

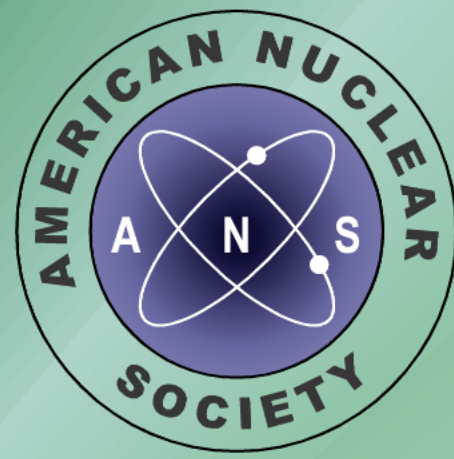
Announcement and Call for Papers

6th American Nuclear Society International Topical Meeting on Nuclear Plant Instrumentation, Controls, and Human Machine Interface Technology

April 5-9 2009

Knoxville, Tennessee, USA

b10000 (or 2⁴) year Anniversary Meeting



NPIC&HMIT 2009 is the sixth in the continuing series of International Topical Meetings on Nuclear Power Plant Instrumentation, Controls, and Human-Machine Interface Technologies.

1 st	1993	Oak Ridge, Tennessee
2 nd	1996	State College, Pennsylvania
3 rd	2000	Washington, District of Columbia
4 th	2004	Columbus, Ohio
5 th	2006	Albuquerque, New Mexico
6 th	2009	Knoxville, Tennessee

Supporting Organizations



NPIC&HMIT 2009 will feature additional emphasis on new construction reactors around the world, as well as a technical exhibit with vendors of I&C and HMIT equipment and services.



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IAEA

International Atomic Energy Agency

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Bruce P. Hallbert (HMIT chair)
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Potential Topic Areas

I&C	HMIT
Digital System Reliability	Utility Experience with Control Room Modernization Programs
Advanced Sensors and Measurement Techniques	Current Concepts in Advanced Control Rooms
Controls in New Construction Reactors	Designing Large Information Systems
Safety Critical Software Development and Qualification	Function-Based Approaches to Control Room Design
Reactor Noise Analysis	HFE Design and Analysis Tools
Digital Upgrade Issues in and Evolving Regulatory Environment	Data Mining in Nuclear Power Plants: Applications and Methods
Acceptance of Commercial Digital Instrumentation	User Interaction with Automation
Regulatory Aspects of I&C in New Construction Reactors	Knowledge Capture and Engineering
Generic Pre-Qualification of Digital Platforms	Applications of Technology to Enhanced Maintenance Operations
Implementation of Risk Informed Regulation	Innovative approaches to Training and Training Technologies
Licensing Issues for Advanced I&C Technologies	Designing Better Alarm Systems
I&C Issues for Generation IV Plants	Applications of Risk Analysis in the Design and Evaluation of I&C and HMIT Systems
Power Upgrades Through Advanced I&C	Challenges in Conducting HRA for Advanced Reactors
Next Generation I&C Systems	Computerized Operator Decision and Support Systems
Education of NPP I&C Professionals	Human Behavioral Modeling in the Nuclear Environment
Research Reactor I&C Applications	Virtual Reality: Applications and Issues
I&C Security & Network Security	HRA Challenges in advanced nuclear power systems
Plant Safeguards and Security Systems	Approaches to HFE Verification and Validation
I&C Architecture and Protocols	Human Factors Issues in Engineering Education
Emergency Response Information Systems	Human Factors and Plant Security and Safeguards
Environmental Compatibility	Computerized Procedure Systems
Maintenance and Condition Monitoring	Regulatory Challenges and Approaches to Advanced Systems
Diagnostics and Predictive Maintenance	New approaches to automation as a “team player”
Wireless Applications in Nuclear Power	
I&C Applications for Physical and Cyber Security	
Lessons learned in Digital Upgrades	
Age-Related Degradation of Instrumentation	
Loops	

Key Dates

September 15, 2008
October 20, 2008
January 12, 2009

Abstracts Due
Author Notification
Full Papers Due