



RUTGERS
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V: Università
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Luigi Vanvitelli



The 8th Micro/Nanoscale Heat & Mass Transfer International Conference (MNHMT2027) is set to be held in Napoli, Italy, from January 9-11, 2027. This event, in honor of Professor Chang-Lin Tien (1935-2002), continues the previous well-attended conferences held in Tainan (January 2008), Shanghai (December 2009), Atlanta (2012), Hong Kong (2013), Singapore (2016), Dalian (2019), and Nottingham (2024).

Research and education on micro/nanoscale heat and mass transfer have advanced rapidly over the last three decades through many dedicated individuals and team efforts, with direct impact now extending into various fields in science, engineering, and technology.

The conference is intended to provide a forum for researchers, educators and practitioners around the world to exchange ideas on the state-of-the-art research and development and identify future research needs in this interdisciplinary field. The conference will include keynote and invited presentations, contributed oral and poster presentations, as well as panel discussions on the current status and future opportunities, and many networking opportunities.

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Track 1: Micro/Nanofluidics and Lab-On-A-Chip

Track 2: Nanofluids

Track 3: Micro/Nanoscale Interfacial Transport Phenomena

Track 4: Nano/Microscale Boiling and Condensation Heat Transfer

Track 5: Micro/Nanoscale Thermal Radiation

Track 6: Micro/Nanoscale Energy Devices and Systems

Track 7: Micro/Nano-Thermal Manufacturing and Materials Processing

Track 8: Micro/Nanoscale Heat Conduction

Track 9: Computational Methods in Micro/ Nanoscale Transport

Track 10: Heat and Mass Transfer in Small Scale

Track 11: Micro/Miniature Two-Phase Devices/ Systems

Track 12: Biomedical Applications of Micro/ Nanoscale Transport

Track 13: Visualization of Heat and Mass Transfer in Micro/Nanoscale

Track 14: Measurement Techniques and Thermophysical Properties in Micro/Nanoscale

Track 15: Machine Learning and AI in Nano/Micro Heat and Mass Transfer

Track 16: Poster Presentations

Papers will be selected for presentation and publication on the basis of a one-page initial abstract (which will be assessed to ensure relevance) followed by a review of the full papers or extended abstracts. Papers of archival quality may be submitted for publication in one or more special issues.

IMPORTANT DATES

- **Abstract Submission Deadline**
Monday March 16, 2026
- **Abstract Acceptance**
Monday April 13, 2026
- **Submission of Full-Length Paper or Extended Abstract for Review**
Monday June 15, 2026
- **Notification of Acceptance – Draft Papers**
Monday July 13, 2026

- **Submission of Revised Paper and Abstract for Oral Presentation Only and Posters**
Thursday August 13, 2026
- **Acceptance of Revised Papers**
Monday August 31, 2026
- **Final Paper Submission**
Monday September 28, 2026

<https://www.ichmt.org/mnhmt-2027>



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Yonghao Zhang, Chinese Academy of Science

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Tracks & Track Chairs

TRACK 1: MICRO/NANOFLUIDICS AND LAB-ON-A-CHIP

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TRACK 2: NANOFLUIDS

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TRACK 3: MICRO/NANOSCALE INTERFACIAL TRANSPORT PHENOMENA

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Co-Organizer: Ashutosh Giri, University of Rhode Island, United States, ashgiri@uri.edu

TRACK 4: NANO/MICROSCALE BOILING AND CONDENSATION HEAT TRANSFER

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TRACK 5: MICRO/NANOSCALE THERMAL RADIATION

Organizer: Liping Wang, Arizona State University, lwang78@asu.edu

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TRACK 6: MICRO/NANOSCALE ENERGY DEVICES AND SYSTEMS

Organizer: Theo Borca-Tasciuc, Rensselaer Polytechnic Institute, United States, borcat@rpi.edu

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Co-Organizer: Melanie Derby, Kansas State University, United States, derbym@k-state.edu

TRACK 7: MICRO/NANO-THERMAL MANUFACTURING AND MATERIALS PROCESSING

Organizer: Debjyoti Banerjee, Texas A&M University, United States, dbanerjee@tamu.edu

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TRACK 8: MICRO/NANOSCALE HEAT CONDUCTION

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TRACK 9: COMPUTATIONAL METHODS IN MICRO / NANOSCALE TRANSPORT

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TRACK 10: HEAT AND MASS TRANSFER IN SMALL SCALE

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TRACK 11: MICRO/MINIATURE TWO-PHASE DEVICES/ SYSTEMS

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TRACK 12: BIOMEDICAL APPLICATIONS OF MICRO/ NANOSCALE TRANSPORT

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TRACK 13: VISUALIZATION OF HEAT AND MASS TRANSFER IN MICRO/NANOSCALE

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TRACK 14: MEASUREMENT TECHNIQUES AND THERMOPHYSICAL PROPERTIES IN MICRO/NANOSCALE

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TRACK 15: MACHINE LEARNING AND AI IN NANO/MICRO HEAT AND MASS TRANSFER

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TRACK 16: POSTER PRESENTATIONS

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