

SATC Telecon – 26 July 2019

AIAA Space Architecture Technical Committee

Attending

- Olga Bannova
- Michel Alves-Lacerda
- Suzana Bianco
- Marc Cohen
- John Holladay
- Barbara Imhof
- Thomas Lagarde
- Sungwoo Lim
- Kevin Scholtes
- Zeyaad Pandey
- Georgi Petrov
- Matthew Simon
- Sam Wald

Agenda

- Preview of the agenda (Olga)
- Call for volunteers (Olga)
- Conferences and meetings 2019 (Georgi, Sam, Matt, Olga, Barbara)
- Projects (All)
- 2020 conferences and events (Olga) (including possibly a new AIAA space forum in Las Vegas)
- Discussion of SATC needs for project leaders (All)

Welcome to everyone!

Conferences and meetings 2019

ICES in Boston, USA July 7-11

Very successful 3 sessions, 10 papers total:

July 10th - 10:30 -12:30 - 4 papers

July 10th - 14:00 -16:00 - 3 papers

July 11th - 9:00 -11:00 - 3 papers

Very good attendance with peak attendance for each session of 50, 60, and 30, four astronauts attended. Many fruitful discussions and collaborations span off during and after the sessions. The summary and photos are published on <http://spacearchitect.org/event-summary-ices-2019/>

AIAA Propulsion and Energy Forum in Indianapolis, August 19-22

The conference was accepting final manuscripts at the time of teleconference, total 9 papers accepted (8 has been submitted) 1 was still to be submitted by the University of North Carolina. Good mix of academic and NASA papers. Scott Howe will be there. It was expected that a smaller crowd will be attending due to an unusual forum. Robert Howard agreed to chair both architectural sessions.

IAC 70 in Washington DC, October 21-25

Several events are planned and **SA sessions E5.1A and E5.1B of Symposium E5** are full, all presenters confirmed their attendance.

Special session on "Space Architecture: Past, Present, Future". Barbara, Brent and Brand will start with stimulating an interaction on the podium and the conversation will turn towards interaction with the audience. People invited to the panel include Sandy Magnus, rep. from Blue Origins (Bob Smith), Smithsonian Space history curator Margaret Weitekamp, Leonard David. Christina will be a moderator steering the conversation towards SA.

Pre-IAC SA event on evening of October 20th: was in works as of July and has been approved in August. More information for advertising the event will be distributed in early September.

Other events in 2019

NASA Exploration Science Forum at Ames: Marc presented his project Lunar Daytime: two weeks of analog simulation for lunar surface exploration, which will be limited to 14 days of the lunar daylight on the surface. Received positive reaction but no potential funding sources. Also presented the ANTEAS poster about placing a sample receiving facility on the lunar orbit, and received an invitation to submit a concept article to the Astrobiology Journal. Although both papers were rejected by the IAC in 2019, Marc plans to submit them for the ICES 2020. Papers may be also published in other journals including Acta Astronautica.

For SATC members to consider: *SpaceCom in Houston*, November 21, 22.

New Worlds Space Settlements conference in Austin, November 15-16. New venue, rather small and oriented on a younger crowd, including high schoolers. Does not attract technical papers and projects, experience is nice. Local (Texas) students mostly participate.

Action: The dates will be distributed to SATC members.

NASA Innovative Concepts (NIAC) symposium in Alabama, September 24-26. Brand will participate.

NASA HRP Workshop in Galveston, January 22-25. Matt attends every other year and plans to attend again.

Action: Call for interested in participating in HRP.

Aerospace America end-of-the year review

Barbara reported on the status and deadlines for the SATC members to submit their contributions:

- Call for inputs from SATC members who works on projects related to Gateway

- Matt is involved in Gateway work and will be happy to contribute
- Article is pretty short, need precise descriptions of projects and SA involvement
- Deadline is mid of September
- Contribution e.g. in respect of what Boeing is doing for Gateway development and what SICSA students did to contribute to the Boeing vision
- Contributions should be in relation how SA were involved in projects.

Action: Matt and other interested members will contact Barbara directly

Conferences and meetings planned in 2020

ICES in Lisbon, Portugal July 12-16

Expected to attract larger attendance due to location. Same SATC members will be organizing the event: Georgi, Sandra and François), they may ask SATC members to assist if help will be needed. Same SA sessions will be in the conference agenda, call for abstracts will be out in September 2019.

SAS V in Lisbon, Portugal, July before or after ICES

SAS is proposed to be help in connection with the ICES in 2020. Maria and Emanuel offered help, Maria offered to organize the SAS venue at the Faculty of Architecture and / or Instituto Superior Técnico.

Thomas offered to coordinate with his team members in Lisbon who can help with organizing the event.

TBD: AIAA Space Forum or other AIAA event

There are new space events are under consideration to be organized in Las Vegas in August 2020, perhaps it will be a better opportunity for SA sessions. New people can volunteer to lead organizing next year AIAA conference if a new space forum will be organized. Call for volunteers, Matt and Sam can help or can use help.

Matt will send info about the conference for distribution and call for volunteers. Suzana is interested in supporting an AIAA conference in 2020.

IAC 71 in Dubai, UAE, October 12-16

Same sessions are proposed and potentially additional SA events can be planned. Brent announced that he would like to step down from a co-chair position. Barbara proposed Ms. Anne-Marlene Rüede from the Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland as a rapporteur. Olga and Brent agreed.

Session descriptions are the same, call for abstracts will be open right after the IAC 70. Discussion about other events, including Hateem's offer to organize SAS. Perhaps some other events can be organized there, e.g. SATC dinner, projects showcase, etc.

Action: call for proposals for SA events in Dubai, should be using an opportunity to expand in a new region but need to think what is the value and what we want to achieve.

Marc warned to be careful do not get involved in too many events and be selective about SA events going for quality rather than quantity.

Projects

Standards group: No updates received. The latest update: the committee worked on taxonomy for the project and work was submitted.

We had an open discussion about potential TC projects, leading to an invitation for volunteer leaders for both new and long-standing needs:

- **Membership** (currently led by Marc Cohen) – will update the map of SA membership. No new requests for membership. Need to talk to AIAA about the process of accepting new members. For examples, SATC didn't accept an applicant who's application wasn't complete and we didn't accept that person but the AIAA automatically accepted all regardless SATC recommendations.
- **Webmaster.** Thomas reported that it was no updates and recommended to start a Google document.
 - **Action:** check with Vittorio if such document has been already created.
 - Content update is urgent, it is related to the website update and a new host of the website content. Perhaps it's better to

On-going call for action

Please recognize that AIAA expects all members to be active in subcommittee duties. All SATC members are encouraged to volunteer in particular for leadership and support roles in these key needs. Finding subcommittees and reports on the AIAA website is not easy.

Action: interested members – please contact Olga and Brent directly.

Next on-line meeting

We discussed the possibility of the mid of September – depending on SATC members availability. Olga will conduct a Doodle Poll to maximize attendance.