

Advanced Composite Materials for Cold and Cryogenic Hydrogen Storage Applications in Fuel Cell Electric Vehicles

Greenville Avenue Room
Omni Dallas Hotel
555 S Lamar St, Dallas, TX 75202

Thursday, October 29, 2015
8:00 AM – 12:30 PM

<http://www.thecamx.org/other-meetings-events/> (under “Co-Located Meetings” tab)

Organized by U.S. Department of Energy – Office of Energy Efficiency & Renewable Energy - Fuel Cell Technologies Office and Pacific Northwest National Laboratory

Workshop Agenda:

8:00	The DOE H ₂ Storage Program, Cold and Cryogenic H ₂ Storage and Workshop Objectives - Ned Stetson, DOE Fuel Cell Technologies Office
8:30	Panel Presentations and Discussions: Moderator – John Gangloff (DOE - FCTO) <ul style="list-style-type: none">• Ford Motor Company – Mike Veenstra• Pacific Northwest National Laboratory – David Gotthold• Lawrence Livermore National Laboratory – Gene Berry• Composite Technology Development, Inc. – Pat Hipp
10:00	Break
10:15	Breakout Session I – Mechanics and Materials <ul style="list-style-type: none">• Identifying constituent materials (i.e. fibers, resins, additives) that are recommended for cold / cryogenic temperatures with pressure cycling• Microstructural failure mechanisms at cold / cryogenic temperatures• Vacuum exposure on composite materials at cold / cryogenic temperatures• Durability and fatigue due to Coefficient of Thermal Expansion issues
11:15	Break
11:30	Breakout Session II – Processing, Characterization, and Analysis <ul style="list-style-type: none">• Composite manufacturing processes suitable for cold / cryogenic applications• Material characterization methods for part verification and validation• Safety codes and standards status for cold / cryogenic temperature composites• Modeling and analysis tools for cold / cryogenic temperature composites
12:30	Adjourn