



## Sporian® Microsystems, Inc.

515 Courtney Way, Suite B  
Lafayette, CO 80026  
Phone: 303-516-9075  
Fax: 303-516-9116

### **Polymer Derived Ceramics Hold Promise as Wireless Sensors at Sporian Microsystems, Inc.**

Lafayette, CO (June 13, 2006) - Sporian Microsystems, a developer of sensors and sensor systems, has been awarded a contract from the US Navy to investigate the merit of its proprietary polymer derived ceramic as a wireless, high temperature, MEMS (micro-electro-mechanical-system) sensor that will be used to monitor temperature and strain in aircraft engines that often exceed temperatures of 1000°C.

“The holy grail in high temperature applications, especially those involving rotating parts, is a wireless sensor that is able to hold up in the harsh environment. Our aim is to attach the Sporian sensor to rotating components inside the engine and transmit the signal wirelessly. This would allow sensing information from engine areas never before accessible during operation, and potentially eliminate cumbersome ingress and egress wires. Ultimately, this should result in engines that operate more reliably at a lower cost.” stated project lead Kevin Harsh.

Sporian has previous experience with high temperature sensing applications using its polymer derived ceramic techniques to create hard wired sensors for such applications. Harsh’s team intends to build on their previous knowledge in the high temperature arena and prove the feasibility and merit of the technology for high temperature wireless applications.

Commercially, the sensor holds great promise in providing information regarding the harsh environmental conditions associated with turbine engines used in aircraft and by energy generation providers. Current state of the art hard wired sensors generally fail below 1000°C and do not offer the advantages of wireless connectivity.

Sporian Microsystems was formed in 2000 as a R&D firm focused on the areas of sensors, MEMS, and microelectronics packaging. More information about Sporian Microsystems can be found at [www.sporian.com](http://www.sporian.com).

For more information please contact:

Bill Garrett  
[bill@sporian.com](mailto:bill@sporian.com)