hara Kanagawa, Japan

Dr. Yoshifumi Saito, Japan Aerospace Exploration Agency, Sagami-hara Kanagawa, Japan, Dr. Yuichi Tsuda, Japan Aerospace Exploration Agency, Sagami-hara, Kanagawa, Japan

IAC-05-B3.6.07

A large hexagonal loop antenna with a metallic core for the YES2 space-tethered satellite

Mr. Luis Rolo, ESA/ESTEC, Leiden, Netherlands

IAC-05-B3.6.08

Norwegian student satellite Ground Segment Svalbard

Mr. Torgeir Prytz, Narvik University College, Narvik, Norway

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October 21 2005, 08:30 - 409

C1. Astrodynamics Symposium (IAF A.)

Coordinators: Arun Misra (Canada), Alberto Foni (Italy)

C1.8. Guidance and Control

Chairmen: Junichiro Kawaguchi (Japan), Filippo Graziani (Italy)

Rapporteur: Werner Enderle (Australia)

IAC-05-C1.8.01

Flight Mechanics Support to the Selection of Candidate Vehicles for Human Space Transportation and Experimental Atmospheric Entry

Mr. Rodrigo Haya Ramos, DEIMOS Space S.L., Tres Cantos, Spain

Mr. Juan-Carlos Bastante, DEIMOS Space, Tres Cantos, Madrid, Spain, Mr. Joao Araujo, DEIMOS Engenharia, Lisboa, Portugal, Mr. Augusto Caramagno, DEIMOS Space, Tres Cantos, Madrid, Spain, Mr. Stefano Portigliotti, Alenia Spazio, Turin, Italy,

IAC-05-C1.8.02

A New Real-Time Guidance Strategy for Aerodynamic Ascent Flight

Mr. Takayuki Yamamoto, The University of Tokyo, Sagami-hara, Japan

Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagami-hara, Japan

IAC-05-C1.8.03

Flight Control Law Design for Launch Vehicles Using Disturbance Observers

Dr. Shinji Ishimoto, JAXA/ISTA, Tokyo, Japan

IAC-05-C1.8.04

Fuel-Efficient Maneuvers for Constellation Initialization Using Fuzzy Logic Control

Dr. Mengfei Yang, Tsinghua University, Beijing, China

Dr. Honghua Zhang, Beijing Institute of Control Engineering, Beijing, China

IAC-05-C1.8.05

A New Method for Terminal Area Guidance for future Reusable Launch Vehicles

Mr. James Chartres, University of Adelaide, Adelaide, Australia

Mr. Michael Graesslin, University of Stuttgart, Stuttgart, Germany, Dr. Gerald Schneider, University of Adelaide, Adelaide, Australia

IAC-05-C1.8.06

Nonlinear Dynamical Analysis for the Control of a Reentry Vehicle in Hypersonic Flight

Prof. Norihiro Goto, Kyushu University, Fukuoka, Japan

Mr. Junichiro Kawaguchi, Kyushu University, Fukuoka, Japan

IAC-05-C1.8.07

A controlled reentry system based on autogyro attitude stabilization

Mr. Paolo Teofilatto, University of Rome La Sapienza, Rome, Italy

IAC-05-C1.8.08

An Autonomous Optical Guidance and Navigation Strategy in Flying-by Small Objects

Mr. Kohta Tarao, University of Tokyo, Kanagawa, Japan

Dr. Osamu Mori, Japan Aerospace Exploration Agency (JAXA), Sagami-hara, Kanagawa, Japan, Dr. Junichiro Kawaguchi, JAXA Institute of Space and Astronautical Science, Sagami-hara, Japan

IAC-05-C1.8.09

Nonlinear Optimal Guidance Control for Lunar Trajectory Tracking Descent

Dr. Wang Dayi, Beijing Institute of Control Engineering, Beijing, China

Prof. Li Tieshou, Beijing Institute of Control Engineering, Beijing, China

IAC-05-C1.8.10

Design of Guidance and Control Algorithms for A Vision Based Navigation Rendezvous Mission on Mars Orbit

Mr. Emanuele Di Sotto, DEIMOS Engenharia, Lisbon, Portugal

Mr. Francisco Câmara, DEIMOS Engenharia, Lisbon, Portugal, Mr. Augusto Caramagno, DEIMOS Space, Tres Cantos, Madrid, Spain, Mr. Salvatore Mancuso, ESA/ESTEC, Noordwijk, Netherlands, Dr. Luis F. Penin, DEIMOS Engenharia, Lisboa, Portugal

C2. Materials and Structures Symposium (IAF I.)

Coordinators: Pavel Trivailo (Australia), Constantinos Stavrinidis (Netherlands), Robert J. Hayduk (United States), Ernst Hornung (Germany)

C2.7. Specialized Technologies, including Nanotechnologies

Chairmen: Pavel Trivailo (Australia), Michael J. Eiden (Netherlands)

Rapporteur: Pierre Rochus (Belgium)

IAC-05-C2.7.01**Comfort and Microgravity Design of ISS Pressurized Modules under On-Orbit Vibro-Acoustic Environment**

Mr. Pietro Carlo Marucchi Chierro, Alenia Spazio S.p.A., Torino, Italy

Mr. Stefano Destefanis, Alenia Spazio S.p.A, Torino, Italy,

Mr. Massimo Martini, Alenia Spazio S.p.A, Torino, Italy

IAC-05-C2.7.02**Adaptive Deflection Limiting Control for Slewing Flexible Space Structures**

Dr. Hirohisa Kojima, Tokyo Metro. Inst. of Tech., Hino, Japan

IAC-05-C2.7.03**Combustion Gas Heating Tests of Composite Materials**

Dr. Shinichi Moriya, JAXA/ISTA, Kakuda, Japan

IAC-05-C2.7.04**Experimental Characterisation of the CIRA Plasma Wind Tunnel SCIROCCO Test Section**

Researcher Carlo Purpura, CIRA, Capua, Italy

Researcher Paolo Barrera, University of Palermo, Palermo, Italy, Mr. Federico De Filippis, C.I.R.A. Italian Aerospace Research Centre, Capua, Italy, Engineer Davide Mandanici, University of Palermo, Palermo, Italy

IAC-05-C2.7.05**Polymer Composite and Nanocomposite for Cryogenic Tank Building: Tank Design and Materials Assessment**

Mr. Giovanni Totaro, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

Ms. Stefania Cantoni, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy, Dr. Fiorenzo Lenzi, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy, Dr. Luigi Scatteia, C.I.R.A. Italian Aerospace Research Centre, Capua (CE), Italy

IAC-05-C2.7.06**The smallest particles, the biggest projects**

Mr. Alberto Jimenez Suarez, Universidad Carlos III de Madrid, Leganes, Spain

IAC-05-C2.7.07**Influence of Finite Rate Chemistry and Gas-Surface interaction on the Heat Flux Evaluation of a Re-entry Vehicle**

Stefano Bisceglia, Università degli Studi di Roma "La Sapienza", Rome, Italy

Prof. Francesco Grasso, Università degli Studi di Roma "La Sapienza", Roma, Italy, Dr. Giuliano Ranuzzi, CIRA, Capua, Italy

IAC-05-C2.7.08**Thermal Vacuum Test of the Thermal Model of the SACI Satellite.**

Dr. Marcio Bueno dos Santos, INPE, São José dos Campos, SP, Brazil

Dr. Ezio Castejon Garcia, Instituto Tecnológico de Aeronáutica – ITA – IEM, São José dos Campos, Brazil, Dr. Issamu Muruoka, INPE, São José dos Campos, Brazil

IAC-05-C2.7.09**Mechanically Strong Lightweight Porous Materials for Aerospace Applications (X-Aerogels)**

Dr. Nicholas Leventis, NASA Glenn Research Center, Cleveland, United States

IAC-05-C2.7.10**Advanced Materials for Space Applications**

Dr. Ruth H. Pater, NASA Langley Research Center, Hampton, VA, United States

Dr. Paul Curto, NASA Headquarters, Washington, DC, United States

C3. Space Power Symposium (IAF R.)

Coordinators: John C. Mankins (United States)

C3.4. The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Transportation)

Chairmen: Ivan Bekey (United States), Atsutarō Watanabe (Japan)

Rapporteur: Paul A. Czysz (United States), Frank Steinsiek (Germany)

IAC-05-C3.4-D2.8.01**Space Power-Propulsion System Converting Solar Energy into Kinetic Energy of Propellant via MHD Devices**

Dr. Vadim Slavin, Krasnoyarsk State Technical University, Krasnoyarsk, Russia

IAC-05-C3.4-D2.8.02**Laser Orbital Transfer Vehicle for Space Solar Pumped Laser Power Station**

Dr. Shigeaki Uchida, Tokyo Institute of Technology, Tokyo, Japan

IAC-05-C3.4-D2.8.03**Study of Space Transportation for Space Solar Power System**

Dr. Shoji Kitamura, Japan Aerospace Exploration Agency, JAXA, Chofu, Japan

Dr. Yasushi Okawa, Japan Aerospace Exploration Agency (ISTA/JAXA), Chofu, Tokyo, Japan, Mr. Hiroshi Aoki, Japan Aerospace Exploration Agency (JAXA), Chofu-city, Japan, Mr. Hirofumi Taniguchi, Japan Aerospace Exploration Agency, JAXA, Tsukuba,, Japan

IAC-05-C3.4-D2.8.04**High-Voltage Array Ground Test for Direct-Drive Solar Electric Propulsion**

Mr. Joe T. Howell, NASA, Huntsville, Alabama, United States

Mr. Mark O'Neill, ENTECH, Inc., Keller, Texas, United States

IAC-05-C3.4-D2.8.05

Study of Lunar Orbiting Space Solar Power Satellite
Dr. Mitsuhide Oda, JAXA, Ibaraki-ken, Japan
Mr. Masahiro Mori, JAXA, Tsukuba-shi, Japan

IAC-05-C3.4-D2.8.06

Feasibility Study of Tethered Solar Power Satellite
Prof. Susumu Sasaki, Institute of Space and Astronautical Sciences (ISAS), Sagamihara, Japan
Dr. Ken Higuchi, ISAS/JAXA, Sagamihara, Kanagawa, Japan, Dr. K. Ishimura, Hokkaido Univ., , Japan, Dr. S. Kawasaki, Kyoto Univ., , Japan, Dr. N. Okuizumi, JAXA/ISAS, Sagamihara, Kanagawa, Japan,

IAC-05-C3.4-D2.8.07

Space Solar Power System with Advanced Stirling Engine
Prof. Sergey L. Finogenov, Moscow State Aviation Institute, Moscow, Russia
Prof. Oleg Kudrin, Moscow State Aviation Institute, Moscow, Russia, Prof. Alexander Kolomentsev, Moscow Aviation Institute, Moscow, Russia

IAC-05-C3.4-D2.8.08

The New Case for Solar Power for Mars Surface Exploration
Mr. Sandro Catanzaro, Massachusetts Institute of Technology (MIT), Cambridge, United States
Mrs. Afreen Siddiqi, Massachusetts Institute of Technology (MIT), Cambridge, United States, Mr. Julien-Alexandre Lamamy, Massachusetts Institute of Technology, Somerville, United States, Dr. Jeffrey Hoffman, Massachusetts Institute of Technology (MIT), Cambridge, United States

IAC-05-C3.4-D2.8.09

Development of Solar-pumped Lasers for Space Solar Power Station
Dr. Taku Saiki, Institute for Laser Technology, Suita, Japan
Dr. Shinji Motokoshi, Institute for Laser Technology, Osaka, Japan

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C4. Space Propulsion Symposium (IAF S.)
Coordinators: Dana G. Andrews (United States), Claudio Bruno (Italy)

C4.6. Advanced Propulsion - Non Chemical, non Electric
Chairmen: Oleg A. Gorshkov (Russia), Shigeru Aso (Japan)
Rapporteur: Timothy J. Lawrence (United States)

IAC-05-C4.6.01

Experimental study on microwave beaming propulsion using a 1MW-class gyrotron
Mr. Yasuhisa Oda, University of Tokyo, Chiba, Japan
Mr. Atsushi Kasugai, Japan Atomic Energy Research Institute, Ibaraki, Japan, Dr. Kimiya Komurasaki, University of Tokyo, Chiba, Japan, Dr. Keishi Sakamoto, Japan Atomic Energy Research Institute, Ibaraki, Japan, Dr. Koji Takahashi, Japan Atomic Energy Research Institute, Ibaraki, Japan

IAC-05-C4.6.02

Design and development of an electro-dynamic tape-tether deployment system
Mr. Steven van de Heijning, Delft University of Technology, Delft, Netherlands
Prof. Barry Zandbergen, Delft University of Technology, Delft, Netherlands

IAC-05-C4.6.03

The Coupling of Charge and Mass as a Propulsive Mechanism
Mr. Rey Jan Garma, United States Air Force Academy, USAF Academy, United States

IAC-05-C4.6.04

Numerical Analysis of Energy Conversion Process via Laser Supported Detonation Wave in Pulse Laser Propulsion
Dr. Hiroshi Katsurayama, University of Tokyo, Tokyo, Japan
Prof. Yoshihiro Arakawa, University of Tokyo, Tokyo, Japan, Dr. Kimiya Komurasaki, University of Tokyo, Chiba, Japan

IAC-05-C4.6.05

Advanced Solar Thermal Propulsion Concept Trade Study
Prof. Sergey L. Finogenov, Moscow State Aviation Institute, Moscow, Russia
Prof. Oleg Kudrin, Moscow State Aviation Institute, Moscow, Russia, Prof. Alexander Kolomentsev, Moscow Aviation Institute, Moscow, Russia

IAC-05-C4.6.06

Magnetohydrodynamics Accelerator Performance with Equilibrium Air for Space Application
Mr. Makbul Anwari, Nagaoka University of Technology, Nagaoka, Japan
Mr. Nobuomi Sakamoto, Nagaoka University of Technology, Nagaoka, Japan, Mr. Triwahju Hardianto, Nagaoka University of Technology, Nagaoka, Japan, Prof. Nobuhiro Harada, Nagaoka University of Technology, Nagaoka, Japan

IAC-05-C4.6.07

Numerical Study of Magneto Plasma Sail by Using Three-Dimensional Hybrid Code
Mr. Daisuke Shinohara, Kyushu University, Fukuoka, Japan
Dr. Yoshihiro Kajimura, Kyushu University, Fukuoka, Japan, Dr. Hideki Nakashima, Kyushu University, Kasuga City, Japan, Mr. Kenji Noda, Kyushu University, Fukuoka, Japan

IAC-05-C4.6.08

MOA: Magnetic Field Oscillating Amplified Thruster
Mr. Norbert Frischauf, Booz Allen Hamilton, Zwölfaxing, Austria
Mr. Tobias Bartusch, University of Augsburg, Neusäß, Germany, Dr. Andreas Grassauer, Green Hills Biotechnology, Vienna, Austria, Mr. Manfred Hettmer, Manfred Hettmer Datenverarbeitung, Vienna, Austria

IAC-05-C4.6.09

Characterization of laser propulsion technology for on-orbit thruster
Dr. Shigeaki Uchida, Tokyo Institute of Technology, Tokyo, Japan

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Coordinators: David Y. Kusnierkiewicz (United States), Jean-Louis Marcé (France)

D1.4. Space Systems Architectures

Chairmen: Charles D. Edwards (United States), Erick Lansard (France)
Rapporteur: David Y. Kusnierkiewicz (United States)

IAC-05-D1.4.01

A Model to Assess the Mars Telecommunications Network Relay Robustness

Mr. André Girerd, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States

Dr. Charles D. Edwards, NASA/JPL, Pasadena, CA, United States, Dr. Charles Lee, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States, Dr. Leila Meshkat, Jet Propulsion Laboratory / Caltech, Pasadena, CA, United States

IAC-05-D1.4.02

Computer Simulation of Remote Synchronization System of Onboard Crystal Oscillators for Quasi-Zenith Satellites

Dr. Toshiaki Iwata, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan

Mr. Yasuhiro Fukuyama, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, Mr. Ken Hagimoto, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, Dr. Takeshi Ikegami, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, Mr. Michito Imae, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan,

IAC-05-D1.4.03

Mission Concept for Autonomous on-orbit Assembly of a Large reflector in space

Dr. Dario Izzo, ESA/ESTEC, Noordwijk, Netherlands

Dr. Mark Ayre, ESA/ESTEC, Noordwijk, Netherlands, Mr. Lorenzo Pettazzi, ZARM - University of Bremen, Bremen, Germany

IAC-05-D1.4.04

Distributed Information and Electric Power Network for Panel Extension Satellite (PETSAT)

Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan

Mr. Takashi Eishima, University of Tokyo, Tokyo, Japan, Dr. Hironori Sahara, University of Tokyo, Tokyo, Japan, Mr. Yuya Nakamura, University of Tokyo, Tokyo, Japan, Ms. Chisato Kobayashi, -, Higashi Osaka, Japan,

IAC-05-D1.4.05

Multi-Agent Ground-Operations Automation Architecture

Mrs. Adriana Carniello Biancho, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil

Ms. Andreia Carniello, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil, Mr. Mauricio Gonçalves Vieira Ferreira, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos-SP, Brazil, Mr. José Demisio Simões da Silva, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos-SP, Brazil, Mrs. Luciana Sêda Cardoso, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil

IAC-05-D1.4.06

Low-Cost and Reliable Ground Station Network to Improve Operation Efficiency for Micro/Nano-Satellites

Mr. Yuya Nakamura, University of Tokyo, Tokyo, Japan

Mr. Yasuhisa Oda, University of Tokyo, Chiba, Japan, Prof. Shinichi Nakasuka, University of Tokyo, Tokyo, Japan

IAC-05-D1.4.07

System Design and Performance of the Two-Gyro Science Mode for the Hubble Space Telescope

Mr. Michael Prior, NASA Goddard space Flight Center, Greenbelt, Maryland, United States

Mr. Larry Dunham, -, Seabrook, Maryland, United States

IAC-05-D1.4.08

A Space Borne Safeguard Data Recorder based on Flash Memory

Mr. Mike Cassel, Technische Universität Braunschweig, Braunschweig, Germany

IAC-05-D1.4.09

Experimental Design Concept for a Microgravity Whole Body Cleansing System

Mr. Tobias Bittner, International Space University (ISU), Ottobrunn, Germany

Mr. Julio Aprea Perez, International Space University (ISU), Leiden, Netherlands, Mr. Damian Rogers, International Space University (ISU), Burlington, Canada, Mr. Angelo Grubisic, International Space University (ISU), Kiddeminster, United Kingdom

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D2. Space Transportation Symposium (IAF V.)

Coordinators: Christophe Bonnal (France), Richard Tyson (United States)

D2.8. The Relationship between Large Space Power Systems and Future Space Transportation (Joint session with the Space Power Symposium)

Chairmen: Ivan Bekey (United States), Atsutaro Watanabe (Japan)

Rapporteur: Paul A. Czysz (United States), Frank Steinsiek (Germany)

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E6. 48th Colloquium on Law of Outer Space (IISL)

Coordinators: Tanja Masson-Zwaan (Netherlands)

E6.5. Convergence and Privatisation in Telecommunications: Institutional and Other Responses

Chairmen: Gabriella Catalano Sgrosso (Italy), Kasuhiro Nakatani (Japan)

Rapporteur: Motoko Uchitomi (Japan)

IAC-05-E6.5.01

Private Law Rules for the Commercial Activities in Space: Lex Ferenda

Prof. Souichirou Kozuka, Sophia University, Tokyo, Japan

IAC-05-E6.5.02

“Common heritage of man Kind” – property rights, in the wake of commercial use of the moon and other celestial bodies

Mr. Sethu Nandakumar, -, Coventry, United Kingdom

IAC-05-E6.5.03

Astro Law as Common Law Extended into the Outer Space Territory

Mr. Declan ODonnell, United Societies in Space, Inc., Castle Rock, CO, United States

IAC-05-E6.5.04

Project 2001 Plus: Global and European Challenges for Air and Space Law at the Edge of the 21st Century

Mr. Stephan Hobe, Institute of Air Space Law, Cologne, Germany

IAC-05-E6.5.05

Emergency for natural Disasters-Prevention and Management

Prof. Gabriella Catalano Sgrosso, University of Rome - Facoltà di Economia, Rome, Italy

IAC-05-E6.5.06

Calaciran: A Dispute Settlement Mechanism for International Space Law

Ms. Gérardine Meishan Goh, University of Leiden, Oegstgeest, Netherlands

IAC-05-E6.5.07

The UN General Assembly Resolution "Application of the concept of the 'launching State'"

Dr. Kai-Uwe Schrogl, Deutsches Zentrum für Luft und Raumfahrt e.V. (DLR), Köln, Germany

IAC-05-E6.5.08

How to adapt the present regime for registration of space objects to new developments in space applications?

Mr. Dr. Bernhard Schmidt-Tedd, DLR German Aerospace Center, Bonn-Oberkassel, Germany

Dr. Michael Gerhard, German Aerospace Center (DLR), Bonn-Oberkassel, Germany

IAC-05-E6.5.09

Thirtieth Anniversary of the 1975 Convention on Registration of Objects Launched into Outer Space: a Brief Reflexion

Prof. Maurice N. Andem, University of Lapland, Rovaniemi, Finland

IAC-05-E6.5.10

Progress Toward an Asteroid Deflection Treaty

Dr. Liara Covert, University of New Brunswick, Rothesay, Canada

IAC-05-E6.5.11

The UN Post-Conflict Peacebuilding and Space Arms Control

Ms. Yuri Takaya-Umehara, Paris XI Univ., Kashima, Japan

IAC-05-E6.5.12

Export Control and Dual Use of Space Technologies

Ms. Amal Rakibi, IDEST- CNRS, Noisy-le-sec, France

IAC-05-E6.5.13

The Euro-Russian cooperation in space and Export Controls: policies and practices

Mrs. Maria Ejova, International Space University (ISU), Paris, France

IAC-05-E6.5.14

Legal Aspects of Expanding Human Presence beyond Low Earth Orbit-Safeguards for Underdeveloped Countries

Mr. Mehmood Pracha, Organisation for Promotion of Legal Awareness (OPLA), New Delhi, India

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Breysse	A	37	IAC-05-B1.3.04
Briess	CA	103	IAC-05-B5.6.B.03
Brinckerhoff	A	35	IAC-05-A3.3.05
Brinckerhoff	CA	132	IAC-05-A1.7.03
Brockerville	CA	97	IAC-05-A1.6.04
Brotzu	CA	85	IAC-05-B4.4.01
Bruhn	A	42	IAC-05-D1.2.07
Bruno	A	107	IAC-05-C3.5-C4.7.02
Bruno	CA	93	IAC-05-D2.6.09
Bruno	A	21	IAC-05-B1.2.08
Bubacz	A	123	IAC-05-C2.P.16
Bucher	CA	43	IAC-05-D2.3.05
Budi Utama	CA	58	IAC-05-C4.3.05
Bueno dos Santos	A	138	IAC-05-C2.7.08
Bueno dos Santos	CA	106	IAC-05-C2.6.10
Buettner	CA	97	IAC-05-A1.6.09
Bulgarelli	CA	25	IAC-05-C2.1.B.06
Bulman	CA	58	IAC-05-C4.3.03
Buquet	A	126	IAC-05-D1.P.06
Burdakov	CA	11	IAC-05-C4.1.07
Burek	A	62	IAC-05-E2.3.05
Bureo Dacal	CA	72	IAC-05-C2.4.02
Burgess	A	79	IAC-05-E5.3.06
Burgess	A	36	IAC-05-A4.2.01
Burke	A	63	IAC-05-E5.2.04
Burke	CA	18	IAC-05-A3.4.05
Burzlauff	CA	3	IAC-05-A3.1.09
Burzykowska	A	63	IAC-05-E5.2.07
Burzykowska	CA	48	IAC-05-E6.2.03
Bush	A	95	IAC-05-E3.2.07
Busuiocanu	CA	81	IAC-05-A1.1.03
Butler	CA	44	IAC-05-D4.2.04

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Cabrera	A	33	IAC-05-A1.3.02
Cacciani	CA	119	IAC-05-B1.P.02
Caffyn	A	76	IAC-05-D4.1.04
Cai	CA	125	IAC-05-C4.P.04
Cai	CA	125	IAC-05-C4.P.18
Calabro	A	11	IAC-05-C4.1.05
Callas	CA	35	IAC-05-A3.3.01
Caluwaerts	A	116	IAC-05-A2.P.02
Cámara	CA	137	IAC-05-C1.8.10
Cambon	A	66	IAC-05-A2.5.02
Campagnola	A	9	IAC-05-C1.1.06

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Campbell	CA	10	IAC-05-C2.1.A.10
Camus	CA	42	IAC-05-D1.2.05
Canalias	A	9	IAC-05-C1.1.07
Candel	CA	58	IAC-05-C4.3.08
Cannon	CA	51	IAC-05-A5.2.01
Canovai	CA	53	IAC-05-B4.2.04
Cantoni	CA	138	IAC-05-C2.7.05
Cao	A	34	IAC-05-A2.3.07
Cao	A	65	IAC-05-A1.4.06
Capiozzo	A	130	IAC-05-E2.P.05
Caponero	CA	85	IAC-05-B4.4.01
Caramagno	CA	9	IAC-05-C1.1.02
Caramagno	CA	137	IAC-05-C1.8.10
Caramagno	CA	105	IAC-05-C1.7.02
Caramagno	CA	137	IAC-05-C1.8.01
Cardoso	CA	141	IAC-05-D1.4.05
Cardozo	CA	57	IAC-05-C2.3.10
Carlevi	CA	123	IAC-05-C2.P.06
Carnicero	CA	105	IAC-05-C1.7.02
Domínguez			
Carniello	CA	141	IAC-05-D1.4.05
Caron	A	53	IAC-05-B4.2.06
Carrin	CA	21	IAC-05-B1.2.06
Carrington	CA	29	IAC-05-D3.2.04
Casalis	CA	46	IAC-05-E2.2.08
Casotto	CA	9	IAC-05-C1.1.05
Cassel	A	141	IAC-05-D1.4.08
Castagnolo	CA	133	IAC-05-A2.6.05
Castejon Garcia	A	106	IAC-05-C2.6.10
Castejon Garcia	CA	138	IAC-05-C2.7.08
Castillo Arganaras	A	80	IAC-05-E6.4.14
Catalano Sgrosso	A	143	IAC-05-E6.5.05
Catanzaro	A	139	IAC-05-C3.4-D2.8.08
Catanzaro	A	12	IAC-05-D2.1.09
Catanzaro	CA	51	IAC-05-A5.2.02
Cattaneo	CA	62	IAC-05-E2.3.04
Cawthorne	A	38	IAC-05-B5.4.01
Celeste	CA	124	IAC-05-C3.P.07
Celton	A	77	IAC-05-E1.2.04
Centuori	CA	92	IAC-05-D1.3.05
Ceriotto	A	9	IAC-05-C1.1.08
Ceriotto	CA	8	IAC-05-B5.2.09
Ceriotto	CA	71	IAC-05-C1.5.05
Chabert	CA	74	IAC-05-C4.4.04
Chacha	A	50	IAC-05-A2.4.02
Chacha	CA	133	IAC-05-A2.6.03
Champliaud	CA	124	IAC-05-C3.P.03
Chang	CA	115	IAC-05-A1.P.18
Chant	CA	87	IAC-05-B6.4.02
Charania	A	113	IAC-05-E3.3.08
Charro	CA	27	IAC-05-D1.1.03
Chartres	A	137	IAC-05-C1.8.05
Chatrov	A	12	IAC-05-D2.1.08
Chedevergne	A	46	IAC-05-E2.2.08
Cheeks	A	16	IAC-05-E5.1.01
Cheganças	A	69	IAC-05-B4.3.07
Chen	A	2	IAC-05-A2.1.03
Chen	A	34	IAC-05-A2.3.04
Chen	CA	2	IAC-05-A2.1.03
Chen	CA	73	IAC-05-C3.2.07
Cheng	CA	23	IAC-05-B5.3./B5.5.02
Chern	A	77	IAC-05-E1.2.07
Chern	A	38	IAC-05-B5.4.05
Chernov	A	71	IAC-05-C1.5.08
Chhun	A	2	IAC-05-A2.1.02
Cho	A	61	IAC-05-D5.1.03
Cho	CA	70	IAC-05-B6.2.08
Cho	CA	27	IAC-05-D1.1.03

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Cho	CA	130	IAC-05-E2.P.09	d Uston	CA	117	IAC-05-A3.P.21
Cho	CA	61	IAC-05-D5.1.04	Da Costa	CA	92	IAC-05-D1.3.05
Cho	CA	73	IAC-05-C3.2.04	Da Fonseca	A	40	IAC-05-C2.2.05
Cho	CA	125	IAC-05-C4.P.11	Da Fonseca	CA	57	IAC-05-C2.3.10
Chobotov	CA	111	IAC-05-D4.3.06	Da Silva	CA	40	IAC-05-C2.2.05
Chocano	CA	101	IAC-05-B3.5.04	da Silva Curriel	CA	117	IAC-05-A3.P.03
Choi	CA	4	IAC-05-B1.1.04	da Silva Curriel	CA	38	IAC-05-B5.4.01
Chollet	CA	81	IAC-05-A1.1.07	da Silva Curriel	CA	103	IAC-05-B5.6.B.10
Chongzhi	A	114	IAC-05-E4.3.06	da Silva Curriel	CA	23	IAC-05-B5.3./B5.5.03
Chounet	CA	26	IAC-05-C4.2.02	Dai	A	115	IAC-05-A1.P.18
Chowdhury	A	115	IAC-05-A1.P.16	Dai	CA	115	IAC-05-A1.P.22
Christol	A	32	IAC-05-E6.1.06	Daigo	CA	94	IAC-05-E1.3.07
Christophe	CA	37	IAC-05-B1.3.01	Daigo	CA	86	IAC-05-B5.6.A.05
Chu	CA	39	IAC-05-C1.3.09	Dajun	A	91	IAC-05-C4.5.07
Churchyard	CA	4	IAC-05-B1.1.01	Daly	CA	61	IAC-05-D5.1.06
Cipollini	CA	93	IAC-05-D2.6.08	Daniel	A	123	IAC-05-C2.P.15
Clacey	A	117	IAC-05-A3.P.05	Daniel	CA	57	IAC-05-C2.3.06
Clacey	A	124	IAC-05-C3.P.02	Daniel	CA	123	IAC-05-C2.P.16
Clacey	CA	113	IAC-05-E3.3.09	Daniel	CA	10	IAC-05-C2.1.A.10
Clacey	CA	99	IAC-05-A3.2.B.10	Daniel	CA	103	IAC-05-B5.6.B.02
Clacey	CA	20	IAC-05-A5.1.09	Danji Virji Bhan- deri	CA	62	IAC-05-E2.3.06
Claudiel	A	12	IAC-05-D2.1.07	Dantowitz	CA	85	IAC-05-B4.4.01
Clement	CA	65	IAC-05-A1.4.04	Danziger	A	25	IAC-05-C2.1.B.03
Clement	A	1	IAC-05-A1.5.05	Danziger	CA	86	IAC-05-B5.6.A.08
Clemente	CA	62	IAC-05-E2.3.02	Danziger	CA	38	IAC-05-B5.4.08
Clemons	A	21	IAC-05-B1.2.02	Dasgupta	CA	83	IAC-05-B1.6.01
Clérigo Vecino	A	27	IAC-05-D1.1.05	Dash	CA	33	IAC-05-A1.3.02
Cloutier	CA	97	IAC-05-A1.6.04	Davies	A	103	IAC-05-B5.6.B.10
Cocuzza	A	25	IAC-05-C2.1.B.06	Davighi	CA	20	IAC-05-A5.1.06
Codan	A	30	IAC-05-E2.1.05	Davighi	CA	62	IAC-05-E2.3.04
Coffee	A	127	IAC-05-D2.P.03	Davis	CA	44	IAC-05-D4.2.07
Coffee	A	33	IAC-05-A1.3.01	Davis	A	49	IAC-05-A1.2.01
Cohen	CA	65	IAC-05-A1.4.02	Davis	CA	51	IAC-05-A5.2.01
Cohen	CA	115	IAC-05-A1.P.19	Dayi	A	137	IAC-05-C1.8.09
Collins	CA	16	IAC-05-E5.1.05	De Angelis	A	45	IAC-05-D5.2.05
Colombi Ciacchi	CA	30	IAC-05-E2.1.05	De Angelis	A	61	IAC-05-D5.1.08
Colombo	A	71	IAC-05-C1.5.05	De Benedetti	A	123	IAC-05-C2.P.17
Colombo	CA	8	IAC-05-B5.2.09	De Benedetti	A	123	IAC-05-C2.P.21
Colombo	CA	9	IAC-05-C1.1.08	De Benedetti	A	123	IAC-05-C2.P.22
Contant Jorgenson	A	96	IAC-05-E3.4.04	De Chiara	A	86	IAC-05-B5.6.A.14
Contreras Fernan- dez	A	30	IAC-05-E2.1.04	De Cock	A	131	IAC-05-E5.P.08
Conway	CA	3	IAC-05-A3.1.09	de Faria	A	57	IAC-05-C2.3.10
Cooper	CA	16	IAC-05-E5.1.05	De Filippis	CA	138	IAC-05-C2.7.04
Cornara	A	105	IAC-05-C1.7.02	de Jong	CA	117	IAC-05-A3.P.12
Cortés	A	120	IAC-05-B3.P.04	De Laune	CA	104	IAC-05-B6.3.06
Costa	CA	112	IAC-05-E1.4.06	De Marneffe	CA	40	IAC-05-C2.2.01
Cotter	CA	132	IAC-05-A1.7.03	De Micco	A	97	IAC-05-A1.6.05
Courtney	A	36	IAC-05-A4.2.02	De Micco	A	133	IAC-05-A2.6.05
Couturier	CA	84	IAC-05-B3.4.03	de Negueruela	A	27	IAC-05-D1.1.04
Couzin	A	82	IAC-05-A3.2.A.03	de Negueruela	CA	71	IAC-05-C1.5.06
Covert	A	143	IAC-05-E6.5.10	de Negueruela	CA	135	IAC-05-A3.5.B.03
Covert	A	22	IAC-05-B2.2.01	de Parolis	CA	69	IAC-05-B4.3.07
Coyne	A	3	IAC-05-A3.1.10	De Pascale	A	9	IAC-05-C1.1.05
Crabtree	A	13	IAC-05-D3.1.04	De Paula	A	136	IAC-05-B3.6.02
Crawley	CA	126	IAC-05-D1.P.03	De Paula	CA	35	IAC-05-A3.3.06
Crawley	CA	13	IAC-05-D3.1.06	De Rose	A	109	IAC-05-D1.5.01
Crocker	CA	45	IAC-05-D5.2.07	De Rose	A	77	IAC-05-E1.2.06
Croon	CA	105	IAC-05-C1.7.05	De Vita	CA	30	IAC-05-E2.1.05
Csengeri	A	118	IAC-05-A5.P.02	de Weck	CA	60	IAC-05-D3.3.07
Curran	A	131	IAC-05-E5.P.05	de Weck	CA	60	IAC-05-D3.3.05
Curreri	CA	20	IAC-05-A5.1.08	de Weck	CA	117	IAC-05-A3.P.11
Currie	CA	93	IAC-05-D2.6.09	de Weck	CA	60	IAC-05-D3.3.03
Currie	CA	85	IAC-05-B4.4.01	DeBiase	A	19	IAC-05-A4.1.04
Curto	CA	138	IAC-05-C2.7.10	Debus	A	132	IAC-05-A1.7.04

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Decourt	CA	30	IAC-05-E2.1.08
Decraemer	A	119	IAC-05-B1.P.11
Degrez	CA	123	IAC-05-C2.P.05
Degtyarev	CA	118	IAC-05-A5.P.03
Degtyarev	CA	16	IAC-05-E5.1.04
Degtyarev	CA	22	IAC-05-B2.2.09
Deihl	A	131	IAC-05-E5.P.11
Del Vecchio	CA	57	IAC-05-C2.3.05
Delmas	CA	42	IAC-05-D1.2.05
Demori	CA	106	IAC-05-C2.6.10
Denning	A	36	IAC-05-A4.2.03
Derosa	A	86	IAC-05-B5.6.A.16
Derosa	CA	100	IAC-05-B3.3.04
Descharles	CA	124	IAC-05-C3.P.07
Deshevaya	CA	97	IAC-05-A1.6.01
Deslauriers	A	97	IAC-05-A1.6.04
Desmarais	CA	62	IAC-05-E2.3.08
Dessinov	CA	5	IAC-05-B2.1.10
Destefanis	CA	138	IAC-05-C2.7.01
Devilliers	A	37	IAC-05-B1.3.03
Dhaliwal	A	15	IAC-05-E3.1.08
Di	CA	91	IAC-05-C4.5.09
Di Maio	CA	112	IAC-05-E1.4.06
di Scioscio	A	72	IAC-05-C2.4.08
Di Sotto	A	137	IAC-05-C1.8.10
Diaz-Martinez	CA	132	IAC-05-A1.7.05
Dickinson	A	41	IAC-05-C3.1.09
Diedrich	CA	81	IAC-05-A1.1.06
Dieker	CA	10	IAC-05-C2.1.A.02
Diez Bilbao	A	14	IAC-05-E1.1.09
Diez Merino	A	37	IAC-05-B1.3.06
Diniega	A	117	IAC-05-A3.P.06
Djojodihardjo	A	40	IAC-05-C2.2.08
Dobarco-Otero	A	104	IAC-05-B6.3.06
Dogigli	CA	10	IAC-05-C2.1.A.03
Dong	CA	87	IAC-05-B6.4.03
Dong	A	18	IAC-05-A3.4.03
Dong	CA	135	IAC-05-A3.5.B.04
Dong	A	103	IAC-05-B5.6.B.04
Doniants	CA	84	IAC-05-B3.4.04
Dos Santos	A	64	IAC-05-E6.3.06
Dougherty	A	114	IAC-05-E4.3.03
Dougherty	A	94	IAC-05-E1.3.01
Douillet	CA	38	IAC-05-B5.4.06
Douyere	A	124	IAC-05-C3.P.07
Dowding	CA	85	IAC-05-B4.4.03
Drescher	CA	132	IAC-05-A1.7.08
Drescher	CA	81	IAC-05-A1.1.06
Dreyer	CA	125	IAC-05-C4.P.06
Drogoul	A	28	IAC-05-D2.2.08
Drummond	A	8	IAC-05-B5.2.10
Du	CA	25	IAC-05-C2.1.B.10
Ducruix	CA	58	IAC-05-C4.3.08
Dudley-Rowley	CA	131	IAC-05-E5.P.09
Dudley-Rowley	CA	15	IAC-05-E3.1.06
Dufour	A	105	IAC-05-C1.7.07
Dumitrescu	A	122	IAC-05-C1.P.07
Duncavage	CA	53	IAC-05-B4.2.09
Dunham	CA	141	IAC-05-D1.4.07
Dunkley	A	34	IAC-05-A2.3.06
Durao	A	54	IAC-05-B5.1.06
Durda	CA	132	IAC-05-A1.7.09
Duzellier	A	61	IAC-05-D5.1.05
Dyer	CA	61	IAC-05-D5.1.06

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Eduardo	CA	84	IAC-05-B3.4.03
Eduardo	CA	133	IAC-05-A2.6.05
Edwards	A	111	IAC-05-D4.3.01
Edwards	A	44	IAC-05-D4.2.02
Edwards	A	35	IAC-05-A3.3.06
Edwards	CA	141	IAC-05-D1.4.01
Efimenko	A	24	IAC-05-C1.2.04
Efimenko	A	40	IAC-05-C2.2.09
Eggers	CA	18	IAC-05-A3.4.05
Eggs	CA	1	IAC-05-A1.5.06
Ehrenfreund	CA	132	IAC-05-A1.7.03
Eichstadt	A	13	IAC-05-D3.1.07
Eishima	CA	38	IAC-05-B5.4.09
Eishima	CA	23	IAC-05-B5.3./B5.5.02
Eishima	CA	141	IAC-05-D1.4.04
Ejova	A	143	IAC-05-E6.5.13
Elias	CA	33	IAC-05-A1.3.08
Ellery	CA	92	IAC-05-D1.3.08
Ellery	CA	117	IAC-05-A3.P.08
Elliott	A	36	IAC-05-A4.2.10
Emdee	A	11	IAC-05-C4.1.01
Endo	A	122	IAC-05-C1.P.13
Engel	A	44	IAC-05-D4.2.09
Engelen	A	58	IAC-05-C4.3.09
Ennekens	A	81	IAC-05-A1.1.09
Eno	CA	115	IAC-05-A1.P.10
Enokuchi	CA	38	IAC-05-B5.4.09
Enokuchi	CA	23	IAC-05-B5.3./B5.5.02
Erickson	A	35	IAC-05-A3.3.01
Eriksen	A	86	IAC-05-B5.6.A.10
Escobar	A	125	IAC-05-C4.P.01
Evans	A	118	IAC-05-A5.P.01
Evans	CA	61	IAC-05-D5.1.06
Evans	A	85	IAC-05-B4.4.06
Eves	CA	103	IAC-05-B5.6.B.10
Evesque	CA	133	IAC-05-A2.6.04

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Facktor Lepore	A	102	IAC-05-B4.5-D2.7.02
Facktor Lepore	A	23	IAC-05-B5.3./B5.5.09
Facktor Lepore	A	59	IAC-05-D2.4.05
Falkner	A	18	IAC-05-A3.4.01
Falkner	CA	117	IAC-05-A3.P.03
Falkner	CA	82	IAC-05-A3.2.A.05
Falkner	CA	82	IAC-05-A3.2.A.07
Faller	A	52	IAC-05-B3.2.04
Faller	CA	68	IAC-05-B1.5.07
Falzone	CA	62	IAC-05-E2.3.02
Fan	A	106	IAC-05-C2.6.08
Farrow	A	124	IAC-05-C3.P.01
Fatuev	A	26	IAC-05-C4.2.10
Fatuev	CA	114	IAC-05-E4.3.01
Favier	A	95	IAC-05-E3.2.08
Fearn	A	107	IAC-05-C3.5-C4.7.04
Fei	A	123	IAC-05-C2.P.10
Felli	CA	85	IAC-05-B4.4.01
Fernández	A	60	IAC-05-D3.3.04
Ferrer Florit	A	89	IAC-05-C2.5.03
Ferri	CA	134	IAC-05-A3.5.A.04
Fico	A	50	IAC-05-A2.4.08
Fico	CA	17	IAC-05-A2.2.04
Fiedler	A	1	IAC-05-A1.5.01
Fiedler	CA	1	IAC-05-A1.5.04

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Fikes	CA	29	IAC-05-D3.2.01
Fikes	CA	41	IAC-05-C3.1.04
Filipenkov	CA	49	IAC-05-A1.2.07
Finamore	A	93	IAC-05-D2.6.09
Finarelli	CA	95	IAC-05-E3.2.03
Finarelli	CA	77	IAC-05-E1.2.05
Finchenko	CA	42	IAC-05-D1.2.08
Finogenov	A	140	IAC-05-C4.6.05
Finogenov	A	139	IAC-05-C3.4-D2.8.07
Finogenov	CA	26	IAC-05-C4.2.05
Finogenov	CA	11	IAC-05-C4.1.07
Finzi	CA	20	IAC-05-A5.1.06
Finzi	CA	62	IAC-05-E2.3.04
Fiorentino	A	11	IAC-05-C4.1.06
Fischer	CA	33	IAC-05-A1.3.05
Flinoise	CA	2	IAC-05-A2.1.02
Flohner	CA	55	IAC-05-B6.1.08
Florin	CA	66	IAC-05-A2.5.06
Flury	CA	121	IAC-05-B6.P.01
Foing	A	20	IAC-05-A5.1.01
Foing	A	99	IAC-05-A3.2.B.01
Foix	CA	84	IAC-05-B3.4.03
Foley	A	117	IAC-05-A3.P.01
Forde	A	58	IAC-05-C4.3.03
Fork	A	90	IAC-05-C3.3.05
Forster	A	123	IAC-05-C2.P.11
Fortezza	A	133	IAC-05-A2.6.09
Fortezza	CA	85	IAC-05-B4.4.01
Fortezza	CA	133	IAC-05-A2.6.05
Fortov	CA	17	IAC-05-A2.2.06
Fortov	A	17	IAC-05-A2.2.05
Fortov	CA	69	IAC-05-B4.3.09
Fossati	A	106	IAC-05-C2.6.09
Fossum	CA	66	IAC-05-A2.5.01
Foulon	A	37	IAC-05-B1.3.01
Foulon	CA	2	IAC-05-A2.1.02
Fox	CA	100	IAC-05-B3.3.01
Fox	CA	101	IAC-05-B3.5.03
Francois	A	8	IAC-05-B5.2.02
Frank	CA	75	IAC-05-D2.5.09
Franke	CA	132	IAC-05-A1.7.09
Frankel	A	106	IAC-05-C2.6.06
Fraschetti	CA	135	IAC-05-A3.5.B.01
Frassetto	A	86	IAC-05-B5.6.A.12
Freeland	A	80	IAC-05-E6.4.01
Freeman	CA	60	IAC-05-D3.3.08
Freire	A	42	IAC-05-D1.2.01
Freire	CA	109	IAC-05-D1.5.07
Freundlich	CA	20	IAC-05-A5.1.08
Frew	CA	117	IAC-05-A3.P.10
Frings	CA	65	IAC-05-A1.4.05
Frischauf	A	140	IAC-05-C4.6.08
Fröhlich	CA	10	IAC-05-C2.1.A.04
From	CA	42	IAC-05-D1.2.02
Fuente	A	17	IAC-05-A2.2.10
Fujii	A	27	IAC-05-D1.1.03
Fujii	CA	24	IAC-05-C1.2.05
Fujii	CA	123	IAC-05-C2.P.23
Fujii	CA	122	IAC-05-C1.P.24
Fujii	CA	56	IAC-05-C1.4.03
Fujii	CA	56	IAC-05-C1.4.04
Fujii	CA	102	IAC-05-B4.5-D2.7.04
Fujii	CA	75	IAC-05-D2.5.02
Fujimoto	CA	75	IAC-05-D2.5.02
Fujino	A	101	IAC-05-B3.5.01
Fujino	CA	101	IAC-05-B3.5.02
Fujishita	A	19	IAC-05-A4.1.05
Fujita	A	91	IAC-05-C4.5.01

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Fujita	CA	91	IAC-05-C4.5.02
Fujita	A	89	IAC-05-C2.5.02
Fujita	A	98	IAC-05-A2.7.02
Fujiwara	CA	72	IAC-05-C2.4.09
Fukuda	CA	103	IAC-05-B5.6.B.05
Fukudome	A	123	IAC-05-C2.P.23
Fukushige	A	70	IAC-05-B6.2.08
Fukushige	CA	87	IAC-05-B6.4.08
Fukushima	CA	16	IAC-05-E5.1.05
Fukushima	A	103	IAC-05-B5.6.B.05
Fukuyama	CA	141	IAC-05-D1.4.02
Fukuzoe	CA	11	IAC-05-C4.1.08
Fukuzoe	CA	93	IAC-05-D2.6.03
Funane	CA	38	IAC-05-B5.4.09
Funane	CA	90	IAC-05-C3.3.01
Funase	A	23	IAC-05-B5.3./B5.5.02
Funase	CA	38	IAC-05-B5.4.09
Funtova	CA	81	IAC-05-A1.1.06
Furihata	CA	109	IAC-05-D1.5.02
Furukawa	CA	58	IAC-05-C4.3.01
Furukawa	CA	125	IAC-05-C4.P.07
Furusho	CA	106	IAC-05-C2.6.10
Furuya	A	123	IAC-05-C2.P.19
Furuya	CA	27	IAC-05-D1.1.01
Furuya	CA	72	IAC-05-C2.4.05

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Gadelha De Souza	A	40	IAC-05-C2.2.03
Gaias	A	92	IAC-05-D1.3.05
Gajdachuk	CA	57	IAC-05-C2.3.07
Gajdachuk	CA	57	IAC-05-C2.3.07
Galant	A	31	IAC-05-E5.4.04
Galimov	CA	20	IAC-05-A5.1.03
Gálvez	A	135	IAC-05-A3.5.B.02
Gangale	A	15	IAC-05-E3.1.06
Gao	CA	123	IAC-05-C2.P.08
García	CA	17	IAC-05-A2.2.10
Garcia Yarnoz	A	105	IAC-05-C1.7.05
Garma	A	140	IAC-05-C4.6.03
Garrabos	CA	133	IAC-05-A2.6.04
Gasnault	CA	117	IAC-05-A3.P.21
Gassend	A	111	IAC-05-D4.3.08
Gassend	CA	44	IAC-05-D4.2.08
Gataullin	A	104	IAC-05-B6.3.04
Gati	CA	66	IAC-05-A2.5.04
Gaudenzi	CA	72	IAC-05-C2.4.01
Gaudre	CA	26	IAC-05-C4.2.02
Gehlenborg	CA	21	IAC-05-B1.2.05
Gehlenborg	CA	103	IAC-05-B5.6.B.09
Gerard	A	127	IAC-05-D2.P.04
Gerard	CA	93	IAC-05-D2.6.06
Gerhard	A	64	IAC-05-E6.3.05
Gerhard	CA	143	IAC-05-E6.5.08
Gerlach	CA	99	IAC-05-A3.2.B.07
Gerstenmaier	CA	7	IAC-05-B4.1.02
Gerzer	CA	97	IAC-05-A1.6.08
Gestal	A	23	IAC-05-B5.3./B5.5.10
Gethov	CA	67	IAC-05-B1.4.03
Ghanbarian	CA	124	IAC-05-C3.P.04
Ghorbani	CA	84	IAC-05-B3.4.02
Gibbs	A	7	IAC-05-B4.1.04
Gibson	A	4	IAC-05-B1.1.01
Giegerich	CA	123	IAC-05-C2.P.11
Giese	CA	125	IAC-05-C4.P.14
Gilbert	CA	56	IAC-05-C1.4.08

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Gill	A	100	IAC-05-B3.3.01
Gill	A	101	IAC-05-B3.5.03
Gillett	A	85	IAC-05-B4.4.07
Girerd	A	141	IAC-05-D1.4.01
Gitelson	A	97	IAC-05-A1.6.07
Giuliani	A	120	IAC-05-B3.P.01
Glascoe III	A	45	IAC-05-D5.2.01
Glaser	CA	10	IAC-05-C2.1.A.03
Glaspell	A	48	IAC-05-E6.2.04
Glass	A	60	IAC-05-D3.3.02
Glass	A	51	IAC-05-A5.2.01
Glass	CA	29	IAC-05-D3.2.06
Glass	A	75	IAC-05-D2.5.06
Gleason	A	5	IAC-05-B2.1.07
Go	A	38	IAC-05-B5.4.07
Goehlich	A	59	IAC-05-D2.4.06
Goehlich	A	95	IAC-05-E3.2.06
Goehlich	CA	92	IAC-05-D1.3.04
Goesmann	CA	132	IAC-05-A1.7.03
Gogdet	CA	59	IAC-05-D2.4.07
Goh	A	143	IAC-05-E6.5.06
Goh	CA	112	IAC-05-E1.4.01
Goiffon	CA	30	IAC-05-E2.1.08
Goka	CA	61	IAC-05-D5.1.02
Goka	CA	61	IAC-05-D5.1.03
Goka	CA	61	IAC-05-D5.1.04
Gollu	CA	122	IAC-05-C1.P.03
Golovinkin	CA	69	IAC-05-B4.3.01
Golovinkin	CA	7	IAC-05-B4.1.07
Gomez-Elvira	CA	132	IAC-05-A1.7.05
Gonçalves Vieira Ferreira	CA	141	IAC-05-D1.4.05
Gonzalez del Amo	CA	105	IAC-05-C1.7.02
Gonzalo	A	5	IAC-05-B2.1.04
Goto	CA	89	IAC-05-C2.5.07
Goto	A	137	IAC-05-C1.8.06
Gotoh	CA	65	IAC-05-A1.4.03
Gousselnikov	A	17	IAC-05-A2.2.09
Graesslin	CA	137	IAC-05-C1.8.05
Graf	A	35	IAC-05-A3.3.02
Grafodatskiy	CA	6	IAC-05-B3.1.03
Gralla	A	60	IAC-05-D3.3.05
Grant	CA	115	IAC-05-A1.P.16
Grassauer	CA	140	IAC-05-C4.6.08
Grasso	A	5	IAC-05-B2.1.08
Grasso	CA	138	IAC-05-C2.7.07
Gravdahl	CA	39	IAC-05-C1.3.02
Gravdahl	CA	122	IAC-05-C1.P.08
Gravdahl	CA	122	IAC-05-C1.P.04
Graziani	CA	85	IAC-05-B4.4.01
Greco	CA	26	IAC-05-C4.2.02
Greenberg	CA	85	IAC-05-B4.4.06
Greenberg	A	132	IAC-05-A1.7.09
Greene	A	85	IAC-05-B4.4.02
Grenon	A	65	IAC-05-A1.4.02
Grenon	A	115	IAC-05-A1.P.19
Grigoriev	A	49	IAC-05-A1.2.02
Grillenbeck	A	40	IAC-05-C2.2.04
Grodzinski	CA	97	IAC-05-A1.6.04
Gronnevik	CA	66	IAC-05-A2.5.01
Gronstal	A	20	IAC-05-A5.1.09
Gronstal	CA	113	IAC-05-E3.3.09
Grove	CA	2	IAC-05-A2.1.06
Grubisic	A	99	IAC-05-A3.2.B.10
Grubisic	CA	141	IAC-05-D1.4.09
Grubisic	CA	113	IAC-05-E3.3.09
Grubisic	CA	117	IAC-05-A3.P.05
Grubisic	CA	20	IAC-05-A5.1.09

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Grugel	A	133	IAC-05-A2.6.08
Grugel	A	133	IAC-05-A2.6.07
Grundwürmer	A	46	IAC-05-E2.2.07
Guang-jun	A	125	IAC-05-C4.P.09
Guedron	A	93	IAC-05-D2.6.07
Guedron	CA	75	IAC-05-D2.5.01
Guell	CA	5	IAC-05-B2.1.06
Guelman	A	3	IAC-05-A3.1.02
Guerman	A	56	IAC-05-C1.4.10
Guerra	CA	117	IAC-05-A3.P.14
Guery	A	26	IAC-05-C4.2.02
Guglielmi	CA	42	IAC-05-D1.2.01
Guglielmi	CA	109	IAC-05-D1.5.07
Guida	A	119	IAC-05-B1.P.02
Guilhem	A	52	IAC-05-B3.2.05
Guo-jun	CA	125	IAC-05-C4.P.09
Gupta	CA	83	IAC-05-B1.6.03
Gürol	A	119	IAC-05-B1.P.08
Gurumukhi	CA	67	IAC-05-B1.4.01
Gusev	CA	57	IAC-05-C2.3.08
Gushin	A	1	IAC-05-A1.5.08
Gushin	CA	1	IAC-05-A1.5.02
Gushin	CA	1	IAC-05-A1.5.03
Gutknecht	CA	81	IAC-05-A1.1.07
Guzman	A	119	IAC-05-B1.P.01

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Hada	CA	27	IAC-05-D1.1.03
Haeuplik	A	29	IAC-05-D3.2.05
Haeuplik	A	20	IAC-05-A5.1.05
Haeuplik	A	131	IAC-05-E5.P.06
Haeuplik	CA	76	IAC-05-D4.1.03
Haga	CA	6	IAC-05-B3.1.05
Hageraats	A	117	IAC-05-A3.P.12
Hagimoto	CA	141	IAC-05-D1.4.02
Hagino	CA	134	IAC-05-A3.5.A.02
Hajian	CA	85	IAC-05-B4.4.01
Haladich	CA	133	IAC-05-A2.6.05
Haldemann	CA	35	IAC-05-A3.3.01
Hall	CA	103	IAC-05-B5.6.B.10
Hallberg	CA	23	IAC-05-B5.3./B5.5.01
Hallberg	CA	58	IAC-05-C4.3.04
Haltigin	A	119	IAC-05-B1.P.05
Hama	A	42	IAC-05-D1.2.09
Hamada	A	79	IAC-05-E5.3.02
Hamada	CA	99	IAC-05-A3.2.B.03
Hamann	CA	86	IAC-05-B5.6.A.02
Hanada	CA	104	IAC-05-B6.3.01
Hanada	CA	86	IAC-05-B5.6.A.17
Hanada	CA	130	IAC-05-E2.P.07
Hanada	CA	130	IAC-05-E2.P.02
Hanada	CA	70	IAC-05-B6.2.04
Hanada	CA	121	IAC-05-B6.P.02
Hanada	CA	121	IAC-05-B6.P.04
Hanai	CA	98	IAC-05-A2.7.06
Hanzawa	CA	14	IAC-05-E1.1.06
Harada	CA	140	IAC-05-C4.6.06
Harada	CA	25	IAC-05-C2.1.B.02
Harada	CA	70	IAC-05-B6.2.08
Harano	CA	70	IAC-05-B6.2.08
Harano	CA	70	IAC-05-B6.2.04
Harauchi	CA	53	IAC-05-B4.2.05
Hardianto	CA	140	IAC-05-C4.6.06
Harvey	A	113	IAC-05-E3.3.02
Haschke	CA	132	IAC-05-A1.7.05

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Ignatiev	CA	117	IAC-05-A3.P.07
Ihara	A	98	IAC-05-A2.7.08
Iida	A	6	IAC-05-B3.1.01
Iikura	CA	25	IAC-05-C2.1.B.01
Iizuka	A	34	IAC-05-A2.3.03
Iizuka	A	34	IAC-05-A2.3.02
Ijichi	CA	43	IAC-05-D2.3.04
Ijiri	A	84	IAC-05-B3.4.07
Ikeda	A	121	IAC-05-B6.P.02
Ikegami	CA	141	IAC-05-D1.4.02
Imada	A	43	IAC-05-D2.3.03
Imada	CA	11	IAC-05-C4.1.03
Imae	CA	141	IAC-05-D1.4.02
Imagawa	CA	89	IAC-05-C2.5.07
Imagawa	CA	72	IAC-05-C2.4.06
Imai	A	103	IAC-05-B5.6.B.06
Imai	CA	72	IAC-05-C2.4.09
Imai	A	52	IAC-05-B3.2.03
Imamura	A	98	IAC-05-A2.7.07
Ims	A	119	IAC-05-B1.P.12
Inaba	A	53	IAC-05-B4.2.05
Inaka	CA	34	IAC-05-A2.3.01
Inatani	CA	75	IAC-05-D2.5.05
Inatani	CA	106	IAC-05-C2.6.11
Inatani	CA	93	IAC-05-D2.6.03
Inatani	CA	59	IAC-05-D2.4.08
Indrat	A	58	IAC-05-C4.3.05
Inoue	CA	77	IAC-05-E1.2.06
Inoue	A	91	IAC-05-C4.5.08
Inoue	CA	89	IAC-05-C2.5.07
Inoue	CA	123	IAC-05-C2.P.19
Ioannidou	A	119	IAC-05-B1.P.07
Iorio	CA	85	IAC-05-B4.4.01
Iqbal	CA	97	IAC-05-A1.6.04
Iranzo-Greus	A	59	IAC-05-D2.4.07
Irwin	CA	132	IAC-05-A1.7.01
Iseki	CA	74	IAC-05-C4.4.07
Ishibashi	CA	105	IAC-05-C1.7.03
Ishimoto	A	137	IAC-05-C1.8.03
Ishimura	CA	139	IAC-05-C3.4-D2.8.06
Ishimura	CA	86	IAC-05-B5.6.A.01
Ishizawa	A	72	IAC-05-C2.4.06
Isobe	A	55	IAC-05-B6.1.06
Isobe	CA	55	IAC-05-B6.1.01
Ito	A	64	IAC-05-E6.3.09
Ito	A	94	IAC-05-E1.3.06
Ito	CA	125	IAC-05-C4.P.21
Itoh	CA	115	IAC-05-A1.P.10
Ivancic	CA	23	IAC-05-B5.3./B5.5.03
Ivanov	CA	17	IAC-05-A2.2.06
Ivanov	CA	132	IAC-05-A1.7.08
Ivanov	CA	26	IAC-05-C4.2.05
Ivashnyov	CA	50	IAC-05-A2.4.09
Ivashnyov	CA	17	IAC-05-A2.2.02
Iversen	CA	97	IAC-05-A1.6.06
Iversen	CA	66	IAC-05-A2.5.01
iwai	CA	86	IAC-05-B5.6.A.05
Iwakami	A	66	IAC-05-A2.5.07
Iwasaki	CA	141	IAC-05-D1.4.02
Iwase	CA	49	IAC-05-A1.2.06
Iwashita	CA	90	IAC-05-C3.3.04
Iwata	A	8	IAC-05-B5.2.01
Iwata	A	141	IAC-05-D1.4.02
Izadi-Zamanabadi	CA	39	IAC-05-C1.3.06
Izadi-Zamanabadi	CA	62	IAC-05-E2.3.06
Izumi	A	125	IAC-05-C4.P.03
Izzo	A	71	IAC-05-C1.5.06
Izzo	A	122	IAC-05-C1.P.05

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Izzo	A	141	IAC-05-D1.4.03
Izzo	CA	18	IAC-05-A3.4.02
Izzo	CA	88	IAC-05-C1.6.07
Izzo	CA	27	IAC-05-D1.1.04
Izzo	CA	135	IAC-05-A3.5.B.02
Izzo	CA	135	IAC-05-A3.5.B.03

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Jablonski	A	76	IAC-05-D4.1.01
Jack	CA	43	IAC-05-D2.3.09
Jackson	CA	23	IAC-05-B5.3./B5.5.03
Jacobsson	CA	103	IAC-05-B5.6.B.07
Jaeger	A	43	IAC-05-D2.3.01
Jaiswal	A	83	IAC-05-B1.6.01
Jaiswal	CA	67	IAC-05-B1.4.01
Jakhu	A	80	IAC-05-E6.4.10
James Raj	CA	88	IAC-05-C1.6.04
Jang	CA	10	IAC-05-C2.1.A.06
Jang	CA	10	IAC-05-C2.1.A.08
Jang	CA	10	IAC-05-C2.1.A.09
Janin	CA	9	IAC-05-C1.1.06
Janin	CA	60	IAC-05-D3.3.04
Janovsky	A	55	IAC-05-B6.1.10
Jarchow	A	49	IAC-05-A1.2.08
Jarchow	CA	33	IAC-05-A1.3.08
Jarvis	CA	55	IAC-05-B6.1.05
Jason	CA	61	IAC-05-D5.1.06
Jean	CA	8	IAC-05-B5.2.02
Jeanes	CA	99	IAC-05-A3.2.B.07
Jehn	A	117	IAC-05-A3.P.15
Jehn	A	55	IAC-05-B6.1.07
Jehn	CA	105	IAC-05-C1.7.05
Jekov	CA	67	IAC-05-B1.4.03
Jensen	CA	58	IAC-05-C4.3.04
Jeon	A	10	IAC-05-C2.1.A.01
Jia	CA	87	IAC-05-B6.4.06
Jianfeng	CA	18	IAC-05-A3.4.07
Jiang	CA	89	IAC-05-C2.5.06
Jimenez Suarez	A	138	IAC-05-C2.7.06
Jiping	A	5	IAC-05-B2.1.09
Jivraj	A	123	IAC-05-C2.P.18
Jodoi	CA	27	IAC-05-D1.1.01
Johannes	A	1	IAC-05-A1.5.10
Johnson	A	104	IAC-05-B6.3.07
Johnson	CA	104	IAC-05-B6.3.06
Johnson-Freese	A	15	IAC-05-E3.1.03
Johnsson	CA	97	IAC-05-A1.6.06
Jolly	CA	9	IAC-05-C1.1.04
Jolly	CA	124	IAC-05-C3.P.01
Jones	CA	42	IAC-05-D1.2.07
Jones	A	45	IAC-05-D5.2.07
Jordan	CA	100	IAC-05-B3.3.03
Jorgensen	A	44	IAC-05-D4.2.08
Jorgensen	A	111	IAC-05-D4.3.05
Jorgensen	CA	44	IAC-05-D4.2.06
Jorgensen	CA	111	IAC-05-D4.3.04
Juanto	A	64	IAC-05-E6.3.11
Jukola	A	47	IAC-05-E4.1.07
Jukola	A	131	IAC-05-E5.P.12
Jules	A	66	IAC-05-A2.5.09
Jules	A	33	IAC-05-A1.3.03
Jules	A	69	IAC-05-B4.3.04
Juliana	A	39	IAC-05-C1.3.09
Jung	A	14	IAC-05-E1.1.02
Jung	A	114	IAC-05-E4.3.02

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Kaczmarczik	CA	66	IAC-05-A2.5.08
Kadota	CA	98	IAC-05-A2.7.03
Kagawa	CA	124	IAC-05-C3.P.08
Kagawa	CA	41	IAC-05-C3.1.03
Kaiser	CA	31	IAC-05-E5.4.03
Kaiser	A	80	IAC-05-E6.4.04
Kajikawa	CA	98	IAC-05-A2.7.03
Kajimura	CA	108	IAC-05-C3.5-C4.7.07
Kajimura	CA	140	IAC-05-C4.6.07
Kakami	CA	125	IAC-05-C4.P.07
Kakinoki	CA	98	IAC-05-A2.7.07
Kakoi	CA	88	IAC-05-C1.6.01
Kalnins	CA	55	IAC-05-B6.1.10
Kamata	CA	119	IAC-05-B1.P.04
Kamata	CA	119	IAC-05-B1.P.09
Kamijaya	A	118	IAC-05-A5.P.04
Kamijo	CA	65	IAC-05-A1.4.01
Kamijo	CA	115	IAC-05-A1.P.01
Kamimori	CA	113	IAC-05-E3.3.05
Kamimori	CA	13	IAC-05-D3.1.03
Kamishima	A	125	IAC-05-C4.P.02
Kamiya	A	87	IAC-05-B6.4.01
Kanai	CA	42	IAC-05-D1.2.09
Kanas	A	1	IAC-05-A1.5.02
Kanas	CA	1	IAC-05-A1.5.03
Kanda	A	91	IAC-05-C4.5.03
Kanda	CA	91	IAC-05-C4.5.06
Kanda	CA	11	IAC-05-C4.1.08
Kanevsky	CA	22	IAC-05-B2.2.09
Kang	A	11	IAC-05-C4.1.02
Kantor	CA	132	IAC-05-A1.7.09
Kapoor	CA	29	IAC-05-D3.2.07
Kapustina	A	97	IAC-05-A1.6.02
Kartasasmita	A	22	IAC-05-B2.2.05
Kasahara	CA	89	IAC-05-C2.5.07
Kashiwa	A	40	IAC-05-C2.2.06
Kassebom	A	103	IAC-05-B5.6.B.09
Kassebom	CA	52	IAC-05-B3.2.02
Kassebom	CA	21	IAC-05-B1.2.05
Kassebom	CA	8	IAC-05-B5.2.03
Kasugai	CA	140	IAC-05-C4.6.01
Kataharada	CA	74	IAC-05-C4.4.02
Katayama	CA	99	IAC-05-A3.2.B.03
Kato	CA	91	IAC-05-C4.5.06
Kato	CA	13	IAC-05-D3.1.03
Kato	A	103	IAC-05-B5.6.B.01
Kato	CA	69	IAC-05-B4.3.03
Kato	CA	34	IAC-05-A2.3.01
Kato	CA	106	IAC-05-C2.6.11
Kato	A	94	IAC-05-E1.3.02
Kato	CA	105	IAC-05-C1.7.03
Katsurayama	A	140	IAC-05-C4.6.04
Katta	CA	98	IAC-05-A2.7.05
Katuntsev	A	49	IAC-05-A1.2.07
Kauffmann	CA	59	IAC-05-D2.4.03
Kawaguchi	CA	137	IAC-05-C1.8.06
Kawaguchi	A	24	IAC-05-C1.2.08
Kawaguchi	A	88	IAC-05-C1.6.05
Kawaguchi	A	134	IAC-05-A3.5.A.01
Kawaguchi	CA	71	IAC-05-C1.5.03
Kawaguchi	CA	24	IAC-05-C1.2.03
Kawaguchi	CA	137	IAC-05-C1.8.02

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Kawaguchi	CA	25	IAC-05-C2.1.B.08
Kawaguchi	CA	8	IAC-05-B5.2.04
Kawaguchi	CA	105	IAC-05-C1.7.03
Kawahara	A	45	IAC-05-D5.2.04
Kawai	A	76	IAC-05-D4.1.07
Kawakatsu	A	43	IAC-05-D2.3.07
Kawakatsu	CA	8	IAC-05-B5.2.04
Kawamoto	A	24	IAC-05-C1.2.07
Kawamoto	CA	74	IAC-05-C4.4.07
Kawamoto	CA	104	IAC-05-B6.3.03
Kawano	A	10	IAC-05-C2.1.A.05
Kawano	CA	8	IAC-05-B5.2.01
Kawar	A	57	IAC-05-C2.3.09
Kawasaki	A	8	IAC-05-B5.2.07
Kawasaki	CA	102	IAC-05-B4.5-D2.7.06
Kawasaki	CA	139	IAC-05-C3.4-D2.8.06
Kawasaki	CA	124	IAC-05-C3.P.08
Kawasaki	A	130	IAC-05-E2.P.09
Kawashima	A	112	IAC-05-E1.4.07
Kaya	A	41	IAC-05-C3.1.01
Kaya	A	90	IAC-05-C3.3.04
Kaya	A	18	IAC-05-A3.4.09
Kaya	CA	90	IAC-05-C3.3.01
Kaya	CA	90	IAC-05-C3.3.02
Kaya	CA	46	IAC-05-E2.2.05
Kayal	A	103	IAC-05-B5.6.B.03
Kazakova	CA	17	IAC-05-A2.2.02
Kazantsev	CA	20	IAC-05-A5.1.03
Kaznov	CA	42	IAC-05-D1.2.07
Kazz	CA	35	IAC-05-A3.3.06
Kearney	A	3	IAC-05-A3.1.12
Keenan	CA	53	IAC-05-B4.2.06
Keller	CA	72	IAC-05-C2.4.01
Kelly	CA	69	IAC-05-B4.3.04
Kemble	CA	82	IAC-05-A3.2.A.07
Kern	CA	68	IAC-05-B1.5.07
Kerstein	A	114	IAC-05-E4.3.04
Kerstein	A	47	IAC-05-E4.1.03
Khan	A	94	IAC-05-E1.3.07
Khrenov	CA	68	IAC-05-B1.5.05
Khrustalev	A	39	IAC-05-C1.3.04
Kibe	CA	87	IAC-05-B6.4.05
Kiernan	CA	53	IAC-05-B4.2.03
Kikuchi	A	98	IAC-05-A2.7.04
Kikuchi	CA	98	IAC-05-A2.7.01
Kikuchi	CA	87	IAC-05-B6.4.09
Kikuchi	A	56	IAC-05-C1.4.03
Kikuchi	CA	56	IAC-05-C1.4.04
Kim	A	4	IAC-05-B1.1.06
Kim	A	54	IAC-05-B5.1.05
Kim	CA	10	IAC-05-C2.1.A.09
Kim	CA	65	IAC-05-A1.4.02
Kim	CA	115	IAC-05-A1.P.19
Kim	CA	4	IAC-05-B1.1.06
Kim	CA	61	IAC-05-D5.1.04
Kim	CA	73	IAC-05-C3.2.04
Kim	CA	10	IAC-05-C2.1.A.01
Kim	A	10	IAC-05-C2.1.A.06
Kim	CA	122	IAC-05-C1.P.03
Kinoda	CA	109	IAC-05-D1.5.05
Kinoshita	A	86	IAC-05-B5.6.A.05
Kinamoto	CA	93	IAC-05-D2.6.05
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Kishi	A	5	IAC-05-B2.1.01
Kistler	A	43	IAC-05-D2.3.06

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Kitamura	A	139	IAC-05-C3.4-D2.8.03
Kitamura	CA	74	IAC-05-C4.4.07
Kitamura	CA	104	IAC-05-B6.3.03
Kitmacher	A	7	IAC-05-B4.1.02
Kittang	CA	97	IAC-05-A1.6.06
Kittang	CA	66	IAC-05-A2.5.01
Kittell	CA	94	IAC-05-E1.3.07
Kittell	CA	112	IAC-05-E1.4.04
Klein	CA	3	IAC-05-A3.1.02
Klinkrad	CA	70	IAC-05-B6.2.03
Klishev	CA	24	IAC-05-C1.2.04
Kobayashi	CA	11	IAC-05-C4.1.09
Kobayashi	CA	141	IAC-05-D1.4.04
Kobayashi	A	98	IAC-05-A2.7.06
Kobayashi	A	91	IAC-05-C4.5.04
Kobayashi	CA	91	IAC-05-C4.5.02
Kobayashi	CA	34	IAC-05-A2.3.01
Koch	A	97	IAC-05-A1.6.08
Kodama	CA	106	IAC-05-C2.6.04
Koeck	CA	82	IAC-05-A3.2.A.07
Koeck	CA	51	IAC-05-A5.2.04
Koeck	CA	35	IAC-05-A3.3.04
Koenig	CA	53	IAC-05-B4.2.01
Koenigsmann	A	12	IAC-05-D2.1.02
Koerver	CA	66	IAC-05-A2.5.03
Koga	CA	61	IAC-05-D5.1.04
Koivunen	A	123	IAC-05-C2.P.13
Koizumi	CA	90	IAC-05-C3.3.07
Kojima	A	138	IAC-05-C2.7.02
Kojima	A	91	IAC-05-C4.5.02
Kojima	CA	91	IAC-05-C4.5.04
Kokel	A	90	IAC-05-C3.3.06
Kolar	A	83	IAC-05-B1.6.02
Kolomentsev	CA	140	IAC-05-C4.6.05
Kolomentsev	CA	139	IAC-05-C3.4-D2.8.07
Kolozevny	CA	57	IAC-05-C2.3.08
Komatsu	CA	90	IAC-05-C3.3.01
Komerath	A	13	IAC-05-D3.1.08
Komerath	CA	27	IAC-05-D1.1.02
Komkov	CA	41	IAC-05-C3.1.07
Komurasaki	CA	140	IAC-05-C4.6.01
Komurasaki	CA	140	IAC-05-C4.6.04
Komurasaki	CA	90	IAC-05-C3.3.07
Komure	CA	62	IAC-05-E2.3.07
Kondo	CA	129	IAC-05-E1.P.01
Kono	CA	98	IAC-05-A2.7.07
Konoue	A	56	IAC-05-C1.4.09
Konstantinov	A	9	IAC-05-C1.1.01
Konstanzer	CA	72	IAC-05-C2.4.02
Konyukhov	CA	27	IAC-05-D1.1.08
Koo	CA	126	IAC-05-D1.P.03
Koontz	CA	53	IAC-05-B4.2.07
Koontz	CA	69	IAC-05-B4.3.06
Korostelev	CA	22	IAC-05-B2.2.09
Korotky	A	110	IAC-05-B4.5-D2.7.01
Kosbow	A	122	IAC-05-C1.P.20
Koschny	CA	99	IAC-05-A3.2.B.04
Kostopoulos	CA	123	IAC-05-C2.P.02
Kostopoulos	CA	123	IAC-05-C2.P.06
Kostromin	CA	110	IAC-05-B4.5-D2.7.03
Kosuge	A	32	IAC-05-E6.1.04
Kotyegov	CA	16	IAC-05-E5.1.04
Koudelka	A	100	IAC-05-B3.3.05
Koudelka	A	100	IAC-05-B3.3.06
Koura	CA	70	IAC-05-B6.2.08
Koura	CA	87	IAC-05-B6.4.08
Koura	CA	70	IAC-05-B6.2.04

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Kozak	CA	50	IAC-05-A2.4.02
Kozaki	CA	108	IAC-05-C3.5-C4.7.07
Kozawa	A	15	IAC-05-E3.1.02
Kozlovskaya	A	81	IAC-05-A1.1.02
Kozlovskaya	CA	49	IAC-05-A1.2.02
Kozuka	A	143	IAC-05-E6.5.01
Kraft	A	33	IAC-05-A1.3.05
Kramer	CA	55	IAC-05-B6.1.08
Kranzusch	A	30	IAC-05-E2.1.06
Kratz	CA	42	IAC-05-D1.2.07
Krebs	CA	58	IAC-05-C4.3.04
Kreisel	A	31	IAC-05-E5.4.01
Kreisel	A	113	IAC-05-E3.3.03
Kreisel	CA	100	IAC-05-B3.3.01
Krellmann	CA	31	IAC-05-E5.4.03
Kristiansen	CA	122	IAC-05-C1.P.06
Kristiansen	CA	122	IAC-05-C1.P.08
Kristiansen	CA	122	IAC-05-C1.P.09
Krmelj	A	47	IAC-05-E4.1.09
croedel	CA	37	IAC-05-B1.3.03
Krogstad	A	39	IAC-05-C1.3.02
Krogstad	A	122	IAC-05-C1.P.08
Kruijff	CA	2	IAC-05-A2.1.09
Kruijff	CA	123	IAC-05-C2.P.02
Krukov	CA	26	IAC-05-C4.2.05
Kruselburger	A	110	IAC-05-B4.5-D2.7.07
Kryuchkov	CA	83	IAC-05-B1.6.05
Kubozono	A	78	IAC-05-E4.4.02
Kuch	A	53	IAC-05-B4.2.08
Kudo	CA	125	IAC-05-C4.P.21
Kudo	CA	106	IAC-05-C2.6.04
Kudrin	CA	140	IAC-05-C4.6.05
Kudrin	CA	139	IAC-05-C3.4-D2.8.07
Kuligin	CA	20	IAC-05-A5.1.03
Kulkarni	A	115	IAC-05-A1.P.21
Kulkarni	CA	115	IAC-05-A1.P.17
Kulkarni	CA	65	IAC-05-A1.4.09
Kumar	A	83	IAC-05-B1.6.03
Kume	CA	98	IAC-05-A2.7.07
Kumiko	CA	89	IAC-05-C2.5.05
Kuninaka	CA	134	IAC-05-A3.5.A.02
Kuno	CA	10	IAC-05-C2.1.A.05
Kunzmann	A	80	IAC-05-E6.4.13
Kuratani	A	92	IAC-05-D1.3.04
Kure	CA	11	IAC-05-C4.1.08
Kuribayashi	CA	55	IAC-05-B6.1.09
Kuriki	CA	125	IAC-05-C4.P.07
Kuriyama	A	4	IAC-05-B1.1.02
Kurkin	A	112	IAC-05-E1.4.08
KUROKI	CA	119	IAC-05-B1.P.04
Kurosaki	A	55	IAC-05-B6.1.09
Kurosaki	CA	55	IAC-05-B6.1.04
Kuroshima	A	30	IAC-05-E2.1.02
KUSAGAYA	CA	56	IAC-05-C1.4.03
KUSAGAYA	CA	56	IAC-05-C1.4.04
Kusaka	CA	26	IAC-05-C4.2.06
Kutil	A	22	IAC-05-B2.2.06
Kwakkel	CA	111	IAC-05-D4.3.10
Kyr	A	93	IAC-05-D2.6.04
Kyr	CA	42	IAC-05-D1.2.08
Kyrtatos	A	2	IAC-05-A2.1.06

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La Frenais	CA	94	IAC-05-E1.3.05
La Frenais	CA	79	IAC-05-E5.3.05
La Frenais	CA	115	IAC-05-A1.P.15
Laan	A	18	IAC-05-A3.4.05
Laan	CA	76	IAC-05-D4.1.03
Labib	A	46	IAC-05-E2.2.05
Lacombe	CA	26	IAC-05-C4.2.04
Läfars	A	86	IAC-05-B5.6.A.13
Lagerkvist	CA	42	IAC-05-D1.2.07
Lago	A	101	IAC-05-B3.5.06
Lainé	A	12	IAC-05-D2.1.05
Lala	A	54	IAC-05-B5.1.01
Lam	CA	36	IAC-05-A4.2.05
Lam	CA	62	IAC-05-E2.3.03
Lamamy	A	51	IAC-05-A5.2.02
Lamamy	CA	139	IAC-05-C3.4-D2.8.08
Lambert	A	21	IAC-05-B1.2.03
Lambert	CA	87	IAC-05-B6.4.02
Lampani	A	72	IAC-05-C2.4.01
Lamprou	CA	123	IAC-05-C2.P.06
Lan Sun Luk	CA	124	IAC-05-C3.P.07
Landzettel	CA	53	IAC-05-B4.2.02
Lang	CA	103	IAC-05-B5.6.B.09
Lansdorp	A	51	IAC-05-A5.2.09
Lansdorp	A	18	IAC-05-A3.4.08
Lantuit	CA	119	IAC-05-B1.P.05
Lardier	A	114	IAC-05-E4.3.08
Larsen	A	39	IAC-05-C1.3.06
Larsen	CA	62	IAC-05-E2.3.06
Larsen	A	48	IAC-05-E6.2.05
Larsson	CA	66	IAC-05-A2.5.06
Latipulhayat	A	32	IAC-05-E6.1.01
Laubscher	A	44	IAC-05-D4.2.03
Laufer	A	99	IAC-05-A3.2.B.02
Laurent	A	28	IAC-05-D2.2.04
Laurent-Varin	A	122	IAC-05-C1.P.18
Laursen	CA	3	IAC-05-A3.1.09
Lavagna	CA	92	IAC-05-D1.3.05
Lawrence	A	107	IAC-05-C3.5-C4.7.03
Laycock	CA	90	IAC-05-C3.3.05
Lázaro	CA	17	IAC-05-A2.2.10
Lecoutre	CA	133	IAC-05-A2.6.04
Lee	CA	141	IAC-05-D1.4.01
Lee	CA	35	IAC-05-A3.3.06
Lee	A	25	IAC-05-C2.1.B.09
Lee	A	58	IAC-05-C4.3.07
Lee	A	113	IAC-05-E3.3.07
Lee	A	15	IAC-05-E3.1.07
Lee	A	48	IAC-05-E6.2.02
Lee	A	28	IAC-05-D2.2.07
Lee	A	20	IAC-05-A5.1.04
Lee	A	80	IAC-05-E6.4.05
Leen	A	42	IAC-05-D1.2.03
Leeuwerink	A	125	IAC-05-C4.P.17
Leeuwerink	A	122	IAC-05-C1.P.12
Legault	A	14	IAC-05-E1.1.07
Legros	CA	50	IAC-05-A2.4.09
Legros	CA	50	IAC-05-A2.4.05
Lei	A	121	IAC-05-B6.P.03
Lei	A	30	IAC-05-E2.1.01
Lellouch	CA	117	IAC-05-A3.P.07
Lenard	A	108	IAC-05-C3.5-C4.7.06
Lenard	A	107	IAC-05-C3.5-C4.7.08
Lenzi	CA	138	IAC-05-C2.7.05
Leonardos	CA	97	IAC-05-A1.6.04
Letaw, Jr.	A	36	IAC-05-A4.2.04
Lettieri	A	125	IAC-05-C4.P.08

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Li	A	46	IAC-05-E2.2.04
Li	A	123	IAC-05-C2.P.20
Li	CA	115	IAC-05-A1.P.18
Li	CA	115	IAC-05-A1.P.22
Li	CA	115	IAC-05-A1.P.06
Li	A	122	IAC-05-C1.P.25
Li	CA	25	IAC-05-C2.1.B.10
Liang	A	91	IAC-05-C4.5.05
Lieder	A	86	IAC-05-B5.6.A.08
Lieder	CA	25	IAC-05-C2.1.B.03
Lieder	CA	38	IAC-05-B5.4.08
Lier	A	38	IAC-05-B5.4.03
Likhoded	CA	40	IAC-05-C2.2.09
Lin	CA	66	IAC-05-A2.5.09
Lingard	CA	117	IAC-05-A3.P.03
Linteris	CA	98	IAC-05-A2.7.05
Liorzou	CA	37	IAC-05-B1.3.01
Liou	A	70	IAC-05-B6.2.02
Lipaev	CA	17	IAC-05-A2.2.06
Liphardt	CA	65	IAC-05-A1.4.05
Lipson	CA	3	IAC-05-A3.1.02
Lisini	A	83	IAC-05-B1.6.07
Litvinova	A	116	IAC-05-A2.P.05
Liu	CA	34	IAC-05-A2.3.04
Liu	A	70	IAC-05-B6.2.07
LIU	CA	122	IAC-05-C1.P.25
Liu	A	50	IAC-05-A2.4.03
Liu	CA	97	IAC-05-A1.6.04
Liu	CA	67	IAC-05-B1.4.02
Lo	A	26	IAC-05-C4.2.01
Loeth	A	66	IAC-05-A2.5.06
Longo	CA	93	IAC-05-D2.6.02
Lopez-Cerezo	A	112	IAC-05-E1.4.09
Lorenz	CA	10	IAC-05-C2.1.A.04
Lorenzo	CA	101	IAC-05-B3.5.06
Louet	CA	109	IAC-05-D1.5.03
Lübberstedt	A	8	IAC-05-B5.2.03
Lugg	CA	1	IAC-05-A1.5.07
Luk	CA	62	IAC-05-E2.3.03
Lukjashchenko	CA	69	IAC-05-B4.3.01
Lukjashchenko	CA	7	IAC-05-B4.1.07
Lukjashchenko	CA	12	IAC-05-D2.1.08
Lundquist	A	47	IAC-05-E4.1.04
Luo	A	122	IAC-05-C1.P.19
Luo	A	2	IAC-05-A2.1.07
Luppés	A	17	IAC-05-A2.2.07
Ly	A	36	IAC-05-A4.2.05
Lyagushyn	A	125	IAC-05-C4.P.20
Lyall	A	32	IAC-05-E6.1.05
Lyngvi	A	99	IAC-05-A3.2.B.07
Lyngvi	A	106	IAC-05-C2.6.02

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Ma	A	120	IAC-05-B3.P.02
Ma	A	87	IAC-05-B6.4.06
Macau	A	122	IAC-05-C1.P.22
Macau	A	122	IAC-05-C1.P.17
Maccone	A	36	IAC-05-A4.2.11
Maccone	A	76	IAC-05-D4.1.05
Maccone	A	19	IAC-05-A4.1.10
Macdonald	CA	135	IAC-05-A3.5.B.05
Machida	CA	45	IAC-05-D5.2.04
Machida	CA	42	IAC-05-D1.2.04
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Madhavan	A	68	IAC-05-B1.5.07	Matsumoto	CA	3	IAC-05-A3.1.06
Maeda	CA	26	IAC-05-C4.2.09	Matsuo	A	119	IAC-05-B1.P.09
Maeda	CA	125	IAC-05-C4.P.21	Matsuo	A	11	IAC-05-C4.1.03
Maeda	CA	16	IAC-05-E5.1.05	Matsuoka	A	41	IAC-05-C3.1.08
Mahaffy	CA	35	IAC-05-A3.3.05	Matsuoka	A	8	IAC-05-B5.2.05
Mahal	A	21	IAC-05-B1.2.05	Matsuoka	CA	75	IAC-05-D2.5.05
Majid	A	63	IAC-05-E5.2.01	Matsusaka	CA	93	IAC-05-D2.6.05
Makida	CA	24	IAC-05-C1.2.07	Matsuse	CA	81	IAC-05-A1.1.04
Maley	A	28	IAC-05-D2.2.03	Matsushita	CA	57	IAC-05-C2.3.01
Maliet	CA	21	IAC-05-B1.2.04	Matunaga	CA	72	IAC-05-C2.4.09
Mancuso	CA	137	IAC-05-C1.8.10	Matunaga	CA	56	IAC-05-C1.4.09
Mandanici	CA	138	IAC-05-C2.7.04	Matunaga	CA	86	IAC-05-B5.6.A.07
Manente	CA	130	IAC-05-E2.P.05	Matunaga	CA	122	IAC-05-C1.P.16
Manev	A	67	IAC-05-B1.4.03	Matunaga	CA	86	IAC-05-B5.6.A.03
Mangili Jr.	CA	14	IAC-05-E1.1.05	Matveeva	A	69	IAC-05-B4.3.05
Mankins	A	90	IAC-05-C3.3.09	Maurice	CA	117	IAC-05-A3.P.21
Mankins	CA	90	IAC-05-C3.3.04	Mayama	A	3	IAC-05-A3.1.11
Mankins	CA	29	IAC-05-D3.2.01	McGuire	A	132	IAC-05-A1.7.05
Mankins	CA	29	IAC-05-D3.2.04	McInnes	A	44	IAC-05-D4.2.07
Manzoni	A	26	IAC-05-C4.2.09	McInnes	A	135	IAC-05-A3.5.B.05
Marchetti	CA	106	IAC-05-C2.6.05	McInnes	CA	71	IAC-05-C1.5.04
Mardirossian	CA	67	IAC-05-B1.4.03	McLeish	A	131	IAC-05-E5.P.07
Marhold	A	125	IAC-05-C4.P.15	Meguro	A	25	IAC-05-C2.1.B.02
Marin	CA	12	IAC-05-D2.1.03	Mejia-Kaiser	CA	80	IAC-05-E6.4.04
Marino	CA	57	IAC-05-C2.3.05	Mellab	A	53	IAC-05-B4.2.04
Markovic	CA	115	IAC-05-A1.P.20	Melnikov	A	41	IAC-05-C3.1.07
Marmar	CA	1	IAC-05-A1.5.02	Melnikov	A	123	IAC-05-C2.P.01
Maroothynaden	CA	77	IAC-05-E1.2.06	Menezes	A	62	IAC-05-E2.3.03
Marque	CA	37	IAC-05-B1.3.01	Menon	A	39	IAC-05-C1.3.10
Marr	A	3	IAC-05-A3.1.04	Menon	A	123	IAC-05-C2.P.02
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Marsden	CA	99	IAC-05-A3.2.B.07	Menon	CA	25	IAC-05-C2.1.B.06
Marti-Marqués	A	55	IAC-05-B6.1.03	Menon	CA	123	IAC-05-C2.P.06
Martignano	A	53	IAC-05-B4.2.03	Menon	CA	27	IAC-05-D1.1.04
Martinez	A	22	IAC-05-B2.2.07	Menon	CA	27	IAC-05-D1.1.06
Martinez Vilarino	A	10	IAC-05-C2.1.A.10	Menshikov	A	68	IAC-05-B1.5.03
Martini	CA	138	IAC-05-C2.7.01	Menuet	CA	3	IAC-05-A3.1.09
Maru	CA	91	IAC-05-C4.5.04	Mercier	A	26	IAC-05-C4.2.04
Marucchi Chierro	A	138	IAC-05-C2.7.01	Meshcheryakov	A	87	IAC-05-B6.4.10
Masahiko	A	74	IAC-05-C4.4.02	Meshkat	CA	141	IAC-05-D1.4.01
Masaru	A	125	IAC-05-C4.P.10	Messina	A	20	IAC-05-A5.1.06
Masato	A	115	IAC-05-A1.P.04	Messina	A	15	IAC-05-E3.1.01
Masayuki	CA	94	IAC-05-E1.3.02	Meyer	A	81	IAC-05-A1.1.07
Maschke	CA	1	IAC-05-A1.5.10	Meyssignac	CA	27	IAC-05-D1.1.06
Masdemont	CA	9	IAC-05-C1.1.07	Miaris	CA	123	IAC-05-C2.P.02
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Masumoto	A	122	IAC-05-C1.P.16	Mihara	A	41	IAC-05-C3.1.02
Masumoto	CA	72	IAC-05-C2.4.09	Mihaylova	CA	112	IAC-05-E1.4.08
Masutani	A	78	IAC-05-E4.4.03	Mikami	CA	98	IAC-05-A2.7.04
Mathers	A	84	IAC-05-B3.4.02	Mikami	CA	98	IAC-05-A2.7.01
Mathieu	A	60	IAC-05-D3.3.01	Mikatarian	CA	53	IAC-05-B4.2.07
Mathurin	A	113	IAC-05-E3.3.01	Mikatarian	CA	69	IAC-05-B4.3.06
Matko	CA	114	IAC-05-E4.3.04	Miki	CA	11	IAC-05-C4.1.03
Matko	CA	47	IAC-05-E4.1.03	Milcz	CA	52	IAC-05-B3.2.02
Matney	A	70	IAC-05-B6.2.01	Milenov	CA	83	IAC-05-B1.6.06
Matney	CA	55	IAC-05-B6.1.05	Mileti	A	106	IAC-05-C2.6.05
Matney	CA	55	IAC-05-B6.1.02	Miller	CA	92	IAC-05-D1.3.01
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Matousek	A	82	IAC-05-A3.2.A.04	Miloch	CA	2	IAC-05-A2.1.05
Matrosov	CA	39	IAC-05-C1.3.01	Minowa	A	101	IAC-05-B3.5.02
Matsuda	CA	106	IAC-05-C2.6.11	Minowa	CA	101	IAC-05-B3.5.01
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Matsuda	CA	65	IAC-05-A1.4.03	Mirmina	A	48	IAC-05-E6.2.09
Matsumoto	CA	59	IAC-05-D2.4.02	Mirny	A	22	IAC-05-B2.2.08
Matsumoto	CA	124	IAC-05-C3.P.08	Mirra	A	7	IAC-05-B4.1.05
Matsumoto	A	13	IAC-05-D3.1.03	Mishima	CA	125	IAC-05-C4.P.07
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Miski	CA	43	IAC-05-D2.3.02
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Mitchell	A	82	IAC-05-A3.2.A.01
Mitsuma	A	123	IAC-05-C2.P.14
Mitsumori	CA	16	IAC-05-E5.1.05
Mitsuya	CA	98	IAC-05-A2.7.06
Miura	CA	101	IAC-05-B3.5.01
Miyaji	CA	75	IAC-05-D2.5.02
Miyamoto	A	86	IAC-05-B5.6.A.03
Miyamoto	CA	72	IAC-05-C2.4.09
Miyashita	CA	86	IAC-05-B5.6.A.03
Miyata	A	57	IAC-05-C2.3.01
Miyazaki	CA	89	IAC-05-C2.5.07
Miyazaki	CA	86	IAC-05-B5.6.A.05
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Modrego	A	117	IAC-05-A3.P.13
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Mohanty	A	20	IAC-05-A5.1.02
Mohanty	A	29	IAC-05-D3.2.08
Molette	CA	54	IAC-05-B5.1.01
Molotkov	CA	17	IAC-05-A2.2.06
Molster	CA	133	IAC-05-A2.6.01
Monserrat-Filho	A	80	IAC-05-E6.4.08
Montagnon	A	134	IAC-05-A3.5.A.04
Montes Bazan	A	94	IAC-05-E1.3.08
Montminy	CA	62	IAC-05-E2.3.08
Moore III	A	113	IAC-05-E3.3.06
Morfill	CA	17	IAC-05-A2.2.06
Morfill	CA	69	IAC-05-B4.3.09
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Morgenthaler	CA	4	IAC-05-B1.1.06
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Mori	CA	41	IAC-05-C3.1.03
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Mori	CA	24	IAC-05-C1.2.03
Mori	CA	56	IAC-05-C1.4.05
Mori	CA	137	IAC-05-C1.8.08
Mori	CA	55	IAC-05-B6.1.01
Mori	CA	59	IAC-05-D2.4.02
Morimoto	A	123	IAC-05-C2.P.03
Morita	CA	65	IAC-05-A1.4.03
Morita	A	39	IAC-05-C1.3.05
Moriya	A	138	IAC-05-C2.7.03
Moriya	CA	26	IAC-05-C4.2.06
Morukov	A	81	IAC-05-A1.1.01
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Mostavan	A	124	IAC-05-C3.P.09
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Mostert	A	54	IAC-05-B5.1.03
Motohara	CA	34	IAC-05-A2.3.01
Motokoshi	CA	139	IAC-05-C3.4-D2.8.09
Moulin	A	47	IAC-05-E4.1.08
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Muenstermann	CA	66	IAC-05-A2.5.03
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Murakami	A	62	IAC-05-E2.3.07
Muranaka	CA	61	IAC-05-D5.1.04
Murashko	CA	83	IAC-05-B1.6.05
Murata	A	27	IAC-05-D1.1.01
Murata	CA	25	IAC-05-C2.1.B.01
Murti	CA	64	IAC-05-E6.3.03
Muruoka	CA	138	IAC-05-C2.7.08
Musci	CA	121	IAC-05-B6.P.01
Musso	A	36	IAC-05-A4.2.06
Musson	A	1	IAC-05-A1.5.07
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Nagai	CA	3	IAC-05-A3.1.06
Nagai	A	38	IAC-05-B5.4.09
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Nagai	CA	101	IAC-05-B3.5.01
Nagao	A	87	IAC-05-B6.4.05
Nagaoka	A	115	IAC-05-A1.P.10
Nagashima	CA	125	IAC-05-C4.P.07
Nagata	A	125	IAC-05-C4.P.21
Nagata	CA	106	IAC-05-C2.6.04
Nagayama	CA	2	IAC-05-A2.1.01
Nago	CA	81	IAC-05-A1.1.04
Nagolkin	CA	97	IAC-05-A1.6.02
Nakada	CA	23	IAC-05-B5.3./B5.5.02
Nakada	CA	90	IAC-05-C3.3.01
Nakagawa	CA	3	IAC-05-A3.1.06
Nakahira	A	90	IAC-05-C3.3.02
Nakai	CA	11	IAC-05-C4.1.03
Nakajima	A	55	IAC-05-B6.1.04
Nakajima	CA	24	IAC-05-C1.2.07
Nakajima	CA	55	IAC-05-B6.1.09
Nakajima	CA	104	IAC-05-B6.3.03
Nakajima	CA	16	IAC-05-E5.1.05
Nakajima	CA	141	IAC-05-D1.4.02
Nakamura	A	46	IAC-05-E2.2.03
Nakamura	CA	69	IAC-05-B4.3.03
Nakamura	CA	34	IAC-05-A2.3.01
Nakamura	CA	72	IAC-05-C2.4.07
Nakamura	A	103	IAC-05-B5.6.B.08
Nakamura	CA	103	IAC-05-B5.6.B.01
Nakamura	A	141	IAC-05-D1.4.06
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Nakamura	CA	23	IAC-05-B5.3./B5.5.02
Nakamura	CA	90	IAC-05-C3.3.01
Nakamura	CA	141	IAC-05-D1.4.04
Nakanishi	A	24	IAC-05-C1.2.05
Nakano	A	24	IAC-05-C1.2.03
Nakashima	A	108	IAC-05-C3.5-C4.7.07
Nakashima	CA	140	IAC-05-C4.6.07
Nakashima	CA	125	IAC-05-C4.P.03
Nakashima	CA	74	IAC-05-C4.4.02
Nakashima	A	70	IAC-05-B6.2.04
Nakasuka	A	90	IAC-05-C3.3.01
Nakasuka	A	141	IAC-05-D1.4.04
Nakasuka	CA	38	IAC-05-B5.4.09
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Nakasuka	CA	90	IAC-05-C3.3.04
Nakasuka	CA	112	IAC-05-E1.4.07
Nakata	A	130	IAC-05-E2.P.11
Nakatani	A	78	IAC-05-E4.4.04
Nakatsuji	CA	86	IAC-05-B5.6.A.05
nakaya	CA	122	IAC-05-C1.P.16
Nakaya	CA	98	IAC-05-A2.7.03
Nakis	A	130	IAC-05-E2.P.03
Naletto	CA	86	IAC-05-B5.6.A.12
Nally	CA	13	IAC-05-D3.1.08
Nanbu	CA	106	IAC-05-C2.6.04
Nandakumar	A	131	IAC-05-E5.P.04
Nandakumar	A	143	IAC-05-E6.5.02
Nanokaichi	A	124	IAC-05-C3.P.08
Narasaki	CA	3	IAC-05-A3.1.06
Narita	A	85	IAC-05-B4.4.05
Narumi	CA	93	IAC-05-D2.6.05
Naruo	CA	75	IAC-05-D2.5.05
Naruo	CA	11	IAC-05-C4.1.08
Naruo	CA	59	IAC-05-D2.4.08
Natori	A	25	IAC-05-C2.1.B.01
Natori	CA	25	IAC-05-C2.1.B.04
Natsuka	CA	42	IAC-05-D1.2.09
Navarro Vásquez	CA	17	IAC-05-A2.2.10
Neill	CA	58	IAC-05-C4.3.03
Neitzke	CA	28	IAC-05-D2.2.05
Nelson	A	44	IAC-05-D4.2.05
Nelson	A	128	IAC-05-D4.P.03
Nesvacil	CA	3	IAC-05-A3.1.09
Netsu	CA	65	IAC-05-A1.4.01
Netsu	CA	115	IAC-05-A1.P.01
Neumann	A	31	IAC-05-E5.4.02
Neumann	A	80	IAC-05-E6.4.12
Neumeyer	CA	52	IAC-05-B3.2.02
Newman	CA	100	IAC-05-B3.3.03
Ng	A	103	IAC-05-B5.6.B.02
Ng	A	122	IAC-05-C1.P.03
Ng	CA	72	IAC-05-C2.4.03
Niao-qing	CA	125	IAC-05-C4.P.09
Nicklasson	CA	122	IAC-05-C1.P.06
Nicklasson	CA	122	IAC-05-C1.P.09
Nicolas	A	131	IAC-05-E5.P.02
Nieminen	A	61	IAC-05-D5.1.06
Niemirowski	A	23	IAC-05-B5.3./B5.5.07
Nikitin	CA	50	IAC-05-A2.4.09
Nikolayev	CA	133	IAC-05-A2.6.04
Nilsson	CA	23	IAC-05-B5.3./B5.5.01
Ninomiyama	A	99	IAC-05-A3.2.B.03
Nishida	A	104	IAC-05-B6.3.03
Nishida	CA	122	IAC-05-C1.P.27
Nishida	CA	24	IAC-05-C1.2.07
Nishinaga	A	6	IAC-05-B3.1.07
Nishio	CA	105	IAC-05-C1.7.08
Nishiyama	A	2	IAC-05-A2.1.01
Nishiyama	A	39	IAC-05-C1.3.08
Nobata	CA	14	IAC-05-E1.1.06
Noda	CA	102	IAC-05-B4.5-D2.7.04
Noda	CA	74	IAC-05-C4.4.07
Noda	CA	140	IAC-05-C4.6.07
Noelke	CA	97	IAC-05-A1.6.09
Nojiri	CA	38	IAC-05-B5.4.09
Nojiri	CA	90	IAC-05-C3.3.01
Nokura	CA	66	IAC-05-A2.5.07
Nomura	CA	115	IAC-05-A1.P.10
Nomura	CA	98	IAC-05-A2.7.01
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Noreen	CA	35	IAC-05-A3.3.06
Norris	A	19	IAC-05-A4.1.06
North	A	49	IAC-05-A1.2.05
North	A	115	IAC-05-A1.P.12
Nota	A	17	IAC-05-A2.2.04
Nota	CA	50	IAC-05-A2.4.08
Novikov	CA	94	IAC-05-E1.3.04
Novikova	A	97	IAC-05-A1.6.01
Novikova	CA	97	IAC-05-A1.6.02
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O'Brien	A	80	IAC-05-E6.4.06
Obara	A	61	IAC-05-D5.1.02
Obreschkow	A	2	IAC-05-A2.1.04
Obukhov	A	74	IAC-05-C4.4.03
Obukhov	CA	9	IAC-05-C1.1.01
Ochiai	CA	59	IAC-05-D2.4.02
Oda	A	122	IAC-05-C1.P.27
Oda	A	139	IAC-05-C3.4-D2.8.05
Oda	A	140	IAC-05-C4.6.01
Oda	CA	141	IAC-05-D1.4.06
Oda	CA	90	IAC-05-C3.3.07
ODonnell	A	143	IAC-05-E6.5.03
ODonnell	A	128	IAC-05-D4.P.02
ODonnell	A	13	IAC-05-D3.1.10
ODonnell	A	30	IAC-05-E2.1.09
Oesker	CA	132	IAC-05-A1.7.05
Ogami	CA	98	IAC-05-A2.7.06
Ogawa	A	59	IAC-05-D2.4.08
Ogawa	A	84	IAC-05-B3.4.01
Ogino	A	61	IAC-05-D5.1.01
Oguro	A	65	IAC-05-A1.4.08
Ohkami	CA	95	IAC-05-E3.2.06
Ohkami	CA	130	IAC-05-E2.P.04
Ohkami	CA	130	IAC-05-E2.P.06
Ohkami	CA	85	IAC-05-B4.4.05
Ohmae	CA	89	IAC-05-C2.5.05
Ohnabe	A	16	IAC-05-E5.1.05
Ohnishi	CA	72	IAC-05-C2.4.07
Ohnishi	A	17	IAC-05-A2.2.01
Ohnishi	CA	105	IAC-05-C1.7.03
Ohta	A	73	IAC-05-C3.2.05
Ohtani	A	87	IAC-05-B6.4.09
Oida	A	113	IAC-05-E3.3.05
Oishi	A	130	IAC-05-E2.P.02
Oishi	CA	121	IAC-05-B6.P.04
Okada	CA	6	IAC-05-B3.1.05
Okada	CA	68	IAC-05-B1.5.07
Okada	A	93	IAC-05-D2.6.03
Okada	CA	141	IAC-05-D1.4.04
Okada	CA	16	IAC-05-E5.1.05
Okai	CA	91	IAC-05-C4.5.04
Okai	CA	91	IAC-05-C4.5.02
Okamoto	A	72	IAC-05-C2.4.07
Okamoto	CA	16	IAC-05-E5.1.05
Okawa	A	74	IAC-05-C4.4.07
Okawa	CA	24	IAC-05-C1.2.07
Okawa	CA	104	IAC-05-B6.3.03

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Okawa	CA	139	IAC-05-C3.4-D2.8.03
Okino	CA	86	IAC-05-B5.6.A.05
Okuizumi	CA	139	IAC-05-C3.4-D2.8.06
Okuizumi	CA	25	IAC-05-C2.1.B.01
Okumura	CA	73	IAC-05-C3.2.04
Okushi	A	63	IAC-05-E5.2.05
Okushi	CA	131	IAC-05-E5.P.09
Olds	CA	113	IAC-05-E3.3.08
Oliver	A	36	IAC-05-A4.2.07
Olmo	CA	71	IAC-05-C1.5.07
Olsen	A	65	IAC-05-A1.4.04
OMalley	CA	66	IAC-05-A2.5.04
Öman	A	117	IAC-05-A3.P.04
Onda	CA	86	IAC-05-B5.6.A.05
ONeill	A	73	IAC-05-C3.2.01
ONeill	CA	41	IAC-05-C3.1.04
ONeill	CA	139	IAC-05-C3.4-D2.8.04
Onishi	A	34	IAC-05-A2.3.05
Ono	A	63	IAC-05-E5.2.02
Ono	A	84	IAC-05-B3.4.05
Onoda	CA	40	IAC-05-C2.2.06
Onoda	CA	25	IAC-05-C2.1.B.08
Onoda	A	64	IAC-05-E6.3.02
Ontrup	CA	132	IAC-05-A1.7.05
Oplatková	A	56	IAC-05-C1.4.07
Orasanu	CA	33	IAC-05-A1.3.05
Ormö	CA	132	IAC-05-A1.7.05
Ortega	A	35	IAC-05-A3.3.07
Ortega	CA	117	IAC-05-A3.P.13
Ortiz-Uribe	CA	97	IAC-05-A1.6.04
Öry	CA	10	IAC-05-C2.1.A.02
Osaka	CA	98	IAC-05-A2.7.07
Osamu	CA	63	IAC-05-E5.2.06
Osawa	CA	129	IAC-05-E1.P.01
Oshima	CA	134	IAC-05-A3.5.A.02
Osipov	CA	49	IAC-05-A1.2.07
Ospina	A	80	IAC-05-E6.4.02
Östman	CA	3	IAC-05-A3.1.09
Oswald	CA	70	IAC-05-B6.2.03
Ota	CA	89	IAC-05-C2.5.01
Otsu	A	26	IAC-05-C4.2.08
Ottavianelli	A	68	IAC-05-B1.5.01
Ottavianelli	CA	21	IAC-05-B1.2.08
Ottens	CA	93	IAC-05-D2.6.08
Owens	CA	99	IAC-05-A3.2.B.07
Owens	A	13	IAC-05-D3.1.05
Oxendine	CA	94	IAC-05-E1.3.03
Oyama	CA	27	IAC-05-D1.1.03
Ozawa	CA	90	IAC-05-C3.3.07

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Pacros	CA	1	IAC-05-A1.5.06
Padashulya	A	115	IAC-05-A1.P.14
Paetsch	A	53	IAC-05-B4.2.02
Paine	A	74	IAC-05-C4.4.08
Palazov	A	33	IAC-05-A1.3.06
Palazov	CA	67	IAC-05-B1.4.03
Palencia	CA	133	IAC-05-A2.6.04
Palkovic	CA	111	IAC-05-D4.3.06
Palmer	CA	30	IAC-05-E2.1.09
Palmerini	A	45	IAC-05-D5.2.06
Palmerini	A	88	IAC-05-C1.6.10
Pang	CA	87	IAC-05-B6.4.06
Pang	A	87	IAC-05-B6.4.03
Pang	CA	89	IAC-05-C2.5.06

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Panichkin	A	57	IAC-05-C2.3.08
Panichkin	CA	110	IAC-05-B4.5-D2.7.03
Pankop	CA	53	IAC-05-B4.2.07
Pankop	CA	69	IAC-05-B4.3.06
Pantchenko	CA	68	IAC-05-B1.5.05
Paolozzi	CA	93	IAC-05-D2.6.09
Paolozzi	CA	85	IAC-05-B4.4.01
Pardini	A	104	IAC-05-B6.3.01
Park	CA	40	IAC-05-C2.2.02
Park	A	40	IAC-05-C2.2.07
Park	A	125	IAC-05-C4.P.11
Parra	CA	125	IAC-05-C4.P.01
Parrish	CA	117	IAC-05-A3.P.14
Pascal	A	51	IAC-05-A5.2.04
Pascal	A	35	IAC-05-A3.3.04
Passeggio	CA	85	IAC-05-B4.4.01
Patamia	A	44	IAC-05-D4.2.06
Patamia	A	111	IAC-05-D4.3.04
Patamia	CA	44	IAC-05-D4.2.08
Patamia	CA	111	IAC-05-D4.3.05
Pater	A	138	IAC-05-C2.7.10
Pathan	CA	67	IAC-05-B1.4.01
Patricio	A	54	IAC-05-B5.1.02
Patricio	CA	1	IAC-05-A1.5.06
Pavarin	CA	130	IAC-05-E2.P.05
Pavone	A	99	IAC-05-A3.2.B.09
Peacock	CA	99	IAC-05-A3.2.B.07
Peacock	CA	106	IAC-05-C2.6.02
Peacock	CA	82	IAC-05-A3.2.A.05
Pellis	CA	115	IAC-05-A1.P.17
Pellis	CA	49	IAC-05-A1.2.05
Pellis	CA	65	IAC-05-A1.4.09
Pellis	CA	115	IAC-05-A1.P.21
Peltonen	CA	55	IAC-05-B6.1.08
Peng	A	72	IAC-05-C2.4.03
Penin	A	9	IAC-05-C1.1.02
Penin	CA	137	IAC-05-C1.8.10
Penney	A	112	IAC-05-E1.4.05
Perek	A	96	IAC-05-E3.4.02
Pérez	CA	101	IAC-05-B3.5.04
Pernpeintner	A	10	IAC-05-C2.1.A.04
Persechino	CA	112	IAC-05-E1.4.02
Persson	A	103	IAC-05-B5.6.B.07
Peter	A	112	IAC-05-E1.4.01
Peter	CA	113	IAC-05-E3.3.01
Petersen	CA	2	IAC-05-A2.1.06
Petrov	A	17	IAC-05-A2.2.06
Pettazzi	CA	122	IAC-05-C1.P.05
Pettazzi	CA	141	IAC-05-D1.4.03
Pettazzi	CA	42	IAC-05-D1.2.02
Petukhov	CA	9	IAC-05-C1.1.01
Pfeiffer	CA	72	IAC-05-C2.4.01
Pfingstgräff	A	62	IAC-05-E2.3.09
Pfyffer	A	117	IAC-05-A3.P.17
Phillippe	CA	51	IAC-05-A5.2.04
Phillips	CA	90	IAC-05-C3.3.05
Phipps	A	117	IAC-05-A3.P.03
Phipps	A	35	IAC-05-A3.3.03
Phong	CA	103	IAC-05-B5.6.B.02
Pichkhadze	CA	51	IAC-05-A5.2.05
Pichkhadze	CA	42	IAC-05-D1.2.08
Pichon	CA	26	IAC-05-C4.2.04
Piergentili	CA	24	IAC-05-C1.2.06
Pierre	A	57	IAC-05-C2.3.02
Pignata	CA	62	IAC-05-E2.3.02
Pilkinton	CA	53	IAC-05-B4.2.07
Pilz	A	75	IAC-05-D2.5.04
Ping	A	125	IAC-05-C4.P.18

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Ping	CA	117	IAC-05-A3.P.09
Pingyuan	A	135	IAC-05-A3.5.B.04
Pingyuan	CA	18	IAC-05-A3.4.03
Pingyuan	CA	35	IAC-05-A3.3.09
Piou	CA	105	IAC-05-C1.7.07
Pipoli	CA	41	IAC-05-C3.1.05
Pirard	A	117	IAC-05-A3.P.21
Pirondini	CA	60	IAC-05-D3.3.04
Pirondini	CA	105	IAC-05-C1.7.02
Pizarro-Chong	A	56	IAC-05-C1.4.01
Pizzirani	CA	45	IAC-05-D5.2.06
Pizzolitto	A	115	IAC-05-A1.P.02
Plassmeier	CA	53	IAC-05-B4.2.03
Plattard	A	15	IAC-05-E3.1.05
Plihon	CA	74	IAC-05-C4.4.04
Plitt	CA	94	IAC-05-E1.3.07
Plotnikova	CA	56	IAC-05-C1.4.08
Poddubko	CA	97	IAC-05-A1.6.01
Poddubko	CA	97	IAC-05-A1.6.02
Poetro	A	82	IAC-05-A3.2.A.06
Poetro	A	130	IAC-05-E2.P.01
Poinsignon	A	21	IAC-05-B1.2.04
Poirel	CA	62	IAC-05-E2.3.08
Poirot	CA	5	IAC-05-B2.1.06
Polikarpov	CA	97	IAC-05-A1.6.01
Polishchuk	A	51	IAC-05-A5.2.05
Politi	CA	62	IAC-05-E2.3.04
Pollack	CA	60	IAC-05-D3.3.02
Poncon	CA	59	IAC-05-D2.4.07
Ponomarev-Stepnoi	A	107	IAC-05-C3.5-C4.7.09
Pont	CA	77	IAC-05-E1.2.03
Popescu	A	122	IAC-05-C1.P.21
Popov	A	74	IAC-05-C4.4.06
Popov	CA	9	IAC-05-C1.1.01
Popova	CA	1	IAC-05-A1.5.08
Porciani	CA	42	IAC-05-D1.2.03
Porfilio	A	85	IAC-05-B4.4.01
Portanova	A	28	IAC-05-D2.2.05
Portigliotti	CA	137	IAC-05-C1.8.01
Potapov	CA	49	IAC-05-A1.2.02
Potvin	CA	124	IAC-05-C3.P.03
Potvin	CA	62	IAC-05-E2.3.08
Pracha	A	143	IAC-05-E6.5.14
Pradier	A	13	IAC-05-D3.1.01
Prado	A	88	IAC-05-C1.6.08
Prado	A	122	IAC-05-C1.P.23
Prado	CA	105	IAC-05-C1.7.09
Prats	A	101	IAC-05-B3.5.05
Prel	CA	59	IAC-05-D2.4.07
Preumont	CA	40	IAC-05-C2.2.01
Price	CA	105	IAC-05-C1.7.02
Prins	A	23	IAC-05-B5.3./B5.5.05
Prior	A	141	IAC-05-D1.4.07
Prisniakov	A	47	IAC-05-E4.1.05
Prisniakov	A	33	IAC-05-A1.3.07
Prisniakov	A	40	IAC-05-C2.2.11
Prisniakov	CA	115	IAC-05-A1.P.14
Prisniakova	A	115	IAC-05-A1.P.13
Prisniakova	CA	115	IAC-05-A1.P.14
Prokopovitch	CA	112	IAC-05-E1.4.08
Protsan	A	23	IAC-05-B5.3./B5.5.08
Protsan	CA	14	IAC-05-E1.1.05
Prugger	CA	31	IAC-05-E5.4.03
Pryke	A	95	IAC-05-E3.2.03
Pryke	A	77	IAC-05-E1.2.05
Prytz	A	136	IAC-05-B3.6.08
Puettmann	A	93	IAC-05-D2.6.02

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Pujol	A	77	IAC-05-E1.2.02
Pullum	A	111	IAC-05-D4.3.03
Punt	A	63	IAC-05-E5.2.08
Purpura	A	138	IAC-05-C2.7.04
Purpuri	A	75	IAC-05-D2.5.09
Putzar	A	87	IAC-05-B6.4.02

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Qu	A	130	IAC-05-E2.P.10
Qu	A	65	IAC-05-A1.4.10

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Rabbow	CA	97	IAC-05-A1.6.08
Radchuk	A	119	IAC-05-B1.P.03
Radchuk	A	100	IAC-05-B3.3.02
Radchuk	A	76	IAC-05-D4.1.02
Radice	A	71	IAC-05-C1.5.07
Radtke	CA	123	IAC-05-C2.P.11
Raghavswamy	CA	67	IAC-05-B1.4.01
Rahman	CA	11	IAC-05-C4.1.01
Raitt	A	16	IAC-05-E5.1.06
Raitt	A	111	IAC-05-D4.3.02
Raitt	A	79	IAC-05-E5.3.03
Raitt	CA	79	IAC-05-E5.3.05
Rajeev	A	122	IAC-05-C1.P.29
Rakibi	A	143	IAC-05-E6.5.12
Rakova	CA	97	IAC-05-A1.6.01
Ramadevi	CA	126	IAC-05-D1.P.02
Ramesh	A	65	IAC-05-A1.4.09
Ramesh	CA	115	IAC-05-A1.P.21
Ramesh	CA	65	IAC-05-A1.4.09
Ramirez de Arel-lano	A	32	IAC-05-E6.1.02
Ramos	CA	122	IAC-05-C1.P.22
Ramos	CA	122	IAC-05-C1.P.17
Ramsden	A	97	IAC-05-A1.6.03
Ramusat	CA	123	IAC-05-C2.P.15
Ramusat	CA	59	IAC-05-D2.4.03
Ramusi	CA	54	IAC-05-B5.1.03
Randall	CA	36	IAC-05-A4.2.05
Rando	CA	99	IAC-05-A3.2.B.07
Rando	CA	106	IAC-05-C2.6.02
Ranuzzi	CA	138	IAC-05-C2.7.07
Rao	A	67	IAC-05-B1.4.01
Rao	A	64	IAC-05-E6.3.03
Rao	CA	83	IAC-05-B1.6.01
Rasky	CA	29	IAC-05-D3.2.07
Rath	CA	66	IAC-05-A2.5.08
Rathke	A	88	IAC-05-C1.6.07
Rathke	A	18	IAC-05-A3.4.02
Rathke	A	73	IAC-05-C3.2.06
Rathke	CA	27	IAC-05-D1.1.04
Rauch	CA	1	IAC-05-A1.5.10
Raus	CA	117	IAC-05-A3.P.12
Raus	CA	111	IAC-05-D4.3.10
Ravet	A	12	IAC-05-D2.1.04
Ravex	CA	126	IAC-05-D1.P.06
Rayman	A	135	IAC-05-A3.5.B.01
Raymond	CA	135	IAC-05-A3.5.B.01
Razoumny	A	122	IAC-05-C1.P.02
Redlarski	CA	2	IAC-05-A2.1.05
Reeves	CA	43	IAC-05-D2.3.05

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Reimers	CA	102	IAC-05-B4.5-D2.7.05	
Reimers	CA	42	IAC-05-D1.2.08	
Reimers	CA	13	IAC-05-D3.1.01	
Rembala	A	85	IAC-05-B4.4.04	
Renard	A	82	IAC-05-A3.2.A.07	
Rettberg	CA	97	IAC-05-A1.6.08	
Rettig	A	5	IAC-05-B2.1.06	
Reuter	A	80	IAC-05-E6.4.11	
Rezk	A	81	IAC-05-A1.1.08	
Rhatigan	CA	7	IAC-05-B4.1.08	
Rhone	A	53	IAC-05-B4.2.01	
Richard	CA	51	IAC-05-A5.2.04	
Richard	CA	35	IAC-05-A3.3.04	
Richecoeur	A	58	IAC-05-C4.3.08	
Riedel	CA	89	IAC-05-C2.5.10	
Rini	A	123	IAC-05-C2.P.05	
Ritsher	A	1	IAC-05-A1.5.03	
Ritsher	CA	1	IAC-05-A1.5.05	
Ritsher	CA	1	IAC-05-A1.5.02	
Ritter	CA	72	IAC-05-C2.4.01	
Ritter	CA	132	IAC-05-A1.7.05	
Ritter	A	94	IAC-05-E1.3.03	
Rittweger	A	72	IAC-05-C2.4.02	
Rittweger	CA	10	IAC-05-C2.1.A.02	
Robinson	A	76	IAC-05-D4.1.03	
Robinson	CA	7	IAC-05-B4.1.08	
Rocco	A	105	IAC-05-C1.7.09	
Rochelle	CA	104	IAC-05-B6.3.06	
Rodrigues	CA	2	IAC-05-A2.1.02	
Rodriguez	Man-fredi	CA	132	IAC-05-A1.7.05
Rodriguez	Re-bolledo	A	14	IAC-05-E1.1.04
Rodriguez-López	CA	3	IAC-05-A3.1.09	
Roeser	CA	99	IAC-05-A3.2.B.02	
Rogers	A	76	IAC-05-D4.1.06	
Rogers	CA	141	IAC-05-D1.4.09	
Rogers	CA	113	IAC-05-E3.3.09	
Rogers	CA	117	IAC-05-A3.P.05	
Rogers	CA	20	IAC-05-A5.1.09	
Rolo	A	136	IAC-05-B3.6.07	
Romadhan	CA	124	IAC-05-C3.P.09	
Romanescu	CA	40	IAC-05-C2.2.01	
Romashkin	A	59	IAC-05-D2.4.04	
Roser	A	38	IAC-05-B5.4.06	
Rothammel	A	45	IAC-05-D5.2.02	
Rothmund	A	114	IAC-05-E4.3.05	
Rowlands	A	3	IAC-05-A3.1.01	
Roy	CA	83	IAC-05-B1.6.01	
Ruaud	CA	43	IAC-05-D2.3.01	
Rudorff	CA	112	IAC-05-E1.4.06	
Rugescu	A	128	IAC-05-D4.P.04	
Rugescu	A	47	IAC-05-E4.1.02	
Rugescu	A	111	IAC-05-D4.3.07	
Rugescu	A	71	IAC-05-C1.5.10	
Rugescu	A	44	IAC-05-D4.2.10	
Rugescu	A	81	IAC-05-A1.1.03	
Ruiz	CA	17	IAC-05-A2.2.10	
Rumjancev	CA	39	IAC-05-C1.3.04	
Rummel	A	19	IAC-05-A4.1.11	
Rummel	A	132	IAC-05-A1.7.06	
Russo	A	3	IAC-05-A3.1.08	
Russo	A	116	IAC-05-A2.P.04	
Russo	A	77	IAC-05-E1.2.09	
Russell	CA	135	IAC-05-A3.5.B.01	
Ryan	A	125	IAC-05-C4.P.05	
Ryan	A	89	IAC-05-C2.5.10	
Rycek	A	74	IAC-05-C4.4.01	

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Ryden	CA	61	IAC-05-D5.1.06
Rydén	A	58	IAC-05-C4.3.04
Ryzenko	A	95	IAC-05-E3.2.04
Ryzenko	A	48	IAC-05-E6.2.03
Ryzenko	A	102	IAC-05-B4.5-D2.7.08

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Sacotte	A	7	IAC-05-B4.1.03
Saghir	CA	50	IAC-05-A2.4.02
Saghir	CA	133	IAC-05-A2.6.03
Sahara	A	11	IAC-05-C4.1.09
Sahara	CA	90	IAC-05-C3.3.01
Sahara	CA	141	IAC-05-D1.4.04
Saijou	CA	78	IAC-05-E4.4.03
Saiki	A	71	IAC-05-C1.5.03
Saiki	A	139	IAC-05-C3.4-D2.8.09
Saito	CA	69	IAC-05-B4.3.03
Saito	CA	34	IAC-05-A2.3.01
Saito	CA	103	IAC-05-B5.6.B.05
Saito	CA	136	IAC-05-B3.6.06
Saito	A	41	IAC-05-C3.1.03
Saitoh	CA	125	IAC-05-C4.P.07
SAkagami	CA	72	IAC-05-C2.4.07
Sakai	CA	103	IAC-05-B5.6.B.05
Sakamoto	A	40	IAC-05-C2.2.02
Sakamoto	CA	26	IAC-05-C4.2.07
Sakamoto	CA	140	IAC-05-C4.6.01
Sakamoto	CA	140	IAC-05-C4.6.06
Sakamoto	A	105	IAC-05-C1.7.08
Sakamoto	CA	130	IAC-05-E2.P.07
Sakamoto	CA	130	IAC-05-E2.P.02
Sakurai	CA	93	IAC-05-D2.6.05
Sakurai	CA	98	IAC-05-A2.7.06
Sakuranaka	CA	91	IAC-05-C4.5.06
Salcedo	CA	105	IAC-05-C1.7.07
Saleh	A	100	IAC-05-B3.3.03
Salkeld	A	43	IAC-05-D2.3.08
Salnitskiy	CA	1	IAC-05-A1.5.10
Salnitskiy	CA	1	IAC-05-A1.5.02
Salter	CA	3	IAC-05-A3.1.09
Sameshima	CA	105	IAC-05-C1.7.08
Samorezov	A	10	IAC-05-C2.1.A.11
Sanchez Troncoso	A	77	IAC-05-E1.2.03
Sánchez-Nogales	CA	9	IAC-05-C1.1.10
Sandal	A	1	IAC-05-A1.5.09
Sanders	CA	115	IAC-05-A1.P.16
Sanmartin	CA	27	IAC-05-D1.1.03
Sano	CA	34	IAC-05-A2.3.01
Santhamma	A	45	IAC-05-D5.2.03
Santin	CA	61	IAC-05-D5.1.06
Santoni	A	24	IAC-05-C1.2.06
Santos	CA	88	IAC-05-C1.6.08
Sarah	A	109	IAC-05-D1.5.03
Sarda	A	86	IAC-05-B5.6.A.15
Sarkarati	A	117	IAC-05-A3.P.10
Sasagawa	CA	68	IAC-05-B1.5.07
Sasaki	CA	38	IAC-05-B5.4.09
Sasaki	CA	90	IAC-05-C3.3.01
Sasaki	A	102	IAC-05-B4.5-D2.7.06
Sasaki	CA	43	IAC-05-D2.3.03
Sasaki	CA	26	IAC-05-C4.2.07
Sasaki	A	139	IAC-05-C3.4-D2.8.06
Sasaki	CA	27	IAC-05-D1.1.03
Sasaki	CA	8	IAC-05-B5.2.01
Sase	CA	86	IAC-05-B5.6.A.05

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Sasikumar	A	80	IAC-05-E6.4.09	Segert	CA	25	IAC-05-C2.1.B.03
Sato	A	75	IAC-05-D2.5.05	Segert	CA	86	IAC-05-B5.6.A.08
Sato	CA	57	IAC-05-C2.3.01	Segert	CA	77	IAC-05-E1.2.08
Sato	CA	58	IAC-05-C4.3.01	Seguin	A	21	IAC-05-B1.2.07
Sato	CA	93	IAC-05-D2.6.05	Sehlapelo	CA	54	IAC-05-B5.1.03
Sato	CA	98	IAC-05-A2.7.07	Sein	CA	37	IAC-05-B1.3.04
Sato	A	28	IAC-05-D2.2.01	Seitzer	CA	55	IAC-05-B6.1.05
Sato	CA	26	IAC-05-C4.2.06	Sekikawa	CA	123	IAC-05-C2.P.23
Sato	A	26	IAC-05-C4.2.06	Sell	A	117	IAC-05-A3.P.14
Sato	CA	34	IAC-05-A2.3.01	Semenov	A	26	IAC-05-C4.2.05
Sato	A	7	IAC-05-B4.1.06	Semenov	CA	17	IAC-05-A2.2.06
Sato	CA	91	IAC-05-C4.5.02	Sen	A	68	IAC-05-B1.5.02
Satoh	CA	27	IAC-05-D1.1.03	Sen	A	92	IAC-05-D1.3.02
Satoh	CA	101	IAC-05-B3.5.01	Senba	A	72	IAC-05-C2.4.05
Satoh	CA	101	IAC-05-B3.5.02	Senchenkov	A	50	IAC-05-A2.4.04
Sauer	A	86	IAC-05-B5.6.A.06	Senda	CA	139	IAC-05-C3.4-D2.8.06
Sausen	A	112	IAC-05-E1.4.06	Senkevich	CA	41	IAC-05-C3.1.07
Savary	CA	115	IAC-05-A1.P.21	Sentis	A	42	IAC-05-D1.2.05
Savino	CA	50	IAC-05-A2.4.08	Seo	CA	10	IAC-05-C2.1.A.07
Savino	CA	17	IAC-05-A2.2.04	Seol	CA	58	IAC-05-C4.3.07
Sawai	A	58	IAC-05-C4.3.01	Seol	CA	125	IAC-05-C4.P.11
Sawai	CA	99	IAC-05-A3.2.B.03	Seraj Mehdizadeh	A	124	IAC-05-C3.P.04
Saylor	CA	1	IAC-05-A1.5.02	Sergienko	A	11	IAC-05-C4.1.07
Saylor	CA	1	IAC-05-A1.5.03	Serra	A	114	IAC-05-E4.3.07
Scala	CA	97	IAC-05-A1.6.05	Seshagiri Rao	CA	28	IAC-05-D2.2.02
Scala	CA	133	IAC-05-A2.6.05	Seshagiri Rao	CA	109	IAC-05-D1.5.06
Scari	A	8	IAC-05-B5.2.09	Setoyama	CA	88	IAC-05-C1.6.09
Scari	CA	100	IAC-05-B3.3.04	Seurig	A	69	IAC-05-B4.3.09
Scari	CA	86	IAC-05-B5.6.A.16	Sevastianov	A	6	IAC-05-B3.1.03
Scari	CA	9	IAC-05-C1.1.08	Sevastianov	A	68	IAC-05-B1.5.05
Scari	CA	71	IAC-05-C1.5.05	Sevastianov	A	20	IAC-05-A5.1.03
Scatteia	A	112	IAC-05-E1.4.02	Sgubini	CA	88	IAC-05-C1.6.10
Scatteia	A	57	IAC-05-C2.3.05	Shakhmardan	CA	50	IAC-05-A2.4.09
Scatteia	CA	138	IAC-05-C2.7.05	Sharma	A	88	IAC-05-C1.6.04
Schaefer	A	73	IAC-05-C3.2.10	Sharma	A	104	IAC-05-B6.3.05
Schaefer	CA	18	IAC-05-A3.4.09	Shelef	CA	111	IAC-05-D4.3.01
Schaefer	CA	87	IAC-05-B6.4.02	Shell	CA	23	IAC-05-B5.3./B5.5.03
Schaefer	CA	55	IAC-05-B6.1.10	Shepperd	A	105	IAC-05-C1.7.10
Schaefer	CA	89	IAC-05-C2.5.10	Shevtsova	A	50	IAC-05-A2.4.05
Schaefer	CA	123	IAC-05-C2.P.12	Shiba	A	81	IAC-05-A1.1.04
Schaeffer	A	30	IAC-05-E2.1.08	Shibato	A	78	IAC-05-E4.4.05
Scheeres	CA	88	IAC-05-C1.6.02	Shibuya	A	129	IAC-05-E1.P.01
Scheithauer	CA	42	IAC-05-D1.2.02	Shieh	CA	67	IAC-05-B1.4.02
Schettino	CA	93	IAC-05-D2.6.08	Shijie	A	18	IAC-05-A3.4.07
Schildknecht	A	121	IAC-05-B6.P.01	Shima	A	9	IAC-05-C1.1.03
Schildknecht	CA	55	IAC-05-B6.1.08	Shimamura	CA	72	IAC-05-C2.4.06
Schipper	A	82	IAC-05-A3.2.A.02	Shimazaki	CA	72	IAC-05-C2.4.07
Schmidl	CA	53	IAC-05-B4.2.07	Shimizu	CA	87	IAC-05-B6.4.05
Schmidl	CA	69	IAC-05-B4.3.06	Shimizu	A	115	IAC-05-A1.P.01
Schmidt-Tedd	A	143	IAC-05-E6.5.08	Shimizu	CA	65	IAC-05-A1.4.01
Schmidt-Tedd	CA	64	IAC-05-E6.3.05	Shimura	A	59	IAC-05-D2.4.02
Schnabl	CA	115	IAC-05-A1.P.20	Shindo	CA	115	IAC-05-A1.P.10
Schneider	CA	137	IAC-05-C1.8.05	Shinji	CA	63	IAC-05-E5.2.06
Schneider	CA	66	IAC-05-A2.5.03	Shinohara	A	140	IAC-05-C4.6.07
Scholz	A	14	IAC-05-E1.1.08	Shinohara	CA	139	IAC-05-C3.4-D2.8.06
Schoppe	A	31	IAC-05-E5.4.06	Shinohara	A	73	IAC-05-C3.2.08
Schowengerdt	A	31	IAC-05-E5.4.05	Shinohara	CA	124	IAC-05-C3.P.08
Schreier	A	68	IAC-05-B1.5.04	Shinohara	CA	74	IAC-05-C4.4.05
Schroder	CA	2	IAC-05-A2.1.05	Shinomiya	CA	99	IAC-05-A3.2.B.03
Schrogl	A	143	IAC-05-E6.5.07	Shinozaki	CA	34	IAC-05-A2.3.01
Schubert	A	131	IAC-05-E5.P.10	Shintaro	CA	72	IAC-05-C2.4.06
Schulte	A	132	IAC-05-A1.7.02	Shinyashiki	CA	125	IAC-05-C4.P.03
Schulze-Makuch	A	132	IAC-05-A1.7.01	Shiozawa	A	49	IAC-05-A1.2.06
Schwimbersky	CA	131	IAC-05-E5.P.02	Shiraki	CA	7	IAC-05-B4.1.01
Scott	A	117	IAC-05-A3.P.08	Shiraki	CA	87	IAC-05-B6.4.01
Sebastian Martinez	CA	132	IAC-05-A1.7.05	Shnyakin	A	11	IAC-05-C4.1.04
Segawa	A	98	IAC-05-A2.7.03	Shostak	A	19	IAC-05-A4.1.07
Segert	A	38	IAC-05-B5.4.08	Shotwell	CA	12	IAC-05-D2.1.02

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Shuch	A	36	IAC-05-A4.2.09
Shuch	A	19	IAC-05-A4.1.03
Shutov	CA	6	IAC-05-B3.1.03
Shutov	CA	68	IAC-05-B1.5.05
Shutov	CA	20	IAC-05-A5.1.03
Sibille	CA	20	IAC-05-A5.1.08
Siddiqi	A	60	IAC-05-D3.3.03
Siddiqi	CA	139	IAC-05-C3.4-D2.8.08
Siegel	CA	1	IAC-05-A1.5.01
Sies	CA	66	IAC-05-A2.5.03
Silvia	CA	115	IAC-05-A1.P.11
Sim	CA	54	IAC-05-B5.1.05
Simakov	A	132	IAC-05-A1.7.07
Simmons	A	19	IAC-05-A4.1.01
Simmons	A	126	IAC-05-D1.P.03
Simões da Silva	CA	141	IAC-05-D1.4.05
Sindoni	CA	85	IAC-05-B4.4.01
Singh	CA	67	IAC-05-B1.4.01
Singhroy	A	5	IAC-05-B2.1.03
Sipes	A	1	IAC-05-A1.5.04
Sippel	A	59	IAC-05-D2.4.09
Slavin	A	139	IAC-05-C3.4-D2.8.01
Slyunyaev	A	27	IAC-05-D1.1.08
Slyunyaev	A	118	IAC-05-A5.P.03
Slyvynska	CA	57	IAC-05-C2.3.07
Slyvyns'kyi	A	57	IAC-05-C2.3.07
Smirnov	A	50	IAC-05-A2.4.09
Smirnov	A	17	IAC-05-A2.2.02
Smith	CA	69	IAC-05-B4.3.06
Smith	CA	73	IAC-05-C3.2.07
Smith	A	32	IAC-05-E6.1.03
Smith	CA	104	IAC-05-B6.3.06
Smitherman	A	44	IAC-05-D4.2.04
Soares	A	53	IAC-05-B4.2.07
Soares	A	69	IAC-05-B4.3.06
Sobue	A	92	IAC-05-D1.3.07
Sogame	A	78	IAC-05-E4.4.06
Soley	CA	101	IAC-05-B3.5.05
Solheim	A	97	IAC-05-A1.6.06
Soll	CA	1	IAC-05-A1.5.10
Solodovnikova	A	30	IAC-05-E2.1.03
Solorzano	CA	122	IAC-05-C1.P.23
Sommer	A	29	IAC-05-D3.2.02
Sommer	CA	93	IAC-05-D2.6.04
Somov	CA	39	IAC-05-C1.3.01
Song	CA	123	IAC-05-C2.P.08
Sonnemann	A	117	IAC-05-A3.P.19
Sorokin	A	69	IAC-05-B4.3.03
Sorokin	A	92	IAC-05-D1.3.03
Sousa	CA	122	IAC-05-C1.P.22
Sousa	CA	122	IAC-05-C1.P.17
Souverein	CA	58	IAC-05-C4.3.09
Souza	CA	105	IAC-05-C1.7.09
Sowers	A	12	IAC-05-D2.1.06
Spencer	CA	55	IAC-05-B6.1.10
Stabroth	A	70	IAC-05-B6.2.03
Stam	CA	18	IAC-05-A3.4.05
Stancato	A	14	IAC-05-E1.1.05
Stanley	A	43	IAC-05-D2.3.05
Stansbery	CA	55	IAC-05-B6.1.05
Stansbery	CA	55	IAC-05-B6.1.02
Steinsiek	A	73	IAC-05-C3.2.09
Stelling	CA	1	IAC-05-A1.5.10
Stenmark	CA	42	IAC-05-D1.2.07
Stephens	A	54	IAC-05-B5.1.04
Stephens	A	22	IAC-05-B2.2.04
Stephens	CA	4	IAC-05-B1.1.03
Sterbini	A	6	IAC-05-B3.1.04

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Sterenborg	CA	76	IAC-05-D4.1.03
Sterken	A	89	IAC-05-C2.5.08
Sterns	CA	80	IAC-05-E6.4.07
Stewart, Jr.	CA	23	IAC-05-B5.3./B5.5.03
Stief	A	125	IAC-05-C4.P.06
Stobbart	CA	3	IAC-05-A3.1.09
Stokely	CA	55	IAC-05-B6.1.02
Stoker	CA	51	IAC-05-A5.2.01
Stokes	CA	87	IAC-05-B6.4.02
Stone	CA	132	IAC-05-A1.7.09
Stöveken	CA	55	IAC-05-B6.1.08
Stoyanov	CA	67	IAC-05-B1.4.03
Strogonova	A	94	IAC-05-E1.3.04
Subramanian	A	50	IAC-05-A2.4.07
Suenaga	CA	52	IAC-05-B3.2.06
Suga	CA	5	IAC-05-B2.1.01
Suganuma	A	98	IAC-05-A2.7.01
Sugawara	CA	141	IAC-05-D1.4.04
Sugimoto	A	86	IAC-05-B5.6.A.01
Sugita	A	3	IAC-05-A3.1.06
Sugiyama	CA	34	IAC-05-A2.3.01
Sukhanov	CA	122	IAC-05-C1.P.23
Sumin	A	110	IAC-05-B4.5-D2.7.03
Summerer	A	41	IAC-05-C3.1.05
Summerer	A	90	IAC-05-C3.3.03
Summerer	A	41	IAC-05-C3.1.06
Summerer	CA	90	IAC-05-C3.3.04
Sun	CA	87	IAC-05-B6.4.09
Sundaesan	A	115	IAC-05-A1.P.17
Sundaesan	CA	115	IAC-05-A1.P.21
Sunde	A	122	IAC-05-C1.P.04
Surdal	A	119	IAC-05-B1.P.10
Sutton	CA	97	IAC-05-A1.6.04
Suvorov	A	69	IAC-05-B4.3.01
Suvorov	A	7	IAC-05-B4.1.07
Suzukawa	CA	34	IAC-05-A2.3.03
Suzukawa	CA	34	IAC-05-A2.3.02
Suzuki	CA	92	IAC-05-D1.3.04
Suzuki	CA	89	IAC-05-C2.5.02
Suzuki	CA	59	IAC-05-D2.4.02
Suzuki	CA	93	IAC-05-D2.6.05
Suzuki	CA	46	IAC-05-E2.2.03
Suzuki	A	95	IAC-05-E3.2.02
Suzuki	A	13	IAC-05-D3.1.02
Suzuki	A	136	IAC-05-B3.6.03
Suzuyama	CA	141	IAC-05-D1.4.02
Svedhem	CA	99	IAC-05-A3.2.B.04
Swan	A	44	IAC-05-D4.2.01
Swan	CA	111	IAC-05-D4.3.03
Sweeting	CA	117	IAC-05-A3.P.03
Sweeting	CA	92	IAC-05-D1.3.08
Sweeting	CA	38	IAC-05-B5.4.01
Sweeting	CA	4	IAC-05-B1.1.03
Sweeting	CA	54	IAC-05-B5.1.04
Sweeting	CA	22	IAC-05-B2.2.04
Sylvestre	A	124	IAC-05-C3.P.03
Sylvestre	CA	65	IAC-05-A1.4.04

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Tachibana	CA	125	IAC-05-C4.P.07
Tachikawa	CA	72	IAC-05-C2.4.07
Tada	CA	33	IAC-05-A1.3.05
Tadakuma	A	75	IAC-05-D2.5.03
Tadano	CA	26	IAC-05-C4.2.06
Tadaoka	CA	87	IAC-05-B6.4.08

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Tagawa	A	89	IAC-05-C2.5.05	Teofilatto	A	137	IAC-05-C1.8.07
Tagawa	CA	81	IAC-05-A1.1.04	Terada	CA	27	IAC-05-D1.1.01
Taguchi	CA	91	IAC-05-C4.5.02	Terasawa	A	16	IAC-05-E5.1.02
Taira	CA	101	IAC-05-B3.5.01	Terentyev	CA	112	IAC-05-E1.4.08
Takadama	CA	27	IAC-05-D1.1.01	Terui	CA	104	IAC-05-B6.3.03
Takahashi	A	98	IAC-05-A2.7.05	Testi	A	116	IAC-05-A2.P.03
Takahashi	CA	140	IAC-05-C4.6.01	Tetsuro	A	63	IAC-05-E5.2.06
Takahashi	CA	26	IAC-05-C4.2.07	Tewari	A	115	IAC-05-A1.P.05
Takahashi	CA	26	IAC-05-C4.2.07	Theil	A	42	IAC-05-D1.2.02
Takahashi	A	34	IAC-05-A2.3.01	Theilmann	A	43	IAC-05-D2.3.09
Takano	CA	8	IAC-05-B5.2.01	Theilmann	A	30	IAC-05-E2.1.07
Takano	A	21	IAC-05-B1.2.01	Thomas	A	7	IAC-05-B4.1.08
Takasaki	CA	141	IAC-05-D1.4.02	Thomas	CA	17	IAC-05-A2.2.06
Takaya-Umehara	A	143	IAC-05-E6.5.11	Thomas	CA	65	IAC-05-A1.4.09
Takayama	CA	87	IAC-05-B6.4.09	Thompson	CA	103	IAC-05-B5.6.B.10
Takayama	CA	103	IAC-05-B5.6.B.01	Thompson	CA	84	IAC-05-B3.4.02
Takayanagi	A	90	IAC-05-C3.3.07	Thompson	CA	14	IAC-05-E1.1.01
Takegahara	CA	125	IAC-05-C4.P.07	Tian	A	119	IAC-05-B1.P.04
Takei	CA	23	IAC-05-B5.3./B5.5.02	Tian	A	123	IAC-05-C2.P.07
Takeichi	A	122	IAC-05-C1.P.15	tieshou	CA	137	IAC-05-C1.8.09
Takeuchi	A	109	IAC-05-D1.5.05	Tietz	A	125	IAC-05-C4.P.16
Takeuchi	A	25	IAC-05-C2.1.B.08	Titov	CA	117	IAC-05-A3.P.07
Takeuchi	CA	91	IAC-05-C4.5.04	Titov	CA	99	IAC-05-A3.2.B.04
Takeuchi	CA	75	IAC-05-D2.5.05	Tobehn	CA	21	IAC-05-B1.2.05
Takeuchi	CA	56	IAC-05-C1.4.05	Tobehn	CA	103	IAC-05-B5.6.B.09
Takeuchi	A	83	IAC-05-B1.6.04	Tobehn	CA	8	IAC-05-B5.2.03
Takizawa	CA	8	IAC-05-B5.2.01	Tochimoto	A	86	IAC-05-B5.6.A.18
Takizawa	CA	13	IAC-05-D3.1.03	Toda	A	136	IAC-05-B3.6.06
Talalaev	CA	26	IAC-05-C4.2.05	Toglia	A	46	IAC-05-E2.2.01
Talbot	CA	122	IAC-05-C1.P.18	Tohyama	CA	14	IAC-05-E1.1.06
Tamura	CA	26	IAC-05-C4.2.07	Tokudome	A	125	IAC-05-C4.P.12
Tamura	CA	3	IAC-05-A3.1.11	Tomassetti	A	57	IAC-05-C2.3.04
Tan	CA	94	IAC-05-E1.3.07	Tomioka	CA	91	IAC-05-C4.5.03
Tan	CA	25	IAC-05-C2.1.B.10	Tomita	A	26	IAC-05-C4.2.07
tan	CA	115	IAC-05-A1.P.06	Tomoko	CA	94	IAC-05-E1.3.02
Tanaka	A	42	IAC-05-D1.2.04	Töndel	CA	39	IAC-05-C1.3.02
Tanaka	CA	34	IAC-05-A2.3.01	Tone	A	122	IAC-05-C1.P.24
Tanaka	A	25	IAC-05-C2.1.B.04	Tong	A	89	IAC-05-C2.5.06
Tanaka	CA	139	IAC-05-C3.4.D2.8.06	Tong	CA	87	IAC-05-B6.4.03
Tanaka	A	4	IAC-05-B1.1.07	Tong	A	125	IAC-05-C4.P.19
Tanaka	CA	65	IAC-05-A1.4.03	Tonini	A	100	IAC-05-B3.3.04
Tanaka	A	87	IAC-05-B6.4.07	Tonini	CA	86	IAC-05-B5.6.A.16
Tanaka	CA	55	IAC-05-B6.1.10	Toor	A	115	IAC-05-A1.P.07
Tanaka	CA	27	IAC-05-D1.1.03	Topputo	A	88	IAC-05-C1.6.06
Tanaka	CA	89	IAC-05-C2.5.01	Torii	A	3	IAC-05-A3.1.07
Tanatsugu	CA	91	IAC-05-C4.5.04	Toro	A	49	IAC-05-A1.2.04
Tang	CA	13	IAC-05-D3.1.08	Torre	CA	101	IAC-05-B3.5.06
Tani	A	91	IAC-05-C4.5.06	Torres	CA	84	IAC-05-B3.4.03
Tani	CA	91	IAC-05-C4.5.03	Toru	CA	94	IAC-05-E1.3.02
Tani	CA	75	IAC-05-D2.5.03	Tosa	A	89	IAC-05-C2.5.07
Taniguchi	CA	139	IAC-05-C3.4.D2.8.03	Totani	A	106	IAC-05-C2.6.04
Tanikawa	A	74	IAC-05-C4.4.05	Totani	CA	125	IAC-05-C4.P.21
Tank	A	81	IAC-05-A1.1.06	Totaro	A	138	IAC-05-C2.7.05
Tarao	A	137	IAC-05-C1.8.08	Touboul	CA	2	IAC-05-A2.1.02
Tarao	CA	8	IAC-05-B5.2.04	Tough	A	19	IAC-05-A4.1.08
Taromaru	CA	55	IAC-05-B6.1.01	Tournebize	CA	5	IAC-05-B2.1.06
Tawada	A	130	IAC-05-E2.P.06	Toyoda	CA	73	IAC-05-C3.2.04
Taya	CA	16	IAC-05-E5.1.05	Trauner Kerstein	CA	114	IAC-05-E4.3.04
Taylor	CA	60	IAC-05-D3.3.07	Trenkler	A	10	IAC-05-C2.1.A.03
Taylor	CA	104	IAC-05-B6.3.09	Tribess	CA	14	IAC-05-E1.1.05
Taylor	CA	117	IAC-05-A3.P.20	Triltzsch	CA	31	IAC-05-E5.4.03
Taylor	A	46	IAC-05-E2.2.06	Triscott	A	112	IAC-05-E1.4.03
Team	CA	35	IAC-05-A3.3.05	Triscott	A	63	IAC-05-E5.2.03
Team	CA	73	IAC-05-C3.2.08	Triscott	A	94	IAC-05-E1.3.05
Tejasukmana	CA	22	IAC-05-B2.2.05	Triscott	A	79	IAC-05-E5.3.05
Telmar	CA	132	IAC-05-A1.7.04	Triscott	A	115	IAC-05-A1.P.15
Tendean	CA	40	IAC-05-C2.2.08	Trivailo	A	46	IAC-05-E2.2.02
Tennen	A	80	IAC-05-E6.4.07	Trivailo	CA	9	IAC-05-C1.1.09

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Trivailo	A	56	IAC-05-C1.4.08	Vakoch	A	48	IAC-05-E6.2.10
Trivailo	CA	72	IAC-05-C2.4.04	Vakoch	A	63	IAC-05-E5.2.10
Trivailo	CA	122	IAC-05-C1.P.14	Valentine	CA	33	IAC-05-A1.3.02
Trollier	CA	126	IAC-05-D1.P.06	Valtonen	CA	55	IAC-05-B6.1.08
Truong	CA	36	IAC-05-A4.2.05	van Baten	CA	39	IAC-05-C1.3.09
Tsagkas	A	89	IAC-05-C2.5.04	van Casteren	A	99	IAC-05-A3.2.B.05
Tsang	A	117	IAC-05-A3.P.20	van de Heijning	A	140	IAC-05-C4.6.02
Tschimmel	A	117	IAC-05-A3.P.07	van de Heijning	A	111	IAC-05-D4.3.10
Tselinko	CA	22	IAC-05-B2.2.09	van den Berg	CA	117	IAC-05-A3.P.03
Tsuchiya	A	24	IAC-05-C1.2.01	Van der Heide	CA	123	IAC-05-C2.P.06
Tsuda	A	56	IAC-05-C1.4.05	van der Merwe	CA	117	IAC-05-A3.P.14
Tsuda	CA	25	IAC-05-C2.1.B.08	van der Merwe	A	23	IAC-05-B5.3./B5.5.04
Tsuda	CA	136	IAC-05-B3.6.06	Van der Velden	A	14	IAC-05-E1.1.01
Tsue	CA	98	IAC-05-A2.7.07	Van der Wal	A	16	IAC-05-E5.1.03
Tsuji	A	7	IAC-05-B4.1.01	Van Dijk	CA	79	IAC-05-E5.3.05
Tsukada	A	75	IAC-05-D2.5.02	van Fenema	A	96	IAC-05-E3.4.03
Tsukada	CA	57	IAC-05-C2.3.01	Van Grootel	A	123	IAC-05-C2.P.04
Tsuneyoshi	CA	119	IAC-05-B1.P.09	van Marion	CA	116	IAC-05-A2.P.02
Tsumoda	CA	25	IAC-05-C2.1.B.07	van Vugt	A	105	IAC-05-C1.7.04
Tsutsumi	CA	93	IAC-05-D2.6.05	Vandenbussche	CA	8	IAC-05-B5.2.10
Tu	CA	2	IAC-05-A2.1.07	Vandenrijt	A	3	IAC-05-A3.1.09
Tullet	CA	2	IAC-05-A2.1.06	VanderArk	CA	1	IAC-05-A1.5.04
Tumino	A	93	IAC-05-D2.6.06	Vanschoenbeek	CA	116	IAC-05-A2.P.02
Tumino	CA	59	IAC-05-D2.4.03	Vargas	CA	40	IAC-05-C2.2.03
Turcat	A	47	IAC-05-E4.1.06	Vasile	CA	88	IAC-05-C1.6.06
Turk	CA	53	IAC-05-B4.2.02	Vasile	CA	20	IAC-05-A5.1.06
Twigt	CA	58	IAC-05-C4.3.09	Vasile	CA	59	IAC-05-D2.4.01

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Uchida	CA	83	IAC-05-B1.6.05
Uchida	A	139	IAC-05-C3.4-D2.8.02
Uchida	A	140	IAC-05-C4.6.09
Uchikawa	CA	87	IAC-05-B6.4.01
Uchiyama	CA	86	IAC-05-B5.6.A.05
Udrea	CA	9	IAC-05-C1.1.02
Ueba	CA	25	IAC-05-C2.1.B.02
Uebelhart	A	51	IAC-05-A5.2.08
Ueda	CA	61	IAC-05-D5.1.04
Ueda	CA	91	IAC-05-C4.5.03
Uematsu	CA	125	IAC-05-C4.P.21
Uemura	A	109	IAC-05-D1.5.02
Ueno	A	71	IAC-05-C1.5.09
Ueno	CA	99	IAC-05-A3.2.B.03
Ueno	CA	69	IAC-05-B4.3.08
Ueshige	CA	119	IAC-05-B1.P.04
Uesugi	CA	58	IAC-05-C4.3.01
Ui	A	86	IAC-05-B5.6.A.07
Ui	CA	86	IAC-05-B5.6.A.03
Ujii	CA	98	IAC-05-A2.7.01
Ulamec	A	132	IAC-05-A1.7.08
Ulybyshev	A	84	IAC-05-B3.4.04
Umehara	A	71	IAC-05-C1.5.04
Umemura	CA	98	IAC-05-A2.7.08
Underwood	CA	61	IAC-05-D5.1.06
Uo	CA	134	IAC-05-A3.5.A.02
Uri	A	69	IAC-05-B4.3.02
Usov	CA	107	IAC-05-C3.5-C4.7.09
Usuda	CA	86	IAC-05-B5.6.A.03

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Vakhnichenko	CA	59	IAC-05-D2.4.04
Vakoch	A	19	IAC-05-A4.1.02

Vakoch	A	48	IAC-05-E6.2.10
Vakoch	A	63	IAC-05-E5.2.10
Valentine	CA	33	IAC-05-A1.3.02
Valtonen	CA	55	IAC-05-B6.1.08
van Baten	CA	39	IAC-05-C1.3.09
van Casteren	A	99	IAC-05-A3.2.B.05
van de Heijning	A	140	IAC-05-C4.6.02
van de Heijning	A	111	IAC-05-D4.3.10
van den Berg	CA	117	IAC-05-A3.P.03
Van der Heide	CA	123	IAC-05-C2.P.06
van der Merwe	CA	117	IAC-05-A3.P.14
van der Merwe	A	23	IAC-05-B5.3./B5.5.04
Van der Velden	A	14	IAC-05-E1.1.01
Van der Wal	A	16	IAC-05-E5.1.03
Van Dijk	CA	79	IAC-05-E5.3.05
van Fenema	A	96	IAC-05-E3.4.03
Van Grootel	A	123	IAC-05-C2.P.04
van Marion	CA	116	IAC-05-A2.P.02
van Vugt	A	105	IAC-05-C1.7.04
Vandenbussche	CA	8	IAC-05-B5.2.10
Vandenrijt	A	3	IAC-05-A3.1.09
VanderArk	CA	1	IAC-05-A1.5.04
Vanschoenbeek	CA	116	IAC-05-A2.P.02
Vargas	CA	40	IAC-05-C2.2.03
Vasile	CA	88	IAC-05-C1.6.06
Vasile	CA	20	IAC-05-A5.1.06
Vasile	CA	59	IAC-05-D2.4.01
Vasile	CA	62	IAC-05-E2.3.04
Vasile	CA	71	IAC-05-C1.5.05
Vasile	CA	9	IAC-05-C1.1.05
Vasiliev	A	17	IAC-05-A2.2.03
Vasiliev	A	116	IAC-05-A2.P.01
Vasilieva	CA	69	IAC-05-B4.3.01
Vasilieva	CA	7	IAC-05-B4.1.07
Vassilev	A	83	IAC-05-B1.6.06
Vaulina	CA	17	IAC-05-A2.2.06
Vavouliotis	A	123	IAC-05-C2.P.06
Vavouliotis	CA	123	IAC-05-C2.P.02
Vekhoturov	CA	6	IAC-05-B3.1.03
Vekhoturov	CA	68	IAC-05-B1.5.05
Vekhoturov	CA	20	IAC-05-A5.1.03
Velazco	CA	89	IAC-05-C2.5.03
Veldman	CA	17	IAC-05-A2.2.07
Ventskovsky	A	16	IAC-05-E5.1.04
Ventskovsky	A	22	IAC-05-B2.2.09
Verga	A	133	IAC-05-A2.6.02
Verga	CA	133	IAC-05-A2.6.01
Verheyden	CA	81	IAC-05-A1.1.05
Victor	A	35	IAC-05-A3.3.08
Vieira	A	5	IAC-05-B2.1.02
Vieira	A	22	IAC-05-B2.2.03
Viikari	A	48	IAC-05-E6.2.07
Viikari	CA	64	IAC-05-E6.3.11
Villain	A	47	IAC-05-E4.1.01
Vinterhav	A	23	IAC-05-B5.3./B5.5.01
Vinterhav	A	3	IAC-05-A3.1.03
Viscor	CA	131	IAC-05-E5.P.08
Vitaly	A	73	IAC-05-C3.2.03
Viviani	A	50	IAC-05-A2.4.06
Vizzi	CA	62	IAC-05-E2.3.04
Vladimir	A	114	IAC-05-E4.3.01
Vlasova	CA	112	IAC-05-E1.4.08
Voegt	A	102	IAC-05-B4.5-D2.7.05
Voland	A	93	IAC-05-D2.6.01
Volkov	CA	57	IAC-05-C2.3.08
Von Ballmoos	CA	8	IAC-05-B5.2.06
Von der Dunk	A	48	IAC-05-E6.2.01
von Kampen	A	66	IAC-05-A2.5.08

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Vorontsov	CA	35	IAC-05-A3.3.08
Vorontsov	CA	51	IAC-05-A5.2.05
Vörsmann	CA	70	IAC-05-B6.2.03
Vreeburg	A	24	IAC-05-C1.2.09

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Wada	A	14	IAC-05-E1.1.06
Wagner	CA	40	IAC-05-C2.2.04
Wakamatsu	CA	91	IAC-05-C4.5.03
Wakashima	CA	98	IAC-05-A2.7.04
Wakatsuki	CA	93	IAC-05-D2.6.05
Wakatsuki	A	130	IAC-05-E2.P.07
Walker	A	135	IAC-05-A3.5.B.03
Walker	A	74	IAC-05-C4.4.04
Walloschek	A	42	IAC-05-D1.2.08
Walloschek	CA	102	IAC-05-B4.5-D2.7.05
Walpot	CA	93	IAC-05-D2.6.08
Walther	CA	42	IAC-05-D1.2.08
Walton	A	19	IAC-05-A4.1.09
Wang	CA	65	IAC-05-A1.4.07
Wang	A	115	IAC-05-A1.P.06
Wang	A	71	IAC-05-C1.5.02
Wang	A	36	IAC-05-A4.2.08
Wang	CA	71	IAC-05-C1.5.01
Wang	A	40	IAC-05-C2.2.10
wang	CA	34	IAC-05-A2.3.04
Wang	A	122	IAC-05-C1.P.11
Wanis	A	27	IAC-05-D1.1.02
Ward	A	23	IAC-05-B5.3./B5.5.06
Warell	CA	42	IAC-05-D1.2.07
Wasylewicz	A	2	IAC-05-A2.1.05
Watanabe	CA	25	IAC-05-C2.1.B.07
Watanabe	CA	53	IAC-05-B4.2.01
Watanabe	A	78	IAC-05-E4.4.07
Watanabe	A	25	IAC-05-C2.1.B.07
Watanabe	CA	106	IAC-05-C2.6.04
Watanabe	CA	125	IAC-05-C4.P.21
Watanabe	A	89	IAC-05-C2.5.01
Watanabe	CA	91	IAC-05-C4.5.06
Watanabe	A	130	IAC-05-E2.P.04
Watanabe	A	56	IAC-05-C1.4.04
Watanabe	CA	122	IAC-05-C1.P.24
Watanabe	CA	56	IAC-05-C1.4.03
Watanabe	CA	26	IAC-05-C4.2.07
Wataru	CA	101	IAC-05-B3.5.02
Wegener	CA	70	IAC-05-B6.2.03
Wei	CA	34	IAC-05-A2.3.07
Wei	A	120	IAC-05-B3.P.03
Wei	A	8	IAC-05-B5.2.08
Wei	A	123	IAC-05-C2.P.08
Wei Qing	A	50	IAC-05-A2.4.01
Weigel	CA	60	IAC-05-D3.3.01
Weiland	A	66	IAC-05-A2.5.04
Weiss	CA	1	IAC-05-A1.5.02
Weixing	CA	11	IAC-05-C4.1.07
Welch	A	117	IAC-05-A3.P.18
Welch	CA	43	IAC-05-D2.3.09
Wertz	A	92	IAC-05-D1.3.01
Wettergreen	CA	132	IAC-05-A1.7.09
Whelan	CA	124	IAC-05-C3.P.01
Wiedemann	CA	70	IAC-05-B6.2.03
Wiederecht	CA	81	IAC-05-A1.1.07
Wielders	CA	18	IAC-05-A3.4.05
Wijnands	CA	99	IAC-05-A3.2.B.04
Wilde	CA	60	IAC-05-D3.3.08

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Wilde	CA	42	IAC-05-D1.2.08
Wilhite	CA	43	IAC-05-D2.3.05
Wilkins	CA	12	IAC-05-D2.1.03
Willekens	CA	77	IAC-05-E1.2.04
Willekens	CA	131	IAC-05-E5.P.08
Williams	CA	65	IAC-05-A1.4.02
Williams	CA	115	IAC-05-A1.P.19
Williams	A	64	IAC-05-E6.3.01
Williams	A	9	IAC-05-C1.1.09
Williams	A	72	IAC-05-C2.4.04
Williams	A	122	IAC-05-C1.P.14
Williams	CA	56	IAC-05-C1.4.08
Williamson	CA	22	IAC-05-B2.2.02
Willnecker	A	66	IAC-05-A2.5.03
Willock	A	48	IAC-05-E6.2.08
Wilson	CA	65	IAC-05-A1.4.09
Wilson	A	77	IAC-05-E1.2.01
Wise	CA	65	IAC-05-A1.4.09
Wittig	A	136	IAC-05-B3.6.01
Wittig	A	52	IAC-05-B3.2.01
Wittig	CA	52	IAC-05-B3.2.02
Wokke	A	55	IAC-05-B6.1.08
Wolff	CA	53	IAC-05-B4.2.03
Wong	A	117	IAC-05-A3.P.02
Wood	CA	1	IAC-05-A1.5.07
Wood	A	23	IAC-05-B5.3./B5.5.03
Woodcock	A	29	IAC-05-D3.2.03
Wooster	A	13	IAC-05-D3.1.06
Wooster	CA	117	IAC-05-A3.P.11
Worden	A	22	IAC-05-B2.2.02
Wu	A	67	IAC-05-B1.4.02
Wu	CA	67	IAC-05-B1.4.02
Wu	A	106	IAC-05-C2.6.01
Wu	A	58	IAC-05-C4.3.02
Wu	CA	67	IAC-05-B1.4.02
Wu	CA	73	IAC-05-C3.2.07
Wu	CA	65	IAC-05-A1.4.06

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Xavier	CA	51	IAC-05-A5.2.04
Xavier	CA	35	IAC-05-A3.3.04
Xi-sen	CA	125	IAC-05-C4.P.09
Xiao	CA	65	IAC-05-A1.4.02
Xiao	CA	115	IAC-05-A1.P.19
Xiao	CA	46	IAC-05-E2.2.04
Xiao-qiang	A	91	IAC-05-C4.5.09
Xiaohu	A	123	IAC-05-C2.P.09
Xie	A	122	IAC-05-C1.P.26
Xinghong	A	89	IAC-05-C2.5.09
Xiong	CA	115	IAC-05-A1.P.06
Xu	CA	125	IAC-05-C4.P.18
Xu	A	55	IAC-05-B6.1.02

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yabe	CA	122	IAC-05-C1.P.16
Yairi	CA	45	IAC-05-D5.2.04
Yairi	CA	42	IAC-05-D1.2.04
Yajima	A	49	IAC-05-A1.2.03
Yajima	CA	49	IAC-05-A1.2.06
Yakovenko	CA	22	IAC-05-B2.2.09
Yamada	CA	56	IAC-05-C1.4.06
Yamada	CA	39	IAC-05-C1.3.08

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Yamada	CA	9	IAC-05-C1.1.03
Yamada	A	93	IAC-05-D2.6.05
Yamada	A	106	IAC-05-C2.6.11
Yamagiwa	CA	27	IAC-05-D1.1.03
Yamaguchi	CA	14	IAC-05-E1.1.06
Yamaguchi	A	52	IAC-05-B3.2.06
Yamakawa	A	99	IAC-05-A3.2.B.06
Yamakawa	CA	105	IAC-05-C1.7.03
Yamakawa	CA	25	IAC-05-C2.1.B.07
Yamamoto	CA	99	IAC-05-A3.2.B.03
Yamamoto	CA	42	IAC-05-D1.2.04
Yamamoto	CA	115	IAC-05-A1.P.21
Yamamoto	CA	98	IAC-05-A2.7.04
Yamamoto	CA	98	IAC-05-A2.7.01
Yamamoto	A	137	IAC-05-C1.8.02
Yamamoto	CA	55	IAC-05-B6.1.01
Yamamoto	A	75	IAC-05-D2.5.07
Yamanaka	CA	34	IAC-05-A2.3.01
Yamanaka	CA	43	IAC-05-D2.3.03
Yamanaka	CA	53	IAC-05-B4.2.05
Yamanaka	CA	102	IAC-05-B4.5-D2.7.04
Yamanaka	CA	34	IAC-05-A2.3.01
Yamanaka	A	63	IAC-05-E5.2.09
Yamasaki	A	65	IAC-05-A1.4.01
Yamasaki	CA	115	IAC-05-A1.P.01
Yamauchi	CA	115	IAC-05-A1.P.17
Yamauchi	CA	65	IAC-05-A1.4.09
Yamauchi	CA	115	IAC-05-A1.P.21
Yan	A	66	IAC-05-A2.5.05
Yan	A	133	IAC-05-A2.6.03
Yanagisawa	CA	86	IAC-05-B5.6.A.05
Yanagisawa	CA	55	IAC-05-B6.1.04
Yanagisawa	CA	55	IAC-05-B6.1.09
Yañez Otero	CA	9	IAC-05-C1.1.10
yang	CA	115	IAC-05-A1.P.22
yang	CA	65	IAC-05-A1.4.06
Yang	A	122	IAC-05-C1.P.01
Yang	A	137	IAC-05-C1.8.04
Yang	CA	115	IAC-05-A1.P.06
Yang	CA	65	IAC-05-A1.4.07
Yano	CA	117	IAC-05-A3.P.06
Yarmanova	CA	81	IAC-05-A1.1.02
Yasaka	CA	82	IAC-05-A3.2.A.06
Yasaka	CA	130	IAC-05-E2.P.01
Yasaka	CA	130	IAC-05-E2.P.02
Yasaka	CA	121	IAC-05-B6.P.04
Yasaka	CA	105	IAC-05-C1.7.08
Yasaka	CA	130	IAC-05-E2.P.07
Yasaka	CA	112	IAC-05-E1.4.07
Yasaka	CA	121	IAC-05-B6.P.02
Yasuda	CA	136	IAC-05-B3.6.03
Yasui	CA	11	IAC-05-C4.1.08
Yemets	CA	125	IAC-05-C4.P.20
Yi	A	10	IAC-05-C2.1.A.07
Yi	CA	10	IAC-05-C2.1.A.06
Yi	CA	10	IAC-05-C2.1.A.08
Yi	CA	10	IAC-05-C2.1.A.09
Ymamoto	CA	125	IAC-05-C4.P.03
Ymamoto	CA	74	IAC-05-C4.4.02
Yoda	CA	98	IAC-05-A2.7.04
Yoda	CA	98	IAC-05-A2.7.01
Yoneda	A	6	IAC-05-B3.1.05
Yong	CA	50	IAC-05-A2.4.01
Yoo	A	10	IAC-05-C2.1.A.09
Yoo	CA	10	IAC-05-C2.1.A.06
Yoo	A	10	IAC-05-C2.1.A.08
Yoo	CA	10	IAC-05-C2.1.A.07
Yoshihara	CA	103	IAC-05-B5.6.B.01

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Yoshikawa	CA	65	IAC-05-A1.4.01
Yoshikawa	CA	115	IAC-05-A1.P.01
Yoshikawa	A	105	IAC-05-C1.7.03
Yoshikawa	A	56	IAC-05-C1.4.06
Yoshikawa	CA	9	IAC-05-C1.1.03
Yoshimura	A	56	IAC-05-C1.4.02
Yoshimura	CA	104	IAC-05-B6.3.03
Yoshitomi	CA	34	IAC-05-A2.3.01
Yosuke	A	86	IAC-05-B5.6.A.17
Yotsumoto	CA	105	IAC-05-C1.7.08
Youn	CA	10	IAC-05-C2.1.A.07
Young	A	33	IAC-05-A1.3.08
Young	CA	49	IAC-05-A1.2.08
Yriy	A	70	IAC-05-B6.2.09
Yudina	CA	112	IAC-05-E1.4.08
Yue	A	39	IAC-05-C1.3.03
Yue	A	24	IAC-05-C1.2.02
Yukiomi	CA	63	IAC-05-E5.2.06
Yun Zhao	A	80	IAC-05-E6.4.03
Yusupova	CA	1	IAC-05-A1.5.08

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Zaccariotto	CA	25	IAC-05-C2.1.B.06
Zajoncz	A	129	IAC-05-E1.P.04
Zakharov	CA	108	IAC-05-C3.5-C4.7.07
Zandbergen	CA	140	IAC-05-C4.6.02
Zandbergen	CA	74	IAC-05-C4.4.01
Zandbergen	CA	116	IAC-05-A2.P.02
Zandbergen	CA	111	IAC-05-D4.3.10
Zashchirinsky	CA	42	IAC-05-D1.2.08
Zebib	CA	50	IAC-05-A2.4.07
Zeh	CA	3	IAC-05-A3.1.09
Zelenay	CA	115	IAC-05-A1.P.20
Zemskov	CA	84	IAC-05-B3.4.04
Zernov	CA	11	IAC-05-C4.1.07
Zervos	A	15	IAC-05-E3.1.04
Zervos	A	95	IAC-05-E3.2.05
Zewen	CA	43	IAC-05-D2.3.01
Zexu	A	35	IAC-05-A3.3.09
Zhai	A	126	IAC-05-D1.P.01
Zhang	CA	122	IAC-05-C1.P.25
Zhang	CA	122	IAC-05-C1.P.01
Zhang	CA	137	IAC-05-C1.8.04
Zhang	CA	125	IAC-05-C4.P.04
Zhang	CA	65	IAC-05-A1.4.06
Zhang	A	65	IAC-05-A1.4.07
Zhang	A	87	IAC-05-B6.4.04
Zhang	A	57	IAC-05-C2.3.03
Zhanhua	A	74	IAC-05-C4.4.09
Zhao	A	17	IAC-05-A2.2.08
zhaobi	A	86	IAC-05-B5.6.A.09
Zhdanova	CA	112	IAC-05-E1.4.08
Zheng	CA	103	IAC-05-B5.6.B.02
Zhenhui	A	25	IAC-05-C2.1.B.10
Zhiying	CA	86	IAC-05-B5.6.A.09
Zhong	CA	115	IAC-05-A1.P.06
zhou	CA	66	IAC-05-A2.5.05
Zhukov	A	64	IAC-05-E6.3.10
Ziegler	A	52	IAC-05-B3.2.02
Ziegler	CA	103	IAC-05-B5.6.B.09
Zurawski	CA	66	IAC-05-A2.5.04