

**ISA/IEEE MONTHLY MEETING**  
**Jan 12, 2010**

**SUBJECT: SENSOR TECHNOLOGY AND APPLICATION**

**Meeting with SENSOR Technologies Application Expert**

**LOCATION:** AMERICAS BEST VALUE INN, 3023 WASHINGTON ROAD

**TIME:** 6:15 PM REGISTRATION  
6:25 PM DINNER

**PRICE:** \$8 ISA MEMBERS  
\$12 NON-MEMBERS

**RSVP:** [isaga@isaga.org](mailto:isaga@isaga.org) by Jan.11th Monday noon

**Abstract of Presentation**

*Applications and Sensor Technologies to be presented includes-*

**Object detection**

Metal sensing proxies  
Welding environment, sensors for automated weld cells designed to extend sensor life.  
Stamping and Metal Forming, in die sensing, quick die change products.

**Photoelectric Sensors**

Diffuse, Thru-beam, Background Suppression, Retroreflective  
**Red light, laser, infrared, pin point LED**

**Applications:**

Elevators  
Machine tools  
Gate controls  
Robots  
Small parts recognition  
Handling automation  
Color sensing, true color recognition  
Luminescence detection, ex. grease detection in a bearing

**Capacitive Sensors**

Non metallic sensing  
Liquid level, powders, plastic part detection  
SmartLevel (solve cleaning, foaming and set up problems)

**Distance measurement**

Analog proxies, lasers and transducers (linear transducers replace linear pots and LVDTs, non contact)  
Flexible solutions for position sensing, level control, distance or height measurement, quality assurance. Precise distance measurement (microns of resolution)

### Cylinder switches

**Hydraulic** - In cylinder end of stroke sensing, in cylinder transducers (absolute position feedback)

**Pneumatic**

Magneto-resistive (non contact end of stroke)

Transducer (external non contact position feedback)

### RFID

Identification systems for palletized assembly equipment

Machine tool management

**DISPLAY: Table top display and handout literature will be available at the meeting.**

**Presentation by:  
Tom Dachino**



Southeast Channel Development Manager, Balluff, Inc.  
Manufacturer of Object Detection equipment for enhanced industrial safety, material and energy conservation.

His duties include technical training and field sales support for distribution customers. Tom has a BS in Marketing and Industrial Distribution from Drexel University in Philadelphia, PA. He spent 23 years as owner of an industrial distribution company and has been with Balluff performing his current duties for 8 years. He specializes in reducing premature sensor replacement along with error proofing and downtime reduction in the manufacturing process. Sensor technologies presented will include explosion proof transducers, "SmartLevel" capacitive sensors and transducers for tank level sensing, stainless steel enclosed proximity switches and photoelectric analog lasers for distance measurement.