

IEEE WiSEE 2024 Workshop on Space Solar Power – Call for Participation

Daytona Beach, FL, USA, 16-18 December 2024

Organizers: Christopher R. Valenta (Georgia Tech), Reza Zekavat (Worcester Polytechnic Institute), Alessandra Costanzo (U. of Bologna), Darel Preble (Space Solar Power Institute), Paul Jaffe (US Naval Research Lab)



This workshop offers a forum for researchers, developers, and policy-makers to discuss SSP technologies, to advance the state of the art, to discuss supporting and related technical issues, and to take necessary actions. Accepted papers will be published at *IEEEExplore* and presented at the workshop. The workshop accepts abstracts+talks and papers+talks. Papers should be submitted online and follow WiSEE 2024 format and submission approach.

Topics Include

small sats/cubesat demos
wireless/microwave power transfer
technological and policy for promoting SSP
education at all levels
comparative energy economics
energy, space, environmental policy makers
SSP channel modeling/wireless system design
array technology for power transmission
terrestrial power-beaming technology
antenna and solar integration
additive manufacturing for space
SSP communication interference studies
reflectarrays for power transmission
additively manufactured electronics in space
transmission modulation, multiple access, freq.
wireless power distribution (all forms)

orbital security and space debris
packaging and assembly in space
energy collection concepts and designs
high-powered microwave and mm-wave sources
space-hardening / in-space system performance
thermal management
SSP manufacturing
environmental impact / planetary sustainability
pilot beam design for wireless power systems

Special Session on Low-Area Density Satellites

- PaddleSats, LADSats, PrintableSats
- solar sails, orbital modeling
- additively manufactured electronics in space

The IEEE WiSEE 2024 Workshop on SSP accepts several submission types:

Abstracts, Tutorials, and Demos: lightly-reviewed summaries of proposed oral presentations. Submit abstracts via e-mail to Prof. Gregory D. Durgin (durgin@gatech.edu) by 1 Sep 2024.

Full Papers: peer-reviewed manuscripts intended for publication on *IEEEExplore*. Manuscripts should be submitted according to the format and deadlines described on the IEEE WiSEE 2024 website. Participation and attendance in the SSP Workshop is included for IEEE WiSEE 2024 registrations.