

1st IAA Symposium on  
**Small Satellites Programs**  
for Socio-Economic Benefits and the Role of IGMASS  
Buea, Cameroon Dec 6-8, 2010



## **IAA in Africa**

**International Academy of Astronautics**

**Regional Node, Buea, Cameroon**

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*Celebrating 50 Years of Excellence in conjunction with the Celebration of  
50 Years of Independence of Cameroon*

# Programme

**Monday 6 December 2010**

09:30 *National anthem*

## **Opening Session 1 Welcome/Opening remarks**

09:35 Director General, Pan African Institute for Development West Africa, PAID-WA, Buea, Cameroon

09:40 Regional Secretary, International Academy of Astronautics IAA, Cameroon

09:45 Secretary General IAA, France

09:50 Executive Secretary, IGMASS, Maksimov Space Systems Research Institute, Khrunichev State Res. & Production Space Center, Jubileiny, Moscow Region Russia

09:55 Technical Director, Satellite and Space Applications, IAA, Former Director German Space Centre

10:00 Chairman South African Space Council

10:05 Operation Manager, SSTL, UK

10:10 Mayor of Buea, Cameroon

10:15 Divisional Officer, Buea, Cameroon

10:20 Goodwill Messages

IAA-A10-0101

10:25 50th Years of Space Activity and Africa, Dr. Jean-Michel Contant, Secretary General IAA

10:45 - 11:15 *Participants are invited to a Group Picture*

*Inauguration of the First IAA Cameroon Space Exhibit and Coffee Break*

## **Keynote addresses**

Chairpersons Jean Michel Contant, France

Rosetta B. Thompson, Nigeria

IAA-A10-0102

11:45 Overview of Space Activities in Space Africa, Dr. Peter Martinez, South Africa

IAA-A10-0103

12:00 IGMASS Project concept implementation, Dr. Sergey Cherkas, Russia

IAA-A10-0104

12:20 SSTL Small Satellites: Continued Increase in System Capability and System Exploitation, Owen Hawkins, SSTL, UK

IAA-A10-0105

12:40 Russian Experience and Intl Cooperation in the creation and Deployment of Small satellites in the IGMASS Project, Dr Sergey Cherkas, Russia

13:00 *Lunch*

## **Session 2 Utility of Small Satellites for Capacity Building**

Chairpersons Dr. Kinni Fongot, Cameroon

Dr. Peter Martinez, South Africa

IAA-A10-0201

14:00 Small satellites - A driver for capacity building, Dr. Rainer Sandau, Germany

IAA-A10-0202

14:20 Establishing sustainable nano-satellite programmes in Africa, for Africa, with CubeSats, Dr. Robert Van Zyl, South Africa

IAA-A10-0203

- 14:40 The Use of Satellite Data in Detecting and Predicting Climate Change and Desertification in Africa: Case study of the Sahel Region, Babagana Abubakar, Nigeria  
IAA-A10-0204
- 14:55 Small Satellite Project in Africa: Partnership Models and Benefits, Foy Hubert, USA  
IAA-A10-0205
- 15:15 Developing Indigenous Capacity in Small Satellite Technology, Etim Offiong, Nigeria  
IAA-A10-0205
- 15:15 Sunbandila: A Small Satellite for Building Capacity in All Aspects of a Space Mission, Peter Martinez, South Africa
- 15:30 *coffee break*

**Session 3 Utility of Small Satellites for Sustainable Development and Disaster Management**  
**Chairpersons Dr. Kinni Fongot, Cameroon**  
**Ms. N. Majaja, South Africa**

- IAA-A10-0301
- 16:00 Indigenizing Space Technology for Sustainable Development in Africa, Blasius Agha-ah Chiatoh, Cameroon  
IAA-A10-0302
- 16:15 Opportunities and Challenges on the Creation of a Remote Sensing Center for Sustainable Development and Disaster Management in Cameroon, Yuri Razoumny, Russia  
IAA-A10-0303
- 16:30 Humanitarian Aspects of IGMASS for Social-Cultural Development: Telemedicine and Emergency Medicine, Valery Menshikov, Russia  
IAA-A10-0304
- 16:45 Realization of Algorithm of Authentication at Message Transfer, O. Zhdanov, Russia  
IAA-A10-0305
- 17:00 Managing Cameroon-Nigeria Trans-one link Disaster: The Case of Lake Nyos Threat in West Africa, Tomukum Chia, Cameroon
- 17:30 *Transfer to Hotels*
- 18:45 *Transfer from hotels to Chariot Hotel, Buea*
- 19:00 Opening of the IAA Node in Cameroon Ceremony and Reception  
*BY INVITATION ONLY*

**Tuesday 7 December 2010**

**Session 4 Disaster management and sustainable development: opportunities and challenges**  
**Chairpersons Dr. Rainer Sandau, Germany**  
**Dr. Blasius Agha-ah Chiatoh, Cameroon**

- IAA-A10-0401
- 09:30 IGMASS Technologies and Geo-informational Systems Development for Early Warning about Global and Regional Natural Disasters's Threat, S. Pushkarskiy, Russia  
IAA-A10-0401
- 09:45 Application of Remote Sensing in Disaster Management and Security Along the Coastline of Nigeria, O. Ediang, Nigeria  
IAA-A10-0401
- 10:00 IGMASS as Tool for Information Area of the Global and Regional Disaster Security Generation, Dr. Sergey Cherkas, Russia  
IAA-A10-0401

10:15 Results of the application of night time satellite images for a timely assessment of damaged areas after disasters, G. Laneve, Italy

10:30 *Coffee break*

**Session 5 Disaster management and Space Policy**

**Chairpersons Mr. Owen Hawkins, UK**

**Dr. Voma, Cameroon**

IAA-A10-0501

11:00 South African National Space Policy, Ms. N. Majaja, South Africa

IAA-A10-0502

11:15 Working out the Principles of the IGMASS Creation on the Basis of Scientific-technical and Institutional of the African Countries, Valery Menshikov, Russia

IAA-A10-0503

11:35 International Law on "RES COMMUNIS OMNIUM" in the Light of African Laws of Collective Ownership in Relation to Natural Laws. Fongot Kinni, Cameroon

IAA-A10-0504

11:55 Political and International Law Aspects of the IGMASS Project Implementation, Dr. Sergey Cherkas, Russia

IAA-A10-0505

12:20 Moving from Space Technology to Applications; Disaster Risk Reduction in Cameroon, Buh Wung Gaston, Cameroon

12:45 *Lunch Break*

**Session 6 Socio-Cultural Aspects**

**Chairpersons Dr. Jean-Michel Contant, France**

**Dr. Tomukum Chia, Cameroon**

IAA-A10-0601

14:00 Small Satellites and Remote Sensing with Prospective Benefits for Cameroon: an Anthropological Perspective, Sakah Bernard Nsaidzedze, Cameroon

IAA-A10-0602

14:20 Prospects for the IGMASS utilization for Socio-Cultural Development African Countries: Humanitarian Aspects of the Project, Sergey Cherkas, Russia

14:40 *Video Presentations*

15:30 *Break*

**Concluding Session**

**Chairpersons Dr. Jean-Michel Contant, France**

**Dr. Tomukum Chia, Cameroon**

16:00 Round Table

17:00 Wrap-up Session and Conclusions prepared by the Symposium Rapporteur Mr. Jessy, Cameroon

**Wednesday 8 December 2010**

*Visit -pre-booked*