



## Call for Application - IEEE ECCE 2014 Student Project Demonstration on Emerging Technology

Time: 4 PM – 6:30 PM, Sep. 15, 2014 and 12 PM – 2 PM, Sep. 16, 2014

Venue: Exhibition Hall of ECCE 2014, Pittsburgh, PA, USA

IEEE ECCE 2014 Committee on Student Activities and the IEEE Power Electronics Society (PELS) Technical Committee on High-Performance and Emerging Technologies (TC6) are glad to announce the Student Project Demonstration on Emerging Technology Program in 2014. Since 2011, ECCE has introduced student hardware demo event for students to showcase their research outcomes and interact with academia and industry. Of particular importance, this event has established a social network among students from different universities and countries, which has received good responses from academia and industry. Since 2013, IEEE PELS TC6 has sponsored the hardware demo event to jointly promote the event to be a student project demonstration on emerging technology program. Three student project demonstration will be recognized as follows:

### Student Project Demonstration on Emerging Technology Award

**1<sup>st</sup> Prize (A certificate and a cash award of \$500)**

**2<sup>nd</sup> Prize (A certificate and a cash award of \$200)**

**3<sup>rd</sup> Prize (A certificate and a cash award of \$200)**

The videos of the three winners' experiments may be posted on ECCE 2014 website.

### Topics of Interest

Topics of interest include, but are not limited to: energy harvesting, 3D power electronics integration, wireless power transfer, high temperature power electronics, ultra-efficient and high power density converters and inverters, emerging semiconductor devices (e.g., SiC, GaN) and their applications in power electronics, emerging solutions for passive component applications in power electronics, high reliability power electronic components and converters, emerging power electronic applications, etc.

### Important Dates

**July 20, 2014**                      Deadline of application form (as attached or download) submission

August 01, 2014                Notification of acceptance or rejection

September 01, 2014        Deadline of report submission for accepted projects (max. 3 pages)

### Important Information

- **Submissions: via email to Dr. Hui Li [hli@caps.fsu.edu](mailto:hli@caps.fsu.edu) and Dr. Robert Pilawa [pilawa@illinois.edu](mailto:pilawa@illinois.edu)**
- Eligibility: all the university students who paid the ECCE 2014 student registration fee.
- Form of demonstration - the students are recommended to demonstrate projects by prototypes and videos recorded at home universities, together with slides, posters, etc. Individual demo space of 5' wide by 10' deep and power cord and plug will be provided in the ECCE 2014 exhibition hall. It should be noted that on site experiments are NOT allowed due to safety concern. Any participant who runs experiments at ECCE 2014 will be disqualified.
- Relevant cost: individual demo space and power cord and plug will be free of charge. Participated students must take care of any other relevant costs (e.g., prototype, hardware shipping, etc.).
- Evaluation criteria: project report (20%) and project demonstration (80%), assessed by a judge panel from the five aspects on creativity and originality, engineering design, value/potential to practical applications, presentation and demonstration, general effectiveness and audience appeal.

### Contacts

ECCE 2014 Committee on Student Activities: Dr. Hui Li (Email: [hli@caps.fsu.edu](mailto:hli@caps.fsu.edu))

IEEE Power Electronics Society TC6 Award Chair: Dr. Robert Pilawa (Email: [pilawa@illinois.edu](mailto:pilawa@illinois.edu))