

**American Institute of Aeronautics and Astronautics
Space Architecture Technical Committee
Meeting Minutes
2013/09/23-27
64th International Astronautical Congress (IAC)
Beijing, China**

1. Roll Call

Total members: 37
Participating members: 4

The SATC roster appears below. Membership categories are: Associate (A), Regular (R), International (I). Members participating in this conference are indicated by ✓.

Anton Andonov (I)	Ogbonnaya Iheukwumere (I)
Payam Bahrami (I)	Barbara Imhof (I)
✓ Olga Bannova (R)	Rohan Jaguste (I)
Donald Barker (R)	Päivi Jukola (I)
Annette Barnes (R)	Mark Kerr (R)
Lynn Baroff (R)	Shahzad Khaligh (R), Treasurer
Maijinn Chen (R)	François Lévy (R)
Marc Cohen (R)	Renée Matossian (R)
Silvano Colombano (R)	Susmita Mohanty (I)
✓ Ondřej Doule (I)	David Nixon (R)
Donna Duerk (R)	Regina Peldszus (I)
Maria João Durão (I)	Georgi Petrov (R)
Michael Fox (R)	Raúl Pólit Casillas (I)
Shai Gerner (I)	Tomáš Rousek (I)
John Gulliford (R)	Brent Sherwood (R)
Ted Hall (R), Chair	✓ Jackelynne Silva (R)
Patrick Harkness (I)	Frederick Slane (R)
Sandra Häuplik-Meusburger (I)	✓ David Wong (I)
Scott Howe (R)	

2. Technical Sessions

Commission VI of the International Academy of Astronautics (IAA) organized Symposium E5: The 24th Symposium on Space Activity and Society. SATC members are prominent in this commission. Olga Bannova was one of the symposium coordinators (along with Geoffrey Languedoc). There were 6 paper sessions and 1 poster session:

- E5.1: New Architectural, Strategic and Design Approaches to the Future of Human Space Flight
- E5.2: Moon, Mars and Beyond: Analogues, Habitation and Spin-Offs
- E5.3: Space Technologies – Earth Applications
- E5.4: Space as an Artistic Medium
- E5.5: Space Assets and Disaster Management
- E5.6: Space Societies and Museums
- E5.P: Poster Session

Among the sessions chaired by SATC members, 21 accepted abstracts produced 7 papers:

- **E5.1: New Architectural, Strategic and Design Approaches to the Future of Human Space Flight**

Wednesday, 2013/09/25, 09:45

Chairs: Olga Bannova, Brent Sherwood

Rapporteur: A. Scott Howe

David Wong stood in for Sherwood and Howe, who were unable to attend due to NASA travel restrictions.

Wong, David; Peldszus, Regina (2013 September). “Less is More”? – Exploring Design Principles of Modern Architecture in the Context of Space Habitation (IAC-13-E5.1.1).

Chang, Huai-Chien; Wang, Chun-Chieh (2013 September). How the Design of Humanized Zero Gravity Toilet Benefit Space Tourists with Disabilities (IAC-13-E5.1.3).

- **E5.2: Moon, Mars and Beyond: Analogues, Habitation and Spin-Offs**

Wednesday, 2013/09/25, 11:15

Chairs: Olga Bannova, Brent Sherwood

Rapporteur: A. Scott Howe

David Wong stood in for Sherwood and Howe, who were unable to attend due to NASA travel restrictions.

Oungrinis, Konstantinos-Alketas; Liapi, Marianthi; Linaraki, Despoina; Mairopoulos, Dimitris; Klothakis, Aggelos; Gargalis, Leonidas; Kelesidi, Anna; Gkologkina, Elli; Paschidi, Mariana (2013 September). Intelligent Spacecraft Modules: Employing User-Centered Architecture with Adaptable Technology for the Design of Habitable Interiors in Long-Term Missions (IAC-13-E5.2.1).

Linaraki, Despoina (2013 September). Architectural Design of a Research Space Station in the Venusian Clouds (IAC-13-E5.2.3).

- **E5.3: Space Technologies - Earth Applications**

Wednesday, 2013/09/25, 14:45

Chairs: Olga Bannova, Nona Minnifield Cheeks

Rapporteur: Anna Barbara Imhof

David Wong stood in for Cheeks and Imhof, who were unable to attend.

Zheng, Xinhua; Wang, Haining; Guo, Yafei (2013 September). Development and Application of Chinese Aerospace Systems Engineering Method (IAC-13-E5.3.2).

Chong, Yean Joo (2013 September). The Usefulness of Historical Earth Observation Satellite Images (IAC-13-E5.3.3).

Bannova, Olga; Mayorova, Vera (2013 September). International Exchange Intern Programs as a Foundation for Future Space Exploration Cooperation (IAC-13-E5.3.11).

In addition, 3 SATC member (Ondřej Doule, Sandra Häuplik-Meusburger and Jackelyne Silva) co-authored 3 papers in 3 other sessions: A5.1 (Human Lunar Exploration), A5.2 (Human Mars Exploration), and V.2-B3.9 (Human Space Endeavours Young Professionals Virtual Forum):

Doule, Ondřej; Wachtl, Oldrich; Eriksson, Katarina; Platt, Don; Saleny, Vratislav (2013 September). Sinterhab 2.0 – Deployment, Life Support Integration and Architecture Spin-Offs (IAC-13-A5.1.10).

Häuplik-Meusburger, Sandra; Petrova, Polina; Evetts, Simon N.; Sivanesan, Chan; Grömer, Gernot (2013 September). MASH: Deployable and Portable Emergency Shelter for Mars (IAC-13-A5.2.6).

Silva, Jackelyne (2013 September). Lunar Exploration Architecture Trade Analyses (IAC-13-V.2-B3.9.1).

Another SATC member (Päivi Jukola) participated in organizing 2 other sessions:

- **D3.2: Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development**

Wednesday, 2013/09/25, 09:45

Chairs: William H. Siegfried, Scott Hovland

Rapporteurs: Horst Rauck, Päivi Jukola

- **D3.4: Space Technology and System Management Practices and Tools**

Friday, 2013/09/27, 13:30

Chairs: John C. Mankins, Päivi Jukola

Rapporteurs: Maria Antonietta Perino, Hans E. W. Hoffmann