NCSD 2022

Nuclear Criticality Safety Division Embedded Topical Meeting

June 12-16, 2022 | Anaheim, California, USA | Anaheim Hilton Hotel

CALL FOR PAPERS

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SUBMISSION OF ABSTRACTS: OCTOBER 15, 2021

OCTOBER → SUBMISSION OF ABSTRACTS: **October 15, 2021**

NOVEMBER → NOTIFICATION OF ABSTRACT ACCEPTANCE: **November 15, 2021**

FEBRUARY → SUBMISSION OF SUMMARY AND FULL PAPERS: **February 1, 2022**

MARCH → FINAL SUBMISSION OF PAPERS: **March 15, 2022**

MAY → VIDEO SUBMISSION: **May 27, 2022**

ABOUT THE MEETING

The ANS Nuclear Criticality Safety Division Topical bridges the four-year gap between successive International Conferences on Nuclear Criticality (ICNC) and provides a forum for exchange among technical disciplines that impact criticality safety, including operational criticality safety, experimental criticality, nuclear data, and radiation transport code development. The field of criticality safety, like other related nuclear engineering fields, is experiencing significant personnel turnover and an increasingly less experienced staff makes the need for technical knowledge transfer ever more important.

The theme of NCSD 2022 is Learning from the Past and Looking to the Future. In the mindset of embracing the future, in addition to full papers (6-10 pages) and 15-minute technical presentations or posters, the organizing committee encourages summary papers (1-4 pages) for 3-minute Lightning Talks, especially from more junior staff. In addition, all poster authors are encouraged to submit a 60-second advertising video (similar to a Tik Tok video format) with their final paper submission 2 weeks before the start of the conference. The videos for posters will be played during the relevant technical sessions, and the three best videos will be played at the opening plenary session.

ABSTRACT GUIDELINES

Maximum of one page identifying title, authors, and affiliations, and up to one figure or table, describing the key concepts of the paper. A wide range of topic areas are highlighted below. The abstract template is on the NCSD 2022 Meeting Page ans.org/meetings/view-312/ . Authors of accepted abstracts will be notified by November 15, 2021. As presentation time is limited, the conference organizers may request a paper become a lightning talk or poster based on the content of the abstract.

SUMMARY AND FULL PAPER SUBMISSION

Summary papers and full papers must describe work that is new, significant, and relevant to nuclear criticality safety. The summary (1-4 pages) and full paper (6-10 pages) templates can be found on the NCSD 2022 Meeting Page ans.org/meetings/view-312/. Authors of accepted papers will be notified by February 25, 2022. Authors of accepted papers must agree to register and attend the conference and present their papers. Papers that are not presented at the conference will not appear in the final conference publication. Summaries and full papers will incur a $100 publication fee.

SUBMIT AN ABSTRACT

https://epsr.ans.org/meeting/?m=360

PROGRAM SPECIALIST

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PAPER CATEGORIES AND SUBJECT AREAS

LEARNING FROM THE PAST

Track 1: Lessons Learned in Nuclear Criticality Safety- Accidents, infractions, and lessons learned.
Track Leads: Kermit Bunde (bundeka@id.doe.gov), Mark Dodds (dodds@lanl.gov)

Track 2: Decontamination and Decommissioning- Recovery, restoration, and their respective challenges.
Track Leads: Alfie O'Neill (alfie.m.o'neill@uknnl.com), Andy Prichard (andrewwprichard@gmail.com), Mandy Bowles-Tomaszewski (abowles@lanl.gov)

Track 3: Interesting Anomalies in Nuclear Criticality Safety- Non-intuitive phenomena, unexpected results, and interesting stories.
Track Leads: Justin Clarity (clarityjb@ornl.gov), Ben Martin (Benjamin.martin@cns.doe.gov)

ADVANCING THE PRESENT

Track 4: Operational Practices- Operational criticality safety activities and applications.
Track Leads: John Miller (millerj@sandia.gov), Kevin Reynolds (Kevin.Reynolds@cns.doe.gov)

Track 5: Fuel Storage, Transportation, and Disposal- Burnup credit, transportation needs, and storage issues.
Track Leads: Kaushik Banerjee (kaushik.banerjee@pnnl.gov), Matthieu Duluc (matthieu.duluc@irsn.fr)

Track 6: Experiments and Benchmarks- Measurements, experiments, and benchmarks.
Track Leads: Nicolas Leclaire (nicolas.leclaire@irsn.fr), Bill Myers (bmyers@lanl.gov), Michael Zerkle (Michael.Zerkle@unnpp.gov)

Track 7: Codes, Data, and Methods- Analyses, validation, and sensitivities/uncertainties.
Track Leads: Luiz Leal (luiz.leal@irsn.fr), Will Weiselquist (wieselquiswa@ornl.gov), Coralie Carmouze (coralie.carmouze@cea.fr)

TRANSITIONING TO THE FUTURE

Track 8: Nuclear Criticality Safety for LEU+/HALEU- Response to growing needs for increased uranium enrichment.
Track Leads: Joe Christensen (joe.christensen@shinemed.com), Dale Lancaster (dale@nuclearconsultants.com), Olivier Ravat (olivier.ravat@orano.group)

Track 9: Knowledge Transfer- Education, Professional Development, and Training.
Track Leads: Kirk Atkinson (Kirk.Atkinson@ontariotechu.ca), Amber McCarthy (amber.mccarthy@cns.doe.gov)

Track 10: Innovative Technologies and Thinking- Machine learning, Artificial Intelligence, etc.
Track Leads: Doug Bowen (bowendg@ornl.gov), Jesson Hutchinson (jesson@lanl.gov), Samir Sarker (Samir.Sarkar@arpansa.gov.au)