

SATC Telecon – AIAA Space Architecture Technical Committee

31 July 2020

AIAA SM Group – SATC ZOOM meeting

Attended

1. Olga Bannova
2. Sandra Häuplik-Meusburger
3. Hatem Alkhafaji
4. Don Barker
5. Marc Cohen
6. Troy Cole
7. Ondrej Doule
8. Maria Joao Durao
9. Mahsa Esfand
10. Makoto Eyre
11. Brand Griffin
12. Patrick Harkness
13. Daniel Inocente
14. Mark Kerr
15. Kyunghwan Kim
16. Michel Lacerda
17. Thomas Lagarde
18. Francois Levy
19. Vittorio Netti
20. Zayaad Pandey
21. Georgi Petrov
22. Kevin Scholtes
23. Brent Sherwood
24. Matt Simon
25. David Wong
26. Melodie Yashar

Pre-coordinated absence

Emanuel Pimenta – travel

Barbara Imhof – travel

Christina Ciardullo – Congratulations for the new baby-girl!

Opening comments

Welcome and approval for the agenda

Upcoming conferences and meetings in 2020/2021

- ASEND (Michel) 16-18 November

Conference agenda should be posted on the website by August 10. SATC members are welcome to contact Michel directly with questions etc.

- ICES (Georgi, Sandra, Francois): 2020 ICES 6 SA papers submitted for publications in 2020. Other authors preferred to divert their submissions to the ICES in Lisbon in July 2021. Virtual SAS in September or October, Olga will do a Doodle poll to select a Friday that works for most SATC members. Georgi Petrov volunteered to organize this Virtual SAS. Six papers submitted to ICES 2020 will be presented during the virtual meeting.
- SAS Lisbon (Maria Durao): Since ICES 2021 is planned in Lisbon, SAS plans that were made for 2020 remain for 2021. The university can host the symposium on Friday after ICES concludes on the previous day, and an architectural tour and special presentations planned on Saturday. The goal is to open the event to many universities and broader audience. Another potential venue is the MAAT Museum, the SAS may include a SA exhibition.
- IAC 71 Dubai (Olga): online sessions in 2020 as planned. Submission of pre-recorded presentations required before the paper submission. Out of 12 accepted papers – 9 confirmed, 1 withdrawn and 2 no status update. Virtual poster session has 5 space architecture-related confirmed submissions.

Space architecture special session proposed by Brent, Christina, Barbara and Hatem for the IAC 2020 was withdrawn and will be resubmitted for the IAC in 2021.

- 2021 plans for the IAC and other events in Dubai (Hatem) – resume the same plans as were for 2020.

Subcommittee reports and current projects

The memberlist of the Subcommittees has been updated and sent via another document.

Exhibitions (Maria Durao): Olga Bannova, Sandra Häuplik-Meusburger, David Wong, Kevin Scholtes, Vittorio Netti, Kyunghwan Kim. Diverse types of exhibitions and themes are possible. The SATC membership should help to form a portfolio of potential projects and other exhibition materials. Vittorio suggested preparing a set of short videos from SATC members about space architecture for Edu SC, the set can be useful for exhibitions as well.

AIAA Space Architecture Committee on Standards (Ondrej): The working group has completed AIAA/ANSI S-153-2020, “Human Spaceflight: Spacecraft Architecture and Systems Engineering Ontology”.

This standard has been voted “approved” and will be published and shared with SATC. Ondrej with the group will be forming a committee for its update.

The document goes through the last revision. The final document published by AIAA can and will be shared. Ondrej will re-establish a standardization committee – SACoS, which is independent of SATC. He will issue a call for SACoS membership when ready.

Best Paper Awards (Olga reported): the winners have been notified and certificates and checks issued by the AIAA.

The Gordon Woodcock Space Architecture Award for Professional Excellence (Brand): 2020 award is “in-house” and the SATC will move on with the AIAA award later. Marc warned that going through the AIAA process requires quite a bit of bureaucracy. Olga updated that SATC has already received approval from the MS group director Robbie Robertson.

Membership (Marc): Marc described the primary duties and timeframe. During the transition of the SC leadership from Marc to the next chair a deputy chair position was proposed. Zayaad volunteered for this position and will work with Marc.

Educational subcommittee current members: Sandra Häuplik-Meusburger (Interim Chair), Mahsa Esfand, Olga Bannova, Matt Simon, Jackelyne Silva-Martinez, Vittorio Netti (web support), Michel Lacerda, Troy Cole, Melodie Yashar, Kyunghwan Kim. Matt volunteered as a deputy SC chair. A SC online meeting will be scheduled in August to create a plan of actions. David Wong suggested that education-related website inquiries may be directed to the EDU SC members directly. Vittorio suggested preparing a set of short videos from SATC members about space architecture. Matt will organize the first meeting of the newly formed SC.

Website and online activities

Mailing list – recent privacy protection actions are welcome.

Project on spacearchitect.org – call for submissions from all members, we don’t have project submission template. Criteria for publishing projects is needed. All members are welcome to submit their projects but they have to comply with certain requirements (e.g. at least three Hi-Res images, credits, description, technical data, clearly articulated space architecture relevance etc.)

Website updates – clarification and discussion of the difference between SATC and SpaceArchitect.org – has to be easy to navigate to.

New business:

AIAA SM group Director Robbie Robertson proposal:

AIAA has asked if we are willing to put together a Town Hall type of talk that would discuss space topics broadly with the **Student Branches**. It is a great opportunity to talk about the TCs, what we do, and introduce ourselves to a new generation of future space professionals. A quick overview of activities in space and then a discussion of ASCEND and the TCs.

TCs presentations during the Town Hall – SATC input will be needed. Olga will keep SATC informed about this activity and will issue a call for input.

Marc introduced a new student design completion that he is involved. The topic is a Lunar South Pole base with a strong focus on the Integration of the Life Support Systems.

Marc is also looking for interested people at universities to join the efforts of building a lunar simulation model (according to the Lunar Day Time Paper).

Next meeting will be scheduled in November-December 2020.