

Conference Report

19th AIAA International Communications Satellite Systems Conference (AIAA-ICSSC-19)

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The AIAA-ICSSC-19 was held at the Centre de Congres Pierre Baudis (Pierre-Baudis Convention Center) in Toulouse, France from April 17 to 20, 2001. Toulouse is the central city in the Midi-Pyrenees region of France with beautiful buildings and streets, which date for the most part from the Gallo-Roman and medieval periods. Toulouse is also well known as a high-tech city for aeronautics and space industries as well as a higher education center with four universities, 14 grandes ecoles and about 70,000 students.

The 19th ICSSC focused on the theme: “Satellite Communications for the New Millennium”, which gives special emphasis to new services and applications such as internet and broadband communications, digital broadcasting, personal communications, navigation and positioning services as well as covering the conventional satellite systems topics. Professor Michel Bousquet, SUPAERO, is the Conference General Chair, and the conference was organized by AIAA, CNES (Centre National d’Etudes Spatiales), ESA (European Space Agency), and SUPAERO (Ecole Nationale Supérieure de l’Aeronautique et de L’Espace) in cooperation with the major European industrialists.



Photo1 Pierre-Baudis Convention Center, where the AIAA-ICSSC-19 was held.

The number of 632 registered participants in the conference and the number of 771 visitors in the exhibition indicate that the AIAA-ICSSC-19 was very successful. 65 oral presenters came from the U.S., 65 from France, 32 from Japan, 30 from Canada, 20 from other countries, and 63 posters were presented in the poster sessions. In the Exhibit, new products and services were presented by 17 exhibitors



Photo2 Prof. M. Bousquet opening with a welcome speech and panelist of the Opening Session.

such as ESA, Satellite Tool Kit (STK), Snecma Moteurs, Space News, Spectrum Signal Processing, Swedish Space Corporation, Thales Electron Devices, Alcatel Space, Astrium, Bosch SATCOM GMBH, CNES, Del Mar Avionics, EADS Matra Systems & Information, EMS Technologies, Euroconsult.

On April 17, Prof. M. Bousquet opened with a welcome speech, and the opening session on new space developments and challenges was presented by six panelists from French Ministry, ESA, AIAA, Regional Council Midi-Pyrenees, SUPAERO, and the City Hall of Toulouse, chaired by Alain Bensoussan, President of CNES.

In Plenary Session A entitled “Advanced Communication Satellites: Technological Challenges”, seven panelists from Astrium, Alcatel, Mitsubishi, Boeing, Saab Ericsson, Space Systems Loral, and Alenia Aerospazio discussed how the technology push and the market pull will shape the new generations of satellite systems, the candidate technical solutions to provide satellite broadband services, and what are the main technological challenges that the industry has to

face in the near future. In Plenary Session B, which was held on April 19 as the title of Satellite Navigation: Developments and Perspectives, the planned developments and upgrades of the satellite navigation systems Navstar GPS, Glonass and Galileo were discussed. In Plenary Session C, which was held on April 20 as the title of Emerging Applications and Services, panelists from SES Astra, Eutelsat, G.E. American, Intelsat, Worldspace, INMARSAT discussed new satellite communications applications. We will report interesting articles from the technical sessions on the following Space Japan Review. Technical visits to Alcatel Space Industries and CNES-Interspace were planned on afternoon of April 20.

It was announced that the next 20th AIAA-ICSSC will be held in Montreal, Quebec, Canada, from May 12 to 15, 2002. The General Chair is Mr. Jack Rigley, CRC. The abstract deadline will be soon: September 17, 2001. For further information, please access URL: <http://www.icssc2002.com/>. The next 21st AIAA-ICCSC will be held in Yokohama, Japan from April 14 to 18, 2003.



Photo3 Visitors and Exhibits in the large exhibition hall located in the conference venue