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Fifth International Hydrail Conference

JUNE 11-12, 2009

HARRIS ALUMNI CENTER AT JOHNSON GLEN
THE UNIVERSITY OF NORTH CAROLINA CHARLOTTE

The Fifth International Hydrail Conference focuses on three featured subjects:

- ♦ mass carbon-free hydrogen production technologies to fuel hydrail trains and other vehicles;
- ♦ the economic importance of avoiding commitment to new externally powered rail lines - especially for streetcars; and
- ♦ hydrogen fuel cell streetcars: the hydrail and its revolutionary significance for urban transportation planning.



AGENDA

Thursday June 11, 2009

7:30—8:30 a.m. Breakfast

Prologue Speakers

8:30—8:40 a.m. Dr. Barry Burks, Charlotte Research Institute
Welcome—Why CRI Is Hosting This Year's IHC

8:40—8:50 a.m. Jennifer Roberts, Mecklenburg County Commission Chair
Welcome

8:50—9:15 a.m. Jason Hoyle, Appalachian State University
Brief History & Origin of the International Hydrail Conference.

9:15—9:45 a.m. Dr. Alistair Miller, Atomic Energy of Canada Ltd.
Why Rail is the Best use of H₂ & The Environmental Urgency

9:45—10:00 a.m. Break

Mass Production of Hydrogen Fuel for Hydrail

10:00— 10:30 a.m. Dr. Bill Summers, Savannah River National Laboratory
High Temperature Thermochemical Water Splitting
Using the Sulfur/Iodine Cycle

10:30—11:00 a.m. Robert Stasko (for Dr. Greg Naterer, University of Ontario)
Potential of the Copper-Chlorine Water-Splitting Cycle

11:00—11:30 a.m. Kevin Major, UNC Charlotte
Developing & Studying Nanoscale Catalysts For Production of Hydrogen
Through Water Splitting

11:30—12:30 p.m. Lunch & Keynote Speaker Walter Kulyk
U.S. Department of Transportation, Federal Transit Authority,
Office of Mobility Innovation

12:30—12:45 p.m. Break

International Hydrail Update

12:45—1:15 p.m. Jason Hoyle, Appalachian State University
Hydrail in the European Union

1:15—1:45 p.m. Dmitry Grigorovich (*presented by Stan Thompson*)
All-Russia Scientific Research Institute of Railway Transport:
Hydrogen Fuel Cell Power For Tunnel Work

1:45— 2:15p.m. Dr. Seky Chang, Korean Railway Research Institute
Hydrail in Asia: The Current Direction (*presented by Dr. Chang Heng Bae*)

2:15—2:45 p.m. Peter Holt, Fraser Valley Heritage Railway Society (*presented by Stan Thompson*)

AGENDA

Thursday June 11, 2009 (continued)

Streetcars Go Wireless: Hydrolley—Community Synthesis

2:45 – 3:00 p.m. Break

3:00 - 3:30 p.m. Ned Parker (P.E.), LTK Engineering
The Cost of External Power for Rail Systems

3:30 – 4:00 p.m. Brian Nadolny, Charlotte Area Transit System (CATS)
How New Over head Systems Are Problematic

4:00 – 4:30 p.m. Nora Black/Monica Carney, DPZ Town Planners
Wireless Street cars in Light Imprint Communities

5:00 – 7:00 p.m. Networking Social

Friday June 12, 2009

7:30 – 8:00 a.m. Breakfast

Dawn of the Hydrolley

8:00 – 8:30 a.m. Stan Thompson, Mooresville Hydrogen Economy Action Team
The Hydrolley as Manifest Destiny

8:30 – 9:00 a.m. Nancy Carter, Charlotte City Council
What's In it For Charlotte

9:00 – 9:30 a.m. Dale Hill, CEO, Proterra LLC
Morphing H₂ Bus Tech in Hydrolley Design

9:30—10:00 a.m. Brian Nadolny, Charlotte Area Transit System (CATS)
CATS's View of the Mooresville North Line & Conduct Lynx Excursion

Excursion

10:00—12:30 p.m. Ride CATS's Lynx Line to rail vehicle maintenance tour

12:30 p.m. Adjourn

To stay in touch with what is happening concerning the Hydrail Initiative, visit

**www.Hydrail.org or subscribe to the Hydrail on-line newsletter at
<http://hydrail.org/connect.php> for up to date information.**

Copies of conference presentations are available at www.Hydrail.org