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#### **PROGRAM SPECIALIST**

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# **Nuclear Fuels and Materials 2026**

#### EMBEDDED IN THE 2026 ANS ANNUAL CONFERENCE AND EXPO

May 31-June 3, 2026 | Denver, CO | Sheraton Denver

#### **EXECUTIVE CHAIRS**

General Chair

Simon Pimblott (Idaho National Laboratory)

Program Chair

Jake Quincey (Kairos Power)

### **SUMMARY DEADLINE: JANUARY 23, 2026**

SUBMISSION OF ABSTRACTS (NO EXCEPTIONS) JANUARY 23, 2026 AUTHOR NOTIFICATION OF ACCEPTANCE FEBRUARY 16, 2026 REVISED ABSTRACTS DUE FEBRUARY 27, 2026

#### **ABOUT THE CONFERENCE.**

Across the world, nuclear power production stands at the threshold of a new era driven by rapid industrial expansion, electrification, and the growth of data centers. Nuclear energy offers scalable, 24/7, and domestically controlled energy source industry, manufacturing, and national security. However, there is a significant gap between need and deployment. Accelerating the development, qualification, and deployment of advanced next generation nuclear fuels and materials is essential for the deployment of advanced nuclear to dramatically shorten the timeline for fuel innovation and qualification. This embedded topical meeting is focused on the materials and nuclear fuels research efforts that will enable the increased deployment of nuclear reactors to meet the energy imperative of quadrupling the generation of nuclear power in the United States by 2050.

#### FORMATS, PRESENTATIONS AND PUBLISHING

Abstracts submitted using the provided template will be accepted for presentations based on technical merit, novelty of methods, and impact on the advancement of nuclear fuels and materials for nuclear energy systems. Presentations will be in the format of regular ANS (20 mins) or lightning (10 mins) talks. Time permitting, abstracts not selected for regular talks will be considered as lightening talks. The final session topics and tracks will be finalized once all abstracts are received. No special issue of papers is planned.

#### TRACKS AND SESSIONS

# TRACK 1: NUCLEAR MATERIALS PERFORMANCE, PREDICTION AND QUALIFICATION

- 1a. Materials Degradation in Reactors
- 1b. Advanced Materials Characterization
- 1c. Al for Advance Materials and Manufacturing
- 1d. Advanced Materials for Extreme Environments
- 1e. Understanding and Predicting Corrosion in Reactor
- 1f. Advanced Functional Materials for Instrumentation and Controls
- 1g. General Session

#### TRACK 2: NUCLEAR FUELS FOR ENERGY ABUNDANCE

- 2a. TRISO Research, Development and Deployment
- 2b. Accident Tolerant and Advanced Technology Fuels
- 2c.Advanced Fuels for Advanced Reactors
- 2d. Properties and Chemistry of Molten Fuel Salts
- 2e. Nuclear Fuels and Materials Modeling
- 2f. Al and Prediction of Fuel Performance
- 2g. General Session