



ANS

Nuclear Fuels and Structural Materials for the Next Generation Nuclear Reactors (NFSM 2018) 2018 Annual Meeting Embedded Topical Meeting

June 17-21, 2018 | Philadelphia, PA | Marriott Philadelphia Downtown

CALL FOR PAPERS

EMBEDDED TOPICAL MEETING CHAIRS

General Co-Chairs

Heather J. MacLean Chichester, Idaho National Laboratory
Kurt A. Terrani, Oak Ridge National Laboratory

Technical Program Chairs

Giovanni Pastore, Idaho National Laboratory
Kevin G. Field, Oak Ridge National Laboratory

SUMMARY DEADLINE: JANUARY 26, 2018

JANUARY



SUBMISSION OF SUMMARIES: **Friday, January 26, 2018**

FEBRUARY



AUTHOR NOTIFICATION OF ACCEPTANCE: **Friday, February 23, 2018**

MARCH



REVISED SUMMARIES DUE: **Friday, March 16, 2018**

SUBMIT SUMMARIES

Summaries must be submitted electronically using Adobe Acrobat (PDF) files and original Microsoft Word documents and the ANS Electronic Submission System. Authors are required to use the ANS Template and "Guidelines for Transactions Summary Preparation" provided at ans.org/pubs/transactions/.

ABOUT THE MEETING

NFSM 2018 will bring together international experts working on development and deployment of next generation fuels and structural materials for current and advanced fission reactors. Experts from national laboratories, industry, and academia are invited to attend and discuss their current research, development directions and latest findings. The meeting will cover a wide spectrum of experimental and modeling research related to fuels and core structural materials across various reactor platforms and throughout the fuel cycle.

NFSM 2018 features a single oral track with talks focused on summaries and directions of ongoing large-scale research programs and upcoming initiatives. Only a limited number of submissions will be scheduled for oral presentations. The majority of technical presentations at NFSM 2018 will be held in a poster session to facilitate detailed discussions. Student attendance is highly encouraged and awards will be provided to the two best student posters. At least one author is required to register and attend the meeting.

PAGE CHARGE

ANS charges \$100 per final printed page in the TRANSACTIONS. Authors should be prepared to provide their purchase order numbers when submitting their summaries electronically.

SUBMIT A SUMMARY

ans.org/meetings

TRANSACTIONS COORDINATOR

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TOPICS

EXPERIMENTAL AND MODELING RESEARCH ACTIVITIES WITHIN THE FOLLOWING AREAS ARE PARTICULARLY ENCOURAGED FOR SUBMISSION TO NFSM 2018

1. FABRICATION AND CHARACTERISTICS OF ADVANCED FUEL FORMS
2. CLADDING DEVELOPMENT FOR FAST AND THERMAL REACTORS
3. METALLIC AND CERAMIC CORE STRUCTURAL COMPONENT DEVELOPMENT
4. ENVIRONMENTAL EFFECTS ON CORE CONSTITUENTS IN FAST AND THERMAL REACTORS
5. IRRADIATION AND PIE OF FUEL AND CORE STRUCTURAL MATERIALS
6. IN-PILE BEHAVIOR OF CORE CONSTITUENTS
7. FUEL PERFORMANCE MODELING AND ANALYSIS
8. LIFETIME MANAGEMENT AND SUSTAINABILITY FOR LWRS
9. USED FUEL MANAGEMENT, STORAGE, AND REPROCESSING
10. FUEL AND CORE MATERIALS IMPACT ON REACTOR SAFETY
11. ACCIDENT TOLERANT FUELS

SUMMARIES SUBMITTED TO NFSM 2018 WILL BE REVIEWED AND PUBLISHED ELECTRONICALLY TO BE AVAILABLE AT THE MEETING.

