



INVOCON, INC.

INNOVATIVE CONCEPTS IN
SYSTEMS ENGINEERING

19221 IH-45 SOUTH · SUITE 530 · CONROE, TEXAS 77385-8703
<http://www.invocon.com>

PHONE (281) 292-9903 · FAX (281) 298-1717
Email: ivc@invocon.com

PRESS RELEASE

Invocon, Inc.
19221 IH-45 South, Suite 530
Conroe, TX 77385-8703
Website: www.invocon.com

Aaron Trott – Program Director
Ph: (281) 292-9903
Fx: (281) 298-1717
Email: atrott@invocon.com

INVOCON, INC. wins Navy STTR Phase I Award

29 May 2007 – Invocon was recently notified that it has won a Navy Phase I STTR contract along with the University of Maryland. The topic: “Miniaturized Wireless Data Acquisition for Payload Development and Integration” is designed to advance the state-of-the-art for precision instrumentation in extreme marine test environments. Invocon’s extensive experience in high-precision miniature instrumentation with wireless capability will help to provide the Navy with a highly capable solution. Furthermore, the company’s ability to adapt technology to a broad range of applications will enable this solution to be practical and intuitive.

The project’s objective is to develop a miniaturized wireless data acquisition system that is survivable in impact launch environments with acceleration loads into the 1000s of g’s. The acquisition system will be capable of acquiring up to 16 channels at a minimum rate of 10 KHz per channel. The data collected by the system will aid simulation verification efforts for existing and future submarine and surface ship payloads such as countermeasures, torpedoes, unmanned underwater vehicles, and other deployable systems.

The University of Maryland’s Center for Advanced Life Cycle Engineering (CALCE) is an important team member with the ability to model and test many types of components and assemblies for survivability in high-g environments.

INVOCON’s core activities revolve around the design and manufacture of precision instrumentation and communication solutions for demanding applications in extreme environments. The company has developed electronic systems with a broad scope of applications – from underground to space, from military to commercial, from simple data recording to complex analysis, and from large-scale systems to miniature systems. Some of the more visible accomplishments include the more than 12 different types of wireless sensors and data acquisition systems for NASA’s Shuttle and Space Station



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programs. Invocon's work for the Navy includes lethality sensing on target missiles and wireless sensing for sonobuoy applications.

The UMD Center for Advanced Life Cycle Engineering (CALCE) is recognized as a founder and driving force behind the development and implementation of physics-of-failure (PoF) approaches to reliability, as well as a world leader in accelerated testing, electronic parts selection and management, and supply-chain management.