



ANS

PSA 2019

16th International Topical Meeting on Probabilistic Safety Assessment and Analysis

April 28-May 3, 2019 | Charleston, South Carolina USA | Marriott Charleston

CALL FOR PAPERS

EXECUTIVE CHAIRS

General Chair

Kevin R. O’Kula, AECOM Technical Services

Technical Program Chair

Mohammad Modarres, University of Maryland

Publications Chair

Tracy Stover, Savannah River Nuclear Solutions

ABSTRACTS DEADLINE: OCTOBER 1, 2018

- OCTOBER** → SUBMISSION OF ABSTRACTS: **October 1, 2018**
- OCTOBER** → AUTHOR NOTIFICATION OF ACCEPTANCE: **October 15, 2018**
- NOVEMBER** → DRAFT FULL PAPERS: **November 12, 2018**
- JANUARY** → REVIEW NOTIFICATION: **January 11, 2019**
- MARCH** → FINAL PAPERS/COPYRIGHT: **February 25th, 2019**

Since 1978, the ANS biennial topical conference on Probabilistic Safety Assessment has been a forum for communication of major probabilistic risk and safety topics worldwide, including issues, methods, applications, insights, policy, research, and risk-informed regulation experience. PSA 2019 will be of interest to those working in traditional applications including nuclear reactor facilities, nonreactor installations, processing, decontamination & decommissioning, storage, as well as other nontraditional areas where probabilistic safety approaches are applied. Topics of discussion are anticipated to include small modular reactor (SMR), Fukushima Dai-ichi, advanced reactor, multiunit and full site PSA, waste cleanup, natural phenomena, security, and fire risk, as well as many others. The role of probabilistic methods in understanding uncertainties and improving the safety and security of nuclear facilities, and activities will be highlighted.

ABSTRACT GUIDELINES

Maximum of one page identifying title, authors, affiliations, and two to three paragraphs (total less than 600 words) describing the key concepts of the paper. A wide range of topic areas are highlighted on the next page of this Call. Authors are encouraged to submit papers on these proposed topics as well as others. The abstract template is at ans.org/meetings/c_2 under the PSA 2019 meeting. Authors of accepted abstracts will be notified by October 15, 2018.

FULL PAPER SUBMISSION

Full papers must describe work that is new, significant, and relevant to the nuclear industry and the subject of the conference. Authors of accepted papers must agree to register and attend the conference and present their papers in person. Papers that are not presented in person at the conference will not appear in the final conference publication. Authors of accepted full papers will be notified by January 11, 2019.

PAGE CHARGE

All full papers are limited to 10 pages. Any paper exceeding the 10-page limit will be charged \$100 per page.

SUBMIT AN ABSTRACT

psa.ans.org/2019
Detailed information and announcements regarding the conference will be posted on the website.

PROCEEDINGS COORDINATOR

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PAPER CATEGORIES AND SUBJECT AREAS

CATEGORY I: PSA ANALYSES (METHODS, APPLICATIONS, REGULATORY-RELATED, RESULTS)

- Level-1 PSA, Level-2 PSA, Level-3 PSA
- Advance Reactor PSAs
- Other (Non-Reactor and/or Non-Nuclear) Risks
- Risk Management
- Cyber/Security Risk
- Accident Management
- Extended Accidents
- External Events (Seismic, Flood, Wind, Others)
- Internal Fire and Implementation of NFPA805
- Internal Flood
- Fukushima Accident
- Fuel Cycle and Proliferation
- SMR PSAs
- Non-LWR PSAs
- Low Power and Shutdown
- Margin Assessments
- Plant PSA Applications (including site PSAs)
- Test/Research Reactors and Nuclear Facilities
- Transportation Risks
- Onsite Waste Storage
- Repository PSA
- TMI + 40, and PSA Advances

CATEGORY II: ADVANCED TOPICS/SPECIFIC METHODS/TOOLS

- Common Cause
- Risk-Informed Decision-Making
- Computer Tools
- Data Analysis
- Digital I&C and Software Reliability
- Dynamic PSA
- Multi-Unit Risk and Risk Integration
- Modeling FLEX Equipment in PRAs
- HRA
- Aging, Probabilistic Failure Analysis
- Passive System Reliability
- Safety Culture, Socio-Technical and Organizational Risk
- Uncertainty Quantification and Conservatism
- Quantitative Risk Assessment
- Testing/Experimental Programs to Reduce Uncertainty

CATEGORY III: STANDARDS /TRAINING /REGULATION

- Risk-Informed Decision Making/Risk-Informed Regulation
- Education/Training/Knowledge Management
- PRA Standards
- Safety Goals
- Economic Risk
- Defense in Depth

CATEGORY IV: ANS GRAND CHALLENGE PROJECT AREAS

- Risk-Informing Nuclear Facility Safety, Advancing Reactor Licensing, Low Dose Threshold and Nuclear Policy

Note: The topics listed above are not session titles; they are provided just as a guide. The PSA 2019 Technical Program Committee will be happy to expand the areas and include new sessions into the program. Please contact the Technical Program Chair to discuss new and alternative concepts.
