

WISEE 2018: Workshop on Space Solar Power (SSP)

Call for Papers and Presentations

Supported by *National Science Foundation, Michigan Tech, and Space Solar Power Institute*

Chairs: *Reza Zekavat (Michigan Tech), Darel Preble (SSP Institute), Tatiana Vinogradova, Northrop Grumman*

This two-day workshop offers a forum for researchers and developers to facilitate and highlight SSP technologies, to determine and advance the state of the art, to discuss supporting and related technical issues, and take necessary actions. Papers, presentations and keynotes selected from researchers, program managers, industry representatives, and academics are accepted. Accepted papers will be published at IEEE Xplore and presented at the workshop. The workshop accepts talks only, and papers + talks. Papers should be submitted online and follow WISEE 2017 format and submission approach.

Topics for talks include (but not limited to):

1. Communication Interference studies for SSP;
2. Wireless Power Transfer (WPT) / Microwave Power Transfer (MPT) Technologies;
3. Technological and policy needs for stimulating development of WPT/MPT;
4. Educating Next Generations on Wireless Power Transfer;
5. SSP Photovoltaics power planning, superconducting power management design and construction,
6. SSP Energy-Economics; Fossil Energy Resources and Green Energy alternatives;
7. Energy, Space, Environmental and Economic policy makers;
8. Wireless Channel (impact of power; frequency, bandwidth) and Wireless System Design;
9. Massive Phased Arrays/MIMO and mm-wave for Wireless Power Transfer;
10. Beam-forming strategies for power beaming;
11. Antenna and Solar Cell integration Technologies;
12. Transmission Schemes: modulation, multiple access, frequency;
13. Wireless Power Distribution (space-to-space, space-to-ground, ground-to-ground, ground-to-space);
14. Orbital Security and Space Debris;
15. System structural architecture, packaging and assembly in space
16. Attitude determination and station keeping
17. Energy collection concepts and designs
18. Energy transmission concepts and design
19. System performance under space environment, system resilience
20. System thermal management
21. SSP manufacturing approach
22. SSP environmental Impact and planetary sustainability issues

To submit a paper, please see (<http://sites.ieee.org/wisee/>).

Key Dates:

Paper/poster submission:	July 01, 2018
Acceptance notification:	Aug. 01, 2018
Final camera ready paper:	Sept 01, 2018
Early registration deadline:	TBD