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Electric Drive Vehicles Workshop Proceedings

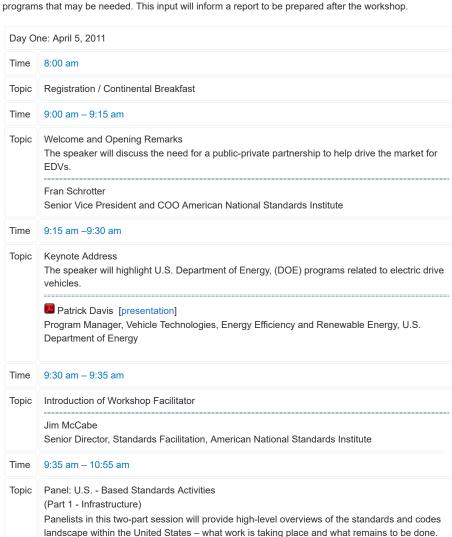


April 5-6, 2011

9:00 am – 5:00 pm Bethesda North Marriott 5701 Marinelli Road Bethesda, MD 20852

This two-day workshop considered the codes, standards, and related conformity assessment programs needed to facilitate the successful introduction and widespread acceptance and deployment of light-, medium-, and heavy-duty on-road electric drive vehicles (EDVs) – vehicles that must be connected to the electric grid for recharging of their propulsion energy storage systems, which in most cases will be batteries. The workshop was convened on behalf of the U.S. Department of Energy (DOE) and the Idaho National Laboratory (INL).

Participants worked collaboratively through presentations, Q&A, and breakout discussions to identify the issues, determine where there are gaps, and make recommendations for additional standards and programs that may be needed. This input will inform a report to be prepared after the workshop.





With audience Q&A. Topics will include:

- DOE perspective on the standards and codes landscape for electric drive vehicles
- ▶ IEEE P2030.1, Guide for Electric-Sourced Transportation Infrastructure Working Group and IEEE 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems
- The Smart Grid Interoperability Panel Priority Action Plan 11 and V2G Domain Experts Working Group
- Knitting together the codes and standards for the electric vehicle infrastructure an industry perspective

Facilitator:

Fred Hansen Ph.D.

Program Manager Energetics

Panelists:

Lee Slezak [presentation]

Manager, Vehicle Systems Vehicle Technologies Program U.S., Department of Energy

Thomas S. Basso [presentation]

Senior Engineer, National Renewable Energy Laboratory

■ Vishant Shah [presentation] Consultant EnerNex Corp.

Alan Manche P.E. [presentation]

Director, Industry Standards Schneider Electric

Time 10:55 am - 11:10 am

Topic Networking Break

Time 11:10 am -12:30 pm

Topic Panel: U.S. - Based Standards Activities

(Part 2 - Vehicle)

With audience Q&A. Topics will include:

- SAE International standards work, including communication protocols and connectors, fast charge, batteries
- UL standards activity including charging equipment; batteries
- Report of SAE / NFPA electric vehicles safety standards summit including vehicle charging infrastructure; battery hazards identification and fire protection; training for emergency first responders and enforcement officials
- Battery abuse fire testing within SAE J2464

Facilitator:

Fred Hansen Ph.D.

Program Manager Energetics

Panelists:

Jack Pokrzywa [presentation]

Director, Ground Vehicle Standards, SAE International,

Kenneth Boyce, P.E. [presentation]

 ${\tt PDE\ Manager-Energy\ Underwriters\ Laboratories,\ Inc.},$

Christian Dubay, P.E. [presentation]

Vice President and Chief Engineer, National Fire Protection Association

Rich Byczek [presentation]

Site Manager, Intertek

Time 12:30 pm - 1:30 pm

Electric Drive Vehicles Workshop Proceedings Topic Lunch Time 1:30 pm - 3:00 pm Panel: International Standards Landscape Topic Panelists will provide high-level overviews of current and future standards development initiatives in the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC), including the IEC-e8 strategic roundtable on electric vehicles, and in the European and Asia-Pacific markets. With audience Q&A. Topics will include: IEC-e8 strategic roundtable on electric vehicles The CEN-CENELEC Focus Group on European Electro Mobility EDV standards activity in China and Japan IEC/SC 23H on electrical connectors and IEC/TC 69 on charging equipment TABD initiative on electric cars and smart grid Facilitator: Frank Kitzantides Past Vice President, IEC, IEC Senior Technology Consultant Panelists: John Ketchell [presentation] Director, Innovation, CEN / CENELEC Management Centre Keith Hardy [presentation] Senior Technical Advisor, Argonne National Laboratory Gregory C. Nieminski, LLC, [presentation] Chair, IEC/SC 23H Kathrvn Hauser U.S. Executive Director, TransAtlantic Business Dialogue 3:00 pm - 3:15 pm Time Networking Break Topic 3:15 pm - 4:40 pm Time Topic Panel: Code, Conformance, and Training Issues Panelists will provide high-level overviews of code, conformance, and training issues. With audience Q&A. Topics will include: National Electrical Code (NEC) installation issues Potential NEC article 625 issues: listing and minimum enclosure rating requirements; electric vehicle supply equipment (EVSE) to building power connectivity for Level 2 and up; EVSE portability; branch protection and building wiring minimum sizing; EVSE charging cord topics; safety of chargers, plug-in connection, EVSE's personnel protection, and International Code Council (ICC) building, residential, fire and green construction codes; training of code officials Advanced Electric Drive Vehicle Education Program Facilitator: Fred Hansen Ph.D. **Program Manager Energetics** Panelists: Mark Earley, P.E. [presentation] Chief Electrical Engineer, National Fire Protection Association Andrew Kriegman [presentation] Vice President, Business Development, Leviton Manufacturing Co., NEMA Electric, Vehicle

Supply Equipment Section

Bruce E. Johnson [presentation] Director of Fire Service Activities. International Code Council Al Ebron [presentation] Executive Director, National Alternative Fuels Training Consortium 4:40 pm - 5:00 pm Topic Wrap-Up Day One / Day Two Preparation Jim McCabe / Fred Hansen 5:00 pm -6:00 pm Time Networking Reception Topic Day Two: April 6, 2011 8:00 am Time Topic Registration / Continental Breakfast Time 9:00 am -9:15 am Topic Overview of Day / Breakout Group Assignments, (General Session) Fred Hansen Time 9:15 am -10:45 am Topic Concurrent Breakout Sessions Attendees will select one of three breakout groups to participate in: Vehicle Infrastructure Support services / other Each group will discuss / answer focus questions on: What are the standards issues of concern for the identified stakeholders? What standards and codes, conformance programs, and/or education programs are needed to address the key standards issues? What are the most important take-aways or messages for DOE? To augment the discussions, worksheets will be provided online and at registration so that participants may also record their answers in writing. Participants should think about which breakout group they want to participate in and consider writing down some of their answers to the questions ahead of time. Vehicle Group Facilitator: Ziga Ivanic, P.E. Heavy Truck Team Leader, Energetics Infrastructure Group Facilitator: Fred Wagner Program Director Energetics , Support Services / Other Group Support Services / Other Group Facilitator: Fred Hansen Ph.D. **Program Manager Energetics** Time 10:45 am - 11:00 am Topic Networking Break 11:00 am -12:30 pm Time Concurrent Breakout Sessions (continued) Topic

Electric Drive Vehicles Workshop Proceedings

Time	12:30 pm –1:30 pm
Topic	Lunch
Time	1:30 pm –3:00 pm
Topic	Breakout Group Reports (General Session)
	Fred Hansen et al.
Time	3:00 pm – 3:30 pm
Topic	Next Steps and Closing Comments
	Jim McCabe

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