

Space Solar Power Workshop 2019 Detailed Program

IEEE WiSEE 2019

Wednesday Oct. 16 2019

SSP – S1 (9:30-11:30) *An Introduction to SSP*, **Chair: Darel Preble**

A Current Space Solar Power Introduction & Overview; **Darel Preble**, SSP Institute;

WHY Space Solar Power; **Darel Preble**; SSP Institute;

HOW do we build Space Solar Power?; **Darel Preble**; SSP Institute;

SSP – S2 (13:30 – 15:30) *Antenna Technologies for Space*, **Chair: Reza Zekavat**

Spacenna Flatness and Error Correction; **Abigail Finell; Penghui Heng; Sawyer Pawell; Peter Schubert**; Purdue University

Evaluation of Antenna Deformation for Space Solar Power System with Digital Retrodirective Method; **Mudassir Raza and Koji Tonaka**, JAXA, Japan;

Antenna Arrangement Verification for Low Sidelobe Levels; **Abigail Finell; Peter Schubert**, Purdue

SSP – S3 (16:00 – 17:30) *Photovoltaic Technologies; Part I*, **Chair: Darel Preble**

Progress toward SSP thin film photovoltaics (PV) - SSP's Perovskite picture; **Hamid Garmestani**, Georgia Tech

Thursday Oct. 17 2019

SSP – S4 (9:00 – 11:30) *Microwave Power Transfer*, **Chair: Darel Preble**

Recent teamwork on Microwave Power transmission applications, **Greg Durgin**; Georgia Tech;

All-Electric Aircraft Localization Performance Study via Space Solar Power Satellite Constellation; **Shu Ting Goh**; National University of Singapore; **Reza Zekavat**; WPI

SSP – S5 (13:30 – 15:30) *Special Topics on Commerce and Economy*, **Chair: Reza Zekavat**

The Space Debris Problem facing Space Commerce; **D Preble**, SSP Institute;

Don't count on Rising Energy Prices; **Gail Tverberg**, SSP Institute;

SSP – S6 (16:00 – 17:30) *Photovoltaic Technologies; Part II*, **Chair: Darel Preble**

Space Solar Power's Photovoltaic Reliability (PVR) Overview, **Henry Brandhorst**, Carbon-Free Energy, LLC

Friday Oct. 18 2019

SSP – S7 (9:00 – 10:30) *Tutorial*

Localization Technologies for Space – Part I; Reza Zekavat, WPI

SSP – S8 (10:45 – 12:00) *Tutorial*

Localization Technologies for Space – Part II; Reza Zekavat, WPI