

## IAA Study Group Status Report

**Responsible Commission:** Commission III

**Study Number and Title:** 3.24 Road to Space Elevator Era

**Short Study Description** (repeat from Study Group Proposal):

This SG is the follow-up of the SG3.13 “Assessment of the Technological Feasibility and Challenges of the Space Elevator Concept” with the same baseline design assumptions.

Development of a unique space transportation system of the future, called a space elevator, should be accomplished with more international cooperation and should contribute to the overall development of space science and systems development. To accomplish these desires, projects are identified that can be accomplished in the near future leading to risk reduction and engineering enhancements. Specifically, the following practical on-orbit verification projects could be planned and promoted through this study group's activity.

**Progress in past six months:**

- (1) 2 meeting were held in Paris (March, 2016) and Seattle (Aug, 2016).
- (2) SG members discussed that we should focus Critical Technology first rather than spend our resource to develop and complete the System Requirement document. So that we can focus more about our study group's goal.
- (3) Space Elevator Life Cycle Cost Estimation was discussed using recent “Superconductive MAGREV bullet train system development.
- (4) Reviewed first draft of IAA Study report outline

**Website Study Information update:** (please give any update regarding Study Group Membership, documents, Study Plan and Schedule):

- (1) On the Activities, please add the following meetings:  
-Study group meeting, Friday 19 August 2016, 12h00-13h00, Seattle, USA
- (2) On the membership, please add three new members:  
Michael “Fitzer” Fitzgerald [michael.fitzgerald@isec.org](mailto:michael.fitzgerald@isec.org)  
Dennis Wright, Ph.D. [dennis.wright@isec.org](mailto:dennis.wright@isec.org)  
Vern Hall [vern.hall@isec.org](mailto:vern.hall@isec.org)  
Anna Guerman (previously requested)  
Vadym Pasko (previously requested)
- (3) Next Meeting: Sept 29 Sept at IAC-2016

**Issues requiring resolution?** (recommend approach):

None

**Product Deliveries on Schedule?** (If modified explain rationale):

No change

**Study Team Member Changes?** Yes:

Michael “Fitzer” Fitzgerald [michael.fitzgerald@isec.org](mailto:michael.fitzgerald@isec.org)

Dennis Wright, Ph.D. [dennis.wright@isec.org](mailto:dennis.wright@isec.org)

Vern Hall [vern.hall@isec.org](mailto:vern.hall@isec.org)

**Name of person providing Study Group Status**

**Mr. Akira Tsuchida – Chair**

**September 3, 2016**