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IntelliSensor Opens Wireless Sensor Testing Laboratory

(Irwin, PA)—XeC IntelliSensor (ISS) has opened a Wireless Sensor Testing Laboratory and Field Site for evaluating a range of intelligent sensors, their wireless radios, their mesh networking and their wireless power sources.

The laboratory and field site, christened “**WiSTL**” or “whistle”, is comprised of a benchscale testing facility and two field testing areas at ISS’s customers’ sites. The services include testing of:

- Actual Performance versus Vendors’ specifications
- Sensor Calibration and Reliability (for both MEMS - Micro Electro Mechanical Systems - and Analog sensors)
- Wireless Radio for range and interference (802.11g, 802.15.4, 802.16, BlueTooth, etc.)
- Power Consumption under ideal and realistic conditions
- Mesh Network for data reliability under RF and EMF interference
- Performance under Extreme Conditions
- Performance under high data acquisition rates (DIA – Data Intensive Applications)
- Security of the wireless network

“Implementing the sensors in the field showed us that battery-life and wireless radio performance was an issue,” stated John Voytko, co-founder and president of ISS. “We realized that we have a unique situation where we can field test new sensors side-by-side under the same conditions.”

“There needs to be more disciplined, comparative testing of wireless sensors,” offered Michael Pochan, an ISS co-founder and experienced software entrepreneur. “That will give hesitant users the confidence to deploy the wireless sensors for critical applications.”

The Intelligent Wireless Sensor Networks are based on the emerging technology of very small, battery-powered computers and radios married to sensors with wireless communication capability. The devices can gather operational data, such as temperature and vibration from process equipment or environmental locations, not possible before because of the cost of wiring and/or environment disruption.

XeC IntelliSensor (ISS) is a systems integrator of Intelligent Wireless Sensor Network technologies and a provider of application software for temperature monitoring, condition-based equipment maintenance and HVAC performance analysis. ISS’s primary industrial markets are petrochemical processing, energy production, and commercial construction and HVAC.

FOR MORE INFORMATION, go to www.sensormgmt.com or call John Voytko at 724-861-9953.

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... process improvement

... using wireless sensor networks