

ITEC Global Series

- **ITEC North America (60% PELS, 20% IAS, 20% PES)**
 - ITEC'12: June 18-20, 2012, Dearborn, MI, USA
 - ITEC'13: June 16-19, 2013, Dearborn, MI, USA
 - ITEC'14: June 15-18, 2014, Dearborn, MI, USA
 - ITEC'15: June 14-17, 2015, Dearborn, MI, USA
 - ITEC'16: June 27-29, 2016, Dearborn, MI, USA
 - ITEC'17: June 26-28, 2017, Navy Pier, Chicago, IL, USA
- **ITEC Asia & Pacific (36% IAS, 12% PELS, 12% PES, 40% Others) – Led by IAS**
 - Aug. 31 – Sept. 3, 2014, Beijing, China
 - June 1-4, 2016, Busan, Korea
 - August 2017, Harbin, China
- **ITEC India & Middle East – Led by IAS in Partnership with SAEINDIA**
 - Aug. 27 – 29, 2015, Chennai, India

ITEC 2016: June 27-29, 2016

- **12 Keynotes Speakers**

- **Kevin Layden, Ford Motor Company**
- **Dr. John M. Miller, Momentum Dynamics Inc.**
- **Dr. Konstantinos Laskaris, Tesla Motors Inc.**
- **Greg Hubbard, General Motors**
- **Dr. Glen Steyer, Executive Director, AAM**
- **Dr. Seung-Ki Sul, Seoul National University**
- **Dr. Waleed Said, Efficient Power Tech Solutions, LLC**
- **Dr. Jason R. Wells, PC Krause and Associates**
- **Dr. Peter Friedrichs, Infineon**
- **Gary Parker, Cummins Inc.**
- **Jack Chapman, General Dynamics Electric Boat**
- **Dr. Alireza Khaligh, University of Maryland at College Park**

ITEC 2016: June 27-29, 2016

- **5 Professional Training Courses**
 - **Mechanical Design of Electric Machines, Dr. Wei Tong, Kollmorgen Corp.**
 - **Accelerated Lifetime Testing for Power Electronic Modules, Marc Tullmann, Infineon Technologies AG**
 - **An Introduction to Functional Safety for Electrified Powertrains, Jody Nelson, kVA**
 - **Design Through Simulation of an Interior Permanent Magnet Machine and Controller, David Farnia, JMAG and Dakai Hu, Mathworks**
 - **Wireless Power Transfer Systems, Madhu Chinthavali and Omer Onar, Oak Ridge National Laboratory**
- All courses are approved for IEEE CEU Credits**

ITEC 2016: June 27-29, 2016

▪ 3 Tutorials

- **Smarter Drives Need Smarter Development – Case Study of the Design-V Applied to Power Electronics, Gernot Pammer, Egston-Austria; Ben Black, National Instruments; Jean Belanger, Opal-RT Technologies**
- **Electric Motor Noise Modeling, Dr. Debbie Reeves, MSC Software Corporation**
- **High Speed Flux-Switching Permanent Magnet Machine and Comparison with Other Types of PM Machines, Dr. Bulent Sarlioglu, Wisconsin Electric Machines and Power Electronics Consortium**

All tutorials are approved for IEEE CEU Credits

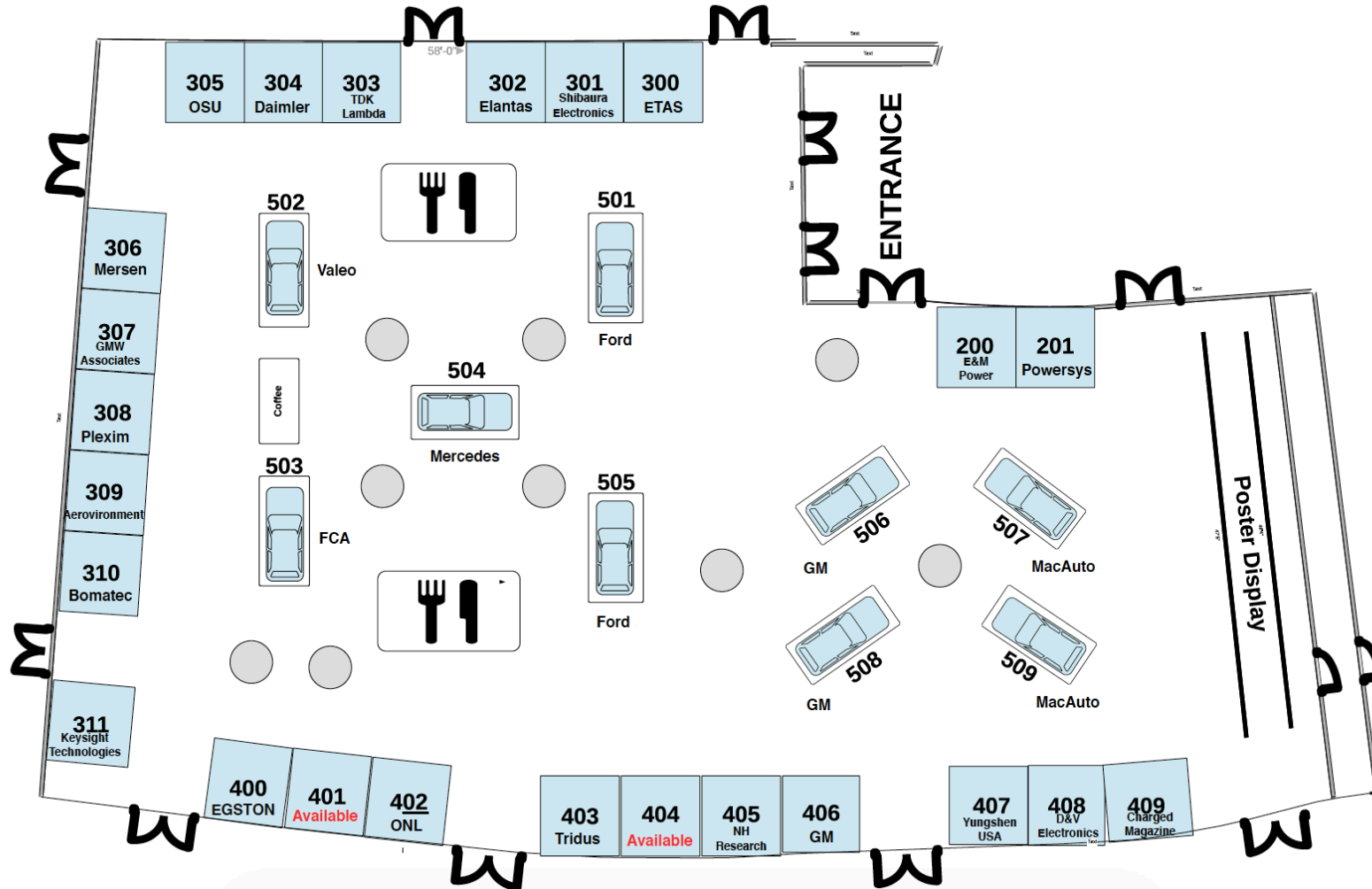
ITEC 2016: June 27-29, 2016

▪ 9 Panel Discussions

- **Transmissions in Electrified Propulsion Systems**
- **Opportunities and Challenges in Autonomous Vehicles**
- **NVH Performance in Electrified Powertrain Systems**
- **The Past and the Future of Electrified Vehicle Industry**
- **Advancements in Charging and Wireless Charging Technologies**
- **SiC Power Devices in Automotive Traction Inverters – Are there any remaining hurdles?**
- **Advancements in Traction Motor Winding Technologies**
- **Electrified Transportation as a Power Grid Resource**
- **Cybersecurity Issues in Electrified Transportation: Towards Standards Needs**

ITEC 2016: June 27-29, 2016

- Exhibition is sold out



ITEC 2016: June 27-29, 2016

- **General Chair: Berker Bilgin, MacAUTO, McMaster University**
- **General Co-Chairs:**
 - **John Gibson, Fiat Chrysler Automobiles**
 - **Nitin Patel, General Motors**
 - **Anand Sankaran, Ford Motor Company**
- **Program Chair: Omer C. Onar, Oak Ridge National Laboratory**
- **Program Co-Chair: Xiaodong Shi, Mercedes-Benz R&D**
- **Panels Chair: Beijing Wang, Fiat Chrysler Automobiles**

ITEC 2015 Highlights

- **12 Keynote Presentations (Ford, AVL, E-Motors Consulting, Boeing, Ohio State University, Newcastle University, Halla Mechatronics, LG Chem, Oak Ridge National Lab, University of Illinois, MacAUTO, WEMPEC)**
- **EV/HEV Educational Boot Camp (5 Half-Day Short Courses and 4 80-minute Tutorials); Continuing Education Credits from IEEE available to short course attendees**
- **10 Technical Tracks; 20 Track Chairs/Co-Chairs**
- **11 Panels**
 - **55 Panel Presentations**
 - **50 Panelists from Industry, Academia and Government**

ITEC Asia & Pacific 2016 Highlights

- **4 Keynote Presentations (LG Electronics, Hyundai Motors, Korea Institute of Machinery and Materials, Korea Advanced Institute of Science and Technology)**
- **2 Tutorial**
- **10 Technical Tracks**
- **Panel Presentation**
- **211 Attendees**

2015 ITEC India Summary

- **No. of papers presented** **79**
- **No. of Participants** **377**
- **No. of Pre Conference Tutorials** **2**
- **No. of Panel Discussion** **3**
- **No. of Keynote Speeches** **5**
- **IEEE Young Professional Program**
- **Industrial Expo**

- *Event sponsors include Automotive Research Association of India (ARAI), Ansys, Altair Engineering, Bosch, Continental Automotive Components India, MathWorks and Siemens.*

IEEE Transactions on Transportation Electrification (TTE)

- Led by PELS (45% Financial Co-Sponsor)
- IEEE Power Electronics Society (PELS) – 45%
- IEEE Industry Applications Society (IAS) – 30%
- IEEE Power & Energy Society (PES) – 15%
- IEEE Vehicular Technology Society (VTS) – 10%
- IEEE Industrial Electronics Society (IES) – Technical Co-Sponsor
- IEEE Reliability Society (RS) – Technical Co-Sponsor

IEEE Power Electronics Society CALL FOR WEBINAR SPEAKERS - 2016

IEEE Power Electronics Society is pleased to announce **PELS** Webinar Library, which is open to all **PELS** members as a membership benefit. The **PELS** Webinars can be viewed live with free registration. After the event is over, the link to the video of the webinar will be available through the **PELS** Webinar Library: <http://www.ieee-pels.org/products/pels-webinars>. This library will allow you access to tutorials from power electronics experts from all over the world at your convenience, anywhere you are on the computer or mobile device of your choice.

The webinars' scope will include all fields of interest of the IEEE **PELS** which include the development and application of power electronics technology, which encompass the effective use of electronic components, the application of circuit theory and design techniques, and the development of analytical tools toward efficient electronic conversion, control, and conditioning of electric power. Specific topics include (but not limited to)

- AC-DC converters
- DC-DC converters
- Power Electronics for Utility Interface
- Inverters
- Semiconductor Devices
- Passive Components
- Modeling, Simulation, and Control
- Packaging
- Thermal Management

Open for Submissions:

PELS Webinars are open for webinar submissions to anyone from the power electronics industry who are interested in sharing their experiences with the rest of the IEEE **PELS** community. Each Webinar is for 20 minutes followed by a 10 minutes Q&A.

To submit a proposal, please submit the names, the contact information, and short bios of the presenters, the title and a half a page abstract of the proposed subject to the Digital Media Editorial Committee enjeti@tamu.edu and b.boresen@ieee.org. Please note that the webinars are designed to have a 20-minute presentation and 10-minute Q&A session.

PELS Technical Committee on Vehicle and Transportation Systems

- **Chair: Dr. Anand Sathyan**
- **Vice-Chairs: Dr. Alireza Khaligh
Dr. Bulent Sarlioglu**
- **Secretary: Dr. Mahesh Krishnamurthy**
- **Standards Industry Liasion Chair: Dr. Young-Joo Lee**