

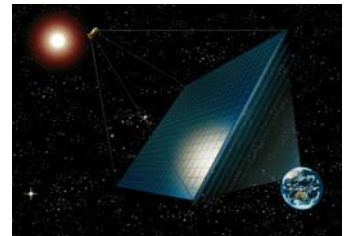
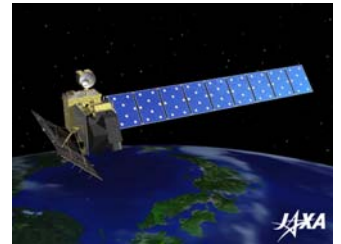
# IAA 50<sup>th</sup> Anniversary Celebration Symposium On Climate Change/Green Systems “What Can We Do for Our Mother Earth?”

30–31 August, 2010

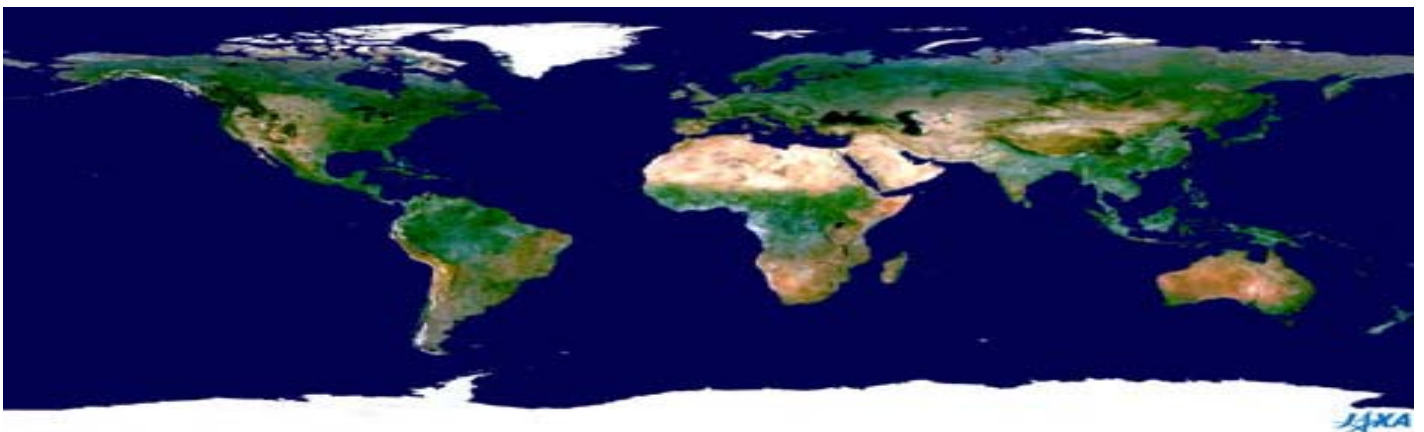
Possible Solutions utilizing Space Technology

## Discussion Topics:

Earth Observation from Space  
Leveraging Space-ground System Integration  
Transfer & Application of Space Technology  
Alternative Energy & Other Resources from Space  
Environment Concious Space Development Activity



Organized by International Academy of Astronautics (IAA)  
Sponsored by Japan Aerospace Exploration Agency (JAXA), Local  
Government of Aichi Prefecture, Japan  
Period: 30–31 August, 2010  
Abstract Submission Deadline: 30 April, 2010  
Registration: Free of Charge (Pre-registration required)  
Venue: “WINC AICHI”, 11<sup>th</sup> Floor, 4-4-38 Meieki, Nakamura-ku,  
Nagoya City, Aichi, Japan



<http://www.iaaweb.org/content/view/401/559/>

The second day is dedicated to a workshop to provide inputs to the report from an IAA study group on climate change/green systems in preparation for a “Heads of Space Agencies Summit” to be held in Washington D. C. 17<sup>th</sup> November, 2010. Nagoya City is located very close to the Kyoto and Osaka area, famous sightseeing spots in Japan.

# IAA 50<sup>th</sup> Anniversary Celebration Symposium on Global Climate Change

## “What Can We Do for Our Mother Earth?”

### First Announcement and Call for Paper

#### Scope

Global Climate Change is recognized as one of the most urgent and crucial issues for humankind's sustainable future. So far, Space Systems have played an important role as a key source of critical data because of its global monitoring capability and space is expected to contribute much more extensively from various view points in the future. On the occasion of its 50<sup>th</sup> anniversary, the International Academy of Astronautics (IAA) is organizing a symposium to discuss possible contributions to this urgent issue from the space sector, with strong support of Japan Aerospace Exploration Agency (JAXA) and Government of Aichi prefecture, Japan. In parallel, a workshop is also planned to provide focused inputs to the IAA climate change/green systems study group report, including high level recommendations on this issue. This event is a key part of the preparation for a planned “ Heads of Space Agencies Summit” in Washington D.C. on 17<sup>th</sup> November 2010, which is also to be organized by IAA as the final event of its 50<sup>th</sup> anniversary celebration (see the IAA homepage <http://iaaweb.org/content/view/401/559/> for additional information). All who are interested in this crucial issue and want to contribute these activities are cordially invited to join the symposium and the workshop.

#### Topics and key words to be discussed

1. Earth Observation from space

Climate Monitoring, Natural Resources Monitoring, Extreme Weather Observation and forecasting, Atmospheric Domain Monitoring, Atmospheric Composition, Ocean Domain Monitoring, Land Domain Monitoring, Climate Change Mechanism, Monitoring Sensors and Systems, GHG emission, International Cooperation, CEOS, GEOSS.

2. Leveraging Space-Ground Systems Integration

Satellite-based Management of Terrestrial Transportation, Space-based Management of Terrestrial Renewable Resources, Space-based Management of GHG Emission, Carbon Trade Market Support System,

3. Transfer & Application of Space Technology

Highly Efficient Energy Conversion, Energy Storage, Advanced Materials, PV Cell, Fuel Cell,

4. Alternative Energy and Other Resources from space

Space Solar Power Satellite, Climate Change Mitigation, Cost estimation, Safety assessment, Environmental Consideration, Depletion of fossil fuels, Active development plan of SSPS, Key technologies for realization of SSPS, International Cooperation, Ground evaluation experiment Microwave Energy transmission, Space experiment, Utilization of the Moon and Asteroids Resources,

5. Environment conscious space development activity

Green Propulsion, Green Propellant (GP), Non-Toxic Propellant, Advanced Propellant, Alternate Propellant, Reduced Hazard Propellant, Development of GP, Applicability of GP, Producibility of GP, Evaluation of GP, Performance vs. Cost of GP

6. Culture, Society and Education.

Culture considerations, inspiration of young people, education of future engineers and scientists, role of global climate change and green systems in society, etc.

**Organized by:** International Academy of Astronautics (IAA)

**Sponsored by:** Japan Aerospace Exploration Agency (JAXA )  
Government of Aichi Prefecture, Japan  
Institute for Unmanned Space Experiment Free Flyer(USEF)

**Period** 30, 31 August, 2010

**Venue** "WINC AICHI", 11<sup>th</sup> Floor  
〒450-0002  
4-4-38 Meieki, Nakamura-ku, Nagoya city,  
Aichi prefecture, Japan

**Registration**

Free of charge (First come, first served basis up to 200 participants)

Pre-registration is required following the instruction below,

1. Download the registration form from this IAA home page <http://iaaweb.org/content/view/401/559/>
2. Fill out the form and send it by email or facsimile to the secretariat,  
(If you intend to contribute to the discussion by making a presentation, please fill out the 20th item of your registration form.)  
[email; iaa50-gbm@or.knt.co.jp](mailto:iaa50-gbm@or.knt.co.jp)  
Fax ; +81-3-5256-1588
3. We will send back by email a registration confirmation and acceptance letter if your paper is accepted by the program committee,

## Tentative Program

	AM		PM			Evening
8/30/10	Opening Ceremony + Plenary	Technical Session (1)	Technical Session (2)	Technical Session (3)	Technical Session (4)	Reception hosted by Aichi Prefecture
		Technical Session (5)	Technical Session (6)	Technical Session (7)	Technical Session (8)	
8/31/10	Technical Tour to Aerospace and Environment Related Facilities				Discussion of Report	Gala Dinner Japanese style
	Report Drafting Workshop					

## Important Schedule

Start of pre-registration	1 April, 2010
(Confirmation letter will be sent within 2 weeks after receiving your pre-registration form)	
Deadline of abstract submission	30 April, 2010
Acceptance letter	31 May, 2010
Deadline of draft paper submission	19 July, 2010
Second announcement and final program	July, 2010
Deadline of accommodation reservation	30 July, 2010
Deadline of pre-registration	15 August, 2010
Celebration Symposium in Nagoya	30,31 Aug.ust, 2010
Deadline of final paper submission	30 October, 2010

## International Program Committee

John Mankins, Artemis Innovation Management Solutions, USA,  
Max Grimard, Strategy & Business Development, Astrium, France,  
Yasushi Horikawa, Japan Aerospace Exploration Agency, Japan,  
Gen Inoue, Research Institute of Humanity and Nature, Japan,  
Stephen Briggs, ESA-ESRIN/European Space Agency  
Asylbek Aidaraliev, Plenipotentiary Ambassador, Kyrgyz Republic,  
Sergio Camacho, Regional Centre for Space Science & Technology Education, Tonantzintla, Mexico,  
Darasri Dowreang, GIS Technology Development Agency, Thailand  
C.B.S. Dutt, ISRO, India  
Gu Xinfa, Demonstration Center for Spaceborne Remote Sensing, China National Space, China,  
Roger Malina, Laboratoire d'Astronomie Spatiale, CNRS, France,  
Takashi Moriyama, Japan Aerospace Exploration Agency, Japan,

John Petheram, Lockheed Martin Corporation, USA,  
Brent Smith, NOAA, USA,  
Susumu Sasaki, Japan Aerospace Exploration Agency, Japan,  
Nobuyuki Kaya, Kobe University, Japan,  
Kuninori Uesugi, Japan Aerospace Exploration Agency, Japan,  
Shoichiro Mihara, Institute for Unmanned Space Experiment Free Flyer, Japan,  
Achuthan Jayaraman, National Atmospheric Research Laboratory (NARL), India,  
Tsuneo Matsunaga, National Institute for Environmental Studies, Japan.

### Local Organizing Committee

General Chairperson: Prof. Hiroki MATSUO; Vice President of IAA,  
Former Commissioner,  
Space Activity Commission, Japan  
Executive Secretary: Dr. Seishiro KIBE; ARD/JAXA  
Member: Prof. Keiken NINOMIYA ISAS/JAXA  
Prof. Kuninori UESUGI ISAS/JAXA  
Mr. Hiroshi KANAI USEF  
Dr. Koichi IJICHI USEF  
Mr. Shoichiro MIHARA USEF

### Contact

Dr. Seishiro KIBE  
Director  
Innovative Technology Research Center  
Aerospace Research and Development Directorate  
Japan Aerospace Exploration Agency  
Tel; +81-422-40-3026  
Fax; +81-422-40-3263  
email; [kibe.seishiro@jaxa.jp](mailto:kibe.seishiro@jaxa.jp)

## Accommodation and Travel Information

Accommodation and Travel are managed and operated by Kinki Nippon Tourist Co., Ltd (KNT), the official travel agent of this Symposium.

IAA 50th Anniversary Celebration Symposium Desk

c/o Global Business Management Branch, kinki Nippon Tourist Co., Ltd.

Tokyo Kintetsu Bldg. 6F, 19-2, Kanda-Matsunagacho, Chiyoda-ku, Tokyo

101-8641 JAPAN

Tel: +81-3-5256-1581 Fax: +81-3-5256-1588

email: [iaa50-gbm@or.knt.co.jp](mailto:iaa50-gbm@or.knt.co.jp)

### Hotel Accommodation

Rooms have been reserved at hotel around the Symposium venue by KNT.

Please note that the hotel reservations will be made on first-come-first-served basis with complete payment. Please fill out the Hotel Accommodation Request Form and send it back to our desk.

Name of Hotel	Room Type	m <sup>2</sup>	Room Rate (JPY)	Access to Conference Venue	Access to Nagoya station
CASTLE PLAZA	Single	17.0-18.0	10,000	1min.walk	5min.walk
	Twin/Double Single use	21.0-22.5	12,500		
	Twin/Twin use	18.4	17,000		

### Travel Information

The center city of the Chubu Region Nagoya is located at the center of Honshu (the main island of Japan)

The JR Tokaido Shinkansen (bullet train) is the most popular way to Nagoya from the East or West of Japan. All Nozomi, Hikari and Kodama Shinkansen trains stop at Naogoya

It takes about 1hour 40 minutes to Tokyo and 40 minutes to Kyoto.