



International Topical Meeting on Probabilistic Safety Assessment and Analysis

September 22-26, 2013 • Marriott Columbia • Columbia, South Carolina, USA

CALL FOR PAPERS

PSA 2013 is a biennial international technical forum for communication of major probabilistic risk and safety topics worldwide, including issues, methods, applications, insights, policy and risk-informed regulation experience. The PSA 2013 meeting will be of interest to traditional applications including nuclear reactor facilities, nonreactor installations, processing, decontamination & decommissioning, and storage, as well as other nontraditional areas where probabilistic safety approaches are applied. The meeting will continue to follow lessons learned from the Fukushima Dai-ichi event through the perspectives of Japanese and international representatives. Invited and contributed papers, as well as student papers will be given. The organizers plan traditional oral paper and panel sessions well as a student poster session.

Authors should submit summaries of between 300 and 600 words in English via the conference website (<http://psa2013.org>). The summary should clearly state the objectives, methodology, results and conclusion of the paper.

PSA 2013 Proceedings will be issued in CD-ROM format.

Summaries Due	1 Feb. '13
Authors Notification	4 Mar. '13
Full Papers Due	3 May '13
Final Full Papers Due	19 Jun. '13



Sponsored by NISD
Nuclear Installations Safety Division

PSA 2013

COLUMBIA, SC

Planned Plenary Panel Sessions

- Opening & Closing Plenary Sessions
- PRA Implications of Fukushima Dai-ichi
- Industry Perspectives
- Risk-Informed Trends in Regulation
- Progress in Risk Standards Development and Use

Suggested Paper Topics

- Accident Analysis
 - Severe Accident methods and insights
 - Extended sequences
- Advanced Nuclear Reactor Systems
- Advances in Information Technology Supporting Risk-Informed Decision-Making
- Aging Management
- ASME/ANS Standards and Peer Reviews
 - Level 2/Level 3 PRA
 - Low Power/Shutdown PRA
 - Non-LWR
 - Fire PRA
 - Advanced Reactor
- Common Cause Failures
- Computer Code Development and Methods
- Configuration Risk Management
- Cyber Risk
- Databases
 - Component Reliability
 - Human Error Probability
- Digital Instrumentation & Control
- Dynamic PRA
- Emergency Preparedness and Response
- Environmental Impact Analysis
- External Events
 - Flooding Events
 - Fire Events
 - Natural Phenomena Hazards (Tornado, Hurricane, High Wind)
 - Seismic Events
 - Tsunamis
- Fukushima Event Impacts & Lessons Learned
 - Multi-unit Risk Applications
 - Emergency Preparedness Insights
 - Multi-site Risk Management
- Flooding PRA
- Full-Scope Level 3 PRA Advances
- Human Reliability and Human Factors
- IAEA, IEC, & IEEE Nuclear PRA Standards
- Interface Between PRA and the Deterministic Safety
- Small Modular Reactors
- SOARCA Program Insights to PRAs
- Software Reliability and Data Analysis
- Small Modular Reactors

- Standardized Plant Analysis Risk (SPAR) Models
- Level 1 PRA Developments
- Internal Fire Risk
 - Implementation of NFPA 805
- Level 2 & 3 PRA Developments
- Low-Power and Shutdown PRA
- Mitigating Systems Performance Index (MSPI) Issues
- Space Nuclear Risk Applications
- Natural Hazard Phenomena and External Events
- Non-LWR PRA
- Non-Nuclear PRA
- Next-Generation NPPs
- Nuclear Nonreactor Methods and PRA Applications
 - Beyond Design Basis Events
 - Fuel Cycle and Waste Processing
- Passive System Safety
- Plant Security
- Proliferation Risk
- PRA Human Resource Needs
- PRA Training & Education
- Quantitative Risk Analysis (QRA) in DOE Facilities
 - Interface with Safety Basis (Deterministic) Analyses
 - Chemical and Combustible Gas Issues
- Reliability Centered Maintenance
 - Reliability, Accessibility, Maintainability and Inspectability (RAMI) Programs
- Relicensing of Current Plants
 - Severe Accident Mitigation Alternatives (SAMA) Analysis
- Risk-Informing Regulation and Licensing
- Risk Management
 - PRA knowledge management
- Risk Metrics and Safety Goals
- Risk Perception and Communication
- Safety Culture and Organizational Factors
- Safety Margins and PSA
- Significance Determination Process (SDP) Issues
- Seismic PSA and Applications
 - Generic Issue 199
 - Seismic Margin Analysis
- Structural Reliability Methods
- Transportation Risks
- Waste Management & Decommissioning Status

Partial Conference Organization

Honorary Chair	Shunsuke Kondo	Japan Atomic Energy Commission
General Chair	Gerald Loignon	South Carolina Electric & Gas
Tech. Program Chair	Robert Bari	Brookhaven National Laboratory
Assistant Tech. Program Chair	Kevin O'Kula	URS Safety Management Solutions

<http://psa2013.org>



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