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DELPHI RECEIVES GRANT OFFER FROM THE DEPARTMENT OF ENERGY FOR GASOLINE DIRECT COMPRESSION IGNITION TECHNOLOGY

Delphi engineers to lead new technology project with multi-million dollar grant from the U.S. Department of Energy

Auburn Hills, Mich – Delphi Corp. along with a team from Hyundai America Technical Center and academia was recently nominated by the U.S. Department of Energy (DOE) for a \$7.48 million grant to demonstrate a new high-efficiency vehicle concept. A key strategy for achieving the project goals will be a pioneering low-temperature gasoline combustion system that could help significantly improve light-duty vehicle fuel economy.

Delphi advanced powertrain systems engineers will partner with Hyundai America Technical Center, Inc (HATCI); Wisconsin Engine Research Consultants (WERC); the University of Wisconsin-Madison (UW); and Wayne State University (WSU).

“This will be a highly synchronized team effort,” said John Kirwan, chief scientist for gasoline engine management systems EMS and powertrain products, Delphi Powertrain. “Furthermore, Delphi is fortunate to be supported by a group of distinguished organizations with a wide range of capabilities.”

Delphi is an industry leader in advanced powertrain technology development, with new gasoline direct injection (GDi) systems soon entering production. Hyundai, the world’s fourth largest automaker has declared GDi among its key technologies to lead the industry in fuel economy. Hyundai engineers and produces millions of engines and vehicles globally, adding a unique technology integration and manufacturing perspective, while WERC and the universities provide fundamental technology development capabilities.

“It’s an ideal team for taking a highly advanced, pioneering technology from the concept level to a practical application on a demonstration vehicle,” noted Kirwan.

The team will use an integrated systems approach for the project, a methodology for which Delphi is recognized and respected. A set of complementary improvements across the powertrain will be applied so that significant engine efficiencies can be realized at an affordable cost. Delphi's sophisticated engine management controls will optimize system efficiency, while meeting emissions and engine performance goals. The combustion technology will be enabled by Delphi's advanced variable valve actuation and GDi technologies. The combination of these and other technology applications is targeted to achieve a 25 percent or greater improvement in fuel economy at the vehicle level.

In the breakthrough low-temperature combustion concept called gasoline direct compression ignition, fuel is ignited by compression rather than by spark, similar to GDi homogeneous charge compression ignition. The novel concept offers the potential for diesel-like efficiency while maintaining very low emissions.

The four year project is expected to provide many benefits for Delphi, the U.S. and the entire automotive industry.

"This is a tremendous opportunity for Delphi Powertrain Systems to demonstrate some of our core competencies and contribute to our country's economy and energy security," said Jim Zizelman, engineering director for Delphi Powertrain. "This funded program will extend our company's powertrain product portfolio providing Delphi greater opportunities with our customers."

About Delphi

Delphi is a leading global supplier of electronics and technologies for autos, commercial and other vehicles. Delphi has more than 100,000 employees at 270 locations and 24 engineering centres in 32 countries. More information regarding the company may be found at www.delphi.com

About HATCI

Hyundai America Technical Center, Inc (HATCI), headquartered in Superior Township, Michigan, near Ann Arbor, is a subsidiary of Hyundai Motor Co. of Korea. HATCI provides design and engineering support and tests and certifies all Hyundai and Kia products sold in North America. In addition to the headquarters in Michigan, HATCI operates two design centers in Irvine, Calif., one engineering facility in Irvine, two engineering facilities in Chino, California and the Hyundai California Proving Ground in California City, California.

About WERC

The WERC group represents decades of academic, research and industry experience, together with practical engine development knowledge. WERC, LLC (www.w-erc.com) has extensive engine modeling experience, and the capability to speed the transfer of advanced developments from the University environment to industry.

About UW

The Engine Research Center of the University of Wisconsin-Madison has a history of more than sixty years of successful high-level academic research on internal combustion engines. The ERC maintains an array of up-to-date engines, test cells and advanced diagnostics. . (see – www.erc.wisc.edu).

About WSU

Wayne State University is located in the Motor City. Founded in 1868, WSU consists of 13 schools and colleges offering more than 350 major subject areas to over 31,000 graduate and undergraduate students. Wayne State University is classified as a Research Intensive University (Very High research activity), or RU/VH, by the Carnegie Foundation. More information regarding the university may be found at www.wayne.edu.

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