

Agenda
Fuel Cells Summit VII
May 28-29, 2003
The Inn and Conference Center
University of Maryland

Day One – Wednesday, May 28

- 7:30 am** **Registration/Continental Breakfast – 1st Floor, Ft. McHenry & Founders Rooms**
- *Sign in and pick up your name badge*
- 8:00 am** **Welcome/Introduction**
- *Ron Jarnagin, Facilitator, Pacific Northwest National Laboratory*
- 8:15 am** **Expectations from the Meeting**
- *Neil Rossmeissl, U.S. Department of Energy*
- 8:30 am** **Format of the Meeting/General Information**
- *Ron Jarnagin, Facilitator, Pacific Northwest National Laboratory*
- 8:45 am** **The New U.S. Hydrogen Initiative and Solicitation**
- *John Garbak, U.S. Department of Energy*
- 9:15 am** **The DOE Fuel Cells/Hydrogen Program – Status of Ongoing Activities**
- *Neil Rossmeissl, U.S. Department of Energy*
- 10:00 am** **Break**
- 10:30 am** **The DOE Fuel Cells/Hydrogen Program – Domestic Codes and Standards**
- *Jim Ohi, National Renewable Energy Laboratory*
- 10:50 am** **The DOE Fuel Cells/Hydrogen Program – International Codes and Standards**
- *Cathy Gregoire-Padro, National Renewable Energy Laboratory*
 - *Bob Mauro, PATH*
- 11:10 am** **The DOE Fuel Cells/Hydrogen Program – Hydrogen Safety**
- *Bruce Kinzey, Pacific Northwest National Laboratory*
- 11:30 am** **Underground Storage of Cryogenic Hydrogen**
- *Thomas Joseph, Air Products*
- 12:00 pm** **Buffet lunch -- setup in Chesapeake Room**
- 1:30 pm** **The DOE Fuel Cells/Hydrogen Program - Communications**
- *Anne-Marie Borbely-Bartis, Pacific Northwest National Laboratory*
- 1:50 pm** **Roundtable Discussion of Application “Case Studies” – Stationary, Vehicular, and Refueling Station**
- *Ron Jarnagin, Pacific Northwest National Laboratory*
 - *Audience Participants*
- 3:00 pm** **Break**

Agenda
Fuel Cells Summit VII
May 28-29, 2003
The Inn and Conference Center
University of Maryland

Day One – Wednesday, May 28 (cont.)

- 3:30 pm** **“New Activities” Updates (ASME, CSA/NGV, SAE, UL, NFPA, CGA, ICC, Boeing, DOE)**
- *ASME Update: John Koehr, ASME International*
 - *Update will cover H2 residential/commercial systems; standard for weight-efficient tube trailers for transporting compressed H2; standards for portable & stationary H2 storage tanks independent of storage type; code cases for use of composite materials in stationary tanks; requirements and standards for H2 pipeline requirements; standard for measuring H2 mass flow.*
 - *CSA/NGV Update: Spencer Grieco, CSA America, Inc.*
 - *Update will cover standards for fueling station components; rules for connectors; fueling systems; TC 105.*
 - *SAE Updates: Ron Sims, Consultant, Gary Pollak, SAE, and Tony Androsky, U.S. Fuel Cell Council*
 - *Update will cover H2 cleanliness (fuel specification) and vehicle systems, including fuel delivery, reformers, emissions, recycling, service/repair, and communications; and ISO/IEC and WP-29 Activities for Global Harmonization of Vehicle Standardization.*
 - *UL Update: Harry Jones, Underwriters Laboratory*
 - *Update will cover standards for H2 dispensing with multiple fuels/single facility; H2 internal combustion engine standard for stationary generation; requirements for sensing and responding to H2 leaks; standard for portable fuel cells performance measurement.*
- 5:00 pm** **Adjourn to Reception -- Art Gallery, Lower Level Concourse**

Agenda
Fuel Cells Summit VII
May 28-29, 2003
The Inn and Conference Center
University of Maryland

Day Two – Thursday, May 29

- 7:30 am** **Continental Breakfast – 1st Floor, Ft. McHenry & Founders Rooms**
- 8:00 am** **General Announcements**
- *Ron Jarnagin, Facilitator, Pacific Northwest National Laboratory*
- 8:15 am** **Continuation of “New Activities” Updates (ASME, CSA/NGV, SAE, UL, NFPA, CGA, ICC, Boeing, DOE)**
- *NFPA Update: Carl Rivkin, NFPA*
 - *Update will cover the need for H2 fuel gas code.*
 - *NHA Update: Karen Miller, NHA*
 - *Update will cover ISO TC 197.*
 - *ICC Update: Dave Conover, ICC*
 - *Update will cover the ICC Hydrogen Ad Hoc Committee.*
 - *Boeing Aircraft Fuel Cell System Installation Activity Update: Mike Force, Boeing*
 - *Update will cover Boeing’s activity on the installation of a fuel cell system in aircraft and addressing the related federal aviation regulations that apply.*
 - *DOE Updates: Jay Keller, Sandia National Laboratories, and Al Vasys, Cambridge Associates*
 - *Update will cover development of the guide that identifies H2 compatible materials for pressure retaining equipment, and a report on H2 separation distances work underway at Sandia National Laboratories.*
- 10:00 am** **Interconnection Standards - IEEE CSS21 P1547 Series**
- *Jim Ohi, National Renewable Energy Laboratory*
- 10:10 am** **Break**
- 10:30 am** **Breakout Sessions/Gap Analysis**
- *Hydrogen -- Ft. McHenry & Founders Room*
Facilitator: Jonathan Hurwitch, Sentech, Inc.
 - *Discussion will be attendee driven. Topics initially identified as being high-priority include ISO TC-197 WG2: Tank Containers; ISO TC-197 WG5: H2 and H2 Blends Refueling; ISO TC-197 WG8: Water Electrolysis; Other: As determined by session participants.*
 - *Fuel Cells – 2nd Floor, Rooms 2101/2103/2105*
Facilitator: Ron Jarnagin, Pacific Northwest National Laboratory
 - *Discussion will be attendee driven. Topics initially identified as being high-priority include CSA FC4: Fuel Cell Modules; IEC TC-105 WG5: FC Installation; ISO TC-58: Tanks and Embrittlement; Other: As determined by session participants.*
- 12:00 pm** **Buffet lunch -- setup in Chesapeake Room**
- 1:30 pm** **Breakout Sessions (cont.)**
- *Hydrogen -- Ft. McHenry & Founders Room*
Facilitator: Jonathan Hurwitch, Sentech, Inc.
 - *Fuel Cells – 2nd Floor, Rooms 2101/2103/2105*
Facilitator: Ron Jarnagin, Pacific Northwest National Laboratory
- 3:00 pm** **Break**

Agenda
Fuel Cells Summit VII
May 28-29, 2003
The Inn and Conference Center
University of Maryland

Day Two – Thursday, May 29

3:20 pm Breakout Sessions (cont.)

- *Hydrogen -- Ft. McHenry & Founders Room*
Facilitator: Jonathan Hurwitch, Sentech, Inc.
- *Fuel Cells – 2nd Floor, Rooms 2101/2103/2105*
Facilitator: Ron Jarnagin, Pacific Northwest National Laboratory

4:45 pm Wrap-up and Closing Remarks

- *Neil Rossmeissl, U.S. Department of Energy*
- *Ron Jarnagin, Facilitator, Pacific Northwest National Laboratory*

5:00 pm Adjourn