

## Meeting Minutes SATC

10 October 2014, Telecon meeting  
UTC 2200 to 2330

Chair: Ondřej Doule  
Vice-chair: David Wong

### Attendance:

Total members: 37

Invited: all

Participating members: 12, individually (In) 2, excused (E) 7

#### Continuing members:

Anton Andonov (I)	✓ Abhishek Jain (R)
Payam Bahrami (I)	Mark Kerr (R)
✓ Olga Bannova (R)	Shahzad Khaligh (R)
Donald Barker (R)	François Lévy (R)
Annette Barnes (R)	✓ Sungwoo Lim (I)
✓ Christian Carpenter (R)	In Renée Matossian (R)
✓ Marc Cohen (R)	David Nixon (R)
✓ Silvano Colombano (R)	Kursad Ozdemir (I)
✓ Ondřej Doule (I)	E Regina Peldszus (I)
E Maria João Durão (I)	Georgi Petrov (R)
Michael Fox (R)	✓ Emanuel Pimenta (R)
E Shai Gerner (I)	Brian Pitchford (R)
John Gulliford (R)	E Raúl Pólit Casillas (I)
E Patrick Harkness (I)	Tomáš Rousek (I)
In Sandra Häuplik-Meusburger (in person) (I) ✓	✓ Brent Sherwood (R)
A. Scott Howe (R)	✓ Jackelynne Silva-Martinez (R)
Ogbonnaya Iheukwumere (I)	✓ Matthew Simon (R)
E Barbara Imhof (I)	(Frederick Slane (R) SACS)
Rohan Jaguste (I)	✓ David Wong (I)

### Introduction:

OD (Ondrej Doule): Announcement, score of conferences and activities.

### ICES 2015 NOTE:

MC (Marc Cohen): SATC will cover all habitability papers – There will be only one habitability section (i.e., ours).

**AIAA:**

MS (Matthew Simon): I am set as a session chair, sending out the invite weekend. Still need to discuss the collab with habitation track.

JS (Jackelynne Silva-Martinez): Space robotics will go independently?

MS: Not 100 percent sure will negotiate it.

JS: we may need more papers then.

**Awards SC: see Appendix SC-A**

- Half dozen nominations from IAC conference
- AIAA paper need to be re-accessed – Jacky? Ondrej can access if required
- Encourage people to nominate papers
- Student prize? Not necessary monetary.
- Division of work – difference between student work/professional work / papers
- Maybe student prize start next year
- Limited population – same paper by same author should not be a problem as long as its related to different topics.

**Construction SC:**

SL (Sungwoo Lim): no updates

**Education SC:**

OB (Olga Bannova):

- Brochure should be reviewed
- UIRA – interesting project, still missing the scope, what can we provide? Clear structure needed.

EP (Emanuel Pimenta):

- Had successful presentation in Brazil. We have currently no financial support. Univ. of S.Paolo is supporting the project. We have first link to organization committee of Olympic games. Also a young team is generating 3D model of UIRA. There are other potential prospective contacts. We would like to open coordinate process of collaboration for students.
- (in summary – collaborative platform for space systems design education)

OB: Can university of SP support it?

EP: NUTAO is part of SP which coordinates this project.

OB: SICSA is now independent of college of architecture and we are stand alone under college of engineering. We are interdisciplinary and classes are under both architecture and engineering. We are accepting students for spring semester. I am associate director of SICSA. We still have MASTER in SPACEARCHITECTURE. Students accepted by spring 2015.(OB is director of SICSA)

MC: are you looking for additional faculty?

OB: not at this moment.

OB: planning to organize Aliter in Portugal / or during IAC 2017 in Australia

CC (Christian Carpenter): I am collaborating with Washington state / Aerojet Rocketdyne - on publication / project of additive manufacturing – I wrote part on 3D printing. I am looking into digital environment for designs to be uploaded to space station so they could 3D print them on board. I am in touch with Made In Space which developed the 3D printer currently to be at ISS.

MS: Parametric habitat – to create tool for students : NASA supports it but does not dedicate time to it. (volunteers needed to help Matthew!)

MC: See paper from 2008 that is a habitat sizing tool. I did XLS coding. (Marc Cohen)

JS: I will send you material I used for space launch for the parametric habitat... (Education and Habitation SC collaboration)

#### **Habitation SC:**

SH (Sandra Häuplik-Meusburger): OD: Sandra asked for individual meeting – she reported on coordination of ICES2015 - ongoing.

JS: Few other plans are being pursued: Writing paper together as a subcommittee - student design competition is another topic we are discussing.

#### **Membership SC:**

MC: Still gathering information about members.

- 3 members do not have filled data – and they do not appear on the member list.
- We need to update the lists.
- SATC members should be highlighted

DW (David Wong): Memberlist is different from biopage. We will update it pages should be consistent. Currently we list SA.org separately to AIAA SATC members.

#### **Outreach SC:**

DW: We have successfully generated new logo design (OD: congratulations to us :D but mostly to David W. ☺) and we will gradually push it forward. If you find any glitch on our website let us know we will fix it – still transitioning it. Orbit is ongoing project and next issue is due on Dec 1<sup>st</sup>

#### **CONFERENCE ACTIVITIES:**

**IAC 2014** – see independent report at AIAA SATC website

#### **ICES 2014**

MC: ICES – reminder sent for abstracts, check the date on AIAA SATC website

#### **IAC 2014**

OB: Update on IAC 2014 /2015 – will send invitation for updates on session structures via email. 3 papers were nominated to Acta Astronautica for each Space Architecture session.

JS: Update on IAC 2014 /2015- considering including a panel that looks at how integration occurs between system engineering and space architecture for IAC 2015.

MC: 3<sup>rd</sup> space architecture symposium – AIAA supports through life support committee and ICES supports us as well in EU. Next I will send brief prospectus on we will do / how to organize it. We had 2 days in past around 24 papers + keynote speaker each day + panel discussion. We will follow that general pattern. Chair of the steering committee AIAA LSTC and ICES Grant Anderson supports as well. SAS will certainly be in EU.

**Action Items:**

Item	Management assigned to:	Due Date:	Status:
Update SA Brochure	OD	30-May-2014	Completed
Fix the paypal button on spacearchitect.org website	DW, TR, TWH, ASH	ASAP	Completed
Website maintenance – strategy and workforce	DW	ASAP	Completed
AIAA SATC LOGO	DW	15-June-2014	Completed
Space Forum stage for 30 minutes project August 4-7	SL	20-June-2014	Completed
Send an email request for how many SATC members are attending Space Forum 2014	OD	-	Completed
Input for brochure, book update	OB, all SC	-	Completed
Annual Report	OD	31-Dec-2014	In process
Call for ICES2015 session chair	DW	-	Completed (SHM, SH)
SATC / SpaceArchitect.org biographies structure	MC/DW	-	In process
3 <sup>rd</sup> update of outreach brochure requested	OB, MC	- 2015	Not started
Virtual habitat – volunteers needed	MS, JS	-	In process
UIRA + Aliter III outreach event	OB, EM	-	In process
Funding options	OD	-	In process
SATC 2014 "Best Paper" Certificate of Merit.	RM, ALL	31-Dec-2014	In process
...		-	

**Next Meeting:**

- Next committee meeting: End of November (avoid 21, 28) /early December - TBD – questionnaire for preferred date/time will be sent to SATC members shortly.
  - Minutes submitted by: Ondřej Doule, David Wong
  - Minutes reviewed / approved by all participants by 19.10.2014
  - Action items updated on 11.10.2014
  - Minutes distributed to members by David Wong on 20.10.2014
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## Appendix SC-A

### By Renée Matossian, chair, Awards Subcommittee

SATC "Awards Subcommittee" Status Report (Oct. 2014)

Awards Subcommittee Members: Renee Matossian, Mark Kerr, Emanuel Pimenta, Brent Sherwood

Now that ICES/AIAA Space/ and IAC are all finished, we are accepting nominations for the SATC 2014 "Best Paper" Certificate of Merit.

(NOTE: We must officially refer to this award as a "Certificate of Merit," since the term "Award" is bound by a whole additional set of AIAA requirements).

- Call-for-nominations announced during this Friday's SATC telecon, and SATC-wide email announcement to follow shortly.

- Candidate papers shall have been presented during the 2014 calendar year at either ICES, AIAA Space, or IAC

(QUESTION FOR SATC: should we accept nominated papers presented at any space-architecture-related conference that SATC members attended, other than the 3 mentioned above? Since SATC is an AIAA TC, must papers have been presented at AIAA-sponsored conferences?)

Papers may be nominated up through Oct. 31, 2014 (we've had some papers nominated already!)

- Papers may be nominated by any SATC member.
- SATC members may nominate a paper they peer-reviewed, a paper from session they chaired, or simply a paper from a presentation they attended.
- Paper need not be from an SATC-chaired session, but paper should be relevant to the field of space architecture.
- Conference Chairs/Co-Chairs are asked to at least nominate the best paper(s) from their sessions
- SATC members who peer-reviewed papers should nominate those papers which they feel are strongly deserving of the award.
- Please email nominated papers (or at least paper title and ID number/author(s)/conference at which presented) to:

[renee@matossian.net](mailto:renee@matossian.net) (w/ subject heading: SATC Best Paper)

- Papers will be reviewed/judged during the month of Nov. 2014

- Depending on the number of papers received, the Awards Subcommittee could use a few additional SATC members as reviewers/judges.

- (This is an excellent opportunity for those members who still need to show a bit more "annual SATC participation/commitment" for 2014).

- Any SATC member may volunteer to participate in the review/judging process, so long as he/she remains a "disinterested party" and isn't the author/co-author, or otherwise affiliated with one of the nominated papers.

- In the interest of consistency (and not reinventing the wheel) need to determine if an SATC member from the 2012\* Best Paper Selection Committee (Susmita? Barbara? Ted? Anyone?) can provide us with copy of judging criteria previously used. If not, Awards Subcommittee will determine new list of criteria.

- Winning paper will be announced by mid-Dec. 2014, to be included in year-end synopsis to AIAA of SATC activities.

- "Certificate of Merit" and \$100 prize will be bestowed upon winning author(s) by official from AIAA, at AIAA event (TBD) in 2015

- (Waiting to hear back from Shahzad...need to confirm that we still have \$100 from our 2014 budget dedicated for this prize)

-Olga inquired as to whether there could be a separate candidate pool of student papers? Our 2014 budget currently sets aside prize money for only (1) prize (so no separate student prize recognized). However, we could consider offering a student prize in the future if we have a consistently-strong turnout of student papers, additional prize money set aside in our annual budget (Shahzad?), and enough SATC volunteer help in reviewing the additional set of papers. More SATC members would qualify to judge the student papers, since less conflict-of-interest with members being authors/co-authors of papers, or affiliated with the students/universities.

- Comments/feedback/suggestions on the above?

- Any additional volunteers who want to help judge? (Will be disqualified if one of your own papers is nominated)

\* (FYI, there was no "2013 Best Paper" award, since SATC members elected to instead use the \$100 equivalent prize money to fund Mike Fox's "Wii in Zero-G" student project). Therefore the 2012 awards criteria = most recent.

