

Center for Advanced
Automotive Technology

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2017 Summer Professional Development Course Advanced Automotive Technology

Benefits of Attending

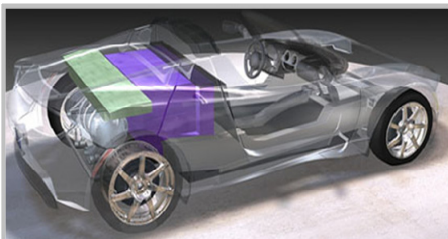
By attending this workshop, you will be able to:

- Explore state-of-the-art advanced automotive technologies, including fuel-cell systems for vehicles, cooperative connected vehicles, and lightweight materials for automotive applications;
- Receive course materials, both hard copy and electronic file;
- Discuss the emerging automotive technologies, and course, curriculum and laboratory development with professionals and peers, and
- Receive Certificate of Completion issued by WSU

Who Should Attend

The workshop is designed to provide fundamental concepts of the emerging technology in advanced automotive technology

- 4-year college/university engineering or technology faculty;
- Community college instructors;
- High school science or technology teachers; and
- Automotive professionals



Workshop Content

Topic 1: Fundamentals of Fuel-Cell Systems for Vehicles

- Overview of fuel-cell types and functions
- Fuel-cell systems for vehicle accessories
- Fuel-cell powered systems for vehicles
- Hydrogen storage systems for fuel-cell and infrastructure

Topic 2: Cooperative Connected Vehicle

- Connected vehicles and autonomous development
- V2X fundamentals: principles, standards, consortiums and prior work
- Government mandate
- Vehicle to Vehicle, Vehicle to Infrastructure, and Vehicle to Pedestrian safety applications
- V2X challenges: security and privacy, positioning, deployment, scalability
- DSRC versus cellular based technology for V2X

Topic 3: Lightweight Materials for Automotive

- Weight effect on fuel consumption
- Design and Implementation of light weighting materials
- Multi-materials enabling and joined process

Lab Tour & Demonstration: Advanced Energy Storage System Lab



Time

9:00 a.m. - 4:00 p.m.
July 10 & 11, 2017

Location

Advanced Technology Education
Center (ATEC)
Wayne State University
14601 E. Twelve Mile Road
Warren, MI 48088

Stipend

There is no registration fee for attending this workshop. Each participant will receive a **\$200** stipend upon completion of the workshop. Limited lodging support also available upon request. Please include a travel proposal with your application if needed.

To Register

Submit the application form on the second page of the flyer by Friday, July 5, 2017 to:

yeh@wayne.edu

Seats are limited, please apply early. If you have additional questions, please contact Marsherry Jarrett at 313-577-9410 or above email.





Application Form

2017 Professional Development Course Advanced Automotive Technology

PLEASE READ THE INFORMATION BELOW, TYPE OR CAREFULLY PRINT

First Name _____ Last Name _____

Institution / Company Name _____

Position / Title _____

Major Responsibility / Purpose
(Please specifically describe the program and courses you are teaching, and your plan to use the workshop materials for your program)

Street Address _____

City _____

State _____

Zip _____

Phone _____

Email _____

**S.S. Number needs to be provided by all attendees for stipend purpose. A W-9 form will be sent by us requesting this information once your application has been accepted.
PLEASE DO NOT ENCLOSE YOUR S.S.N. ON THIS FORM.**

Submit your application to yeh@wayne.edu or fax to (313)-577-1781 by **July 5, 2017**. For additional questions, please contact Marsherry Jarrett at 313-577-9410.

