



MiNES 2023

Materials in Nuclear Energy Systems

December 10-14, 2023 | New Orleans, LA, USA



CALL FOR ABSTRACTS

CONFERENCE ORGANIZERS

General Chair

Clarissa Yablinsky
Los Alamos National Laboratory

Technical Program Chair

Anne Campbell
Oak Ridge National Laboratory

Assistant Technical Chair

Maria Okuniewski
Purdue University

IMPORTANT DUE DATES

- JUNE** → SUBMITTAL OF ABSTRACTS: **Friday, June 30, 2023**
- SEPTEMBER** → AUTHOR NOTIFICATION OF ACCEPTANCE: **Friday, September 1, 2023**

ABOUT THE MEETING

Join us in person in beautiful New Orleans for the third installment of Materials in Nuclear Energy Systems, MiNES, to focus on research in the fission reactor materials community. The MiNES conference series grew out of two biannual symposia: Microstructure Processes in Irradiated Materials (MPIM), held at the TMS Annual Meeting & Exhibition, and Nuclear Fuel and Structural Materials (NFSM), held at the ANS Annual Meeting. The conference takes place biannually, with TMS and ANS alternating sponsorship.

An early-career panel session with experts from across the industry is planned. This meeting will not require a paper submission.

The following topics will be explored:

- Defect evolution and microstructural investigations
- Modeling and simulation of defect evolution and material properties caused by irradiation
- Bulk versus small-scale properties
- Mechanical behavior at all scales and strain rates
- Thermal properties of materials and fuels
- Corrosion in advanced reactors
- In-pile and integrated (multi-variable) experiments
- Reactor materials development and qualification
- Novel fuel types, TRISO, metallic fuels, etc.: development and qualification
- Nuclear fuel fabrication, handling, reprocessing
- Technology transfer from fundamental to applications
- Technical challenges for material and fuel deployment and reactor integration

Submit your 250-word abstract by June 30 to one of the Technical Tracks below. Use the abstract template on the [MiNES Resources page](#). The meeting will include both technical presentations and poster sessions. Due to time constraints, a submission to give a presentation may be moved to a poster.

1. Fundamental Irradiation Damage
2. Evolution of Material Properties
3. Advanced/Novel Materials
4. Fuels and Actinide Materials
5. Integrated Phenomena in Reactor Materials
6. Nuclear Fuel Cycles
7. Poster Session

SUBMIT AN ABSTRACT

epsr.ans.org/meeting/?m=396

PROGRAM SPECIALIST

Janet Davis
708-579-8253
jdavis@ans.org