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ISSYS to Present Fuel Cell Sensor Poster at the “*SME’s Tomorrow’s Energy... Today 2006*” Conference

Integrated Sensing Systems, Inc. (ISSYS) in Ypsilanti, Michigan, announced today that it will have a poster presentation at an upcoming alternative energy conference, “Tomorrow’s Energy.... Today 2006.” The conference is sponsored by the Society of Manufacturing Engineers and NextEnergy, and is being held in Dearborn, Michigan October 24th, 2006. For more conference information see: http://www.sme.org/downloads/conf/2006/AET/conference_brochure.pdf

The poster will cover the small methanol concentration sensors under development, targeting the active Direct Methanol Fuel Cell (DMFC) market. The sensor is used to improve the efficiency and performances of DMFCs over temperature and the life of the fuel cell module.

The use of a methanol concentration sensor is essential for the practical application of a variety of DMFC technologies. Currently ISSYS’ technology offers the only efficient solution for the DMFC application, particularly due to its outstanding accuracy, stability and potential low cost. Furthermore, unlike previous methanol concentration sensors, ISSYS’ products operate over a wide temperature range and are not sensitive to chemical impurities.

Fuel cells offer a big improvement in portability over conventional battery packs. Applications for DFMC technology include laptop computers, PDAs, camcorders and other portable consumer electronics.

ISSYS’ sensors are based on Micro ElectroMechanical System (MEMS) technology. This microfluidic technology offers advantages in system and sample size, cost and reliability over current approaches to fluidic density, methanol concentration and chemical concentration measurement, <http://www.mems-issys.com/html/density.html>.

These small sensors can also be utilized in a variety of other industrial and analytical applications for the need of a low-cost, accurate, small, inline density or chemical concentration sensors. ISSYS recently launched a model 106 inline density & concentration meter based on the same technology.

Company Background: ISSYS is a leader in advanced micromachining technologies for medical devices, 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 and has been offering MEMS services longer than any other company 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 9000:2001 certified organization, ISSYS is a vertically integrated company dedicated to developing and manufacturing system-level products based on MEMS technology. For more company, product and service information, please visit <http://www.mems-issys.com/>

Key Words: Concentration sensor / meters, Fuel cells, Methanol sensors / meters, Direct Methanol Fuel Cell (DMFC)

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