

The INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, Inc.
Eastern Idaho Section
Idaho Falls Informal Seminars

TOPIC: **ICIS/IEEE/ISA “Brew with the Crew” presents:** Ripples on the pond: a story of seeing with sound.

SPEAKER: **Tim McJunkin, Idaho National Laboratory**

DATE: Thursday, August 19, 2010

TIME: 4:30P.M.

PLACE: Hard Hat Steakhouse and Grill, 1175 Pier View Drive (Snake River Landing), Idaho Falls, Idaho

COST: Order your drinks from the menu. Light hors d'oeuvres provided by the crew organizers.

Abstract:

IEEE members make plans to join your colleagues for the August informal technical seminar series event “Brew with the Crew*” organized by the INL’s Instrumentation, Controls and Intelligent Systems (ICIS) Distinctive Signature, the Eastern Idaho Section of the Institute for Electrical and Electronics Engineers (IEEE) and the Idaho Falls branch of the International Society of Automation (ISA).

Ultrasonics has been utilized to peer beneath the surface of an object in medical and industrial applications. Generating Diagnostic images by translating the direction of transmission and reception of sound has been a standard practice for many years. Phased array ultrasonics has taken this to a new level of flexibility of scanning, steering and focusing. Beyond the preprogrammed capabilities for collecting images and volumetric data is the possibility of adapting to the stimulus of the acquired data to adjust the sensor parameters to better interpret the “objects” in the field of view, eliminate or explain artifacts, and suggest physical manual or robotics positioning that will provide a better point of view..

Biography:

Tim McJunkin is a R&D Engineer in the Energy Efficiency and Industrial Technology department at the Idaho National Laboratory. He has worked in the area of nondestructive examination over the past 10 years with a specific focus on imaging and phased array ultrasonics. He has worked industrial and scientific applications in robotics, automation, data interpretation and sensor fusion at INL. Prior to joining INL, he was a design engineer in the Industry Standard Server Group and Compaq Computer Corporation. Mr. McJunkin holds B.S. and M.S. degrees in Electrical and Computer Engineering and is pursuing his PhD through the University of Idaho.

*Brew with the Crew is an after work event, that takes place every third Thursday of the month at the Hard Hat Steakhouse and Grill to provide an opportunity for instrumentation, control and intelligent systems researchers and practitioners to interact with others in their community.

***** VISITORS AND NON-MEMBERS ARE WELCOME *****

PLEASE POST IN YOUR AREA