



POWID Symposium2016

27-30 June
Electric Power Research Institute (EPRI)
Charlotte, North Carolina USA

EPRI | ELECTRIC POWER
RESEARCH INSTITUTE

**Power Generation:
Instrumentation and Control for an
Evolving Power Generation Landscape**

Call for Papers

**Abstract
Submissions
due
19 February
2016**

The POWID Symposium is the largest conference dedicated to automation, control systems, and instrumentation in the power generation industry. The Symposium Program Committee is soliciting abstracts for full papers and for presentations. All paper submissions will be peer-reviewed to ensure high quality and originality. Symposium proceedings will be published in the conference proceeding for distribution to attendees and also made available on the ISA website. Suggested topics for submissions include:

59th ISA POWID Symposium Paper and Presentation Topics

Innovations, demonstrations, and application of instrumentation and sensors for Nuclear, Fossil, and Renewable Assets

- Including wireless sensors, equipment & component health monitoring, corrosion detection, heat rate & combustion performance monitoring, and steam quality sensing

Analysis, application, and optimization of process control and automation

- Changes in PID for flexible operation, model-based control, non-linear dynamic optimization, model-free adaptive control, and advanced approaches to control for complex systems
- Equipment and component analytics, diagnostics, and prognostics
- Validation and application of models, algorithms, and simulations supporting improvements in plant performance including but not limited to heat rate, process efficiency, integrated operations, environmental management, and security

Progress in Human Factors Engineering

- Progress related to alarm management, high performance human machine interface (HMI), control center design, and interaction with mobile devices

Review of advanced, transformational, and breakthrough sensor and control technologies that support the next generation power system

- Novel approaches for low cost pervasive sensing, innovative approaches to improve operations using digital technologies, and breakthrough concepts for process control

Analysis, developments, applications and case studies on Cyber Security for generating plants and technical focus on fossil energy

For more information on the 59th ISA POWID Symposium and to submit an abstract, please go to www.isa.org/powid2016 or contact:

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To submit an abstract go to
<https://www.xcdsystem.com/powid>

- Abstract Due: **19 February**
- Draft Paper Due: **18 March**
- Final Paper Due: **20 May**
- Rights and Responsibilities Form Due: **27 May**
- Draft Presentation Due: **27 May**
- Final Presentation Due: **10 June**

Setting the Standard for Automation™