



ANS

The Technology of Fusion Energy (TOFE 2018) 2018 Winter Meeting Embedded Topical

November 11-15, 2018 | Orlando, FL | Hilton Orlando Bonnet Creek

CALL FOR PAPERS

EMBEDDED TOPICAL MEETING CHAIRS

General Chair

Leigh Winfrey (Univ. of Florida)

Technical Program Co-Chairs

Trey Gebhart (ORNL)

John Gilligan (NCSU)

Publications Co-Chairs

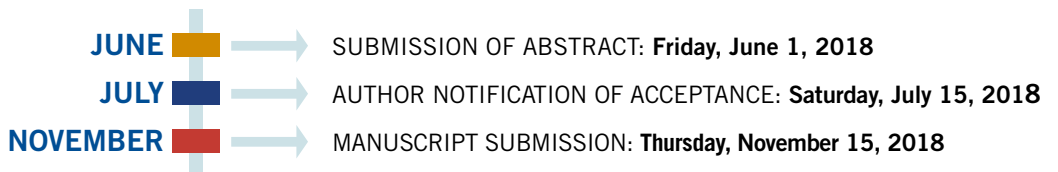
Arnie Lumsdaine (ORNL)

Gregory Staack (SRNL)

Student Program Chair

Lauren Garrison (ORNL)

ABSTRACT DEADLINE: FRIDAY, JUNE 1, 2018



The 2018 TOFE technical program committee invites you to submit abstracts and papers detailing outstanding research in the field of fusion science and technology. Proceedings will be printed in a special issue of Fusion Science & Technology. Expanded papers will be accepted for full peer-review.

STUDENT PAPER COMPETITION

The ANS Fusion Energy Division (FED) will be sponsoring a student paper competition that will award monetary prizes for outstanding paper(s). Both graduate and undergraduate students are encouraged to submit. Upon submission, answer the author questionnaire to indicate if you would like to enter the competition. Student must be first author, papers must be submitted five weeks prior to TOFE 2018 (Oct. 3rd). Finalists will be chosen for an oral presentation. See ANS meeting website for more details....

PUBLISHING AND FORMATS

Abstracts should be submitted through Fusion Science and Technology using the one page TOFE format editorialmanager.com/fst/default.aspx.

Those who attend and present at TOFE 2018 will have the option of submitting a full peer reviewed paper to Fusion Science and Technology

Plenary speakers will have an unlimited page limit, invited papers will have an eight page limit, and contributing authors will be assessed with a six page limit.

SUBMIT AN ABSTRACT

editorialmanager.com/fst/default.aspx

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RELEVANT TOPICS

SCOPE

TOFE 2018 will provide a forum to present and discuss the exceptional progress made in the area of fusion science and supporting technology. The following list outlines areas of particular interest.

1. FUSION RESEARCH FACILITIES

- 1a Power plant studies
- 1b Next step facilities – ITER, DEMO
- 1c Alternate fusion concepts
- 1d Hybrid Concepts
- 1e Materials and component test facilities

2. ADVANCED CONFINEMENT

- 2a Computational tools and validation
- 2b Neutronics simulation and experiments
- 2c Plasma material interactions
- 2d Advanced computational techniques
- 2e Plasma engineering
- 2f Plasma heating and transient physics

3. SYSTEMS ENGINEERING

- 3a Power conversion
- 3b Safety and environment
- 3c Non-electric applications of fusion
- 3d Thermal Hydraulics for Fusion Applications
- 3e Waste Management
- 3f Licensing
- 3g RAMI

4. COMPONENTS

- 4a In-vessel components
- 4b Divertors and high heat flux components
- 4c Fabrication, assembly, and maintenance
- 4d Magnets

5. SUPPORT TECHNOLOGY

- 5a Materials development and modeling
- 5b Fuel cycle and breeding
- 5c Fuel handling and processing
- 5d Diagnostics (plasma and other)
- 5e Vacuum technology
- 5f Cryogenics
- 5g IFE technology and components
- 5h Advanced manufacturing techniques
- 5i Laboratory experiments and results

