Power Industry Division Newsletter

What’s Watt

Director’s Message
by Dan Lee

Hello to all Power Industry Division (POWID)
Members from your ISA Power Industry
Division Director. Your POWID Executive
Committee met at ISA Headquarters in
Research Triangle Park, NC, on 19 February to plan our division
agenda for 2008. POWID is busy preparing for our 18th Annual
ISA POWID/EPRI Controls and Instrumentation Conference (51st
POWID Symposium). While the Executive Committee meeting
minutes will be issued separately, I would like to summarize
some of the plans and goals for our division in this newsletter.

Our 18th Annual Joint ISA POWID/EPRI Controls and
Instrumentation Conference (51st Annual ISA POWID
Symposium) will be held on 8-13 June, 2008, at the Hilton
Scottsdale Resort, Scottsdale, AZ. Dennis Younie (General Chair),
Don Labbe (ISA Co-Program Chair) and Aaron Hussey (EPRI Co-
Program Chair) have put together a very exciting program for
our upcoming conference. Besides the technical paper session,
Dennis’ plans include an opening reception, a spouses program,
keynote speaker, training classes, standards meetings, and ven-
dor exhibits. The theme for this conference is “The Pathway to
Power Automation for the 2010 Decade.” This conference is an
opportunity to hear many excellent papers and an opportunity
to network with your peers, both old and new. Please review
the program information in this newsletter. Registration for this
conference and all conference details can be found on our
Conference web site at www.isa.org/powersymp.

The POWID Executive Committee would like to thank our utili-
ty and corporate sponsors: ABB, Emerson, Invensys, Honeywell,
Metso, Power Magazine, Salt River Project, Wood Group and
Yokogawa (see sponsor list), for their support in making the
2008 Symposium a success. Dennis Younie is the General Chair
for the 2008 Symposium.

The POWID Executive Committee met 19 February, at ISA
Headquarters. Some key topics from our last Executive
Committee meeting included:

• The POWID Executive Committee has voted in three new
Members to the POWID Board; Jody Damron (SRP), Don
Andrasik (Mirant) and Bob Queenan (Scientech). Welcome
to our new board members.
• Dave Evely has volunteered to assume the Newsletter Editor
role later this year.
• POWID is working to develop a Power Community within
the ISA Technical Paper database. The Power Community
will help members search for specific technical papers pre-
sented at any POWID past events.
• POWID has voted to co-locate our 2009 Symposium with the
Electric Power conference. This conference will be held in
Chicago on 10-15 May, 2009. Details will be provided later.
• ISA77 committee reported recent activities on standards
committee (see recent meeting minutes).
• ISA77 is calling for new members for three committees. If
you are interested in supporting standards, please contact
the corresponding committee chairs. (see call for new ISA77
committee members)
• POWID membership is increasing (see Welcome to New
Members).
• POWID officers will attend the ISA Leader’s Meeting on
31 May–3 June in West Palm Beach, FL.

I attended the ISA Leadership meeting on 27-28 January at ISA
Headquarters. The Leadership meeting was very positive and
informative. Our new ISA president, Kim Miller Dunn, has creat-
ed an ISA Society “State of the Union Address” that reflects her
personal impression of the status of the automation profession,
and the key relevance of ISA to this industry. Please take the
time to read her ISA State of the Union Address at
www.isa.org/StateOfTheUnion.

New this year is an ISA President’s blog on the ISA website. Here
you will find timely news of major new ISA developments and
their impact on the automation profession, along with Kim’s per-
sonal analysis. The Blog is called “ISA Connections” (www.isa.org/
connections) and is updated every Monday morning.

I will continue using the ISA Lyris service to broadcast an occa-
sional email and our electronic newsletter. If you are a new
POWID member or if you are uncertain whether you are in the POWID Lyris database please subscribe using the following steps:
1) Connect to www.isa.org/Lyris
2) Select “ISA Technical Division”
3) Select “powid”
4) Select “Join POWID” and register

In conclusion, the next POWID Executive Committee meeting is scheduled before our next Symposium in Scottsdale, AZ. If you have any questions or suggestions, please send me an email message at dan.lee@us.abb.com.

Best Regards,
Daniel Lee
2007-2008 ISA Power Industry Division Director

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**Advertise with POWID**

Promote your products and services to a very specific, focused readership of power industry instrumentation and control engineers and managers by advertising in this newsletter.

Advertisements will run for three consecutive issues (typically May, August and September) based on the payment schedule below.

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<thead>
<tr>
<th>Newsletter Location</th>
<th>Ad Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>Inside Front Cover</td>
<td>Full Page</td>
<td>$500.00</td>
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<td>Back Cover</td>
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Advertisement rates also include a link to your advertisement being presented on the POWID website. For further information please visit the POWID website at: http://www.isa.org/~powid/POWIDNLAdsLetterandOrderForm7-05-07.doc

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**Upcoming ISA/POWID International Conferences**

**Joint POWID/EPRI Conferences:**
- Scottsdale, AZ .................... 8–13 June 2008
- Chicago, IL ....................... 10–15 May 2009

**ISA EXPO:**
- Houston, TX ...................... 14–16 October 2008
- Houston, TX ...................... 6–8 October 2009

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**Power Industry Division Officers**

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dan.antonellis@ips.invensys
Welcome to the 51st Annual ISA POWID Symposium, 18th Annual Joint POWID/EPRI Conference!

The 2008 Conference will be held 8-13 June 2008, at the Hilton Resort and Villas in Scottsdale, AZ. This event provides power generation industry leaders with information on the latest innovations in instrumentation, automation, security and business systems technologies.

Each year this international conference brings together industry professionals in the Power Generation field with a primary focus on Instrumentation and Controls; the largest single event of its type. We anticipate over 50 technical papers / presentations during joint sessions with fossil and nuclear focus, presented over a 2 ½ day period. Additional schedule items include keynote messages from industry leaders, ISA and industry training sessions, EPRI Interest Group Meeting, ISA Power Plant Standards working group meetings, Honors and Awards Banquet, and vendor exhibits by key suppliers. The Opening Night Reception will feature entertainment with a local flair.

This year’s Scottsdale location has over 2,500 boutiques, shops and galleries offering whatever shopping experience you may seek. Over 100 local restaurants can meet your dining desires. The Hilton provides a free shuttle within a three mile radius, and is 2 miles north of Old Town Scottsdale. The Scottsdale Trolley offers a free ride throughout downtown Scottsdale from 11-9 daily.

An enjoyable spouse’s program will keep your guest/spouse busy during conference hours. Details coming soon to the Conference Website.

A short 15 minute ride north from Phoenix Sky Harbor Airport will get you to the Conference hotel. The ISA hotel rate includes unlimited use of Health Club and free wireless internet.

Please mark your calendar and join us in Scottsdale!

Conference Contacts:

General Chairman – Denny Younie, (970) 231-9875
denny.younie@woodgroup.com

Program Co-Chairman – Don Labbe, (508) 549-6554
Donald.Labbe@IPS.Invensys.com

Program Co-Chairman – Aaron Hussey
AHussey@EPRI.com

ISA Administrator, Technical Divisions/Symposia - Rodney Jones, (919) 990-9418 rjones@isa.org

2008 ISA POWID/EPRI Conference Sponsors

On behalf of the 2008 ISA POWID/EPRI Conference Committee and the entire POWID Executive Committee, please accept our sincere gratitude for your conference sponsorship.

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Preliminary Program Introduction
Every spring ISA POWID and EPRI host a Technical Conference specifically dedicated to Automation and Instrumentation in the Power Industry. Over the years many innovations in automation have been presented at our conferences. The forum has rigid non-commercial requirements and peer review for all technical papers assuring high quality technical content, which sets this conference apart from most other industry conferences.

The resurgence in nuclear power has prompted a full Nuclear Track to address the advances in automation technology in the nuclear industry. The exciting developments in the fossil industry coupled with new regulatory requirements drive power plant automation to new heights. The preliminary program has been formulated to present these developments along with case studies. The General Track is briefly described here and the Nuclear Track is described in some detail in another section of this newsletter.

General Track
G1. Advancing Open Systems Architecture
Ten years ago in Phoenix at the 41st Annual ISA POWID Symposium and 8th Annual ISA POWID/EPRI Conference the five major DCS vendors presented a forum on DCS Open Systems Architecture. Now in 2008 these same five DCS vendors will present their visions of the Open Systems concept and how their systems are a platform for plant wide and fleet wide integration of controls and information technologies.

G2A. From the Trenches-Power Plant Control, Automation and Software Experiences
Original research into experience at the plant level with performance, monitoring, and knowledge management software will be reviewed. Other presentations will address how various software, diagnostic, and control strategies can be better integrated into a more unified, and useful whole. Advanced analytics; application of new devices, and their role in making software better and smarter; centralized performance monitoring; and much more.

G2B. Alarm Management and Automated Diagnostic Systems
Unit operational challenges were not resolved by the wealth of additional data provided by DCS conversions, in fact these systems can contribute to operator overload. Additionally the wealth of new data could potentially be applied in equipment maintenance practices to reduce forced outages and curtailments and shorten planned outages. The latest developments in alarm management and automatic diagnostic systems will be discussed in this session with examples of Power applications.

G3. NERC CIP Cyber Security Standard Compliance
NERC CIP standards have been approved and generators must be substantially compliant by the end of 2008. This session will clarify the standards and requirements and provide real plant examples of compliance solutions. The timing of the conference provides an excellent opportunity to glean methodologies to attain NERC CIP standard compliance for critical cyber assets and an update on related developments.

G4A1. NERC CIP Cyber Security Standard Compliance Panel Session
A panel session of authorities and experts on this subject will relate their experiences.

G4B. Advanced Controls
Our advanced control sessions have traditionally combined papers on breakthrough technologies and highly successful applications in the Power industry. With the ever increasing demands on NOx, SOx, mercury and opacity emission reductions, heat rate improvement with CO2 benefits and enhancing ramp rate to meet faster dispatch requirements, advanced controls provide unique methodologies to attain significant performance improvements beyond traditional controls.

G4A2. Wireless
Last year’s Wireless session provided the latest on technology and Power industry examples of highly successful applications. In ’08 the session will present further developments in the technology and highlight plant applications. Issues to be discussed include wireless protocols, difficulties with wireless sensor installations such as lack of available power, the need for long range communications, presence of obstacles and blocked line-of-sight, and the difficulties of hazardous area classifications. Various solutions will be presented for these issues. Applications where wireless solutions enable new capabilities and solve difficult measurement problems not presently served with wired instrumentation will be highlighted.

G5. Turbine Automation & Performance Optimization
Advances in high speed digital sensors and processing technology have expanded the breath of automation available to the rotating equipment control area. This session will expound on the latest automation technology and discuss the real world benefits, such as faster start-ups and superior protection. Also, case studies of the optimization of boilers and condensers and their net impact on turbine net generation and overall cycle efficiency will be presented.

For the latest Conference Program please visit the following web site: www.isa.org/powersymp.
# 18th ISA POWID/EPRI Controls & Instrumentation Conference
## 51st Annual ISA POWID Symposium
**June 8 – 13, 2008, Scottsdale, Arizona**

**The Pathway to Power Automation for the 2010 Decade**

## Preliminary Program

### Sunday, June 8th

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am - 5:00 pm</td>
<td>Long Range Planning &amp; Executive Committee Meeting - Sonora A</td>
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<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Registration - near Sonora A</td>
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<tr>
<td>12:00 pm - 4:00 pm</td>
<td>Vendor Setup – Grand Ballroom</td>
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<tr>
<td>4:00 pm - 6:00 pm</td>
<td>Vendor Exhibits – Grand Ballroom</td>
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<tr>
<td>6:00 pm - 9:00 pm</td>
<td>Welcome Reception – Pool Side</td>
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### Monday, June 9th

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 am - 7:30 am</td>
<td>Author’s Breakfast (Sonora D)</td>
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<tr>
<td>7:00 am - 5:00 pm</td>
<td>Registration - near Sonora A (Breezeway)</td>
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<tr>
<td>7:30 am - 9:00 am</td>
<td>Spouse’s Lounge – Executive Board Room</td>
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<tr>
<td>8:00 am - 8:45 am</td>
<td>Welcome Address by Kim Miller-Dunn, ISA President &amp; POWID Officers – Grand Ballroom</td>
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<tr>
<td>8:45 am - 9:30 am</td>
<td>Hash Chitale&lt;br&gt;Vice President, Strategy and Global Marketing&lt;br&gt;Honeywell Process Solutions, Keynote Speaker – Grand Ballroom</td>
</tr>
<tr>
<td>12:00 pm - 2:00 pm</td>
<td>Awards Luncheon&lt;br&gt;Glen Reeves, Manager Power Generation, Salt River Project - Luncheon Guest Speaker&lt;br&gt;Recognition of POWID Leadership People, Facilities &amp; Authors – Grand Ballroom</td>
</tr>
</tbody>
</table>

### New Session: N1-New Plant I&C Design-Tutorial Session<br>(Sonora C/D)<br>Session Developer – Tim Hurst, Hurst Technologies, Inc.


G2A From the Trenches—Power Plant Control, Automation and Software Experience
(Grand Ballroom)
Session Developer – Jason Makansi – Pearl Street, Inc.

P013 - Control System Retrofit – Upgrading from the 70's to the New Millennium – In Two Weeks or Less, Kevin Gengshy – PT Inco
P035 - Documenting Power Generation Instrument and Control Data, Jody Dantron & Laura Somak – Salt River Project
P056 - Combined Cycle startup Simulation with Simulink and Stateflow, Damien Faille – Electricité de France

N2 Nuclear Control Room Simulators & Training Tutorial Session
(Sonora A/B)
Session Developer – Frank Quinn – Hurst Technologies, Inc.

P014 - Nuclear Power - Nuclear Control Room Simulators & Training, John Mack – Westinghouse Electric Co.
P051 - Use of Training Simulators in Beyond Design Applications, Oussama Assy – Western Services Corp.
P067 - High Fidelity Virtual Environment for Nuclear Power Plant Operations Planning and Operator Training, Randel Crowe & Frank Boosman – Lockheed Martin
P074 - Simulators and Nuclear New Builds, Robert Boire – L-3 Communications
MAPPs, Inc.

G2B Alarm Management and Automated Diagnostic Systems
(Sonora C/D)
Session Developer – Tim McCreary – HF Controls

P009 - Automated Method to Sustain Control System Performance, George Backbee – ExperTune, Inc.
P034 - Automated short circuit testing System, Julio Montero, Jose Velazquez & Alfredo Sanchez – Electrical Research Institute
P036 - Continuous Alarm Management, Martin Hollander & Carsten Reuthel – ABB
P038 - A Novel Instrument for in-situ NOx Measurement Applied to SCR Units, Peter DeBarber & Donna Deearmon – HCRIBA Instruments, Inc.
P048 - The Complement of DCS Alarm function, Byung-Woo Jeon & In-Yong Lee – Korea Western Power Co. LTD
P052 - A Software-based Approach to Support Communication Interoperability Between Multiple Electronic Devices, M. Bravo, J. Velazquez & C. Perez – Instituto de Investigaciones Electricas

Tuesday, June 10th

6:30 am – 7:30 am
Author’s Breakfast (Sonora D)

7:00 am - 5:00 pm
Registration – near Sonora A (Breezeway)

7:30 am – 9:00 am
Spouse’s Lounge – Executive Board Room

Morning Sessions
8:00 am - 11:00 am

G3 NERC CIP Cyber Security Standard Compliance
(Grand Ballroom)
Session Developer – Jim Bausch - PPL

P012 - Achieving & Managing NERC CIP Compliance, Clayton Coleman & James Basset - Invensys Process Systems
P020 - Detailed Analyses of Control System Cyber Events, Joe Weiss - Applied Control Solutions & Marshall Abrams - The MITRE Corp.
P023 - Cyber Security - Are We Progressing Rapidly Enough, Thomas Kropp - Dyconx
P060 - Control and Information Systems Security, Kevin Suggs - Honeywell Process Solutions

N3A Human Factors
(Sonora A/B)
Session Developer – Frank Quinn – Hurst Technologies, Inc.

P015 - The Incorporation of Human Factors Engineering into Design of the AP1000 Nuclear Power Plant, Julie Reed – Westinghouse Electric Co.
P027 - Human Factor Engineering & HSI Design in the US-APWR, Kenji Mihashi – Mitsubishi Heavy Industries, Ltd.
P033 - Human Factors Verification and Validation of the Advanced Nuclear Plant Control Room Design, Kim Yu & Richard Gutierrez – GEH
P063 - Control Systems & Control Rooms: How Cognitive and Social Domains Influence Decision Making, Abe Mellich – Lockheed Martin

N3B Condition Monitoring & Online Diagnostics
(Sonora C/D)
Session Developer – Dave Bell – Smart Signal

P023 - PSAD A modular system for condition-based maintenance for EDF, Francois Peyre-Peyroula – Atos Origin

11:00 am – 1:00 pm
Lunch (Grand Ballroom)

1:00 pm – 3:00 pm
Vendor Exhibits (Grand Ballroom)
<table>
<thead>
<tr>
<th>G4A1 NERC CIP Cyber Security Standard Compliance Panel Session (1:00 pm – 2:45 pm) (Grand Ballroom) Session Developer – Jim Batug - PPL</th>
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</thead>
<tbody>
<tr>
<td>P006 - Process Control System Security Issues – Perspectives, Bruce Jensen - Yokogawa Corp. of America</td>
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<tr>
<td>P019 - Cyber Security, Joe Weiss - Applied Control Solutions</td>
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<tr>
<td>P039 – NRC Sponsored Cyber-Security Assessment Projects at Sandia National Laboratories, Francis Wyant, John Michalski – Sandia National Laboratories &amp; David Raitn - U.S. NRC</td>
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<tr>
<th>N4 Digital Based I&amp;C Regulatory Activities (Sonora A/B) Session Developer – Ray Torek - EPRI</th>
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<tbody>
<tr>
<td>P018 - Resolution of Human Factors Technical and Regulatory Issues for New Plants and for Modification of Operating Plants, Robert Fink - CDF Services, Inc. &amp; Joseph Naser - EPRI</td>
</tr>
<tr>
<td>P053 - Protecting Against Common-Cause Failures in Digital I&amp;C Systems – Approach for Addressing Key Technical and Regulatory Issues, Ray Torek – EPRI &amp; Thuy Nguyen - Electricite de France</td>
</tr>
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<tr>
<th>G4B Advanced Controls (Sonora C/D) Session Developer – Dr. Joseph Bentsman – University of Illinois</th>
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<tbody>
<tr>
<td>P001 - Intelligent Fuzzy Control For Multi Variable Four Tank System, Kaliamurthy Sudha, Dr. R. Rani Hemamalini, M. Suresh &amp; N. Sri MadhavaRaju - St.Peter's Engineering College</td>
</tr>
<tr>
<td>P042 - Controller Design for a Nonlinear Drum-Boiler Turbine System, Shizhong Yang &amp; Chunjian Qian - The University of Texas at San Antonio</td>
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<tr>
<th>2:45 pm - 3:00 pm</th>
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<td>Afternoon Break</td>
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<tr>
<th>G4A2 Wireless (3:00 pm – 5:00 pm) (Grand Ballroom) Session Developer – Aaron Hussey - EPRI</th>
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<tr>
<td>P002 - Integrating Wireless Retriffs Into Power Plant Automation Strategies, For Enhanced Plant Asset Management, Condition Monitoring And Maintenance, Paul Sereko - Airspring Technologies</td>
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<tr>
<td>P040 - Developing a protocol driver to communicate Remote Terminal Units using a data flow based industrial automation software, Alfredo Sanchez, Pello Leon &amp; Fernando Rivas - Electrical Research Institute</td>
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<td>P061 - Wireless Unlock the Possibilities: Getting Started, Cindy Bloodgood - Honeywell Process Solutions</td>
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<tr>
<th>N4 Digital Based I&amp;C Regulatory Activities (Sonora A/B) Session Developer – Ray Torek - EPRI</th>
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<tbody>
<tr>
<td>P058 - Regulatory Perspectives on Diversity and Defeas-in-Depth (D3) for Digital Instrumentations &amp; Controls, Jeon Jung – U.S. NRC</td>
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<tr>
<td>P065 - Combined License (COL) Related Activities &amp; Issues, Dinesh Tanveja – U.S. NRC</td>
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<tr>
<td>P070 - Development of Digital Instrumentation and Control Guidance for Nuclear Power Plants, Steven Arndt – U.S. NRC</td>
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<td>P071 - Status of Risk-Informed Activities Associated with Licensing of Digital I&amp;C, David Blanchard-AREI</td>
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<tr>
<th>G4B Advanced Controls (Sonora C/D) Session Developer – Dr. Joseph Bentsman – University of Illinois</th>
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<tbody>
<tr>
<td>P050 - Method of self tuning of gain simplex on feedforward controls, Luis Lopez Mannique, Luis Lopez Villareal &amp; Lucio Lopez Villareal – Universidad Juarez Autonoma</td>
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<td>P072 - Characterization of NOx Emissions from the Morgantown Station by Perturbation Method™ Testing, Murray Abbott – Fuel And Furnace Consulting</td>
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<th>5:00 pm – 7:00 pm</th>
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<tr>
<td>Vendor Exhibits (Grand Ballroom)</td>
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### Wednesday, June 11th

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<tbody>
<tr>
<td>6:30 am - 7:30 am</td>
<td>Author’s Breakfast (Sonora D)</td>
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<tr>
<td>7:00 am - 12:00 pm</td>
<td>Registration – near Sonora A (Breezeway)</td>
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<tr>
<td>7:30 am - 9:00 am</td>
<td>Spouses Lounge – Executive Board Room</td>
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<tr>
<td>Morning Sessions: 8:00 am - 11:30 am</td>
<td><strong>G5 Turbine Automation &amp; Performance Optimization</strong> (Sonora A/B)</td>
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<td></td>
<td><strong>Session Developer – Jeff Schleiss – Wood Group</strong></td>
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<td></td>
<td>P003 - Electronic Turbine Control System P400-TCS installed at the Mondi Packaging Paper, Święcie, Poland Case Study, Jerry Koczyński – Alstom, Zbigniew Lemieszko – Saturn Management</td>
</tr>
<tr>
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<td>P037 - Equipment Upgrades and Phased Optimization Enhance Unit Performance, Don Labbe - Invesys Process Systems, Darryl Roberts &amp; Jeff Brown – SMEPA</td>
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<td>P046 - A Comparison of Electro-hydraulic Control System Fluids, Jeffrey Raza &amp; Wood Group Turbine Control Services</td>
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<td>P047 - 500MW TBN Governor Valve Characteristic Curve Modification, Gi-Sang Kim &amp; In-Yong Lee – Korea Western Power Co. LTD</td>
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<td>P049 - The Optimization of Main Suction Temperature, Ju-seob Jung &amp; In-Yong Lee – Korea Western Power Co. LTD</td>
</tr>
<tr>
<td>11:30 am - 12:00 pm</td>
<td>Closing Comments (Grand Ballroom)</td>
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<tr>
<td>12:00 pm - 1:00 pm</td>
<td><strong>ISA Conference Critique Meeting (Fennings)</strong></td>
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<td><strong>Note:</strong> Open only to Conference Committee Members and EXCOM Members</td>
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<tr>
<td>12:00 pm - 1:00 pm</td>
<td><strong>Exhibitor Critique Meeting (Grand Ballroom)</strong></td>
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<td><strong>Lunch (Grand Ballroom)</strong></td>
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<tr>
<td>1:00 pm - 3:00 pm</td>
<td><strong>ISA 77 Committee Meeting (Sonora A)</strong></td>
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<td>3:00 pm - 5:00 pm</td>
<td><strong>ISA 67 Committee Meeting (Sonora A)</strong></td>
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<td>5:00 pm - 7:00 pm</td>
<td><strong>Joint DOE/EPR1 I&amp;C Workshop (Sonora B)</strong></td>
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<td><strong>(Dinner provided following meeting)</strong></td>
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### Thursday, June 12th

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am - 5:00 pm</td>
<td><strong>ISA 77 Standards &amp; Committee Meeting</strong> (Meeting Room ?)</td>
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<tr>
<td>8:00 am - 12:00 pm</td>
<td><strong>ISA 67:04 Standards &amp; Committee Meeting</strong> (Sonora A)</td>
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<tr>
<td>1:00 pm - 4:00 pm</td>
<td><strong>Joint DOE/EPR1 I&amp;C Workshop (Sonora B)</strong></td>
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<tr>
<td>8:00 am - 4:00 pm</td>
<td><strong>ES15C</strong> Introduction to Boiler Control Systems (Sonora C)</td>
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<tr>
<td></td>
<td><strong>IC32C</strong> Securing Industrial Networks: Cyber Protection for Automation, Control and SCADA Systems (Sonora D)</td>
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### Friday, June 13th

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<tr>
<th>Time</th>
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<tr>
<td>8:00 am - 4:00 pm</td>
<td><strong>ISA Training Classes</strong></td>
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<td><strong>ES16C</strong> Boiler Burner Management-Meeting NFPA Standards (Sonora C)</td>
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<td></td>
<td><strong>TC05C1</strong> Tuning of Feedback Controllers (Sonora D)</td>
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Post Conference Training Courses

The following training courses are held in conjunction with the 18th Annual Joint ISA POWID/EPRI Controls and Instrumentation Conference at the Hilton Scottsdale Resort, 6333 North Scottsdale Road, Scottsdale, AZ 85250-5428

ES15C - Introduction to Boiler Control Systems

Date: June 12, 2008
IE: 8:00 AM - 4:00 PM (7 hours)
Instructor: Jerry Gilman
Max Capacity: 30
Price: $445 Member; $495 Nonmember
CEUs: .7

IC32C - Securing Industrial Networks: Cyber Protection for Automation, Control and SCADA Systems

Date: 6/12/2008
IE: 8:00 AM - 4:00 PM (7 hours)
Instructor: Wayne Manges
Max Capacity: 30
Price: $445 Member; $495 Nonmember
CEUs: .7
http://www.isa.org/Template.cfm?Section=Education_and_Training&template=/TaggedPage/DetailDisplay.cfm&ContentID=62658

ES16C - Boiler Burner Management Systems - Meeting NFPA Standards

Date: 6/13/2008
IE: 8:00 AM - 4:00 PM (7 hours)
Instructor: Jerry Gilman
Max Capacity: 30
Price: $445 Member; $495 Nonmember
CEUs: .7
http://www.isa.org/Template.cfm?Section=Education_and_Training1&template=/TaggedPage/DetailDisplay.cfm&ContentID=63538

TC05C1 - Tuning of Feedback Controllers

Date: 6/13/2008
IE: 8:00 AM - 4:00 PM (7 hours)
Instructor: Don Gillum
Max Capacity: 30
Price: $445 Member; $495 Nonmember
CEUs: .7
http://www.isa.org/Content/ContentGroups/Training/Training_Course_Descriptions/Tuning_of_Feedback_Controllers_(TC05C1).htm

Call for ISA77 Subcommittee Members

POWID Members,

Your Fossil Power Plant Control (ISA77) committee recently held a meeting at ISA Headquarters to review the progress and status of the various ISA77 series standards. I am glad to report that the ISA77 committee is still active in reaffirming existing standards and drafting new standards. For more information please visit the ISA77 web site and any of the individual ISA77 series standard webpage.

ISA77 is calling for new members for three committees. If you are interested in any of these topics and wish to be a voting or information subcommittee member please contact the following committee chair members:

SP77.20.01 Fossil Power Plant Simulators Standard up for Reaffirmation
Chair: Alex Lekich (alex.lekich@gses.com)

SP77.70 Instrument Piping Standard Standard up for Reaffirmation
Chair: David Roney (acting) (david.roney@wgint.com)

TR77.70.01 Tracking and Controlling Instrument Documentation in Fossil Power Plants New Technical Report
Chair: Jody Damron
(jody.damron@srpnet.com)

Regards,
David Roney
ISA77 Chair
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<tr>
<th><strong>ISA POWID DIVISION</strong></th>
<th><strong>Professional Development</strong></th>
<th><strong>Digital Based I&amp;C Regulatory Activities</strong></th>
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<tr>
<td><strong>Director</strong></td>
<td>Tom Stevenson</td>
<td>Ray Torok</td>
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<td>Dan Lee</td>
<td>Constellation Energy Group</td>
<td>EPRI</td>
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<tr>
<td>ABB, Inc.</td>
<td>Baltimore Gas &amp; Electric</td>
<td>(650) 855-2776</td>
</tr>
<tr>
<td>(440) 585-6063</td>
<td>(410) 772-3503</td>
<td><a href="mailto:RTOROK@epri.com">RTOROK@epri.com</a></td>
</tr>
<tr>
<td><a href="mailto:dan.lee@us.abb.com">dan.lee@us.abb.com</a></td>
<td><a href="mailto:thomas.w.stevenson@constellation.com">thomas.w.stevenson@constellation.com</a></td>
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| **Director-Elect**      | Gordon McFarland            | Jim Batug                         |
| Cyrus Taft              | Emerson Process Management  | PPL                               |
| Taft Engineering        | (706) 484-0570              | jpbatug@pplweb.com                |
| (865) 850-4460          | Gordon.McFarland@EmersonProcess.com |

| **CONFERENCE**          | **SESSION DEVELOPERS - Fossil Track** | **SESSION DEVELOPERS - Nuclear Track** |
| Conference General Chair| Advancing Open Systems Architecture | New Plant I&C Design               |
| Denny Younie            | Gordon McFarland             | Tim Hurst                         |
| Wood Group              | Emerson Process Management  | Hurst Technologies, Corp.         |
| (970) 231-9875          | (706) 484-0570               | (301) 830-0283                    |
| denny.younie@woodgroup.com | Gordon.McFarland@EmersonProcess.com | frankq@hursttech.com |

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<tr>
<th><strong>POWID Web Page Co-Cordinator</strong></th>
<th><strong>Fossil Plant Software Experiences</strong></th>
<th><strong>NERC CIP Cyber Security Standard Compliance</strong></th>
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<tr>
<td>Gary A. Cohee</td>
<td>Jason Makansi</td>
<td>Jim Batug</td>
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<tr>
<td>Applied Control Systems</td>
<td>Pearl Street Inc.</td>
<td>PPL</td>
</tr>
<tr>
<td>(409) 790-1945</td>
<td>(314) 495-4545</td>
<td><a href="mailto:jpbatug@pplweb.com">jpbatug@pplweb.com</a></td>
</tr>
<tr>
<td><a href="mailto:garycohee@aol.com">garycohee@aol.com</a></td>
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<tr>
<td>Allan J. Zadiraka</td>
<td>Dr. Joseph Bentsman</td>
<td>Aaron Hussey</td>
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<tr>
<td>The Babcock &amp; Wilcox Company</td>
<td>University of Illinois</td>
<td>EPRI</td>
</tr>
<tr>
<td>(330) 860-1376</td>
<td><a href="mailto:jbentsma@uiuc.edu">jbentsma@uiuc.edu</a></td>
<td>(704) 595-2009</td>
</tr>
<tr>
<td><a href="mailto:ajzadiraka@babcock.com">ajzadiraka@babcock.com</a></td>
<td></td>
<td><a href="mailto:Ahussey@EPRI.com">Ahussey@EPRI.com</a></td>
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<td>Tim McCreary</td>
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<td>RTP Corp.</td>
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<tr>
<td></td>
<td>(954) 604-9470</td>
<td>(954) 604-9470</td>
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<tr>
<td></td>
<td><a href="mailto:timmccmd@aol.com">timmccmd@aol.com</a></td>
<td><a href="mailto:timmccmd@aol.com">timmccmd@aol.com</a></td>
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<td>New Plant I&amp;C Design</td>
<td>Current I&amp;C Activities</td>
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<td></td>
<td>Tim Hurst</td>
<td>Bob Queenan</td>
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<td></td>
<td>Hurst Technologies, Corp</td>
<td>NUS-Sientech</td>
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<td></td>
<td>(979) 849-5068</td>
<td>(208) 524-9311</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:timh@hursttech.com">timh@hursttech.com</a></td>
<td><a href="mailto:rqueenan@scientech.com">rqueenan@scientech.com</a></td>
</tr>
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| **ISA SUPPORT STAFF**          | **ISA Technical Divisions and Symposia Administrator** |
| ISA Marketing Team Leader       | Crystal Strickland                       |
| Crystal Strickland              | (919) 549-8411                           |
| (919) 549-8411                  | cstrickland@isa.org                      |
|                                | ISA Technical Divisions and Symposia Administrator |
|                                | Rodney Jones                            |
|                                | (919) 990-9418                          |
|                                | rjones@isa.org                          |
Mark your Calendars!
The Nuclear Power Sessions at the 18th ISA POWID/EPRI Controls & Instrumentation Conference
The Hilton Scottsdale Resort & Villas
8-13 June 2008, Scottsdale, AZ

It's where nuclear plant design meets 21st century I&C technology.

More than 30 new nuclear units have been announced or are proceeding through the licensing process. At the same time, most nuclear I&C specialists acknowledge that digital I&C continues to be a major hurdle for license applicants as well as for retrofit projects at existing units.

This conference is dedicated to bringing the industry stakeholders together so that a clear regulatory pathway emerges for digital I&C. You will hear the nuclear unit suppliers discuss their I&C designs and strategies; NRC, EPRI, and Nuclear Energy Institute leaders present the state of the regulatory framework; simulator, monitoring, and diagnostics firms advocate for state of the art solutions; and nuclear plant owner/operators review experience with digital I&C retrofit projects at their plants.

The POWID Nuclear sessions are being organized by Tim Hurst, Hurst Technologies Inc, Angleton, Texas; and Jason Makansi, Pearl Street Inc. E-mail timh@hursttech.com or jmakansi@pearlstreetinc.com if you have any questions. For details on the presentations, visit www.pearlstreetinc.com/ISA.Powid.Nuclear.2008.html. For registration and accommodation information, visit www.isa.org/powersymp.

We look forward to seeing you there!

18th ISA POWID/EPRI Controls and Instrumentation Conference Nuclear Sessions

Nuclear Program Developers:
Tim Hurst - timh@hursttech.com
Jason Makansi - jmakansi@pearlstreetinc.com

With more than two dozen new nuclear units now announced and/or proceeding through the licensing process, it is critical to focus the power industry's attention on one of the thorniest issues in plant design: Instrumentation and Control (I&C) and plant automation. While great strides have been made in I&C technology over the last ten years, the fact remains that there is no clear regulatory pathway for digital I&C and current owner/operators have struggled with I&C retrofit projects. While the U.S. nuclear business has been stalled for thirty years, the rest of the world has built, and now operate, commercial reactors based on the new technologies contemplated for the renaissance here.

The ISA/EPRI Power Industry Symposium (POWID), now in its 50th year, is the perfect venue for a series of sessions and technical presentations dedicated to this critical subject. As you will see in the preliminary program below, we expect to not only thoroughly cover this area but, through the POWID venue, get the power industry at large involved in creating new solutions and offering new ideas. Our goal is to make sure that advanced I&C issues are resolved in a timely way, thereby accelerating the nuclear resurgence in this country.

We welcome your participation and hope that you will submit a paper or presentation or choose to attend.

Be a part of something big!

Preliminary Schedule
Sessions that indicate an “acting” Session Developer are in need of a dedicated developer.
Please contact Tim Hurst or Jason Makansi if you are interested in taking the session.

POWID 2008 Nuclear Sessions

Monday, 9 June
1. NEW PLANT I&C DESIGN
AM Session, 9 June, 10:00 a.m. - 12:00 Noon
Session Developer: Tim Hurst - timh@hursttech.com

The resurgence of new nuclear plants brings with it a host of new digital-based control designs and instrumentation systems. This session will provide an overview of the new I&C Architectures and Technologies being implemented in the various new plant designs. Presentations have been invited and/or confirmed from:

a. GE Energy-US-ABWR
   (Invited)

b. Westinghouse Electric Corp P011-AP1000
   I&C Architecture and Data Communication Overview
   Author: Al Crew
   Affiliation: Westinghouse Electric Company

c. AREVA EPWR
   (Accepted-speak being confirmed)

d. GE Energy ESBWR
   (Invited)

e. Mitsubishi P026-US-APWR
   Instrumentation and Control Design
   Author: Shusuke Yuhashi
   Affiliation: Mitsubishi US

2. DIGITAL BASED I&C REGULATORY ACTIVITIES
PM Session, 9 June, 1:00 p.m. - 4:30 p.m.
Session Developer: Ray Torok - rtorok@epri.com

The state of the regulatory environment will be presented from experts with the NRC, NEI, EPRI, and Industry. Anticipated areas of discussion include software validation and verification, defense in depth and diversity, integrated control room and communications, human factors, and combined operating license application (COLA) review activities and issues.

The following presentations are confirmed:

a. P018 - Resolution of Human Factors Technical and Regulatory Issues for New Plants and for Modification of Operating Plants
   Author: Robert Fink
   Affiliation: CDF Services

Mark your Calendars!
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We look forward to seeing you there!
Tuesday, 10 June

3. A. NUCLEAR CONTROL ROOM SIMULATORS & TRAINING
AM Session, 10 June, 8:00 a.m. - 11:00 a.m.
Session Developer: Frank Quinn – frankq@hursttech.com

In conjunction with the new nuclear plants, great strides are being made in the design and application of training simulators. This session will focus on the current state of views full scope and partial scope simulators from some of the major nuclear plant simulator providers. Presentations are anticipated from:

a. GE-Hitachi
   (Invited)
b. L-3 Communications (MAPPS Inc.)
   (Accepted-speaker being confirmed)
c. Invensys
   (Invited)
d. P051 - Use of Training Simulators in Beyond Training Applications
   Author: Oussama Ashy
   Affiliation: Western Services Corporation
e. P014 - Nuclear Control Room Simulators & Training
   Author: John Mack
   Affiliation: Westinghouse Electric Company

3. B. CONDITION MONITORING & ONLINE DIAGNOSTICS
AM Session, 10 June, 8:00 a.m. - 11:00 a.m.
Session Developer: Dave Bell - drbell@smartsignal.com

Digital technologies bring enhanced diagnostic and prognostic or condition monitoring capabilities, including smart sensors and control elements, vibration monitoring, neutronics analysis, and neural networks. From smart sensors to increased process and large equipment diagnostic monitoring and assessments, the new capabilities will be incorporated in the new plant designs and eventually into existing plants. This session will focus on some of these new capabilities and how they help improve the reliability and financial objectives of nuclear facilities.

Committed presentations and topics include:

a. P016 - On-Line Data Analysis for Loose Parts and Core Barrel Vibration Monitoring
   Author: John Smith
   Affiliation: Westinghouse Electric Company

Wednesday, 11 June

5. A. DATA TECHNOLOGY IN NUCLEAR POWER APPLICATIONS
Wednesday Morning, 11 June, 8:00 a.m. – 11:30 a.m.
Session Developer: Lee McMullen - leem@hursttech.com

The full impact of the evolution from analog to digital-based technologies is still being assessed in the nuclear industry. The integration of information, use of graphical control interfaces, online procedures and many other I&C related design concepts present new challenges in Human Factors Engineering (HFE). The current plans and activities of the new plants for addressing the Human Factors issues will be presented.

Committed presentations and topics include:

a. New Plant HFE Programs
   1. P015 - The Incorporation of Human Factors Engineering Into Design of the AP1000 Nuclear Power Plant
      Author: Julie Reed
      Affiliation: Westinghouse Electric Company
   2. P027 - Human Factor Engineering and HSI Design in the US-APWR
      Author: Kenji Mashio
      Affiliation: Mitsubishi Heavy Industries, Ltd
   3. P033 - Human Factors Verification and Validation of the Advanced Nuclear Plant Control Room Design
      Author: Kim Yu
      Affiliation: General Electric Corp

b. Feedback from COL Reviews
ISA77 Fossil Fuel Power Plant Standards

Minutes of Meeting
Meeting: ISA Fossil Fuel Power Plant Standard Committee Meeting
Chairman: David Roney
Recorder: Jennifer Crumpler/David Roney
Date/Time: 20 February 2008
Location: ISA Headquarter, RTP, NC

Attendees:
Dan Lee  Gordon McFarland  Jim Olson
David Roney  Jerry Gilman  Gary Cohee
Cyrus Taft  Allan Zadiraka  Jody Damron
Laura Somak  Mukesh Pandya

ISA Staff: Jennifer Crumpler

David Roney called meeting to order at 8:15 a.m.

Introductions
Introductions were made by all present.

Review and Approval of Agenda
A motion was made to approve the agenda with minor modifications by Cyrus Taft, second by Dan Lee. Motion was approved.

Approval of Previous Meeting Minutes
A motion was made to approve the October 2007, minutes with minor modifications by Dan Lee, second by Gary Cohee. Motion was approved.

Opening Remarks Made by the Chair
David Roney welcomed Jody Damron and Laura Somak to the ISA77 committee meeting to work on new TR. The next meeting will be held in June 2008, in Phoenix, AZ.

ISA77 Subcommittee Reports:
ISA77.13 Turbine Steam Bypass Systems
Standard is undergoing final edits, then will be ready for re-balloting.

ISA77.14.01 Steam Turbine Controls
Comments are currently under review by Jeff Schleis. Jim Olson will get in touch w/ Denny to try to move the standard forward.

ISA77.20.01 Fossil Power Plant Simulators
Allan Zadiraka and Alex will attend a power plant simulation conference next week and will try to recruit new members to work on the subcommittee. Jody Damron noted a coworker may be interested in serving on the subcommittee.

TR77.40.01 Functional Symbol Diagramming
The SP77.40 WG1 met on Wednesday, Oct 3 to restart the effort to complete this standard. They reviewed action items, discussed comments, and posted Draft 9 on the web. Plans are to hold another WG meeting today to discuss 4.6 and 4.7.

ISA77.41.01 Boiler Combustion Controls
Allan Zadiraka recommended reaffirmation begin in spring, 2008, for publication in 2010. Jennifer Crumpler will send to committee for balloting.

5. B. CURRENT I&C ACTIVITIES
Wednesday Morning, 11 June, 8:00 a.m. – 11:30 a.m.
Session Developer: Bob Queenan- rqueenan@scientech.com

While new plants are catching the head lines, the existing plants continue to move forward in their quest to improve performance and reliability while decreasing overall costs. This session will focus on I&C-related projects recently completed or in progress at current nuclear facilities.

Session topics include:
- Presentations on recent projects.
- Feedback from plants with digital controls.

Committed presentations include:
- P005 - Feedwater Flowrate and Thermal Power Monitoring and Adjustment by Data Reconciliation in NPP’s
  Author: Javier Zornoza
  Affiliation: Electricite de France
- P017 - Nuclear Power - Current I&C Activities
  Author: Gary McWilliams
  Affiliation: Westinghouse Electric Company
- P022 - Model-based Testing of Safety Logics
  Author: Francois Cheriaux
  Affiliation: Electricite de France R&D
- P057 - Digital I&C Experience
  Author: Bruce Geddes
  Affiliation: Southern Engineering Services

Committed presentations include:
- P031 - Integrated Digital I&C Architectures in Nuclear Applications
  Author: Linda Santoline
  Affiliation: Westinghouse Electric Company
- P039 - NRC Sponsored Cyber-Security Assessment
  Projects at Sandia National Laboratories
  Author: Francis Wyant
  Affiliation: Sandia National Laboratories
ISA 5.1 Subcommittee
Dan Lee reported the 55.1 (Instrumentation Symbols and Identification) draft was sent 11/11. Review of past comment forms revealed changes were incomplete. These errors need to be corrected before draft 7 is sent out for ballot.

IEC TC65 Technical Advisory Group
Dan Lee received ballots from TAG team. IEC has approved three new committees: 65.404, 65.412, and 65.413.

NFPA
Dan Lee reported the 2007 edition is available. The committee agreed to go to a four year cycle and new edition will be released in 2011.

IEEE
Cyrus Taft reported he will research topics discussed during POWID meeting regarding Smart Grid.

ASME
Cyrus Taft has no current report.

ISA99 Manufacturing & Control System Security
Need to contact David Wade and ask if he would like to be on the board in place of Phil Reeves.

ISA TR84.00.05
Gary Cohee reported that Dan Lee will send an email on behalf of Power Division to Angela and Dennis agreeing to latest revisions. Need to check Tim Hurst’s status on ISA84.

ISA101 - Human Machine Interface
No update.

Old Business
ISA99 Liaison position (David Roney)
Sub-committee web page update (Jennifer Crumpler)
ISA77 Committee membership listing (Jennifer Crumpler)
ISA77 Web page folder structure (David Roney)

New Business
A motion to approve TR77.70.01, Tracking and Controlling Instrument Documentation in Fossil Power Plants, scope and purpose was made by David Roney, second by Mike Skoncey. Motion was approved.

A motion to nominate Jody Damron as TR77.70.01 subcommittee Chair was made by Gary Cohee, second by Jim Olson. Motion was approved.

A motion to approve ISA77 Chair was made by Dan Lee, second by Gary Cohee. Motion was approved.

Next Meeting
We will meet next on Wednesday, 11 June 2008.

Adjournment
The meeting was adjourned at 10:10 a.m.
New and Returning POWID Members

1 October 2007 to 30 January 2008

The Power Industry Division (POWID) of ISA would like to welcome all of the new and returning POWID Members since 1 October 2007 through 30 January 2008. We hope you will take advantage of everything POWID has to offer for your work and your career including the opportunity to network with power industry professional colleagues across the globe. Our primary goal is to provide a means for information exchange among engineers, scientists, technicians, and managers involved in instrumentation and control related to the production of electricity. POWID is active in developing industry safety and performance standards, working closely with two ISA standards committees—ISA67, Nuclear Power Plant Standards, and ISA77, Fossil Power Plant Standards. The Division also conducts technical training and sponsors awards for power plants and individuals advancing instrumentation and control within the power industry. POWID welcomes your involvement in our Division activities. Opportunities are available to provide information for our newsletter and website, to develop papers for presentation at our annual conference, and to participate in our division’s management structure. It’s a great way to get to know other industry professionals, to gain professional recognition, and to keep informed!

### New Members
- **Ryan P J Kurek**  
  **Procon Systems**
- **William Sean Raymond, CCST®**  
  **Emerson Process Management**
- **Guy Van Wijmeersch**  
  **Barco Control Rooms, GmbH**
- **Brian Anderson**
- **Jeremy D. Eischens**  
  **Fagen Engineering, LLC**
- **Paul Everett**
- **Ricardo Menna Barreto**  
  **Felizzola**
- **Tonya D. Hawes**  
  **Ultracell Corp.**
- **John A. Houdek**  
  **Allied Industrial Marketing, Inc.**
- **Julio C. Altamiranda**
- **Danny E. Benjamin**  
  **W. A. Benjamin Electric, Co.**
- **Sean Foley**
- **Clinton T. Martin**
- **Scott Mayer**  
  **Yaskawa Electric America**
- **Mark S. Armour**  
  **Entergy Services, Inc.**
- **Kris Atanassov**  
  **MWH**

### Returning Members
- **Ryan P J Kurek**  
  **Procon Systems**
- **William Sean Raymond, CCST®**  
  **Emerson Process Management**
- **Guy Van Wijmeersch**  
  **Barco Control Rooms, GmbH**
- **Mark Farout**  
  **Southern Co.**
- **William B. Hearn**  
  **Allegheny Energy**
- **Mark S. Voss**
- **Joseph L. Garza**
- **Clifford Leslie Goodwill**  
  **Harris Group**
- **John C. Roth**
- **Greg Tinfow**
- **John R. Turner, Jr.**  
  **Entergy Nuclear Generation Co.**
- **Donald A. Vigneault**
- **Edward W. Zizvari**
- **Richard A. Champigny**
- **Chris W. Conner**  
  **Duke Energy**
- **D. L. Cummings**  
  **TechSys Controls**
- **Gary L. Faul**

### Joseph D. Bodnar
  **Siemens Canada, Ltd.**
- **Russell Brown**  
  **Solomon Associates**
- **Joseph P. Curry**  
  **Proto Power Corp.**
- **Peter DeBarber**  
  **HORIBA Instruments, Inc.**
- **Selvon Dookie**  
  **HOVENSA, LLC**
- **Raymond Edwards**
- **Armando Fruto Rodriguez, Sr.**
- **Juancito A. Gario**  
  **HOVENSA, LLC**
- **John Hands**  
  **Ganhan Technology, Inc.**
- **Lloyd L. Hyde**  
  **Biomedical Engineering Consultants**
- **Theodora Kouroupi**
- **Ravi Natarajan**
- **Jacques E N Richalet**
- **Gary H. Sullivan**
- **Daniel Yingling**  
  **I & C Tech**
- **William H. Fornuff**  
  **ABB, Inc.**
- **Jason Fortik**  
  **Lincoln Electric System**
- **Philip Fredricks**
- **David M. Gray**  
  **Mettler-Toledo Thornton, Inc.**
- **J. Brent Haydell, Jr.**
- **Frederick C. Huff**
- **Ronald A. Johnson, P.E.**  
  **Washington Group International**
- **James F. Kelly, P.E.**  
  **ControlPoint Technologies**
- **Rex A. Kreig**
- **Thomas R. Lane**
- **Daniel J. Lee**  
  **ABB, Inc.**
- **Alicia Perez Ballester**  
  **Ingeniera Instrumentacion Control**
- **James F. Shackelford, III**  
  **Control and Power, Inc.**
- **Bret A. Stevenson**
- **Mark Van Horn**  
  **El Paso Power Operating**
- **Jens Woetzel**
In Memory

Stanley S. Burns

Stanley S. Burns, age 90, passed away 2 October 2007. He is survived by his wife of 34 years, Lena Ihalainen Burns; son, Dr. Stanley Burns, and wife Janice; daughter Bonnie Eggers and husband William; grandsons, Troy Eggers and wife Susan; Neil Eggers and wife Jennifer; Jonathan Burns and wife June; and three great grandsons, Sean Burns, Jacob Burns and Collin Burns.

Stan earned his Bachelor’s Degree in Chemical Engineering in 1940, and later earned a Master’s Degree in Electrical Engineering. Stan was appointed Assistant Professor in Electrical Engineering at the Newark College of Engineering (New Jersey Institute of Technology) in the early 1950s.

Beginning in the 1940s he was employed as an electrical engineer and manager at Crocker Wheeler in New Jersey and Erie, PA; Marathon Electric in Wausau, WI; American Electronics in Los Angeles; and Harnischfeger (P&H) in Milwaukee. He was considered an expert in electric motor design and the design and deployment of associated heavy machinery and power systems used in the mining industry. In the mid-1970s he formed his own consulting company, Stan Burns & Associates, Inc., and moved to Houston, TX with his wife. He continued his engineering consulting until a few weeks before his death.

He was licensed as a professional engineer from the Texas Board of Professional Engineers and was a member of the National Society of Professional Engineers and the Texas Society of Professional Engineers. He was a life member at the Institute of Electronic Engineers (IEEE), the American Society of Engineering Education (ASEE), the Power Engineering Society, and numerous other national and international engineering societies. Stan was a member of ISA and a member of the Power Industry Division (POWID) of ISA.