

AGENDA

NSF I/UCRC Next Generation Photovoltaics Balance of Systems Planning Meeting
Texas A&M University Campus, College Station, TX
June 23-24, 2015

June 23

- 7:30 am Participant Registration (*Rudder Tower 401*)
- 7:30 - 8:00 am Breakfast (Continental) and Networking Time
- 8:00 - 8:05 am *Welcome*
- 8:05 - 8:20 am *Introduction*
Dr. Miroslav M. Begovic, Department Head, Electrical and Computer Engineering,
Texas A&M University and President of the IEEE Power and Energy Society
- 8:20 - 8:50 am *The NSF Industry/University Cooperative Research Center (I/UCRC)*

Dr. Barry Johnson, Division Director, Division of Industrial Innovation and
Partnerships, National Science Foundation

Dr. David Meyer, NSF Evaluator, Boise State University
- 8:50 - 9:10 am *Vision and Accomplishments of the Next Generation Photovoltaics I/UCRC*

Dr. W. S. Sampath, Deputy Director, Next Generation Photovoltaics Center;
Professor in Mechanical Engineering, Colorado State University
- 9:10 - 10:00 am *Vision, Capabilities and Value Proposition of the Texas A&M Site*

Dr. Robert S. Balog, TAMU site co-Director, Next Generation Photovoltaics Center;
Director, Renewable Energy and Advanced Energy Systems Research Laboratory,
Associate Professor, Department of Electrical & Computer Engineering, Texas A&M
University

Dr. Russell Porter, TAMU site co-Director, Next Generation Photovoltaics Center;
Associate Provost/Associate Vice President for Graduate Studies and Research
Chief Research Officer/Professor of Business - Texas A&M University-Central
Texas
- 10:00 - 10:15 am BREAK and Networking Time

- 10:15 - 12:00 pm Project Proposal Presentations
1. *PV/BOS Policy Assessment and Regulatory Opportunities*, Dr. Arnold Vedlitz
 2. *Inception to Implementation*, Dr. Russell Porter
 3. *Model-Based Design and Engineering of PV, A System-Oriented Approach*, Dr. Richard Malak
 4. *Optimization of PV System Design and Architecture*, Dr. Bimal Nepal
 5. *Power Electronics for Non-Planar PV Systems*, Dr. Robert Balog
- 12:00 - 12:45 pm LUNCH and Keynote Address
- Corporate Relations and Commercialization – Texas A&M Engineering Experiment Station*, Charles “Chip” Hill, Director, Corporate and Government Initiatives Office of Corporate Relations, Texas A&M Engineering Experiment Station (TEES)
- Innovation Ecosystem – The Research Valley Partnership*, Todd McDaniel, President/CEO, The Research Valley Partnership, Inc.
- 1:00 - 3:20 pm Project Proposal Presentations
6. *Arc fault / Arc Flash Detection in PV DC and AC Wiring*, Dr. Robert Balog
 7. *Thermal Management of Integrated PV Systems*, Dr. Jorge Alvarado
 8. *Optic Clarity to Improve Solar Collection and Costs*, Dr. Stephen McNett
 9. *Material Selection and Corrosion Mitigation for PV Systems*, Dr. Hong Liang
 10. *Supply Chain Optimization and Distribution Channel Strategies*, Dr. Ismail Capar
 11. *Hybrid Energy Systems: PV + Storage*, Dr. Robert S. Balog
 12. *SolarAgs Smart Phone App*, Dr. Robert Balog
- 3:20 - 3:30 pm BREAK and Networking Time
- 3:30 - 5:00 pm *Industry Workshop* - discussion of projects & company needs NOT addressed in the research project presentations
- 5:00 – 5:15 pm *Review of Evening and Day 2 Activities*
Dr. Robert S. Balog
- 5:30 – 7:30 pm *Technical Forum and Dinner: Poster Session and Networking*
(Rudder Tower University Club, North/East room)

NOTE: lunch and dinner will include vegetarian-friendly selections.

June 24

- 7:30 - 8:00 am Arrival and Breakfast (Continental) (*Rudder Tower 401*)
- 8:00 - 8:10 am *Welcome*
Dr. James Abbey, Director for Global and Corporate Partnerships, Office of
Research, The Texas A&M University System
- 8:10 - 9:30 am *Feedback from Industry Workshop* (Industry Moderated)
- 9:30 - 11:00 am *LIFE FORM review and Discussion* (NSF moderated)
- 11:00 - 11:30 am *NSF Closed Session with Industry*
- 11:30 - 12:00 pm *Summary & Closing Remarks*
Dr. Robert S. Balog
Dr. Russell Porter

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--- OPTIONAL ---

- 12:00 - 1:00 pm Lunch and Networking – on your own
(suggest MSC food court next door to meeting location)
- 1:00 pm Optional Tours

Technical:

- Renewable Energy & Advanced Power Electronics Lab
- Engineering Research Building

Social:

- George Bush Presidential Library
- TAMU campus walking tour