

# 17<sup>TH</sup> ISA POWID/EPRI CONTROLS & INSTRUMENTATION CONFERENCE 50<sup>TH</sup> ANNUAL ISA POWID SYMPOSIUM

## A Golden Celebration of Innovations and Technologies *Visiting the Past, Examining the Present, and Looking to the Future*

10-15 June 2007 Pittsburgh, Pennsylvania



The 17<sup>th</sup> Annual Joint ISA POWID/EPRI Controls & Instrumentation Conference will take place June 10-15, 2007 in Pittsburgh, Pennsylvania. This conference will celebrate the 50<sup>th</sup> anniversary of the ISA POWID's symposium. What a better place to celebrate this occasion than the birthplace of ISA, which started in Pittsburgh in 1945. So mark these dates on next year's calendar and join us in celebrating this important milestone along with reviewing the past and gaining new knowledge within our industry. You don't want to miss this!

Some of the topical areas for this conference are listed below. Focus is encouraged on some aspect of the conference theme, "**A Golden Celebration of Innovations and Technologies - Visiting the Past, Examining the Present, and Looking to the Future**, and application to some aspect of the power industry is necessary. All submissions will be reviewed and papers accepted for presentation will be published in the Conference Proceedings via CD.

### Power Plant Control Systems

- Power plant control system retrofit projects
- Boiler, turbine, emission, and balance of plant (BOP) control
- Control strategies, control systems tuning
- Digital control systems
- Distributed control systems – Fieldbus, wireless networks and other distributed architectures
- Integration of disparate control systems from multiple vendors, emission monitors, BOP suppliers... a protocol soup nightmare?
- Control room design
- Optimization systems, automation systems, business system integration
- Process measurements,
- Emissions, performance, and sensor monitoring and validation

### Advanced Technologies

- Advanced control design and implementation
- New applications of control and signal processing
- Improved simulation and modeling
- Expert systems, neural networks, advances
- Computer aided design and engineering – Smart P&ID's
- Data centered design and records management
- Asset management
- Plant Automation – One Button Start

### Fossil Plant Issues and Technologies

- Control requirements for the new supercritical and ultracritical once through boilers and IGCC units
- Carbon sequestration, oxygen firing, chemical plants on-site

### Power Plant Safety

- Burner Management Systems
- Application of NFPA 85, SP84 (IEC 61511)
- OSHA 1910.279 applicability
- Control of hazardous energy
- Other safety regulations and requirements

### I&C System Security

- Regulatory requirements – NERC 1200, 1300, future
- Application of ISA 99 and other standards
- Trouble with security solutions – are the solutions worse than the problem?
- Experience – what works and what doesn't

### Other Power Industry Issues

- Deregulation – Impact on automation design, operation and maintenance
- Competition – less sharing?
- Consolidations -better utilization of resources or just more work for the weary?
- Aging workforce and other demographics, knowledge retention, training, new regulations – environmental, personnel management, etc.

### Nuclear Plant Issues and Technologies

- Setpoints in retrospect – can we avoid excessive costs for unnecessary rework?
- Digital upgrades – experience and new directions
- ISFSIs – Instrumentation – not an issue

**Submission guidelines, application, deadlines and more details  
may be found online at [www.isa.org/powersymp](http://www.isa.org/powersymp)**

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