ARTH-2027

National Conference on Advances in Reactor Thermal Hydraulics

17-19 February, 2027

DAE Convention Centre, Anupuram – 603 127

Organized by IGCAR

Objectives

National Conference on Advances in Reactor Thermal Hydraulics (ARTH) is being organized by IGCAR in collaboration with BRNS, BARC, NPCIL, and AERB at the DAE Convention Centre, Anupuram, Tamil Nadu – 603127, during **February 17-19, 2027**.

The purpose of the conference is to provide a platform for detailed presentations and technical discussions leading to the exchange of information on the latest advances in Nuclear Reactor Thermal Hydraulics. In addition, it will identify R&D needs and gaps to assess future requirements in this field. The proceedings of the conference will comprise invited talks and keynote lectures by experts. Participants are encouraged to contribute papers for poster sessions.

Selected papers from ARTH-2027 will be published in special issues of peer-reviewed journals in fluid dynamics and heat transfer, which will be finalised in due course.

Scope

- Fundamental thermal hydraulics
- Application of CFD for reactor systems
- Advances in thermal hydraulics
- Modelling and experiments
- Verification, Validation and Uncertainty quantification.
- Multi-physics, Multi-scale and multiphase simulations
- Flow visualization and advanced measurement techniques
- Containment thermal hydraulics
- Transient & accident analysis
- Severe accident studies
- Thermal Hydraulics of Liquid Metal and Molten Salt Systems
- Water cooled reactor thermal hydraulics, operation and safety
- Regulatory requirements and operating experiences
- Advanced Reactor Systems
- Emerging areas in nuclear reactor thermal hydraulics.

Chairman
Sreekumar G Pillai, IGCAR

Co-Chairman
K. Natesan, IGCAR

Convenor
U. Parthasarathy, IGCAR

Co-Convenor
S. Chandramouli, IGCAR

Organising Committee
S. R. Aithal, IGCAR
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S.C. Utkarsh, AERB
Krishna Kumar, NPCIL

Registration fees

Students	₹2,000
Academic/ Research Institutes	₹8,000
Industries	₹15,000
DAE Units	NIL
Accompanying person	₹5,000

Contact

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Important Dates

Last date for extended abstract submission
5th December, 2026
Review and Acceptance
24th December, 2026
Registration deadline
1st February, 2027

For abstract submission and registration, visit website: https://www.arth2027.in



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DAE Convention Centre, Anupuram, Tamil Nadu

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