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 as 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.

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  
  o Severe Accident methods and insights
  o Extended sequences
• Advanced Nuclear Reactor Systems
• Advances in Information Technology Supporting Risk-Informed Decision-Making
• Aging Management
• ASME/ANS Standards and Peer Reviews  
  o Level 2/Level 3 PRA
  o Low Power/Shutdown PRA
  o Non-LWR
  o Fire PRA
  o Advanced Reactor
• Common Cause Failures
• Computer Code Development and Methods
• Configuration Risk Management
• Cyber Risk
• Databases  
  o Component Reliability
  o Human Error Probability
• Digital Instrumentation & Control
• Dynamic PRA
• Emergency Preparedness and Response
• Environmental Impact Analysis
• External Events  
  o Flooding Events
  o Fire Events
  o Natural Phenomena Hazards (Tornado, Hurricane, High Wind)
  o Seismic Events
  o Tsunamis
• Fukushima Event Impacts & Lessons Learned  
  o Multi-unit Risk Applications
  o Emergency Preparedness Insights
  o 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  
  o Implementation of NFPA 805
  o 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  
  o Beyond Design Basis Events
  o 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  
  o Interface with Safety Basis (Deterministic) Analyses
  o Chemical and Combustible Gas Issues
• Reliability Centered Maintenance  
  o Reliability, Accessibility, Maintainability and Inspectability (RAMI) Programs
• Relicensing of Current Plants  
  o Severe Accident Mitigation Alternatives (SAMA) Analysis
• Risk-Informing Regulation and Licensing
• Risk Management  
  o PRA knowledge management
  o Risk Metrics and Safety Goals
  o Risk Perception and Communication
• Safety Culture and Organizational Factors
• Safety Margins and PSA
• Significance Determination Process (SDP) Issues
• Seismic PSA and Applications  
  o Generic Issue 199
  o 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 Bart  
Brookhaven National Laboratory

Assistant Tech. Program Chair  
Kevin O’Kula  
URS Safety Management Solutions

Program Chair  
http://psa2013.org
International Topical Meeting on Probabilistic Safety Assessment and Analysis  
September 22-26, 2013 • Marriott Columbia • Columbia, South Carolina, USA

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

http://psa2013.org

Charles Ader  U.S. Nuclear Regulatory Commission  
Bulent Alpay  GE Hitachi  
Tunc Aldemir  Ohio State University  
Paul J. Amico  SAIC  
Nathan Bixler  Sandia National Laboratories  
Bill Bradley  Nuclear Energy Institute  
Mel R. Buckner  Consultant & Adjunct Professor, University of S. Carolina  
Robert J. Budnitz  Lawrence Berkeley National Laboratory  
Tony Cappucci  SRS and URS (retired)  
Michael Cheok  U.S. Nuclear Regulatory Commission  
Dennis Damon  U.S. Nuclear Regulatory Commission  
Vinh Dang  Paul Scherrer Institute  
Matt Denman  Sandia National Laboratories  
Donald Dube  U.S. Nuclear Regulatory Commission  
Katsumi Ebisiawa  JNES - Japan  
Phillip G. Ellison  GE-Hitachi  
Steven J. Farnham II  AREs Corporation  
George F. Flanagan  Oak Ridge National Laboratory  
Karl Fleming  KNF Consulting Services LLC  
C.J. Fong  U.S. Nuclear Regulatory Commission  
Michael V. Frank  Sellafield Sites Washington Group, United Kingdom  
Jeff Gabor  ERIN Engineering  
Ray Gallucci  U.S. Nuclear Regulatory Commission  
Felix Gonzalez  U.S. Nuclear Regulatory Commission  
Rick Grantom  South Texas Project  
Dennis Henneke  GE-Hitachi  
Kohei Hisamochi  GE-Hitachi  
Michael J. Hitchler  URS Safety Management Solutions  
Toshimitsu Homma  JAEA - Japan  
Amy Hull  U.S. Nuclear Regulatory Commission  
Brian Johnson  TerraPower  
David H. Johnson  ABS Consulting, Inc.  
Leo Kachnik  SCANA  
Travis Knight  University of South Carolina  
Zoltan Kovacs  Relko spol, s.r.o  
Irina Kuzima  IAEA  
Timothy Leahy  Idaho National Laboratory  
Professor John C. Lee  University of Michigan  
Professor Min Lee  National Tsing Hua University, Taiwan  
John Lehner  Brookhaven National Laboratory  
Mark Leonard  dycoda  
Geza Macsuga  Hungary - Atomic Energy Agency  
Charles (Chip) Martin  Defense Nuclear Facilities Safety Board  
Kajimoto Mitsuhiko  JNES - Japan  
Mohammed Moddares  University of Maryland  
Ali Mosleh  University of Maryland  
Vinod Mubayi  Brookhaven National Laboratory  
Yoshiyuki Narumiya  Kansai Electric Power Company  
Pamela Nelson  Sociedad Nuclear Mexico  
James O’Brien  U.S. Department of Energy  
Ioannis A. Papazoglou  Institute of Nuclear Technology-Radiation Protection  
Mary Presley  Ares Corporation  
Vesselina Rangelova  Joint Research Centre, European Commission  
Marty Sattison  Idaho National Laboratory  
Jeffrey L. Shackleford  Defense Nuclear Facilities Safety Board  
Bonnie J. Shapiro  Savannah River National Laboratory  
Nathan Siu  U.S. Nuclear Regulatory Commission  
Carol Smidts  Ohio State University  
Michael G. Stamatelatos  NASA  
Marty Stutzke  U.S. Nuclear Regulatory Commission  
M. Hadid Subki  International Atomic Energy Agency  
Randy Sullivan  U.S. Nuclear Regulatory Commission  
Tutju L. Totev  Argonne National Laboratory  
Jan van Erp  Consultant  
Reino Virolainen  Radiation and Nuclear Safety Authority (STUK)  
Dave Watson  United Kingdom HSE  
Timothy A. Wheeler  Sandia National Laboratories  
Keith Woodard  ABS Consulting, Inc.  
Professor Akira Yamaguchi  Osaka University  
Dr. Joon-Eon Yang  KAERI  
Michael Zentner  Pacific Northwest National Laboratory  
Enrico Zio  Ecole Centrale Paris-Supelec, France & Politecnico di Milano, Italy