

Conference Report

25th AIAA International Communications Satellite Systems Conference

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25th AIAA International Communications Conference (ICSSC 2007) was held at the Convention and Exhibition Center (COEX) in Seoul, Korea, from April 10th to April 13th in 2007.

The main Themes of the conference was “Evolution Toward A Ubiquitous Network Society”. The number of the participants was about 350 and total number of the papers accepted to the proceedings was 164. As for the breakdown by each country, 54 are from Japan, 36 from Korea, 16 from England, 15 from French, 7 from Italy, 7 from Spain, 7 from USA and 2 from Canada. ICSSC 2007 was the third conference in Asia following 1999 and 2003 ICSSC held in Japan and was the first held in Korea.

The conference’s organizers were AIAA, APSCC and AIAA-JFSC. Management and operation especially at the conference venue was mainly done by APSCC, and JFSC made full cooperation in organizing technical program and finding sponsors in Japan.

As usual, the colloquium was held on the first day (April 10th) under the main theme of “Satellite Broadcasting Services for Mobile Users”.

The program was as follows

1. Satellite DMB Status in Korea, Heetae Shin, TU Media Corp., Korea
2. SDARS Performance in North America, Robert Briskman, Sirius Satellite Radio, Inc., USA
3. JCSAT New Service & New Satellites, Speaker from JSAT Corp., Japan
4. European S-DMB System, Cedric Balty, Alcatel Alenia Space, France
5. Satellite Mobile Market Trends, Cedric Balty, Alcatel Alenia Space, France
6. DVB Standards and Mobile System by Satellite, Alban Duverdier, CNES, France

Plenary session was held on April 11th. The program was as follows.

- Plenary Session A: View from Space Agencies of Asia

1. Dr. Yasushi Horikawa, Executive Director, Japan Aerospace Exploration Agency, Japan
 2. Dr. Seong-Bong Choi, Director, COMS Office, Korea Aerospace Research Institute, Korea
 3. Dr. Manfred Wittig, Head of Multimedia Systems Section, European Space Agency, The Netherlands
- Plenary Session B: View from Satellite Industry Leaders
 1. Dr. Nongluck Phinainitisart, President, Shin Satellite Public Company Ltd., Thailand
 2. Richard Bowles, Director, ASEAN Office, Arianespace, Singapore
 3. Yutaka Nagai, Director & Managing Executive Officer, Engineering Group, JSAT Corp., Japan
 4. Dr. Ali Atia, President, Orbital Communications International, USA
 5. Robert Briskman, Technical Executive, Engineering, Sirius Satellite Radio, Inc., USA



Plenary Session B

- Plenary Session C: Satellite Systems and Reliability
 1. Dr. Ali Atia, President, Orbital Communications International, USA
 2. Chris Hoeber, Senior Vice President, Systems, Space Systems/Loral, USA
 3. Dr. Ali R. Ebadi, Vice President, Space Systems, MEASAT Satellite Systems, Malaysia
 4. Dr. Ya-hui Chiu, General Manager, Operations, Asia Satellite Telecommunications Co., Ltd., Hong Kong China
 5. Dr. David Whalen, Vice President, Satellite Systems Consulting, IOT Systems, LLC, USA
 6. Eddie Kato, Vice President & General Manager, Asia Pacific Region, Alcatel Alenia Space, China
 7. Dr. Ali Shoamanesh, Senior Systems Specialist, Telesat Canada

Technical sessions were held April 12th and 13th. The composition of the Technical program was as follows. Total of 8 sessions were held parallel and there were many brisk exchange of Q&A and opinions at each session room.

1. Antenna technology
2. Payload RF technology
3. Modulation and coding
4. Advanced communication techniques
5. Digital signal processing Communication protocols
6. Network and resource management
7. Broadcasting systems
8. Mobile broadcasting systems Payload systems
9. Military satellite communications Traffic and QoS management Communication protocols
10. Inter-satellite links
11. Data relay
12. Navigation and positioning systems
13. Propagation and rain fade mitigation
14. Broadband mobile systems
15. Mobile System]
16. Broadband systems
17. Ground systems
18. Satellite and terrestrial integration
19. New systems and services
20. Disaster relief systems
21. Satellite bus
22. High altitude communications platforms
23. LEO communications satellite networks
24. GEO clusters and small satellite
Regulations and spectrum sharing Satellite
economics and market issues

On April 12th, the Aerospace Communications Award was given to Dr. Robert Briskman.



Robert Briskman 氏への
Aerospace Communications Award の授与

The conference was closed successfully with more participants than anticipated and with smooth operation of the conference by APSSC.