

FUTURE

CAR

SPONSORS

- U.S. Department of Energy
- U.S. Council for Automotive Research
- DaimlerChrysler Corporation
- Ford Motor Company
- General Motors Corporation
- National Science Foundation
- U.S. Department of Commerce
- U.S. Environmental Protection Agency
- Oakland Community College
- The Aluminum Association
- Natural Resources Canada

★ The Competition Will Be Held at
Oakland Community College,
Auburn Hills, Michigan
June 2-10, 1999



PATHWAY TO TOMORROW'S VEHICLE



PARTICIPATING SCHOOLS

- Concordia University
- Lawrence Technological University
- Michigan Technological University
- Ohio State University
- Texas Tech University
- University of California, Davis
- University of Illinois-Urbana
- University of Maryland
- University of Michigan
- University of Tennessee
- University of Wisconsin-Madison
- Virginia Tech
- West Virginia University

▲ Managed by Argonne National Laboratory

1999

FutureCar

challenge

1999

FUTURECAR, THE NATION'S PREMIER, COLLEGE-LEVEL AUTOMOTIVE ENGINEERING COMPETITION

1999 FutureCar Challenge:

Showcasing Tomorrow's Advanced-Technology Vehicles Today

Today's automotive engineering students are designing, building, and testing *your* future car – one that gets up to 80 mpg and that performs as well as, or better than, the one you're driving right now. Want to know more? Read on...

The 1999 FutureCar Challenge is just around the corner. This year's competition concludes a four-year FutureCar series in which students from 13 of North America's top engineering schools convert a conventional mid-sized sedan into a car of the future – one that is far more efficient than today's cars and yet retains the attributes consumers expect: safety, performance, and low emissions. Next year, FutureCar 2000 will launch a new series of competitions with a new platform, most likely 4-wheel-drive sport-utility vehicles (SUVs) – the most popular vehicles on the market.

The primary goal of students participating in the FutureCar Challenge is to use cutting-edge technologies – advanced propulsion systems, fuel cells, space-age materials, and alternative fuels – to engineer a mid-sized car that achieves 80 mpg. Other major goals include reducing emissions and maintaining performance and consumer acceptability.

The 1999 FutureCar Challenge will be held in Auburn Hills, Michigan, at Oakland Community College. The U.S. Department of Energy (DOE) is the primary sponsor of the Challenge. For 1999, the United States Council for Automotive Research (USCAR) – an Associate Challenge sponsor – provided each of the 13 participating schools with \$10,000 in seed money for the competition and will provide \$40,000 in prize money.

During the competition, industry and government engineers measure fuel economy, exhaust emissions, range, acceleration, braking, handling, and drivability. They also judge the vehicles on engineering design, technical innovation, and consumer acceptability; they judge the teams on their technical reports and oral presentations. Winners receive awards, including prize money.

Competition highlights include performance testing and design judging at Oakland Community College; emissions and fuel economy testing at the U.S. Environmental Protection Agency's (EPA's) National Vehicle and Fuels Laboratory in Ann Arbor, Michigan; an over-the-road trip to Washington, D.C., to test fuel economy and reliability; and a display and awards luncheon on Capitol Hill in Washington, D.C.

Competition Schedule

June 1999						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2 Registration Technical Inspections and Qualifying	3 Technical Inspections and Qualifying Oral Presentations Coastdown Testing	4 Emissions and Fuel Economy Testing	5 Emissions and Fuel Economy Testing
6 On-Road Fuel Economy Testing	7 Judged Events: • Design Review • Consumer Acceptability • Innovations in Aluminum • Best Appearance Performance Events: • Acceleration • Solo	8 Road Trip to	9 Washington, D.C.	10 Washington, D.C. • Finish Line Ceremony, U.S. Department of Energy • Capitol Hill Vehicle Display • Awards Luncheon	11	12

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