Electric Conversion of a Hybrid Car

(Plug-in Hybrid Electric Vehicle – PHEV)

Barry Romich
Wayne County Sustainable Energy Network

Renewable Energy Workshop
12 November 2009
OARDC

Standard Hybrid Electric Vehicle
(Parallel System - Idle)
Standard Hybrid Electric Vehicle
(Accelerating)

Standard Hybrid Electric Vehicle
(Electric only)
Standard Hybrid Electric Vehicle (Decelerating)

Plug-In Hybrid Electric Vehicle (PHEV)
Hymotion System

- Addition of 5 KW-Hr battery
- Spare tire well
- ~ 187 pounds
- Charges using 120 Volts AC, 10 amps.
- Charge time: ~5-1/2 hours
- Charge life: ~ 30 miles
- Fuel economy during charge life: >100 MPG
Installation:
Toyota dealer

14 Certified Installers nationwide

Charging
Future

2010: Available from Toyota for fleets

2011: Available for individuals

Tonight!

FUEL CELLS 3 SPEAKERS

Thursday, November 12 • 7:00 - 8:30 p.m. plus Q&A

Mackie Hall in Westminster Church House • 353 E. Pine St. • College of Wooster

Mr. Patrick Valente
Executive Director of Ohio Fuel Cells Coalition
“Overview of Fuel Cells in Ohio with emphasis on north-east region.”

Dr. Jim C. Maloney
Faculty, Fuel Cell Technology, Stark State College, Canton
“Fuel Cells 101 and Fuel Cell program at Stark State College, Canton.”

Mr. Dan Birmingham
Director of Engineering, Rolls Royce Fuel Cell Systems (US)
“Development of a Mega-Watt scale Solid Oxide Fuel Cell (SOFC) Power System.”
Contact

Barry Romich, P.E.
Wayne County Sustainable Energy Network
1022 Heyl Road
Wooster, OH 44691-9786
Tel: 330-262-1984 ext. 211
Fax: 330-263-4829
http://www.wcsen.org/
Email: bromich@aol.com
www.romichfoundation.org