

COMPRESSED & CRYO-COMPRESSED HYDROGEN STORAGE WORKSHOP

Tuesday, February 15, 2011 – Cryogenic Hydrogen Storage Systems

Purpose: Identify R&D needs and technical pathways associated with the continued development and validation of cryo-compressed and cryo-sorption hydrogen storage technologies, highlighting those aspects common to both technologies as well as identifying their unique requirements and issues that should be addressed.

8:30 **Welcome/Introductions/Workshop objectives/Recap of previous day**

Ned Stetson, DOE

9:00 **OEM Perspective on Cryogenic H₂ Storage** (20 min presentation/20 min discussion)

Tobias Brunner, BMW

9:40 **Performance Comparison and Cost Review** (20 min presentation/20 min discussion)

Rajesh Ahluwalia, ANL

10:20 *Break* (10 minutes)

10:30 **Expert Panel Discussion** (Members will each have 15 minutes for presentations)

- Cryo-Compression Systems Development Status
Salvador Aceves, LLNL
- Sorption Storage Technology Summary
Richard Chahine, UQTR Canada
- Cryogenic Tanks (CNG & H₂) Manufacturing Perspective
William Clinkscales, Structural Composites, Inc (invited)
- NASA Perspectives on cryogenic H₂ storage
David Chato, NASA-Glenn

12:30 *Lunch* (1 hour)

1:30 **Review of morning discussions** (10 minutes)

1:40 **Breakout sessions**

3:15 *Break* (15 minutes)

3:30 **Breakout session summaries**

4:00 **General discussion on research needs and technical pathways**

4:45 **Wrap-up**

5:00 *Adjourn*