

15th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)  
Conceptualizing Space Elevators and Tethered Satellites (3)

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SUGGESTIONS OF RESEARCH AREAS AND FUTURE EXPERIMENTS - STATUS REPORT OF  
IAA SG3.24

**Abstract**

In 2014, a new study group, SG3.24 "Road to Space Elevator Era", was established in IAA as 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. Approaching to the end of its 3-year activity period, the study group members are drafting the final report including: mission definition, performance requirements, list of critical technologies with TRLs, suggestions of on-orbit verification/demonstration experiments, etc. The results of the recent experiments utilizing the ISS will also be included.