



NUTHOS-12

October 14-18, 2018, Qingdao, China

12th International Topical Meeting on
Nuclear Thermal-Hydraulic, Operation and Safety

Call For Paper

About NUTHOS

NUHTOS-12 will take place on October 14-18, 2018, in Qingdao, China. NUTHOS aims to provide an international nuclear communication platform for the information exchange in engineering experience, new research results and future demands on reactor thermal-hydraulics, operation, and safety.

The first NUTHOS was held in Taipei in 1984 followed by Tokyo (1986), Seoul (1988), Taipei (1994), Beijing (1997), Nara (2004), Seoul (2008), Shanghai (2010), Kaohsiung (2012), Okinawa (2014), Gyeongju (2016).

NUHTOS-12 is organized by CNS, co-sponsored by IAEA, ANS, AESJ, KNS, KTG and hosted by SPIC Research Institute.

Important Dates

November	30	2017	Deadline of Abstract Submission
December	31	2017	Deadline of Abstract Acceptance Notification
March	30	2018	Deadline of Full Paper Submission
May	31	2018	Deadline of Full Paper Acceptance Notification
June	30	2018	Deadline of Final Full Paper Submission
July	31	2018	Deadline for Early Bird Registration

Committee Chairs

Honorary Chairs

Prof. Guanxing Li (CNS, China)
 Prof. Jong Hyun Kim (KAIST, Korea)
 Prof. Hisashi Ninokata (POLIMI, Italy)

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www.nuthos-12.org





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Nuclear Thermal-Hydraulic, Operation and Safety

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General Topics

1. Fundamental Thermal-Hydraulics

- Liquid Metal Thermal-Hydraulics
- Two-Phase Flow
- Boiling and Condensation Thermal-Hydraulics
- Turbulence Modeling
- Other Fundamental Issues

2. Computational Thermal-Hydraulics

- Advances in Numerical Methods
- Code Development and V&V
- CFD Method and Application to Nuclear Engineering
- Multi-scale and Multi Physics Coupling Simulation

3. Experimental Thermal-Hydraulics

- Fundamental Thermal-Hydraulics Phenomena
- Advanced Measurement Techniques
- Separate Effects Experiments
- Integral Effect Experiments

4. Safety and Severe Accidents

- Design Base Accidents
- Severe Accidents Analysis, Mitigation and Management
- In-Vessel Related Phenomena
- Ex-Vessel Related Phenomena
- Containment Thermal-Hydraulics and Source Term
- Safety Culture

5. Thermal-Hydraulics and Safety of Advanced Reactors

- Water Cooled Reactors
- Liquid Metal Cooled Reactors
- Gas cooled Reactors
- Molten Salt Reactors
- Small Modular Reactors
- Reactors for Other Applications
- Research Reactors

6. Plant Operation and Maintenance

- Plant Transients Behavior and System Improvement
- Operation, I&C and Inspection
- Risk Informed and Performance Based Regulation
- Big Data Application and Related Challenges
- Plant Licensing Renewal and Life Extension

7. Plant Diagnostics and Monitoring

- Plant Simulators, Analyzers and Operator Training
- PRA Application to Design, Operation and Maintenance
- Components Diagnostics and Maintenance
- Fuel Management, Waste Management and Radiation Protection on Site
- Environmental Nuclear Safety

8. Special Sessions

Contact

Conference related: info@nuthos-12.org

Paper related: tech@nuthos-12.org

Sponsorship and Exhibition: spon@nuthos-12.org

Website

Online abstracts submission is open and under
www.nuthos-12.org

