

## For Immediate Release



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### **Emergent Space Technologies and Loctronix to Explore Government and Military Applications for Universal Indoor/Outdoor Positioning**

**Greenbelt, MD – August 24, 2010.** Emergent Space Technologies, Inc., a provider of advanced systems technologies for U.S. civil, military, and commercial space missions, has announced an alliance with Loctronix Corporation, a developer of high-accuracy, indoor/outdoor positioning technologies, to explore market opportunities for Loctronix’s patented Spectral Compression Positioning™ (SCP) within the space and military industries.

“SCP technology can provide positioning, navigation and timing (PNT) solutions from signals of opportunity that include virtually any radio frequency-based communication and navigation signal sources” stated Dr. George Davis, Emergent President and Founder. “The potential applications for the technology within U.S. government agencies are abundant: ranging from satellite orbit determination to land/sea/air tracking and guidance.”

The companies are targeting applications that require highly-reliable, accurate, and low-cost positioning and navigation – particularly in cases where GPS alone is insufficient or unavailable, Davis explained. SCP addresses PNT needs not only for space, but for terrestrial, marine and airborne applications of interest to the DoD, such as blue force tracking and unmanned aerial vehicle navigation, he added.

“We are very excited to partner with Emergent”, stated Dr. Michael B. Mathews, Loctronix CEO and Founder. “Combining their extensive capabilities in guidance, navigation and control with Loctronix’s

unique, universal positioning technology creates an opportunity to deliver new and innovative solutions to meet even the most challenging requirements.”

By extracting ranging observables from RF transmissions without demodulation, SCP makes it possible to implement a low-cost, lightweight, multi-band position sensor that supports a wide array of signals, Mathews noted. “The simplicity of SCP makes it easy to implement the technology in software-defined radio architectures, providing upgrade and future enhancement capabilities that are ideal for multi-year missions.”

### **About Emergent Space Technologies, LLC**

Emergent Space Technologies, Inc. is focused on the research, development, and application of advanced navigation, communication, and information technologies for civil, commercial and military space missions. With expertise in systems engineering; guidance, navigation, and control (GN&C); orbital mechanics, ground systems development and integration; and mission operations, Emergent possesses the broad range of skills needed to support the entire spacecraft life-cycle. For more information, visit <http://www.emergentspace.com>.

### **About Loctronix Corporation**

Loctronix provides positioning and navigation technology delivering GPS-quality positioning deep indoors and in dense urban environments. Targeting both fixed and mobile devices, the company offers unique solutions for the growing number of indoor/outdoor navigation and location-based services. For more information about Loctronix, e-mail [info@loctronix.com](mailto:info@loctronix.com) or visit [www.loctronix.com](http://www.loctronix.com).

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