Seattle Section News and Events

ISA-The Instrumentation, Systems, and Automation Society

October 2005 **Volume LIII** **Number 2**

Welcome to the Seattle Section of the ISA

Celebrating 52 Years of Service to Western Washington

NEXT PROGRAM–WSDOT Dayton Control Center Tour (*see pg.3*)

Seattle, WA, USA

The ISA Seattle Section covers the central Puget Sound area in Western Washington. From Olympia in the south to beyond Everett in the north, the Seattle Section serves both sides of the Sound with training courses, educational opportunities, and networking events. During the 2005-2006 Section year, the Seattle Section will provide its Members with tours of state-of-the-art control facilities and training on diverse subjects related to instrumentation, systems, and automation (*schedule below)*.

Membership of the Seattle Section is diverse and includes practitioners of both process and manufacturing technologies, as well as consulting engineers, scientists, and water and environmental management professionals. We invite you to become involved with our Section, and to participate in the many educational and social events we sponsor. We look forward to seeing and serving you!

2005/2006 Section Officers

Wayne Strand – President Brown & Caldwell	waynestr@aol.com
MaryAnn Jordan – Secretary and Newsletter Editor BP Pipelines North America	maryann.jordan@bp.com
Bob O'Brien – Treasurer Brett Associates, Inc.	bob@brettassociates.com
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Hans Togesen – Society Delegate and Past President Boeing Co.	hans.j.togesen@boeing.com
Jon Mathison – Society Delegate and Webmaster Advanced Industrial Automation	jon@advancedia.com

Recent Events

- Executive Committee Meeting – September 21st
- Tour of King County Fuel Cell Demonstration Project in Renton – September 28th
- Executive Committee Meeting – October 12th
- Microsoft's Strategy for Industrial Automation and Cyber Security Presentation – October 12th

Upcoming Events

- Executive Committee Meeting – November 8th
- WSDOT Dayton Control Center Tour – November 9th

ISA–The Instrumentation, Systems, and Automation Society

ISA EXPO 2005

AUTOMATION + CONTROL CONFERENCE, TRAINING AND EXHIBITION

25-27 October • McCormick Place Lakeside Center • Chicago, IL

Seattle Section Welcomes the Following New Members

September, 2005

Curtis Clute – Casne Engineering Inc.

Proposed 2005/2006 Schedule of Events

Most events are held evenings on the second Wednesday of the month and are preceded by a social/dinner with social starting at 5:30 pm, dinner at 6:00 pm, and tours/event starting at 7:00 pm. Tours are free to ISA members. Drinks and dinner costs are the responsibility of attendees. Exceptions are noted within event details.

November 9, 2005
Tour at 6:30 pm, Dinner following Tour
WSDOT Dayton Control Center Tour
Contact: Jon Mathison

January 11, 2006
Social at 5:30 pm, Dinner at 6:00
Red Hook Brewery
Contact: Ed Peterson

February 8, 2006
Social at 5:30 pm, Dinner at 6:00
ISA Seminar
North Seattle Community College
Contact: Frank Jump

March 8, 2006
Social at 5:30 pm, Dinner at 6:00
Ship Pilot Training Center
Contact: Frank Jump

April 15, 2006
PACCAR Tour and Tulip Festival
Contact: Wayne Strand

May 10, 2006
Social at 5:30 pm, Dinner at 6:00
Coast Guard Cutter Ice Breaker Tour
Contact: MaryAnn Jordan

June 17, 2006
Exchange of Officers Program
Victoria Clipper Cruise
Contact: MaryAnn Jordan

October 12th, 2005

Microsoft's Strategy for Industrial Automation and Cyber Security Presentation

A big thank you to Ron Sielinski, a Microsoft Technical Strategist, for his presentation at the North Seattle Community College. The ISA SP99 standards effort is a real world byproduct of the concern members have around the issue of industrial automation and cyber security. Prior to joining Microsoft, Ron was a senior controls engineer within the automotive industry and so brought a practical perspective to the discussion. Those who attended gained a valuable insight into the design process Microsoft utilizes and had an opportunity to help Microsoft better understand the basic requirements of automation systems and those responsible for maintaining these systems.

Washington State Department of Transportation
Dayton Control Center

Wednesday, November 9, 2005
Tour 6:30 p.m.
Dinner Immediately Following

15700 Dayton Avenue North
Seattle, WA 98133
Receptionist 206-440-4000

The Dayton facility houses an extensive CCTV system to process traffic images from around the Seattle region, covering about 110 miles of Puget Sound's highways. The images are monitored by the staff as well as being fed to local TV stations. The live CCTV feeds are used for broadcast travel information as well as a dedicated University channel which has 24 hour a day broadcasting solely for travel information. External links to the CCTV system include access by the police but different levels of permission exist to manage the various users of the system. Functions carried out at the operations center that are subject to this include camera control, ramp metering control, and the variable message sign system.

The Dayton facility is equipped with direct links to the State Police highway patrol incident computer. A dedicated monitor displays incidents as soon as the police have entered them. Operators have the option of using the CCTV system to verify the incident. Computer entered incident reports are directed to the Internet server to be incorporated into the site content.

More than 3,000 inductive detection loops installed around the freeways are used to calculate congestion levels. The data is fed into a custom written piece of software to generate a graphical congestion map. The map provides an impression of the state of the entire freeway around Puget Sound. The map was developed using a computer drawing of the road network and software (written in C) scans congestion levels then shades areas of the map different colors for different levels of traffic flow. The facility's display includes icons for ramp meters and other highway equipment and acts more as a geographical information system including fault status of the various equipment out on the street.

The tour begins at 6:30 pm. Our speaker and guide will be Kevin Mizuta. Because of the early start time, dinner will be immediately following the tour at the Red Robin at Northgate.

Directions to the Dayton Control Center:

From the North
Take I-5 south and take the NE 175th Street Exit (Exit 176). Turn right on 175th and continue to Aurora Avenue. Turn left on Aurora Avenue and go south to NE 160th Street. Turn right on NE 160th Street and go up the hill to Dayton Avenue. Turn left onto Dayton Avenue and go a short distance to the Department of Transportation entrance, which is on the left.

From Central Seattle and points further south
Take I-5 north and take the NE 145th Street Exit (Exit 175). Turn left on 145th, continue west past Aurora Avenue and go to Greenwood. Turn right on Greenwood, go around the bend to the right and then take a left onto Dayton Avenue. Turn right into the Department of Transportation office.

The ISA Seattle Section Newsletter is published monthly for the benefit of the ISA Seattle Section members. Any input as to content or format suggestions should be directed to maryann.jordan@bp.com. Be sure to visit the Seattle Section website at http://www.isa.org/~seattle for event updates and current news.