ERC – 2009 SYMPOSIUM

Theme: “Reducing Fuel Consumption: Solutions and Prospects”

June 10th and 11th, 2009
1106 Mechanical Engineering, Madison WI 53706

Final Program

First day program (June 10th):

7:30 AM    Continental Breakfast
            – Open Registration

8:15 AM    Welcoming Address
            – Roxann L. Engelstad, Mechanical Engineering Chair, University of Wisconsin - Madison

8:30 AM    Session I - ENGINE SYSTEM OPTIMIZATION
            – Session Chair – Professor Jaal Ghandhi

Keynote "Carbon Constrained and Energy Driven: Transportation's Transitions to Achieve 2050 Goals" (45 minutes)
            – David Haugen, Dir Adv Technology Div, EPA

"Making the Most of Our Energy Carriers" (45 minutes)
            – David Foster, Phil and Jean Myers Professor, Engine Research Center, University of Wisconsin - Madison

10:00 AM   Refreshment Break (30 minutes)
            – Session Chair – Assistant Professor David Rothamer

"Hybrid Vehicles - Powertrain Architectures and Controls" (20 minutes)
            – Glenn Bower, Sr.Scientist, Mechanical Engineering, University of Wisconsin - Madison

"Electric Drives Research at UW-Madison for Future Vehicle Propulsion Systems" (20 minutes)
            – Tom Jahns, Professor, Electrical Engineering, University of Wisconsin - Madison

"Alternatives for Improving Heavy Truck Fuel Economy" (30 minutes)
            – Tom Reinhart, Program Mgr., Engine Design & Development, Southwest Research Inst

"An Otto Rankine Combined Cycle for High Efficiency Distributed Power Generation" (30 minutes)
            – David T. Montgomery, Program Mgr., Engine Design & Development, Caterpillar Inc.

12:15 PM    Lunch (60 minutes)
            – Atrium of Engineering Centers Building
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First day program (June 10th):

1:15 PM  Session II - COMBUSTION AND FUELS TECHNOLOGIES
– Session Chair – Professor Chris Rutland

Keynote "Technology and Policy Choices for Personal Mobility" (45 minutes)
– Syed Shahed, Corporate Fellow Advanced Technology, Honeywell (retired)

"Improving Fuel Efficiency with Fuel Reactivity Controlled Combustion" (30 minutes)
– Rolf Reitz, Wisconsin Distinguished Professor Engine Research Center, University of Wisconsin-Madison

"Turbocharged Spark Ignited Direct Injection – A Fuel Economy Solution for the US" (30 minutes)
– Paul Whitaker, Chief Technologist - Gasoline Engines, AVL North America Inc.

3:00 PM  Refreshment Break (30 minutes)
– Session Chair – Wisconsin Distinguished Professor Rolf Reitz

"Progress towards understanding combustion inefficiencies: in-cylinder measurements of CO and UHC" (30 minutes)
– Paul Miles, Principal Member, Technical Staff, Sandia National Labs

"Improvement of HCCI Engine Performance by Fuel Composition" (30 minutes)
– Gen Shibata, Chief Engineer of Fuel Production R&D Group, Nippon Oil Corporation

“Future Powertrain Technology Solutions” (30 minutes)
– Paul Najt, SI Engine Systems Group Manager, GM Research and Development

6:00 PM  Evening - SYMPOSIUM DINNER – Great Dane Brew Pub and Restaurant
– 123 E. Doty St, Downtown Madison, sponsored by ACS
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Second day program (June 11th):

8:00 AM  Continental Breakfast

8:30 AM  Session III – INDUSTRY CHALLENGES
– Session Chair – Associate Professor Scott Sanders

Keynote "High Efficiency IC Engines – The Road Ahead" (45 minutes)
– John Pinson, Vice President, Ricardo NA

"Clean Diesel - Real Life Fuel Economy and Environmental Performance" (30 minutes)
– Alexander Freitag, Mgr Engine Lab and Emissions - Diesel Systems, Robert Bosch

"Engine Technologies for Improved Fuel Economy" (30 minutes)

10:15 AM  Refreshment Break (30 minutes)
– Session Chair – Assistant Professor Mario Trujillo

“Diesel Engine Fuel Economy Challenges and Opportunities” (30 minutes)
– Ning Lei, Director- Advance Combustion, Navistar Inc.

"Hybrid Solutions for Medium Duty Commercial Vehicles" (30 minutes)
– Hélène L. Cornils, Hybrid Business Development / Engineering Program Manager, Eaton Corporation

11:45 AM  DISCUSSION – Concluding Remarks
– David Foster, Phil and Jean Myers Professor, Engine Research Center, University of Wisconsin - Madison.

12:00 PM  Box Lunch

12:30 PM  LAB TOURS – Engine Research Center
– Session Chair – Michael Andrie, DERC Program Manager, University of Wisconsin - Madison