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NASA, MSGI PARTNER FOR SOLAR ENERGY AND NANOTECHNOLOGY

MOFFETT FIELD, Calif. -- Today NASA announced under the terms of two Space Act Agreements, it will partner with MSGI Security Solutions Inc., San Francisco, to advance solar cell technology and develop nano-chemical sensors. The solar cells will use semiconductor materials instead of silicon crystals and prepare them in a nanostructured form for greater efficiency. NASA and MSGI also will use nanotechnology and carbon-based chemical sensing to detect gas and organic vapors found in human breath.

NASA developed these two revolutionary nanotechnologies that now have promising alternative applications. Solar cells that powered space missions now may compete with conventional electricity as an energy source. An electronic sniffing sensor, used to monitor the air onboard the Space Shuttle, may be used for medical diagnoses and environmental monitoring.

"Silicon crystalline solar technology has limitations that this new nanostructured form and semiconductor technology will surpass," said Meyya Meyyappan, chief scientist for exploration technology and director of the Center for Nanotechnology at NASA's Ames Research Center, Moffett Field, Calif. "This has led NASA to investigate novel materials, substrates and production techniques with the goal of becoming more efficient while achieving lower production costs."

MSGI recently announced that its subsidiary companies will co-develop and commercialize these technologies. Andromeda Energy Inc., will focus on scalable renewable energy solutions that cost less per watt than conventional energy sources.

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"We are committed to establishing a solar platform in Northern California, which will create new jobs and help stimulate the local economy, while reducing our dependence on traditional energy sources," said Jeremy Barbera, chairman and chief executive officer of MSGI Security Solutions, Inc.

Nanobeak Inc., is a nanotechnology company that develops carbon nanotube-based chemical sensing devices. It will soon launch its first prototype, derived from NASA technology, which is a handheld sensor that can detect diabetes. The device will measure specific signatures for diabetes by simply breathing into a personal handheld device. This will help eliminate expensive laboratory tests and inconvenient trips to the laboratory facility.

"This product will provide a simple, non-invasive test to save lives by providing early diabetes detection," said Barbera. "More than fifty percent of all people who have diabetes are unaware of that fact."

For more information about NASA's Innovative Partnership Program and NASA technology infusion activities, visit:

<http://ipp.nasa.gov>

For information about NASA and agency programs, visit:

<http://www.nasa.gov>

For more information about MSGI Solutions, Inc., visit:

<http://www.msgisecurity.com>

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