SSP 2015 Workshop Technical Program: Dec. 14,15, Orlando, FL

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

Monday Dec. 14 2015

Plenary Talks 8:30-10am
1. Ali Hajimiri (Caltech) Space Based Solar Power: Is there a path from science fiction to reality?
2. Chris Valenta (Georgia Tech Research Institute) Harvesting Wireless Power: Current Capabilities and Future Directions

SSP–SI Technology Panel 10:30am -12:30pm (A. Hajimiri, C. Valenta, J. Mankins, B. Wie, N. Kaya)
2. Bong Wie (Iowa State University) Orbit and Attitude Control Issues for Very Large Space Solar Power Satellites (SSPS)
3. Nobuyuki Kaya (Kobe University, Japan) Recent Advances in Retro-directive Antenna for the Microwave Power Transmission for SSP

SSP – S2 Paper and Abstract 1:30 -3:00pm
1. Erinn van Wysberghe, Paul Jaffe (McMaster University and Naval Research Lab) High-Altitude Balloon for Wireless Power Transmission;
2. Mingyu Lu (Western Virginia University) Employing Phase-Conjugation Antenna Array to Beam Microwave Power from Satellite to Earth

SSP–S3 Paper and Abstract 3:30 -5:30pm
1. Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc. - XISP-Inc.) Unbundling Space Power Systems to foster Space-to-Space Power Beaming Applications
5. Lewis Fraas (President JX Crystals Inc.) Self Pointing Mirrors for Solar Power from Space

Tuesday Dec. 15 2015

IEEE WiSEE Plenary Talks: 8:30 – 10am

SSP–S4 Vehicle Launch Panel: 10:30am-12:30pm (J. Olds, K. Hensen, E. Zapata, D. Bienhoff, G. Sowers)
1. Dallas Bienhoff (Boeing) An Overview on RLV Development Programs
2. John Olds (CEO, Space Works Enterprises Inc.) A Review of Current and Future Launch Options for SSP
3. Edgar Zapata (Kennedy Space Center) Emerging US Space Launch – Trends and SSP
5. George Sowers (Vice President, Advanced Programs, United Launch Alliance) Transportation Architecture for Cislunar space

SSP-S5 Economy Panel: 1:30 -3:00pm (D. Preble, G. Tverberg, J. Mankins, K. Hensen)

IEEE WiSEE/SSP Funding Opportunity Panel: 3:30 – 5pm