

**WTEC Final Workshop on  
Systems Engineering for Clean & Renewable Energy Manufacturing (SEEM)**  
NSF, Stafford I, Room 580, March 14, 2013

**Preliminary Agenda**

**Webcast:** <http://www.tvworldwide.com/events/nsf/130314/>

- 8:30 - 9:00      Registration
- 9:00 - 9:20      **Introductions & Welcoming Remarks**  
*George Hazelrigg, Acting Division Director, CMMI Division,  
National Science Foundation  
R. D. Shelton, World Technology Evaluation Center*
- (Each presentation leaves 5min for Q&A)*
- 9:20 - 9:55      **Executive Summary**  
*Matthew Realff (Panel Chair), Georgia Institute of Technology*
- 9:55 - 10:30    **PV and Solar-thermal**  
*Ryne Raffaelle, Rochester Institute of Technology*
- 10:30 - 10:40    Coffee Break
- 10:40 - 11:25    **Biomass to Biogas and Biofuels**  
*Wayne Curtis, The Pennsylvania State University*
- 11:25 – 12:00    **Manufacturing**  
**Europe:** *Delcie Durham, University of South Florida and*  
**Asia:** *Jian Cao, Northwestern University*
- 12:00 - 13:00    Lunch Break
- 13:00 - 13:35    **Wind and Wave**  
*Matthew Realff, Georgia Institute of Technology*
- 13:35 - 14:10    **Systems Engineering**  
*Abhijit Deshmukh, Purdue University (presented by Paul Collopy)*
- 14:10 - 14:30    Coffee Break
- 14:30 - 15:00    **Education**  
*Paul Collopy, National Science Foundation*
- 15:00 - 15:30    **Q&A and General Discussion**  
*All panel*
- 15:30-4:00      **Conclusions and Closing Statements**  
*Matthew Realff, Georgia Institute of Technology*