



POWID Symposium2012

3-8 June 2012
Renaissance Austin Hotel
Austin, TX, USA

Power Generation: Automation Today and Tomorrow Call for Papers

The 55th Annual ISA Power Industry Division (POWID) Symposium will take place 3–8 June 2012, in Austin, Texas, USA. We will review all submissions for this conference and publish accepted papers in the Conference Proceedings via electronic media.

The proceedings will be available later to the general ISA membership through the ISA POWID website. Some of the topical areas of the conference are listed below. Focus on some aspect of the theme, “Power Generation - Automation Today and Tomorrow” is encouraged and application relevant to the power industry is necessary.

- Cybersecurity Issues and Solutions
- Nuclear Plant Innovations and Enhancements
- Smart Grid
- Renewable Energy
- Nuclear Power, New and Existing Fleet
- Fossil Power, Conventional Steam, and Combined Cycle Plants
- Environmental Issues
- Sensors including Wireless Sensor Networks
- Asset Management including Equipment Condition Monitoring
- Other Power Related Issues

See expanded list of anticipated Tracks/Topics on reverse side.

Submission Deadlines:

Abstract due	Extended till 15 February 2012
First Draft due	Extended till 5 March 2012
Final Paper due	30 April 2012
Draft Presentation due	30 April 2012
Final Presentation due	21 May 2012

To submit your abstract go to

www.isa.org/powersymp

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55th Annual ISA POWID Symposium Tracks/Topics

Nuclear Power

- New Plant Status (domestic)—Instrumentation & Controls and Related Automation Issues
- International Outlook: Successes and challenges in Automation, Instrumentation, and Asset Management
- Implementing Digital in Existing Plants—Case Studies
- Perspectives on I&C From Regulatory Issues (existing and new plants)
- Communities of Practice—Instrumentation and Automation

Fossil Power

- Environmental Issues
- Intelligence in Instrumentation
- Plant Case Studies re Digital Upgrades, DCS Retrofits, Model-based Controllers,
- Diagnostics, Performance Monitoring, and Predictive/Proactive Maintenance Strategies
- I&C Issues for Gas Turbines and Combined Cycles

Variable Energy Resources

- Deeper Cycling and Dispatch of Fossil Plants, Improving Response Times: Battling Transients, Thermal Stress, Mechanical Damage
- Interfacing Storage Technologies (thermal, battery) and Grid Management
- Concentrated Solar Power
- Hydro Resources: Balancing Dispatch With Ecological Protection
- Environmental and Regulatory Implications

Cybersecurity

- Application of Existing and Emerging New NERC Standards
- Nuclear Power Quandary—Overlapping Requirements
- Challenges of Legacy Systems—Case Studies
- NERC CIP Audits

Smart Grid

- Beyond AMS; Implications for the Grid
- Utility Demonstration Case Studies
- Smart Grid and Demand Management vs Supply Side Resources

Fleet Management

- Centralizing Fleet Operations and Monitoring & Performance (M&P) Centers
- Intelligent Alarm Management
- Mining Fleet Data; Avoiding “Data Fog”, Identifying Meaningful Data
- Training and Equipping the Next Generation Plant I&C Technical Staff With Digital Expertise
- Role for Asset Management Standards (e.g., PAS 55, AP 913, NEI Standard Nuclear Performance Model)

Instrumentation

- Wireless
- Fieldbus
- Sensors