

**19th ISA POWID/EPRI
CONTROLS & INSTRUMENTATION CONFERENCE
52nd ANNUAL ISA POWID SYMPOSIUM**

May 10- 14, 2009, Chicago, IL
Co-located with ELECTRIC POWER Conference & Exhibition
Donald E Stephens Convention Center
Host Hotel: Hyatt

Final Program

(as of 04-MAY-2009)

Sunday, May 10th	
8:00 am - 12:00 pm	POWID Sub-Committee Meeting - (Convention Center – Room 51)
1:00 pm - 5:00 pm	POWID Executive Committee Meeting - (Convention Center – Room 51)
2:00 pm - 6:00 pm	Registration - (Convention Center)
12:00 pm - 4:00 pm	Vendor Setup – (Convention Center)
6:00 pm - 7:00 pm	POWID Welcome Reception - (Room 40-43)

Monday, May 11th		
8:00 am – 5:00 pm	Registration - (Convention Center)	
8:00 am – 4:00 pm	Vendor Setup - (Convention Center)	
4:00 pm – 6:00 pm	Vendor Exhibits - (Convention Center)	
8:00 am – 5:00 pm	ISA 67.04 Standards & Committee Meetings (Convention Center – Room 50)	
8:00 am – 5:00 pm	ISA 77 Standards & Committee Meetings (Convention Center – Room 51)	ISA 77 Standards & Committee Meetings (Convention Center – Room 24)
8:00 am – 4:00 pm	ISA Training Course - Safety Instrumented Systems -The Must Know for Implementation (EC50C) (Convention Center – Room 52) *	ISA Training Course - Introduction to Industrial Automation Security and ANSI/ISA 99 Standards (IC32C) (Convention Center – Room 53) *
7:00 pm - 10:00 pm	EP Power Plant Awards Banquet (Convention Center – Rooms 44-49) including POWID Facility-of-the-Year Award Presentation **	

* = Optional - ISA delivered Training – See
http://www.isa.org/~POWID/powid_2009/training_2009_powid.htm to register.

** = Dinner fee is an extra cost in addition to POWID or EP w/POWID upgrade registration.

Tuesday, May 12th	
6:30 am – 7:30 am	Speaker's Breakfast (Convention Center – Room 57)
7:30 am - 5:00 pm	Registration - (Convention Center)
7:30 am – 9:00 am	Spouse's Lounge (Hyatt - TBD)
8:30 am-8:45 am	EP Welcome, Sponsor Recognition - Session Joint with EP (Convention Center – Room 44-49)
8:45 am – 9:00 am	ISA Welcome Address by Jerry Cockrell, ISA President (Convention Center – Room 44-49)
9:00 am – 9:30 am	State of the Industry – Jason Makansi (Convention Center – Room 44-49)
9:30 am - 11:30 am	EP's Executive Roundtable (Convention Center – Room 44-49)
10:15am - 12:15 pm	ISA 67 Standards & Committee Meetings (Convention Center – Room 25)
11:00 am – 6:00 pm	Vendor Exhibits – Co-located with EP Exhibits (Convention Center)
11:30 am – 12:30 pm	Lunch (Convention Center) ***

*** = Included in a POWID or EP w/POWID upgrade registration fee.

Tuesday, May 12th (Cont'd)		
12:30 – 1:00 pm	G1 POWID Introductions (Convention Center – Room 24)	
1:00 pm – 5:00 pm	<p style="text-align: center;">G1 (Convention Center – Room 24)</p> <p style="text-align: center;">Operations & Maintenance Optimization (3 PDHs)</p> <p style="text-align: center;">Session Developer: C. Shelley - ExperTune</p> <p>POW09-P004 †, <i>Managing Maintenance and Operations with Real-Time Metrics</i>, G. Buckbee - ExperTune</p> <p>POW09-P005 †, <i>Combined-Cycle Production Increase Using Performance Supervision</i>, J. Gerry – ExperTune</p> <p>POW09-P034 †, <i>The High Performance HMI</i>, W. Hollifield – PAS</p> <p>POW09-P077 †, <i>Alarm Management for Power</i>, C. Engel – CapuTech and R. Johnson – Kurz Technical Services</p> <p>POW09-P085 †, <i>Using Mobile Technology for Operations Optimization</i>, M. Marantica - Wonderware</p> <p>Panel Discussion</p>	<p style="text-align: center;">N1 (Convention Center – Room 25)</p> <p style="text-align: center;">Nuclear Industry Topics (3 PDHs)</p> <p style="text-align: center;">Session Developer: T. McCreary - RTP</p> <p>POW09-P006, <i>A Framework for Evaluating the Effects of Degraded Digital I&C Systems on Human Performance</i>, W. Gunther and J. O’Hara - Brookhaven National Lab</p> <p>POW09-P027, <i>Study of Advanced Digital Fieldbus Technology Application and Its Licensing Implications for Nuclear Power Industry</i>, J. Zhao - US NRC</p> <p>POW09-P057, <i>Digital Upgrade Concerns and Considerations for EMI/RFI</i>, C. Kiger – AMS, et al.</p> <p>POW09-P069, <i>Non-Technical Issues Impacting Digital Upgrades</i>, J. Flowers – Southern Nuclear</p>

Tuesday, May 12th (Cont'd)	
5:15 pm – 6:00 pm	Welcome Reception (Convention Center Exhibit Floor)
6:00 pm – 8:00 pm	POWID Dinner and presentation of POWID Honors & Awards recognitions *** (Convention Center – Room 46 – 49)

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† = PowerPoint only presentation.

Wednesday May 13th		
6:30 am – 7:30 am	Speaker’s Breakfast (Convention Center – Room 57)	
7:30 am - 5:00 pm	Registration - (Convention Center)	
7:30 am – 9:00 am	Spouse’s Lounge (Hyatt - TBD)	
8:00 am – 5:00 pm	Automation Federation Board Meeting (Convention Center – Room 50)	
8:00 am - 10:00 am	<p style="text-align: center;">G2A1 (Convention Center – Room 24)</p> <p style="text-align: center;">Control Systems Advances - New and Retrofits – I (2 PDHs)</p> <p>Session Developer: J. Williams – Emerson Process Management</p> <p>POW09-P026, <i>Multi-Unit Scrubbers and Digital Bus Technology</i>, T. Toms – Progress Energy, R. Gilbert – Worley Parson and J. Foose – Emerson Process Management</p> <p>POW09-P031, <i>Implementation of a System of Advanced Control of Furnace</i>, W. Flores - Electrical Industrial Southern</p> <p>POW09-P037, <i>Advanced Control Systems Upgrade with a New Engineering Tool</i>, T. Douglas & Q. Nguyen - Alstom Power</p>	<p style="text-align: center;">G2A2 (Convention Center – Room 25)</p> <p style="text-align: center;">Plant Performance – I (3 PDHs)</p> <p>Session Developer: B. Carney – Alstom Power</p> <p>POW09-P015, <i>Centralized Alarm Management for Power Generation</i>, B. Parker – Black & Veatch, S. Smiley - Yokogawa</p> <p>POW09-P072, <i>ZONAL™ Combustion Tuning Systems For Improving T -Fired Boiler Performance</i>, N. Widmer, R. Newell, G. Xu, & D. Moyeda – GE Energy</p> <p>POW09-P016, <i>Using a Condition Monitoring System to Detect Steam Leaks</i>, J. Hartman & D. Richard - InSyst</p>

Wednesday May 13th (Cont'd)					
10:00-10:15 am	Morning Break ***				
10:15 am - 12:00 pm	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">G2B1 (Convention Center – Room 24) Control Systems Advances - New and Retrofits – II (2 PDHs)</th> <th style="width: 50%; text-align: center;">G2A2 (Cont'd) (Convention Center – Room 25) Plant Performance –I (Cont'd)</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <p>Session Developer: S. Maley – US DOE NETL</p> <p>POW09-P019, <i>Life Cycle Management of Automation Systems</i>, D. Clout & U. Messmer – Siemens Energy</p> <p>POW09-P023, <i>Improve Your Plant's In-Market-Availability and Realize Increased Revenue with Innovative I&C Technology</i>, S. Leibbrant - Siemens Energy, M. Hubbard & D. Motl - New Harquahala Generating Company</p> <p>POW09-P038, <i>Wireless Monitoring of Power Plants: State Estimation by a Moving Horizon-Based Optimization Approach</i>, Z. Lu & W. Lin- Case Western Reserve University</p> <p>POW09-P042 †, <i>Unit Response Improvements</i>, J. Williams – Emerson Process Management</p> </td> <td style="vertical-align: top;"> <p>POW09-P018, <i>Condensate throttling strategy for minimized boiler stress and increased operating load</i>, L. Deprugney, A. Girard, and M. Midou – EDF</p> <p>POW09-P067, <i>Instrumentation, Methods & Analysis Tools for Comprehensive Condenser Testing, Monitoring & Troubleshooting</i>, T. Harpster, Ph.D. & J. Harpster, Ph.D. - Intek</p> <p>POW09-P0037, <i>Using a Comprehensive Approach for Monitoring Generator Health</i>, T. Laird & H. Andersen – Alstom Power</p> </td> </tr> </tbody> </table>	G2B1 (Convention Center – Room 24) Control Systems Advances - New and Retrofits – II (2 PDHs)	G2A2 (Cont'd) (Convention Center – Room 25) Plant Performance –I (Cont'd)	<p>Session Developer: S. Maley – US DOE NETL</p> <p>POW09-P019, <i>Life Cycle Management of Automation Systems</i>, D. Clout & U. Messmer – Siemens Energy</p> <p>POW09-P023, <i>Improve Your Plant's In-Market-Availability and Realize Increased Revenue with Innovative I&C Technology</i>, S. Leibbrant - Siemens Energy, M. Hubbard & D. Motl - New Harquahala Generating Company</p> <p>POW09-P038, <i>Wireless Monitoring of Power Plants: State Estimation by a Moving Horizon-Based Optimization Approach</i>, Z. Lu & W. Lin- Case Western Reserve University</p> <p>POW09-P042 †, <i>Unit Response Improvements</i>, J. Williams – Emerson Process Management</p>	<p>POW09-P018, <i>Condensate throttling strategy for minimized boiler stress and increased operating load</i>, L. Deprugney, A. Girard, and M. Midou – EDF</p> <p>POW09-P067, <i>Instrumentation, Methods & Analysis Tools for Comprehensive Condenser Testing, Monitoring & Troubleshooting</i>, T. Harpster, Ph.D. & J. Harpster, Ph.D. - Intek</p> <p>POW09-P0037, <i>Using a Comprehensive Approach for Monitoring Generator Health</i>, T. Laird & H. Andersen – Alstom Power</p>
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12:00 pm – 1:00 pm	Lunch (Convention Center) ***				
11:00 am – 6:00 pm	Vendor Exhibits – Co-located with EP Exhibits (Convention Center) ***				

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Wednesday May 13th (Cont'd)		
<p>Afternoon Sessions 1:00 pm – 3:15 pm</p>	<p style="text-align: center;">G3A1 (Convention Center – Room 24)</p> <p style="text-align: center;">On-line Optimization Controls –I (2 PDHs)</p> <p>Session Developer: X. Lou – Alstom Power</p> <p>POW09-P012, <i>Application of Controller Performance Assessment Methods in a Cogeneration Power Plant</i>, R. Howard & D. Cooper - UConn</p> <p>POW09-P017, <i>Modeling Non-Steady State Data for PID Controller Tuning in a Cogen Plant</i>, D. Cooper – UConn & B. Beauregard – Control Station</p> <p>POW09-P020 †, <i>Optimal Control of a Drum-Boiler Turbine System Using PSO Predictive Control</i>, S. Yang - University of Texas at San Antonio & M. Frye - University of the Incarnate Word</p> <p>POW09-P029, <i>Integrated Non-model-based Adaptive Optimal Control of SCR and APH Systems at Cayuga Unit 1</i>, E. Schuster – Lehigh Univ. & C. Romero & Z. Yao - Lehigh Univ. Energy Research Center</p> <p>POW09-P032, <i>Real-Time Optimal Control of A Boiler-Turbine System Using Pseudospectral Methods</i>, C. Qian & S. Yang - University of Texas at San Antonio</p>	<p style="text-align: center;">G3B1 (Convention Center – Room 25)</p> <p style="text-align: center;">Plant Performance – II (2 PDHs)</p> <p style="text-align: center;">Session Developer: B. Carney - Alstom Power</p> <p>POW09-P070, <i>Information Technology in the Power Industry – A 430 MW Power Station Experience</i>, S. Nino - Invensys Systems Canada</p> <p>POW09-P078 †, <i>Fleet-wide Monitoring Solutions</i>, C. Engel – CapuTech & D. Noles - TVA</p> <p>POW09-P079, <i>TIS: Trip-cause Information System</i>, M. Yang - Korea Western Power</p>
<p>3:15 pm - 3:30 pm</p>	<p>Afternoon Break ***</p>	

Wednesday May 13th (Cont'd)

<p>Afternoon Sessions 3:30 pm – 6:00 pm</p>	<p>G3A2 (Convention Center – Room 24)</p> <p>On-line Optimization Controls –II (3 PDHs)</p> <p>Session Developer: X. Lou – Alstom Power</p> <p>POW09-P040, <i>A Hierarchy Eld Based On Flow-Balanced Zones Of Parallel Coursing Power Units With A Header</i>, L. Pan & J. Shen - The Southeast University, Jiangsu Province, China</p> <p>POW09-P041 †, <i>Optimization of Emissions Reduction Equipment (SCR)</i>, J. Williams - Emerson Process Management, G. Sunderland – Constellation Energy</p> <p>POW09-P052, <i>Advanced Steam Temperature Control Using Controller-Resident MPC Algorithm</i>, J. Sorge - Southern Company Services, C. Taft – Taft Engr. & A. Hussey – EPRI & M. Faurot – Alabama Power</p> <p>POW09-P054, <i>NOx, SOx & CO2 Mitigation of Blended Coals Through Optimization</i>, D. Labbe – Invensys Process Systems</p> <p>POW09-P058, <i>Simultaneous tuning of PID gains in multi-loop PID-based control systems using Iterative Feedback Tuning methodology</i>, S. Zhang , J. Bentsman, B. Petrus, V. Natarajan – UIUC, C. Taft – Taft Engr. & Aaron Hussey - EPRI</p> <p>POW09-P063, <i>Application Of Neurofuzzy Speed And Load Control For Gas Turbine Power Units</i>, S. De Lara Jayme & L. Castelo Cuevas - IIE, J. Piñón Reyes & J. López Ciseña - CFE</p>	<p>G3B2 (Convention Center – Room 25)</p> <p>Regulatory, Safety, and Training (3 PDHs)</p> <p>Session Developer: T. Stevenson – Constellation Energy</p> <p>POW09-P003, <i>Low-Level Opacity Monitoring</i>, D. Stuart - Ametek Process Instruments</p> <p>POW09-P039, <i>Steam Turbine Water Ingress Prevention: A Controls Perspective</i>, G. Huber, Jr.- Sargent & Lundy, K. Padmanabhan</p> <p>POW09-P065, <i>Testing Instrumented Logic Systems</i>, R. Czerwiak - Pacific Technical Resources</p> <p>POW09-P066 †, <i>Driving Operational Excellence</i>, J. Ukelson - ActionBase</p>
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Thursday, May 14th		
6:30 am – 7:30 am	Speaker’s Breakfast (Convention Center – Room 57)	
7:30 am - 12:00 pm	Registration - (Convention Center)	
7:30 am – 9:00 am	Spouse’s Lounge (Hyatt - TBD)	
Morning Sessions 8:00 am - 11:30 am	<p>G4A (Convention Center – Room 24)</p> <p>I&C Applications (4 PDHs)</p> <p>Session Developer: T. Stevenson– Constellation Energy</p> <p>POW09-P010, <i>Nuclear Densitometer Validation and Calibration Method</i>, J. Key – Southern Company</p> <p>POW09-P014, <i>Automated System To Apply Mechanical Tests To High-Voltage Alternating-Current Circuit Breakers And Reclosers</i>, T. Aguilar & J. Vazquez & J. Cervantes - Instituto De Investigaciones</p> <p>POW09-P030 †, <i>Once-Through Boiler Control Fundamentals</i>, J. Nyenhuis - Emerson Process Management</p> <p>POW09-P035 †, <i>Water Optimization Using Pump VFD Speed Control</i>, K. Schumann – ProPump Services & Sean Vallieu – USPowerGen</p> <p>POW09-P043 †, <i>Use and Application of Gas Detection</i>, S. Haines - Haines Fire-Risk</p> <p>POW09-P053, <i>Low-Cost Wireless Sensor Testing in a Fossil Power Plant</i>, C. Taft – Taft Engr., J. Sorge, Southern Co., T. Kuruganti, ORNL, and A. Nasipuri, UNCC & A. Hussey - EPRI</p> <p>POW09-P059, <i>Applying concept of Porous Media in Cv Calculation of a Control Valve using CFD Simulation</i>, J. K. Singh & C. Peterson – Control Component</p> <p>POW09-P060, <i>Study of Inlet Radius of Curvature Effect on Control Valve Performance</i>, Kumar Singh – Control Component</p>	<p>G4B (Convention Center – Room 25)</p> <p>CFB Boiler Control (3 PDHs)</p> <p>Session Developer: R. Leimbach – Metso Automation</p> <p>Paper & Panel Session</p> <p>POW09-P055 †, <i>An Overview of the Fluidized Combustion Market</i>, R. Leimbach – Metso Automation</p> <p>POW09-P048, <i>Migration of CFB Control Location from PLC to DCS in Design Phase</i>, L. Risser & J. Yee & J. Shoemaker – Bechtel Power</p> <p>POW09-P049, <i>Unique Challenges Associated with Controlling Biomass Fired Boilers</i>, J. McArthur & T. Myers - Covanta</p> <p>POW09-P050, <i>Control System Enhancements to Resolve Boiler Surging on a CFB Boiler</i>, J. Campbell – Conoco Phillips</p> <p>POW09-P051, <i>Optimizing Sulfur Capture in Fluidized Bed Boilers</i>, J. Leppakoski & T. Joronen - Metso Automation</p>

Thursday, May 14th (Cont'd)		
10:00 am - 2:00 pm	Vendor Exhibits – Co-located with EP Exhibits (Convention Center)	
11:30 am – 12:30 pm	Lunch (Convention Center) ***	
Afternoon Sessions 12:30 pm – 2:30 pm	G5A (Convention Center – Room 24) On-line Optimization Controls –III (2 PDHs) Session Developer: X. Lou POW09-P064, Dynamic Simulation of Pressure Transients of an Oxy-coal Power Plant, T. Li & J. Macron & O. Cadet - Air Liquide POW09-P074, <i>ID Ancillary service capabilities optimization and model-based control of a combined cycle power plant</i> , F. Davelaar & D. Faille & J-M. Legros - EDF POW09-P075, <i>Automated Tests for Nonlinear Model Identification and Predictive Control using a Boiler Simulator</i> , A. Joshi & X. Lou & C. Neuschaefer – Alstom Power, P. Luh – UConn	G5B (Convention Center – Room 25) Critical Infrastructure Protection (2 PDHs) Session Developer: J. Batug POW09-P061, <i>High Standards: Challenges with Reliability Standards Facing Utility Companies Today</i> , R. Kaun, - Matrikon POW09-P062 †, <i>Dealing with emerging security standards, the vendors perspective</i> , J. Lemanowicz – ABB Power POW09-P080, <i>The Effects of Intentional Electromagnetic Interference (IEMI) on Protective Relays and Impact on the Bulk Electric Transmission System</i> , T. Volkmann & G. Fuchs – Emprimus/Volkmann Consulting POW09-P083 †, <i>Convergence of Security and Work Flow Management for NERC CIP Compliance</i> , T. Kropp – Nexant
8:00 am – 4:00 pm	ISA Training Course – Industrial Wireless Systems (IC85C) (Convention Center – Room 40-41) *	ISA Training Course - Boiler Burner Management Systems: Meeting NFPA Standards (ES16C) (Convention Center – Room 42-43) *
1:00 pm – 5:00 pm	Smart Grid subcommittee meeting (Convention Center – Room 50)	
2:30 pm – 3:00 pm	G6 ISA POWID Closing Comments (Convention Center – Room 24)	

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5/4/2009

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