

2012 Joint Conference

Satellites in the Service of Humanity

September 24-27, 2012 - The Westin Ottawa - Ottawa, Canada

30th ICSSC - Announcement and Call for Papers

The 30th AIAA International Communications Satellite Systems Conference (ICSSC) and the 18th Ka and Broadband Communications, Navigation and Earth Observation Conference, the two most influential technical conferences on satellite systems, will be held jointly in Ottawa, Canada, from 24 to 27 September 2012.

The 2012 *Joint Conference* theme is "*Satellites in the Service of Humanity*".

Objective of the 18th Ka Conference

Satellites play a vital role in everyone's life, every day. For some, it represents their main access to internet either directly or indirectly via backhaul services. For others, it is a source of entertainment and leisure from broadcast satellites or help them find their way using navigation satellites. In addition to individual reach, satellites provide key functions for governments' civil and military needs and for commercial enterprises. Security and public safety organizations rely on satellites for critical telecommunications, search and rescue operations, tracking of ships at sea, environmental sensing and daily monitoring, more so during disaster events such as floods, earthquakes, forest fires or tsunami to name a few. Our search for a better understanding of the universe and in particular of our galaxy calls for unprecedented communication capacity to be relayed to Earth from various sensors. Ka-band satellites offer broadband connectivity to meet these requirements, and, as the demand increases, new frequency bands (Q/V) will be explored to deliver ever-increasing capacity. Improving on the above capabilities and providing new ways to serve mankind are some of the challenges the satellite community must face. The conference will explore these challenges, and propose and discuss solutions. Its objective is to provide an in depth exploration of the economic, marketing, technical and regulatory issues affecting these new and planned services.

Therefore papers are solicited for the Conference in the following areas:

- New mobile services
- New broadband services
- Integration and interoperability of systems
- Communications protocols and networks
- Advances in satellite architecture
- Advances in satellite components
- Advances in Earth terminals
- Propagation and mitigation techniques
- New broadcast services
- New fixed-satellite services
- New data relay services
- Integrated services for disaster relief
- Interactivity via satellite
- Domestic security applications and architectures
- Military applications and architectures
- Advances in payload subsystems
- User applications
- Navigation satellite systems and applications
- Search and rescue satellite systems and applications
- Low/Medium/High Earth orbit systems
- Automatic identification systems

Organization

The Joint Conference, organized by FGM Events, LLC, will have a single registration fee that will provide access to both Conferences and all joint Plenary and Social events. The technical programs of the ICSSC and the Ka and Broadband Conference will however be separately organized. All papers will be published on the Joint Conference web site accessible to registrants, and on a CD-ROM that will be provided to all registrants. Papers submitted to the Ka and Broadband Conference will, in addition, be published in the form of hard-copy Proceedings that will be distributed to all registrants.

The working language of the Joint Conference will be English.