

SSP Workshop Program in a Glance

Session 1 (Friday Nov. 08 Morning): Introduction 8:00 AM – 12:00 PM

8:15 Workshop Opening / Announcements

8:30 Paul Verbos (Keynote Speaker): Energy from Space: Challenges ahead from Technical to Political

9:15 **Darel Preble**: Introduction to Space Solar Power for the Global Electric Power Utility Market

9:45 **Brent Sherwood**: SSP: Hearts and Minds

10:15 Break

10:30 **Gail Tverberg**: Energy Economics motivating Space Solar Power Development

11:00 **Habib Rashvand**: Technological Innovation Process & Green Energy

11:30 **Gordon Woodcock**: SPS Assembly Challenges

Session 2 (Friday Nov. 08 Afternoon): Technology 1:30 – 6:00 PM

1:15 **Amir Mortazawi**: Wireless Power Transmission for Space Solar Power Generation

1:45 **Michael Brown**: SSP Critical Mechanical Engineering Technologies

2:15 **Reza Zekavat**: SSP Orbits and Technologies: A Comparison

2:45 **Stephen Blank**: Over the Horizon Wireless Power Transmission

3:15 Break

3:30 **Gary Barnhard**: Unbundling Space Power Systems to foster Space-to-Space Power Beaming Applications

4:00 **Michael Contreras**: The Solar Umbrella: A Low-Cost Demonstration of Scalable Space Based Solar Power

4:45 Koji Tanaka (Keynote Speaker): Mission design of WPT Space Demonstration Experiment using Small Scientific Satellite toward SPS

Poster Session (Friday Nov. 08 Evening Reception): 6:00 – 8:00 PM

Jeremy Straub: A Control System for Space Solar Power

Khaled ElMahgoub: Analysis of Nanoparticles Shape for Efficient Absorption in Nanoplasmonic Solar Cells

C K Krishna: Power from Waste – “Solution” from a Problem

Jason Dunn: 3D Printing in Space, Enabling Construction of Space Solar Power Infrastructure (**demonstration**)

Session 3 (Saturday Nov. 09 Morning): International, Education, Market 8:30 AM – 11:00 AM

8:30 **Gregory Durgin**: Building SSP Expertise into the Next Generation of Engineers Through Competitive Projects

9:00 **Martin Leitgab**: Hypermodular Distributed Space Solar Power- Technology Option for Near-Term LEO Demonstration and Geosynchronous Utility-Scale Plant

9:30 **Chris Dessert**: Interagency and International Collaboration for SSP Implementation

10:00 **David Dunlop**: SSP and International Disaster

10:30 Break

11-12pm Debates and Discussions