



ANS

Advances in Thermal Hydraulics (ATH 2018) 2018 Winter Meeting Embedded Topical

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

CALL FOR PAPERS

EMBEDDED TOPICAL MEETING CHAIRS

General Chairs

Xu Cheng, Karlsruhe Institute of Technology
John Luxat, McMaster University

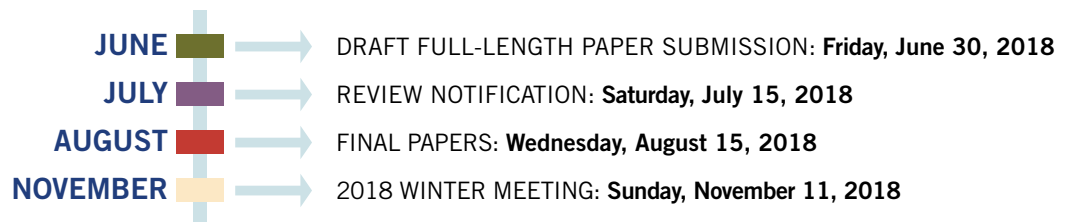
Assistant Technical Program Chairs

Piyush Sabharwall, Idaho National Laboratory
Yong Hoon Jeong, Korea Advanced Institute of
Science and Technology

Technical Program Chairs

Sofiane Benhamadouche, électricité de France
Sama Bilbao-y-Leon, Virginia Commonwealth University
Elia Merzari, Argonne National laboratory

IMPORTANT DATES (NO ABSTRACT SUBMISSION IS NEEDED)



This embedded topical meeting is the fourth in a growing series organized by the Thermal Hydraulics Division consisting of peer-reviewed, full-length technical papers covering recent advances in thermal hydraulics. Authors and presenters are invited to participate in this event to exchange ideas and knowledge.

SUBMIT FULL PAPERS

Full papers must be submitted electronically using Adobe Acrobat (PDF) files or Microsoft Word documents and the ANS Electronic Submission System. Authors are required to use the full paper template at ans.org/meetings/c_1 under ATH 2018 Meeting.

PAGE CHARGE

Page charges will be \$20 per final printed page under 14 pages and \$40.00 per printed page over 14 pages.

SUBMIT A SUMMARY
ans.org/meetings

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TOPICS

HIGH-QUALITY PAPERS (14 PAGE MAXIMUM) ARE SOLICITED ON THE FOLLOWING TOPICS

1. FUNDAMENTAL THERMAL HYDRAULICS

- 1a. Two-Phase Flow and Heat Transfer Fundamentals
- 1b. Boiling and Condensation Phenomena
- 1c. Experimental Methods and Instrumentation
- 1d. Rod Bundle Thermal Hydraulics
- 1e. Fluid-Structures and Materials Interaction
- 1f. Nano-Fluid Science and Technology Applications to Nuclear Systems
- 1g. Micro-Channel Flow and Heat Transfer Phenomena

- 4a. Combustion and Fires, Modeling and Experiments
- 4b. Thermal Hydraulics in Accident Management

5. GENERATION IV AND FUTURE INNOVATIVE NUCLEAR REACTORS THERMAL HYDRAULICS

- 5a. Sodium-Cooled Fast Reactor Thermal Hydraulics
- 5b. Gas-Cooled Reactor Thermal Hydraulics
- 5c. Molten-Salt Reactor Thermal Hydraulics
- 5d. Next Generation LWR Thermal Hydraulics
- 5e. Small Modular Reactors

2. CODE DEVELOPMENT AND APPLICATIONS

- 2a. Computational Methods, Modeling, Verification/Validation
- 2b. Advanced Code Development and Validation/Verification/ Applications
- 2c. Applications of Computational Methods to Nuclear Systems
- 2d. Novel System Code Development
- 2e. Subchannel Analysis
- 2f. Computational Fluid Dynamics
- 2g. Neutronics/Thermal-Hydraulics Coupling
- 2h. Multiscale Methods

6. THERMAL HYDRAULICS OF NON-ELECTRICITY GENERATING NUCLEAR EQUIPMENT

7. THERMAL HYDRAULICS OF WASTE MANAGEMENT

8. SPECIAL SESSIONS

- 8a. High Performance Computing Applications in Nuclear Engineering
- 8b. Simulation and Experiments of Wire-Wrapped Fuel Assemblies
- 8c. Interface-Resolved Two-Phase Flow Simulation
- 8d. Thermal Hydraulics in Molten Salt Reactors (FHRs and MSRs)
- 8e. Thermal Hydraulics in Low-Prandtl Fluids
- 8f. Lead and LBE Cooled Reactor Thermal Hydraulics

3. OPERATING LWRs THERMAL HYDRAULICS AND SAFETY

- 3a. Nuclear Reactor Plant Thermal Hydraulics and Safety
- 3b. Operating LWRs Thermal Hydraulics and Safety
- 3c. Thermal Hydraulics in Power Up-rating/Life Extension
- 3d. Best Estimate LOCA

4. SEVERE ACCIDENTS, PHENOMENA, MODELING AND EXPERIMENTS

IN ADDITION TO FULL PAPERS WE WILL ALSO ACCEPT SUMMARY SUBMISSIONS (4 PAGES MAXIMUM) FOR THE FOLLOWING TWO TOPICS

- 1. General Thermal Hydraulics
- 2. Young Professional Thermal Hydraulic Research Competition.

Paper acceptance will be based upon originality of the work, strictly implemented methods or models, quality of results, impact of the scientific advances to the field of thermal hydraulics, conclusions supported by data, proper citing of references, and use of correct grammar and spelling.

SELECTED PAPERS WILL BE PUBLISHED IN A SPECIAL EDITION OF NUCLEAR TECHNOLOGY