



International Academy of Astronautics (IAA)

&

*National Space Research & Development Agency
(NASRDA)*



IAA/NASRDA International Symposium

Theme:

Equatorial Plane: Attributes and Characteristics

PROGRAMME

Nov. 30th - Dec. 2nd, 2010

***IAA/NASRDA International Symposium on the Attributes
and Characteristics of the Equatorial Plane***

November 30th - December 2nd, 2010

The Sheraton Hotel and Towers

Abuja, Nigeria

INTERNATIONAL COMMITTEE

Conference Co-Chairmen

Dr. Adigun Ade Abiodun, Nigeria

Dr. Jean Michel Contant, IAA

Co-Vice chairmen

Dr J. O Akinyede, NASRDA Nigeria

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Mr. Jide Ajayi, Nigeria

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Chris Cooker, **(ESA)**

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Dr Ahmad Sabirin ARSHAD, **Malaysia**

Dr Femi Agboola, **Nigeria**

Dr Babatunde Rabi, **Nigeria**

Dr. Joseph M. Davila, **USA**

PROGRAMME DETAILS

Welcome and Opening

Tuesday November 30 2010, 8:00 – 10:35

SESSION 01:

Venue: Ladi Kwali Hall

Session Type: PLENARY

Chairperson: Hon. Minister of Science & Technology

Rapporteur: Dr. Babatunde Rabi (Nigeria)

08:00

Arrival and Registration of Delegates

08:45

Delegates take up Their Seats

09:00

National Anthem

09:05

Welcome Address – **S. O. Mohammed, Ph.D (Director General, NASRDA)**

09:20

Welcome Address – **J. M. Contant, Secretary General IAA**

09:35

Welcome Address – **ESA**

09:50

Keynote Address 1:

E. E. Balogun (Nigeria)

IAA-A10-0101

10:20

Ministerial Address and Official Opening – Hon. Minister, Fed. Min. of Science and Technology

10:35

COFFEE BREAK

DAY 1

Tuesday November 30, 2010, 11:00 - 13:00

SESSION 02:

Session Type: PLENARY

Focus: Learning from the experience of other countries and space-related entities

Venue: Ladi Kwali Hall

Chairperson: Rainer Sandau (Germany)

Rapporteur: Dr M. O. Adepoju (Nigeria)

11:00

“Razaksat: Malaysia’s Journey to the Near Equatorial Orbit and Beyond”

Ahmed Sabirin Arshad (Malaysia)

IAA-A10-0201

11:25

“Low Earth Equatorial Orbits as an Emerging low Attitude Earth Observation Solution”

Stephen Wokes and Simon Crouch (SSTL, UK)

IAA-A10-0202

11:50
“Comparison of Ground Station Networks from an Equatorial View Angle”
Martin Krynitz (Sweden) IAA-A10-0203

12:15
“Space Weather Effects on Satellite Missions in the Equatorial Plane”
Ovie E., Akom Henry E. C. A., Ogundele D. A., Nongo S. and Ibibami. (Nigeria) IAA-A10-0204

12:40
DISCUSSION

13:00
LUNCH BREAK

DAY 1

Tuesday November 30, 2010, 14:00-16:30

SESSION 03:

Session Type: PLENARY

Focus: Learning from the experience of other countries and space-related entities

Venue: Ladi Kwali Hall

Chairperson: Prof. Oliver K. Obrou (Cote Divoire)

Rapporteur: Abdulrahim R. Bola (Nigeria)

14:00
“Architecture and Development Process of Malaysia’s Near Equatorial Earth Observation Satellite, Razaksat”
Aziz Yusoff (Malaysia) IAA-A10-0301

14:25
“Capability Building, Partnership and Development: Analysis of the Space Activities of Equatorial Countries”
Danielle Wood and Annalisa Weigel (USA) IAA-A10-0302

14:50
“Systematic Approach to Design Small Satellites for Specific Earth Observation Tasks”
Rainer Sandau (Germany) IAA-A10-0303

15:15
“Analysis of Common Causes of Satellite Failure in Orbits”
Odimayomi P. K., Inumoh A. L., Salu B. O. and Ilonah L. (Nigeria) IAA-A10-0304

15:40
“Validating the Auroral Zone Lower Ionosphere Model”
Michael Andoh Afful and Lee Anne Mckinnell (South Africa) IAA-A10-0305

16:05
Comparative Design of Attitude Stabilization and Control Schemes for Three Axes Space Vehicle
Adetoro M. A. Lanre, Agboola Olufemi and Sesugh Nongo (Nigeria) IAA-A10-0306

16:30
DISCUSSION

DAY 2

Wednesday December 01, 2010, 09:00 – 10:50

SESSION 04:

Session Type: PLENARY

Focus: Space exploration and utilization - *Overcoming the challenges within the equatorial plane and along each of its orbits*

Venue: Ladi Kwali Hall

Chairperson: Ahmed Sabirin Arshad (Malaysia)

Rapporteur: M. L. Akiyemi (Nigeria)

9:00

“The Ionospheric Scintillation in the Equatorial Region”

IAA-A10-0401

O. K. Obrou (Ivory Coast)

9:25

“Comparative Study of the Responses of Equatorial and Auroral Ionospheres to the Geomagnetic Storm of April 5-7, 2010 Using GPS Measurements”

IAA-A10-0402

Rabiu, Babatunde and Fasunwon, Olusola (Nigeria)

9:50

“Equatorial Lunch Sites Untapped Resources in Africa”

IAA-A10-0403

Odimayomi P. K, Aiyeola S. Y. and Ogundele D. A. (Nigeria)

10:15

“The 2006 Eclipse in West Africa: An Opportunity for Outreach Programmes in Ghana”

IAA-A10-0404

Nana A. K. Browne (South Africa)

10:40

DISCUSSION

10:50

COFFEE BREAK

DAY 2

Wednesday December 01, 2010 11:10 - 13:10

SESSION 05:

Session Type: PLENARY

Focus: Space exploration and utilization - *Overcoming the challenges within the equatorial plane and along each of its orbits*

Venue: Ladi Kwali Hall

Chairperson: Martin Krynitz (Sweden)

Rapporteur: Olu Bolade C. (Nigeria)

11:10

“Effects of Ionospheric Scintillation on GPS Signals”

IAA-A10-0501

F. M. D’ujanga and B. F. Twinamasiko (Uganda)

11:35

“Impact of Space Weather and Solar Forcing on Climate Change in Low Latitude”

IAA-A10-0502

C. F. Talabi and A. B. Rabiu (Nigeria)

12:00

“Natural Equatorial Ventilation and Sustainability of Clean Air over African Continent”

IAA-A10-0503

M. L. Akinyemi (Nigeria)

12:25

“Analytical Computation and Simulation of Perturbed Geostationary Orbits Initially Located at the Equatorial Plane of the Earth”

IAA-A10-0504

Ogundele D. A., Odimayomi P.K., Akoma Henry E. C. A. and Ovie EseOghene

12:50

DISCUSSION

13:10

LUNCH BREAK

DAY 2

Wednesday December 01, 2010, 14:00 - 16:30

SESSION 06:

Session Type: PLENARY

Focus: Space exploration and utilization- *Overcoming the challenges within the equatorial plane and along each of its orbits*

Venue: Ladi Kwali Hall

Chairperson: Dr J. O. Akinyede (Nigeria)

Rapporteur: Adia S. O. (Nigeria)

14:00

“Experimental Equatorial Ionospheric Storm Time Profiles and IRI-07 Storm Model Profiles”

IAA-A10-0601

Olawepo .A. O. and Adeniyi J. O (Nigeria)

14:25

“Longitudinal Structure in the Characteristics of Equatorial Electrojet along African Sector”

IAA-A10-0602

Rabiu, A. B. and Yumoto K.

14:50

“Estimating Geomagnetically Induced Currents at Subauroral and Equatorial Regions to Assess their Effects on Power Systems”

IAA-A10-0603

Falayi Elijah Olukayode (UK)

15:15

“Estimation of Tropospheric Delay from GPS Observables in the Equatorial Region”

IAA-A10-0604

Adia S. O., Rabiu A. B. and Adeyewa Z. D. (Nigeria)

15:40

“Study on How Human Race Co-Utilize Geo Resource”

IAA-A10-0605

Che Zhuming, Li Ligang, Liu Tao, Chen Chunyang and Xie Li (China)

16:05

“Studies involving Attributes and Characteristics of the Equatorial Plane over Nigeria: The way forward”

IAA-A10-0606

Okeke, F. N. and Kolawole, L. B.

16:30

DISCUSSION

DAY 3

Presentation, Communiqué and Closing

Thursday December 02, 2010, 09:00 - 11:00

SESSION 07:

Session Type: PLENARY

Venue: Ladi Kwali Hall

Chairperson: Dr. Adigun Ade Abiodun Abiodun (Nigeria)

Rapporteur: Dr. Rabiu Babatunde (Nigeria)

09:00		
“Presentation of Symposium Report”		IAA-A10-0701
09:30		
“Presentation of Communiqué”		IAA-A10-0702
09: 50		
“Discussion of Presentation/Communiqué & Adoption”		IAA-A10-0703
10:10		
“Closing”		IAA-A10-0704
10:30		
COFFEE BREAK		
11:00		
DISCUSSION		

SESSION 08:

Session Type: POSTERS

Venue: Ladi Kwali Hall

“Isoun Sat-1: Nigeria’s First Near Earth Observation Satellite”		IAA-A10-0801
Abdul Lawal, Inumoh, Reuben J. Umaunna, Nonso Ezeoke, Obinna Ayebo, Ovie Ese, Mustapha Umar, Abdul Ogohi, Ini-Abasi Ituen, Tanko Y Sule, Halidu Ibrahim (Nigeria)		
“Space Launch Site in Hainan”		IAA-A10-0802
Li Shanbao (China)		
“Measurement of Basic Meteorological Parameters for Studying Weather, Climate and Positioning Phenomenon”		IAA-A10-0803
Kunle Oladosu (Nigeria)		
“Toward an Operational Near Real Time Meteorology on the African GNSS Network; Requirement and Benefit”		IAA-A10-0804
Isioye O. A. (Nigeria)		