

HydroVision July 31 -
2006 August 4, 2006



Seminars/Workshops

The Hydrogen Economy 2006

Monday, July 31 - Tuesday, August 1 • 8:30 a.m.-5:00 p.m.

Organized By:



- *Tapping Hydropower's Potential*
- *Synergies between the Power and Transportation Sectors*
- *West Coast Initiatives*

Co-chairs:

Jack Robertson, Chairman, Northwest Hydrogen Alliance

Carl Vansant, Editor-in-Chief, *Hydro Review*, HRW

The Hydrogen Economy 2006 conference focuses on practical opportunities of the much-discussed hydrogen economy and how they fit within the framework of ongoing research, development, and demonstration efforts. These include:

- Hydropower's potential for making a significant contribution to energy supply for hydrogen production.
- The potential for taking advantage of prospective synergies between systems that supply power and transportation fuel.
- North American West Coast initiatives that could play important roles.

Realistic pathways will be examined, with particular emphasis on how existing technologies can be mobilized. The conference will also identify gaps that need to be bridged through research, development, demonstration, and deployment activities.

PRESENTATION AGENDA

DAY 1 – Monday, July 31, 2006

The Hydrogen Economy: An Overview

Shannon Baxter-Clemmons, Hydrogen and Alternative Energy Advisor to the California EPA Secretary, State of California

Demonstration Projects Worldwide

Bill Leighty, The Leighty Foundation

Utsira: Norway's Hydrogen Powered Island

Knut Harg, Norsk Hydro Electrolysers

Great Plains Hydrogen: Tapping Wind Power

Mike Reese, University of Minnesota West Central & Outreach Center, Morris

The Role of Hydropower

Chris Head, Hydropower Consultant

Producing Hydrogen at the Itaipu Hydro Project in Brazil

Antonio Carlos Fonseca, Itaipu Binacional

Electrolyzers: A Critical Component

Knut Harg, Norsk Hydro Electrolysers

Hydrogen Today: The Market; Safety & Handling

Thomas Joseph, Air Products

Hydrogen Delivery Alternatives

John Holbrook, AmmPower LLC

Alternative Hydrogen Delivery: What is the Potential for Ammonia?

Dennis Johnson, Blue-Johnson & Associates

A Case Example of Hydropower Potential: The Inga Project in Africa

Emanuel Lubini, Westcor

Getting Real: Next Step Scenarios

John Gummer, Hydro-Consult Pty Ltd

DAY 2 – Tuesday, August 1, 2006

The Hydrogen Power and Transportation Vision

Jack Robertson, Northwest Hydrogen Alliance

Energy Policy Act of 2005: Implications and Opportunities

Preston Michie, Northwest Hydrogen Alliance

Fuel Cells: Where Are We Going...And When Will We Get There?

Jason Ganley, Howard University

West Coast Initiatives for Participation in the Hydrogen Economy

Jeff Morris, Northwest Energy Collaborative

Canadian Hydrogen Programs

Shannon Miles, CANMET Energy Technology Centre Natural Resources Canada

Transportation Sector Report

Paul Scott, ISE Corporation

Real-World Research and Testing: Producing and Using Hydrogen in Transportation

Jim Francfort, Idaho National Laboratory

Hydrorail: Low-Hanging Fruit of the Hydrogen Age?

Stan Thompson, Hydrogen Economy Advancement Team

Hydrogen's Technical Challenges

MODERATOR: **Ralph Cavanagh**, Natural Resources Defense Council

PANELISTS: **Bill Tumas**, Los Alamos National Laboratory; **Vic Cordell**, Hydrogen Engine Center, Inc.

Moving Forward: Getting Beyond Institutional Barriers, and Capitalizing on Economic Opportunities

MODERATOR: **Dan Rastler**, EPRI

PANELISTS: **Chris Head**, Hydropower Consultant; **Terry Brix**, International Polyols Chemical, Inc.

Registration:

HydroVision Registrants

Single Day	Before 7/16/06	\$115
	After 7/15/06	\$145
Both Days	Before 7/16/06	\$195
	After 7/15/06	\$245

Non-HydroVision Registrants

Single Day	Before 7/16/06	\$165
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Both Days	After 7/15/06	\$195
	Before 7/16/06	\$245
	After 7/15/06	\$295

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