

# Space Solar Power (SSP) Workshop

## Call for Talks: Meeting the *Energy* Challenges with Space Solar Power

Michigan Technological University  
Houghton, Michigan, August 8-9, 2013

**MichiganTech**

**Space  
Solar  
Power  
Institute**



**Michigan Technological University**, in collaboration with professionals from NASA Goddard Space Flight Center, the Space Solar Power Institute and the National Science Foundation, invites participation in a Space Solar Power Workshop August 8-9, 2013 for academics, industry professionals, and members of professional associations related to renewable energy to focus on SSP's challenges and opportunities.

**Motivation:** Thirty seven states and many countries have initiated Renewable Portfolio Standards (RPS) and other initiatives to adopt improved energy alternatives, such as ground-based solar, bio-fuel, and wind. SSP appears to be the most attractive option; *baseload*, *low* CO<sup>2</sup> intensity, and near zero fuel and water use. SSP, however, is only in development, hence **not** available to utilities. SSP would be large-scale solar energy collection in space and its wireless transmission to Earth for use by the customers of existing major power grids. SSP development would take advantage of many advanced technologies and promote further advances; including wireless power transmission, microwave circuits, space transportation, new communication paradigms, light and smart space-based structures, telerobotic construction and operations, photovoltaics and electric propulsion. **Requests to Participate are due before May 31, 2013.**

**Workshop Highlights:** The workshop is planned for two days. Presentations and keynotes will be selected from researchers, program managers, industry representatives, and academics, interspersed with topical working group discussions. The workshop will compare different SSP technologies, promoting discussion of these technologies, and to develop prize competition concepts resulting in significant advances in SSP systems and technologies. Participants will discuss how the efforts of existing national and international bodies might be complemented or enhanced. These working group discussions will be summarized and action items disseminated at the end of workshop. **Notification of acceptance of papers will be made by June 15, 2013.**

The 2013 SSP Workshop Committee requests presentations and papers covering:

1. Comparisons between SSP and other utility-scale Energy Alternatives.
2. Comparison of SSP Implementation Options.
3. Energy Economics for SSP and other Energy Alternatives.
4. Regulatory and Environmental Issues for SSP and other Energy Alternatives.
5. SSP Construction, Operations and Maintainability.
6. Updating Existing Space Security and Near Earth Object Policy for SSP.
7. National and International SSP Development and Coordination (Technologies, Industries, government agencies and companies).
8. SSP Microwave Power Transfer and Laser Power Beaming Challenges and Competitions
9. Future Applications and Technology for SSP.
10. STEM education and Training the industrial workforce for SSP.
11. Communicating the SSP perspective to Energy Policy makers.
12. SSP and Public Awareness

Request to Participate at [www.doe.mtu.edu/SSP](http://www.doe.mtu.edu/SSP)

**Venue:** Michigan Tech is located in Houghton, on Michigan's scenic Upper Peninsula. Surrounded on three sides by Lake Superior, ruggedly beautiful Keweenaw Peninsula is rated one of the top-ten outdoor adventure spots in the country by National Geographic Adventure Magazine. Visit [www.doe.mtu.edu/SSP](http://www.doe.mtu.edu/SSP) to register and plan a vacation!!