Workshop on “Robust Wide Bandgap (WBG) Semiconductor Power Electronics”
Hosted by University of Maryland, College Park, MD

October 23, 2012 │ A. James Clark School of Engineering, Kim Bldg., Kay 1 & Kay 2 Conference Rooms

Co-organizers: Dr. Krishna Shenai, Argonne National Laboratory
Dr. Aris Christou, University of Maryland – College Park

7:30 – 8:30 Registration & Continental Breakfast

8:30 – 8:40 Welcome Remarks
Dr. Darryl Pines, Dean of Engineering, University of Maryland – College Park

8:40 – 8:50 Workshop Objectives
Mr. Edward Daniels, Argonne National Laboratory

8:50 – 9:00 WBG Manufacturing Challenges
Dr. Krishna Shenai, Argonne National Laboratory

9:00 – 9:15 National Manufacturing Initiative
Dr. John Christensen, AMNPO

9:15 – 9:30 ARPA-E Projects in WBG Power Devices
Dr. Mark Johnson, ARPA-E

9:30 – 9:45 SiC Power Devices for Navy Applications
Dr. Tim McCoy, Electric Ships Office, US Navy

9:45 – 10:00 OSD/Army/Navy SiC ManTech Program
Dr. Charles J. Scozzie, Army Research Labs, Adelphi, MD

10:00 – 10:15 Coffee Break

10:15 – 12:00 Industry Panel: WBG Devices and Modules
Panel Moderator: Dr. Krishna Shenai, Argonne National Laboratory

Karim Boutros, Hughes Research Labs
Bobby Brar, Teledyne Scientific & Imaging
Remis Gaska, Sensor Electronics Technology, Inc.
James E. Gillberg, Fairchild Semiconductor
David Grider, Cree Inc.
Kevin Haddad, Semikron Inc.
Fritz Kub, Naval Research Labs
Aivars Lelis, Army Research Labs, Adelphi
Scott Leslie, Powerex Inc.
Mike Mazzola, Semisouth Labs
Peter Sandvik, GE Global Research
Victor Veliadis, Northrop Grumman Electronic Systems

12:00 – 1:00 Group Photo & Box Lunch
1:00 – 2:00  **Industry Panel: WBG Materials**  
Panel Moderator: Dr. Paul Fuoss, Argonne National Laboratory

Kurt Gaskill, Naval Research Labs  
David Grider, Cree Inc.  
Mike Mazzola, Semisouth Labs  
Philip G. Neudeck, NASA Glen Research Center  
Gary Ruland, II-VI, Inc.  
T. S. Sudarshan, University of South Carolina

2:00 – 3:30  **Industry Panel: Power Electronics System Requirements**  
Panel Moderator: Dr. Aris Christou, University of Maryland – College Park

Dave Geary, Universal Electric Corp.  
Milan Jovanovic, Delta Products Corp.  
John P. Kajs, SAIC  
Andy Pinkos, Magna E-Car Systems  
Tom Watson, Johnson Controls – Power Solutions  
Vladimir Blasko, United Technologies Research Center  
Eugene Solodovnik, Boeing  
Edward T. Wagner, RCT Systems, Inc.  
Wei Yang, Honeywell

3:30 – 3:45  **Coffee Break**

3:45 – 4:30  **WBG Manufacturing Consortium – Group Discussion**  
Moderator: Dr. John Hryn, Argonne National Laboratory