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FOR IMMEDIATE RELEASE

ISSYS RECEIVES PATENT FOR FUEL & FLUID QUALITY SENSOR

Integrated Sensing Systems, Inc. (ISSYS) has announced that the U.S. Patent Office has granted it a utility patent (US 7,263,882) entitled "Fluid System and Method of Assessing a Property of a Fluid Flowing Therein." This patent describes a new method and design which will allow microfluidic sensors to monitor and test a wide variety of fuels, coolant, lubricants in vehicle applications. The patent involves the design and packaging of flow rate, density and chemical concentration and fluid quality sensors.

Dr. Doug Sparks, Executive VP of ISSYS, stated that "the patent particularly goes into detail on applying this technology to fuel cells including Direct Methanol Fuel Cells (DMFCs) and reformed fuel cells, ethanol, aviation fuel, E85 and other gasoline-alcohol mixtures. The fuel sensor is based on ISSYS' Micro Electro Mechanical System (MEMS) technology." The sensor can be used (1) to improve the efficiency of the DMFC by keeping the methanol to water concentration at an optimum level, (2) optimize and monitor ethanol to gasoline concentration, and (3) to monitor impurities like water in jet fuel, lubricating oil, transmission fluid, hydraulic fluid and pure ethanol. Its application will improve fuel efficiency, and reduce engine and transmission wear by monitoring and in some cases controlling the concentration of these vehicular fluids. ISSYS' fluidic products cover a wide range of applications in medical, analytical, and industrial fields, according to Dr. Nader Najafi, ISSYS CEO.

This microfluidic technology offers advantages in system and sample size, cost and reliability over current approaches to fluidic density and chemical concentration measurement: <http://www.mems-issys.com/html/density.html>.

Company Background: ISSYS is a leader in advanced micromachining technologies for medical devices, industrial sensors, and microfluidic and scientific analytical sensing applications. Founded in 1995 by world-renowned leaders in MEMS technology, ISSYS is one of the oldest independent MEMS companies in the US. ISSYS operates a "full manufacturing under one roof," multi-million-dollar, state-of-the-art MEMS fabrication facility located near Ann Arbor, Michigan. An ISO 9001:2000 certified and ISO 13485 qualified organization, ISSYS is a vertically integrated company dedicated to developing and manufacturing system-level products based on MEMS technology (MEMS Inside), please visit: <http://www.mems-issys.com/>

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