

IAF SPACE POWER SYMPOSIUM (C3)
Interactive Presentations - IAF SPACE POWER SYMPOSIUM (IP)

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INTERNATIONAL SPACE SOLAR POWER STUDENT COMPETITION PAPER NO. 2

Abstract

This Abstract is a placeholder for a planned Space Solar Power Student Completion paper, to be selected.

The 2024 International Space Solar Power Student Competition will encompass multiple disciplines related to Space Solar Power technologies, including but not limited to: Acceptable disciplines/fields for research projects include: • architecture level system design activities, cost-benefit studies, etc.; • end-to-end energy concepts technology (including wireless power transmission (WPT), solar power generation, etc.); • structural systems, controls and dynamics technology, and modeling of these considerations; • flight and/or space transportation technology and engineering for the SPS (including Earth-to-orbit or in-space transportation and/or propulsion); • ground systems and integration In addition, acceptable cross-cutting topics of general interest include: • the potential value of SPS in reaching goals to mitigate climate change issues; and, • near-term demonstration of relevant SPS concepts and technology; • mid-term demonstrations of relevant SPS concepts and technology (for example in low Earth orbit); • space resources utilization for SPS; • space policy, legal and regulatory considerations across all of the above (including international cooperation, spectrum management, space debris, etc.); and, • financing concepts for SPS systems and development.