



July 17, 2007

FOR IMMEDIATE RELEASE

NSF awards a Phase I SBIR to ISSYS Inc. for investigating two-phase microfluidic behavior and nanoliter bubble detection

Integrated Sensing Systems, Inc. (ISSYS) announced today that it has won a National Science Foundation (NSF) Phase I SBIR contract, entitled "Microfluidic Gas/Liquid Two-Phase Sensing and Compensation." This project develops a new sensing technology capable of quickly and accurately measuring nanoliter and microliter sized gas bubbles in a liquid stream using ISSYS patented MEMS technology. The basic microfluidic technology has already been employed to produce density, specific gravity and chemical concentration meters, which are sold by ISSYS as well as drug infusion monitoring systems. Dr. Douglas Sparks, Executive VP of ISSYS, stated that "Micro and nano-bubble detection is a major hurdle facing many emerging technologies. This research will not only develop new methods of measuring extremely small gas bubbles, but will also improve both the accuracy and reliability of many emerging products in a variety of fields including, microfluidics, assay, TAS, Biomedical, Bio-MEMS, pharmaceuticals, medical devices, genetic screening and testing, laboratory and industrial sensors such as Coriolis mass flow and liquid density measurements."

Dr. Nader Najafi, President and CEO of ISSYS, stated that "we are very excited about this project since it provides, for the first time, an accurate analytical means to directly study the effects of micro-bubbles. We anticipate that this research will push many existing technologies to a level of viability not possible before. For instance, compensating for small bubbles can enhance the accuracy of capsule coating, filling, dosing, mixing and other critical processes using small fluid sample volume."

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 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, please visit <http://www.mems-issys.com/>

Source: Integrated Sensing Systems, Inc. (ISSYS)

Contact: Doug Sparks, Executive VP

Integrated Sensing Systems (ISSYS)
391 Airport Industrial Dr., Ypsilanti, MI 48198
Tel: (734) 547-9896 Ext. 119
Fax: (734) 547-9964
Email: dsparks@mems-issys.com