

WORKSHOP AGENDA

U. S. Department of Transportation and U.S. Department of Energy
**Compressed Natural Gas and Hydrogen Fuels:
Lessons Learned for the Safe Deployment of Vehicles**

December 10-11, 2009 – Washington, DC

A workshop to promote exchange of information among experts on compressed natural gas and hydrogen fuels for vehicles and to share lessons learned from deployment of these vehicles in public transit, fleets, and consumer transportation throughout the world.

Workshop Objectives:

- To coordinate lessons learned by identifying similarities and critical differences between compressed natural gas and hydrogen properties, including CNG-H2 blends, and their industries and applications (e.g., product specifications, tanks, reliability, safety procedures, risk mitigation, and dispensing)
- Identify additional research to ensure safe use of onboard and bulk storage hydrogen and compressed natural gas tanks
- Enhance domestic and international harmonization between natural gas and hydrogen codes and standards requirements
- Collect feedback from demonstration activities and real-world applications
- Identify future workshops, briefings, educational and communication strategies, as well as collaboration opportunities

Location:

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Webinar and Teleconference Information

Teleconference Information:
Phone Number: 866.762.9101
Passcode: 72576

Webinar Information:

1. Go to
<https://vrtc.webex.com/vrtc/j.php?ED=3464008>
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Day 1 – Webinar Information
Meeting Number: 016 284 994
Meeting Password: h2
Host Key: 604992

DAY 2 – Webinar Information
Meeting Number: 016 499 453
Meeting Password: H2
Host Key: 142822

Thursday – December 10, 2009

08:30	WELCOME: Objectives and Expectations of Workshop <i>Mr. John Maddox, Associate Administrator for Vehicle Safety Research, NHTSA</i> US Department of Transportation (DOT) US Hydrogen Program Overview <i>Dr. Sunita Satyapal, Acting Program Manager, Hydrogen Program/Fuel Cell Technologies</i> US Department of Energy (DOE)
09:00	Keynote: CNG, H2, CNG-H2 Blend Fuels--Critical Fuel Properties and Behavior <i>Dr. Jay Keller, Sandia National Laboratories</i>
09:30	Question and Answer
09:45	Safety and Regulatory Structure for CNG, CNG-H2, H2 Vehicles and Fuels in India <i>Mr. Ambrish Mishra, Oil Industry Safety Directorate, Ministry of Petroleum and Natural Gas</i>
10:15	Question and Answer
10:30	BREAK
10:45	Safety and Regulatory Structure for CNG, CNG-H2, H2 Vehicles and Fuels in China <i>Professor Jinyang Zheng, Zhejiang University</i>
11:15	Question and Answer
11:30	Safety and Regulatory Structure for CNG, CNG-H2, H2 Vehicles and Fuels in the U.S. <i>Ms. Barbara Hennessey, US Department of Transportation</i>
12:00	Question and Answer
12:15	LUNCH
13:15	Successful Adoption of CNG and Emerging CNG-H2 Program in India <i>Mr. Narendra Pal, Research Scholar, University of Nevada, Reno</i>
13:45	Question and Answer
14:00	Lessons Learned from Practical Field Experience with High Pressure Gaseous Fuels <i>Mr. Douglas Horne, Clean Vehicle Education Foundation</i> <i>Mr. Rob Adams, Marathon Technical Services</i>
14:45	Question and Answer
15:00	Compressed Natural Gas and Hydrogen Tank Safety, R&D, and Testing <i>Mr. Joe Wong, Manager, Clean Transportation Engineering, PowerTech</i>
15:30	Question and Answer
15:45	BREAK
16:00	Panel Discussion: Current regulations, safety, lessons learned regarding CNG, H2, CNG-H2 vehicles and fuels <i>Previous speakers plus other representatives from India, China, US</i> Moderators: <i>Mr. Dennis Smith, US DOE</i> <i>Mr. John Maddox, US DOT</i>
16:45	Summary and Discussion of Day 1: Following up lessons learned Moderators: <i>Mr. Antonio Ruiz, US DOE</i> <i>Mr. John Hinch, US DOT</i>
17:00	Adjourn Day 1

Friday – December 11, 2009

08:30	Welcome, Objectives of Day 2 <i>Mr. Antonio Ruiz, US DOE</i>
08:45	Keynote: Overview of Key Safety Issues and Concerns for Hydrogen Fuel <i>Mr. Dilip Chenoy, Director General, Society of Indian Automobile Manufacturers</i>
09:30	Question and Answer
10:00	Hydrogen Vehicles and Fueling Infrastructure in China <i>Professor Jinyang Zheng, Zhejiang University</i>
10:30	Question and Answer
10:45	Hydrogen Vehicles and Fueling Infrastructure in India <i>Professor L. M. Das, Indian Institute of Technology</i>
11:15	The Hydrogen Laboratory & The Brazilian Reference Center for Hydrogen Energy <i>Mr. Jim Ohi, US DOE Consultant</i>
11:30	Question and Answer
12:00	LUNCH
12:30	Hydrogen Vehicles and Fueling Infrastructure in the U.S. <i>Mr. John Garbak, US DOE</i>
13:00	Question and Answer
13:15	Panel Discussion: Next Steps to Increase Collaboration on Technical Issues and Needs and to Harmonize Regulations, Codes and Standards Moderators: <i>Mr. Nha Nguyen, US DOT</i> <i>Dr. Jim Ohi, consultant, US DOE</i>
14:15	Closing Remarks, Summary and Wrap-up of Workshop <i>Mr. Antonio Ruiz, US DOE</i> <i>Mr. John Hinch, US DOT</i>
14:30	Adjourn Workshop