



PAICE POWERTRAIN BOOSTS PERFORMANCE, FUEL ECONOMY FOR LIGHT TRUCKS AND SUVs

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([PRWEB](#)) March 3, 2002 -- Technical details of an advanced hybrid powertrain that can bring significant cost and performance improvements to light trucks and SUVs was presented at a technical conference.

The revolutionary Hyperdrive™ gasoline-electric hybrid system can also bring major energy savings and environmental benefits because it drastically reduces gasoline consumption and vehicle emissions, according to David F. Polletta, vice president of engineering for the PaiceSM Corporation, who is presenting a technical paper at the SAE World Congress at Detroit's Cobo Center.

“Hyperdrive is an ideal solution for all the cars, light trucks and SUVs that American motorists prefer,” he points out. “It approaches maximum efficiency because the engine runs only in its most efficient range and never idles, and the transmission is replaced by electric motors.”

“No other hybrid electric system introduced or announced to date can economically match Hyperdrive's performance, fuel economy, and environmental achievements,” Polletta declares.

“What makes Hyperdrive unique and superior among hybrid powertrains is the use of high-voltage, high-power semiconductors and high-horsepower induction motors, in conjunction with efficient use of the internal combustion engine, to achieve maximum fuel economy,” he explains.

“The internal combustion engine is one of the best converters of chemical to mechanical energy in the world,” Polletta points out. “If you can run an engine at its most efficient ‘sweet spot’ and rarely deviate, and eliminate the transmission, the efficiency of the system can approach thermodynamic limits.”

Paice has proven the Hyperdrive concept in tests of a full-size prototype system on a dynamometer. The company is in discussion with auto manufacturers worldwide for commercialization of the system, and is assembling a core team of Tier One automotive suppliers to assist in design, and ultimately production, of hardware.

Unlike hybrid systems on the market today, Hyperdrive can power all kinds of vehicles from small cars to large sport utility vehicles, vans and light commercial trucks, Polletta notes. Its benefits, compared to other hybrids, include:

- A doubling, on average, of the fuel economy of most cars, sport utility vehicles, and light trucks,
- Emissions significantly below all current and proposed regulatory limits,
- Speed, acceleration, grade-climbing and trailer-towing performance equal to or better than that of current vehicles,



- The capability to power large vehicles and heavy loads,
- Operation in all climates and weather conditions,
- Production costs similar to current vehicles because it uses the same technologies and materials; nothing new, exotic, or expensive, and
- The ability to run on gasoline, diesel and other fuels. (No changes are needed in existing fuel production or distribution infrastructure.)

Polletta has 30 years' experience in powertrain development and engineering management and has directed electric and hybrid vehicle projects for automobile manufacturers and other companies. He has assisted several companies in development and vehicle integration of natural gas and hybrid electric powertrains.

Hyperdrive's application of high-power semiconductors and high-voltage power to control the internal combustion engine for maximum fuel economy was developed by Dr. Alex Severinsky, Paice's chief executive officer, who is a globally-recognized power electronics systems engineer and expert on lead-acid battery applications.

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PAICE Corporation has created, tested and patented Hyperdrive, a unique gasoline-electric hybrid powertrain system for cars and light trucks. Using high-voltage electric power and an exclusive control system and software, Hyperdrive can achieve equal or better performance, significantly higher fuel economy, and negligible pollutant emissions, compared to current production or hybrid powertrain systems for virtually all cars and light trucks. The company has offices in Silver Spring, MD, and an engineering center in Livonia, MI. Its website is www.paice.com.

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