**WISEE 2015: Workshop on Space Solar Power (SSP)**

**Call for Papers and Presentations**

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

*Chairs: Seyed (Reza) Zekavat (Michigan Tech), Darel Preble (Space Solar Power Institute)*

This 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 2015 format and submission approach.

Please visit: [http://sites.ieee.org/wisee](http://sites.ieee.org/wisee)

**Topics for talks include (but not limited to):**
1. Wireless Power Transfer (WPT) / Microwave Power Transfer (MPT) Technologies;
2. Technological and policy needs for stimulating development of WPT/MPT;
3. Educating Next Generations on Wireless Power Transfer;
4. SSP Photovoltaics power planning, superconducting power management design, construction, maintenance and operational techniques
5. SSP Energy-Economics overview; Fossil Energy Resources and Green Energy alternatives;
6. Energy, Space, Environmental and Economic policy makers;
7. SSP Design and Development Challenges;
8. National & International SSP projects (technologies, industries, companies, coordinated Research, SSP Power Beaming Competitions and challenges);
9. SSP Environmental Impact and planetary Sustainability issues (rising CO2, climate change)
10. Wireless Channel (impact of power: frequency, bandwidth);
11. Massive Phased Arrays/MIMO for Wireless Power Transfer;
12. Beam-forming strategies for power beaming;
13. Antenna and Solar Cell integration Technologies;
14. Power Harvesting Unit (e.g., Rectenna) Design;
15. Transmission Schemes: modulation, multiple access, frequency;
16. Wireless Power distribution and Relaying (space-to-space, space-to-ground, ground-to-ground, and ground-to-space);
17. Ground and space segment design, operation and control;
18. Space-based smart grids;
19. Multi-layer power transfer (Air-to-Water, Air-to-body, etc.);
20. Orbital Security and Space Debris;

To submit a paper, please see [http://sites.ieee.org/wisee/call-for-papers/](http://sites.ieee.org/wisee/call-for-papers/).

**Key Dates:**
- Paper/poster submission: September 01, 2015 (FIRM)
- Acceptance notification: September 15, 2015
- Final camera ready paper: October 15, 2015
- Early registration deadline: October 01, 2015

**Note:** WiSEE 2015 will include a 16 December tour of the Kennedy Space Center in Cape Canaveral, Fla.