

International Academy of Astronautics (IAA)  
Agenda of meeting - Study Group 3.24 "Road to Space Elevator Era"  
7th meeting in Guadalajara, Mexico on September 29<sup>th</sup>, 2016



Date: Thursday, September 29th, 2016

Time: 12:45 – 14:45

Place: "Mueble 2" in Expo Guadalajara

Chair: Akira Tsuchida (CM2), Co-chair: Peter Swan, Ph.D. (M4), David Raitt, Ph.D. (M4)

Secretary: Ms. Sakurako Takahashi

Agenda:

1. Opening Remarks – Mission Overview Akira Tsuchida
2. Self-Introduction - see the list of attendees
3. Review - Mission Definition Drafted, to be sent to team within month Peter Swan
4. Critical Technology and (Verification/) Recommended research topics were discussed with respect to approach and "how to." Action items to be sent to team. Peter Swan
5. Prep for next step (for making final report) Akira Tsuchida
  - All the items 3-5 are combined and discussed together.
  - The leadership team has drafted preliminary version of the final report. We will improve and pass it to the entire study group. Each member is requested to add their research progress and results, with the recognition that the key element – critical technology status – has not been completed.
  - Showed the proposed table of contents of the final report (see Appendix 2).
  - Presented and explained the summary chart to show the relationship between Mission Definition, System Requirement, Critical Technologies, and Verification. This will be sent out to the team members with detail directions.
  - Chapter 4 of the final report would include the list of recommended research area. The leadership team is preparing a table for the tether climber and members will be asked to expand that one and add more technologies for other segments. They will then be asked to address their assessment of the TRL's for each technology.

Contact Information:

Mr. Akira Tsuchida (CM2/IAA) [tsuchida.akira@gmail.com](mailto:tsuchida.akira@gmail.com)

Ms. Sakurako Takahashi [takahashi.sakurako@jamss.co.jp](mailto:takahashi.sakurako@jamss.co.jp)

International Academy of Astronautics (IAA)  
 Agenda of meeting - Study Group 3.24 "Road to Space Elevator Era"  
 7th meeting in Guadalajara, Mexico on September 29<sup>th</sup>, 2016



Appendix 1: List of Attendees

Name	E-mail	Country	Affiliation
Yoshiki Yamagiwa	tmyyama@ipc.shizuoka.ac.jp	Japan	Shizuoka University
Fumihiko Inoue	inoue@mech.shonan-it.ac.jp	Japan	Shonan Institute of Technology
Sajjad Keshtkar	diesel253m@gmail.com	Mexico	UNAM
Urara Wada	13a1098@sit.shonan-it.ac.jp	Japan	Shonan Institute of Technology (Student)
John Knapman	John.knapman@isec.org	UK	ISEC
Peter Swan	dr-swan@cox.net	USA	International Space Elevator Consortium
Akira Tsuchida	tsuchida.akira@gmail.com	Japan	Mitsubishi Aircraft Corporation
Sakurako Takahashi	takahashi.sakurako@jamss.co.jp	Japan	JAMSS
Yoji Ishikawa	ishikawa.yoji@obayashi.co.jp	Japan	Obayashi Corporation
Masahiro Nohmi	nomi.masahiro@shizuoka.ac.jp	Japan	Shizuoka University

Contact Information:

Mr. Akira Tsuchida (CM2/IAA) [tsuchida.akira@gmail.com](mailto:tsuchida.akira@gmail.com)

Ms. Sakurako Takahashi [takahashi.sakurako@jamss.co.jp](mailto:takahashi.sakurako@jamss.co.jp)



## Appendix 2 – TOC proposed

### Acknowledgement

### Preface

### Executive Summary

### Table of Contents

Chapter 1 Introduction – purpose of this study
Chapter 2 Space Elevator Mission Definition
Chapter 3 Space Elevator Performance Requirements
Chapter 4 Space Elevator Technology Breakout by Segment
Chapter 5 Critical technologies identification with risks
Chapter 6 Risk Reduction On-orbit verification/demonstration experiments
Chapter 7 International Policies and Law – Specific Questions
Chapter 8 Conclusion and Recommendations
References
Appendixes
Appendix-1 Study Member List
Appendix-2 Acronyms and Common Terminology
Appendix-3 Suggested Research Topics
Appendix-4 Space Elevator Feasibility Prediction Index (SEFPI)
Appendix-5 TBD

Contact Information:

Mr. Akira Tsuchida (CM2/IAA) [tsuchida.akira@gmail.com](mailto:tsuchida.akira@gmail.com)

Ms. Sakurako Takahashi [takahashi.sakurako@jamss.co.jp](mailto:takahashi.sakurako@jamss.co.jp)