Tuesday, January 20
Informal Gathering
6pm-8pm: Drinks/Dinner on your own dime at the Raleigh Marriott City Center

Wednesday, January 21
Hunt Library, Duke Energy Hall and Room 4106

8:00am Sign In/Coffee and Light Breakfast (Duke Energy Hall D)

Institute Business: Open ONLY to members and government

8:30am Call to Order and Opening Remarks (Room 4106)
Dennis Kekas, Associate Vice Chancellor, Partnerships and Alliances
Mladen Vouk, NC State University, Interim Vice Chancellor, Research, Innovation and Economic Development
Kathleen Hogan, US Department of Energy, Deputy Assistant Secretary for Energy Efficiency
Nick Justice, NC State University, Executive Director, PowerAmerica

8:45am – 10:15am Institute Business (Room 4106)
1) Big Picture: overview organization of institute, finances.
2) Overview on roadmap and strategic planning process future RFP processes.
3) Overview on workforce/education development
4) Reporting requirements
5) Question and answer session

10:15- 10:30 Break (Duke Energy Hall D)

Academic Project Presentations: Open to All Registrants

10:30-12:30pm Academic Member Presentations (Room 4106)

Introduction/Overview from DoE, Anant Agarwal, Technology Manager

WBG Devices and Fabrication
Jay Baliga (NC State)
Umesh Mishra (University of CA, Santa Barbara)
Veena Misra (NC State)
Srabanti Chowdhury (Arizona State University)

WBG Power Electronic Applications
Iqbal Husain (NC State)  
Fred Lee (Virginia Tech)  
Helen Li (Florida State University)  
Raja Ayyanar (Arizona State University)  
Srdjan Lukic (NC State)  
Subhashish Bhattacharya (NC State)

12:45-1:45pm Lunch (Open to All Registrants) (Duke Energy Hall ABC)  
Remarks from:  
Louis Martin-Vega, Dean, College of Engineering  
John Gilligan, Executive Associate Dean, College of Engineering  
Dan Stancil, Department Head, Electrical and Computer Engineering

**Industry Member Presentations: Open to All Registrants**

2:00 – 6:00  
Industry Member Presentations (Room 4106)

**WBG Devices and Fabrication**  
CREE  
Monolith  
USCi  
ABB  
X-FAB  
Transphorm  
Qorvo (RFMD)  
NRL

4:00 - 4:15  
Break (Duke Energy Hall D)

**WBG Power Electronic Applications**  
John Deere  
NREL  
Delphi  
Vacon  
Toshiba  
APEI  
Lockheed Martin

6pm – 8pm  
Reception/Mixer (Open to All Registrants) (Duke Energy Hall ABC)  
Heavy hors d’oeuvres

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**Thursday, January 22**  
**Springboard and Monteith Research Center**
8am - 12pm  
One-on-One sessions with DoE/PowerAmerica (Springboard - Poplar)  
**By appointment only**  
The goals of the one-on-one meeting are to address member concerns in a private setting, share technical information, or to answer prospective member questions about PowerAmerica.

9am – 12pm  
Roadmapping and Strategic/ RFP Planning (MRC 136)  
**Institute members and government only**  
Panel session with three to four experts presenting 4 or 5 slides, followed by general discussion on road mapping priorities.

- **9:00 - 9:30**  
  Review of Market Forces and Status of WBG semiconductors  
  (Anant Agarwal, Umesh Mishra, Chris Dries)

- **9:30 – 10:00**  
  Roadmap for WBG Devices and Foundries  
  (Jay Baliga, John Palmour, Lloyd Whetzel, David Sheridan)

- **10:00- 10:30**  
  Roadmaps for Commercial Applications  
  (Subhashash Bhattacharya, Monty Hayes, Brij Singh)

- **10:30- 11:00**  
  Roadmap for Packaging, Manufacturing, Reliability, Improved Design Capability  
  (Doug Hopkins, Ty McNutt, Tom Byrd)

- **11:00- 11:15**  
  Non-Technical Strategic Planning, Branding Communications  
  (Deana Burke, Jonathon Cohen, Agency of Trillions)

- **11:15- 11:30**  
  Discussion

- **11:30- 12:00**  
  Strategic planning process, timeline, RFP suggestions, Discussion  
  (Nick Justice, John Muth, Anant Agarwal)

9am – 12pm  
Workforce Education Development (Springboard - Executive)  
**Open to All Registrants**

- **9:00 – 9:05**  
  Introduction and Overview – Nick Justice/PowerAmerica Executive Director

- **9:05 – 9:25**  
  Impact of WBG Technology (John Hardin/Director, NC Office of Science, Technology, and Innovation)

- **9:25 – 9:45**  
  Branding and Communication Efforts for the Manufacturing Innovation Institutes  
  (Deana Burke, Jonathon Cohen, Agency of Trillions))

- **9:45 - 10:45**  
  PowerAmerica Workforce and Education Development Program  
  (Pam Carpenter/NC State)  
  - Electric Power Systems Engineering WBG Concentration  
    - Discussion
• Prioritizing Educational Efforts: Community colleges, Undergraduate courses/program, Graduate Education, K-12 STEM, Veterans, Outreach efforts
  – Discussion
• Role of MEPs, ATEs, and planned activities
  – Discussion
• Industry participation: Curriculum Development, Internships, and short courses.
  – Discussion
• Value of PSM
  – Discussion

10:45 – 11:00 Break
11:00 - 11:30 Economic Development Impact of Workforce Training Efforts
  (Christa Wagner-Vinson/Research Triangle CleanTech Cluster)

12pm -1pm Box Lunch/Grab and Go, or stay and chat….
  (Springboard – Executive)

2:00 – 4:30pm Additional one on one sessions with DOE/PowerAmerica
  By Appointment Only