

Thursday, September 22, 2011

7:30 Breakfast

Session IX
Solar Arrays Technology
Session Chair: Jeremiah McNatt

8:10 **Advanced PV Technology for Future NASA Missions** (Carolyn Mercer/NASA GRC)

8:40 **Advanced Solar Array Technology** (Dave Murphy/ATK Aerospace Systems)

9:00 **DSS Technologies for NASA's Space Science and Exploration Applications** (Brian Spence/Deployable Space Systems)

9:20 **High Power Solar Array Development at Boeing** (Azam Arastu/Boeing Space & Intelligence Systems)

Session X
Technology Development for NASA-Unique Missions
Session Chair: Dave Wolford

9:40 **High Intensity High Temperature Evaluation of Solar Probe Plus Materials and Devices** (Mark Stan/Emcore)

10:00 **Development of a 250 Watt Thermal Radioisotope Thermophotovoltaic Power System** (Richard Kaszeta/Creare, Inc.)

10:20 – 10:40 Break

10:40 – 11:10 Workshop Summaries

Session XI
Advanced Concepts for Solar Power Devices
Session Chair: Geoffrey Landis

- 11:10 **Thin-Film Quantum Well Waveguide Solar Cells** (Roger Welser/Magnolia Solar)
- 11:30 **An Approach to Down-Conversion Solar Cells** (Mark Spitzer/Photonic Glass Corp.)
- 11:50 **Guided Assembly of Nanodots Through Selective Laser Heating**
(HaeyeonYang/South Dakota School of Mines and Technology)
- 12:10 **Computational Modeling of Mechanical/Thermal/Electrical Properties of Carbon
Fibers/Polymer Composites** (Zhong Hu/South Dakota State Univ.)
- 12:30 Closing Statements, Conference Ends