



For Immediate Release

Systron Donner Inertial Contracts with DARPA for Advanced Inertial Sensor Development

Concord, CA – June 1, 2011 - Systron Donner Inertial (SDI), a brand of Custom Sensors and Technologies, has been awarded a development contract by the Defense Advanced Research Projects Agency (DARPA) to pursue miniaturization of high accuracy gyroscopes.

The Department of Defense is pursuing the capability to provide high accuracy location and navigation information to individual warriors and to very small systems. Current technologies provide this information in nominally cubic foot sized, 10 pound packages at prices over \$100K. DARPA is funding SDI to radically transform this field and provide the same capabilities in form factors ~100 times smaller and lighter.

SDI Lead Researcher and principal investigator on the project Dr. Christopher Painter describes the work as a natural outgrowth of SDI's strengths in quartz microfabrication. "Hemispherical resonating rate gyroscopes are well known as highly accurate, highly stable inertial rate sensors. DARPA has funded SDI to pursue miniaturization of this technology via potentially low cost microfabrication techniques. Successful development of Miniature Rate Integrating Gyros (MRIG) would enable deployment of inertial navigation capabilities to miniature UAVs, individual warriors, and a host of other applications where existing measurement technologies are too large or too expensive."

With industrial partner TRONICS MEMS, SDI will drive microfabrication and microcalibration technologies into a new territory. Pushing the envelope in microfabrication technology, SDI and Tronics have developed a process that allows for the fabrication of high precision 3D structures with very low energy dissipation on a micro scale. This process will enable the batch fabrication of micro inertial sensors with unprecedented levels of performance while maintaining low costs.

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About Systron Donner Inertial:

SDI is a leading supplier of precision aerospace inertial sensors and systems with more than fifty years of experience. Our high performance quartz MEMS products include gyro rate sensors, multi-axis systems, IMUs and INS/GPS systems. These products are used for navigation, guidance, control and platform stabilization in commercial aircraft, UAVs, land vehicles, precision guided munitions and airborne applications.

About Custom Sensors & Technologies:

Custom Sensors & Technologies (CST) is a specialist in sensing, control and motion products. Through its brands, BEI Kimco, BEI Sensors, BEI PSSC, Crouzet, Crydom, Kavlico, Newall and Systron Donner Inertial, CST offers customizable, reliable and efficient components for mission-critical systems in Aerospace & Defence, Transportation, Energy & Infrastructures, Commercial & Industrial OEMs, Medical, Food and Beverage and Building Management markets.

Focused on premium value offers and committed to excellence, CST, with more than 4300 employees worldwide and sales of \$571M US in 2010, is the dependable and adaptable partner for the most demanding customers. For more information, visit www.cstsensors.com