

Workshop: Current Challenges for Wireless Power Transfer

Sept. 02 2014, Washington DC

Call for Papers and Presentations

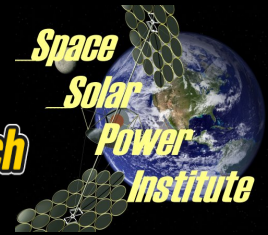
Important Dates:

Full Paper/Talk Abstract Submission: June 15 2014

Acceptance Notification: June 21 2014

Final Manuscript: June 27 2014

MichiganTech



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

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This workshop provides a forum for researchers and developers working on Wireless Power Transfer (WPT) to facilitate and highlight developing WPT technologies, to determine and advance the state of the art, to discuss supporting and related technical issues in this area, and take necessary action to improve implementations. It investigates WPT applications in Space-to-Ground (Space Solar Power), Space-to-Space, Ground-to-Space and Ground-to-Ground power transfer. Study of multi-layer power transfer (e.g., air-to-water, air-to-body), policies, and economics of WPT will also be considered.

Please visit workshop website at: <http://www.ece.mtu.edu/WPT/>

The workshop accepts novel and previously unpublished papers. Papers should not exceed 5 double-column pages, and should follow IEEE templates as indicated [here](#). Submitted papers will be subject to a peer-review process. All accepted papers will be included in the PIMRC conference programme and will be published by the IEEE Xplore. The workshop accepts technical presentations from academia and industry representatives as well. Talk abstracts and papers should be submitted through [EDAS](#).

The workshop will be integrated with IEEE PIMRC 2014. Please visit: <http://www.ieee-pimrc.org>

Topics of interest includes (but not limited to) the following:

1. Wireless Power Transfer Technologies
2. Technological and policy needs for stimulating development of WPT
3. Educating Next Generations on Wireless Power Transfer
4. Economics of Wireless Power Transfer
5. Design and Development Challenges
6. Wireless Channel (impact of power; frequency, bandwidth)
7. Massive Phased Arrays/MIMO for Wireless Power Transfer
8. Beam-forming strategies for power beaming
9. Antenna and Solar Cell integration Technologies
10. Power Harvesting Unit (e.g., Rectenna) Design
11. Transmission Schemes: modulation, multiple access, frequency
12. Wireless Power distribution and Relaying (space-to-space, space-to-ground, ground-to-ground, and ground-to-space)
13. Ground and space segment design, operation and control
14. Space-based smart grids
15. Multi-layer power transfer (Air-to-Water, Air-to-body, etc.)