



Dear Team Members;

As shown in the agenda on the 3rd page and the attendees, the meeting went very well. There were many members of the working study group that were there and the full leadership team was present. Akira Tsuchida, David Raitt, and Pete Swan lead the discussions and ensured that the meeting was successful during the time allocated.

Mr. Tsuchida started off the discussions with the following points:

Item one: Several study group members visited at "Chikyu", the deep-sea drilling vessel owned by Japan Agency for Marine-Earth Science and Technology (<http://www.jamstec.go.jp/chikyu/e/>) and met with chief officer of this vessel and he started several studies for Earth Port of Space Elevator. In addition to ISEC's great job for Earth-Port, we are now having another contributor.

Item two: There were tremendous discussions with the Japanese Space Elevator Association with respect to their global challenge of space elevator tether climbers. This activity has been described and will be combined with a unique global effort focusing on robotics. The study group has concluded that the GSPEC will be an important step in the progress of space elevator and will be sponsored by our study group and endorsed by the International Academy of Astronautics.

Item Three: The report is about half way drafted with hopes that the IAC papers in the 2017 Technical session on Space Elevators will fill in a significant portion of the missing information. And Prof Kai's SEC2017's presentation "Law and Structure of the Space Elevator" can be one input for this report, we agreed to say in the eventual Conclusions/ Recommendations of the report that the space elevator will be considered as an Earth object for transportation, but that the enterprise entity would be considered as a space object. Furthermore, if any kind of "city" is actually connected to the elevator at say Geo or Apex, then these could also be considered as Earth objects. Also Plan B in case we cannot have strong enough tether material on time, risk mitigation ideas should be described in the report (i.e. other kinds of elevators, e.g. lunar, martian etc.). Further discussion will be done in Adelaide. Peter Swan discussed the tremendous successes in parallel to the IAA study within the International Space Elevator Consortium. He and the ISEC Chief Architect just published a report from a one-year long study entitled "Design Considerations for the Space Elevator Apex Anchor and GEO Node." Many of those ideas and diagrams will be placed in the IAA study as updates to the thinking across the space elevator community. The pdf copy of the report is attached to this message. [hard copies can be bought through a link at www.isec.org]

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International Academy of Astronautics (IAA)
Minutes of meeting - Study Group 3.24 "Road to Space Elevator Era"
9th meeting in Seattle, USA on August 26th, 2017



In addition, Dr. Swan explained how the Space Elevator Feasibility Prediction Index will be working in the future with a presentation and written paper presented at the IAA study group meeting in Adelaide.

The next meeting is in Adelaide at the 2017 IAC on Thursday 28 September. The details will be announced soon.

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International Academy of Astronautics (IAA)
Agenda of meeting - Study Group 3.24 "Road to Space Elevator Era"
9th meeting in Seattle, USA on August 26th, 2017



Date: Saturday, August 26th, 2017

Time: 15:15 – 17:00

Place: Side Conference Room in the Museum of Flight, Seattle

Chair: Akira Tsuchida (M2), Co-chair: Peter Swan, Ph.D. (M4), David Raitt, Ph.D. (M4)

Secretary: Dr. Hatsumi Ishida (Back-up Mr. Yuto Suzuki)

Agenda:

1. Opening Remarks (Visiting at "Chikyu", the deep-sea drilling vessel, etc.) Akira Tsuchida
2. Self-Introduction (if required)
3. Report prepared for Commission III meeting/SG3.24 Akira Tsuchida
4. IAA Report Development Status and catch up schedule Akira Tsuchida
5. ISEC achievements over last year Peter Swan
6. Space Elevator Feasibility Prediction Index Peter Swan
7. Discussions and questions
8. Next meeting schedule
9. Others

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Appendix 1: List of Attendees

Name	E-mail	Country	Affiliation
Pete SWAN	dr-swAN@cox.net	USA	International Space Elevator Convention
Shuichi Ohno	ohno@jsea.jp	JP	JSEA.
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