Medium & Heavy Duty Vehicles 2
Thursday, November 9 – Room 103 B, 3:45 PM - 5:45 PM

- Hydrogen Fuel Cell Technology Truck, Bus, Specialty Vehicle Applications - Pete Devlin, DOE

  - The U.S. Department of Energy Fuel Cell Technologies Office (DOE) will present on fuel cell-powered motive products, including light-duty (LD) fuel cell electric vehicles (FCEVs) and material handling equipment (fuel cell MHE; and the research, development, and demonstration (RD&D) effort underway to build on this commercial success by integrating fuel cell technologies into other products and applications, including medium-duty (MD) and heavy-duty (HD) vehicles as well as port and marine applications.


  - The Hawaii Natural Energy Institute, Hawaii Center for Advanced Transportation Technologies, Federal Highways Administration and the National Park Service continue preparation to demonstrate the operation of Fuel Cell Electric Buses (FCEB) in the harsh environmental conditions at Hawaii Volcanoes National Park. The overall methodology followed, operational protocols developed and preliminary performance data for this project will be presented.

- Life Cycle Assessment as a Methodology to Evaluate the Transition to Zero Emission Bus Fleets - Analy Castillo, UCI - Advanced Power and Energy Program (APEP)

  - This presentation demonstrates how extended LCA methodology is employed as a tool to assist in the decision-making when transitioning to zero-emission bus fleets.


  - This paper will present the results of a study done on different routes and conditions and the advantages of such hybrid powertrain for heavy duty vehicles.


  - This paper will present an overview of current commercialization of fuel cell buses worldwide as well as some of the opportunities and challenges faced by the industry.

- The Demand for Hydrogen and Hydrogen Infrastructure from Medium- and Heavy-Duty Vehicles in California - Guozhen Li, University of California – Davis
This study investigates the potential demand of hydrogen fuel from MD/HD vehicles in California. We will design scenarios for MD/HD hydrogen fleets and aim to understand several research questions.