



First Announcement and Call for Papers
**7th ASME Micro/Nanoscale Heat & Mass Transfer
International Conference (MNHMT-2023)**
August 7-9, 2023, Nottingham (England), UK

The 7th ASME Micro/Nanoscale Heat & Mass Transfer International Conference (MNHMT2023) will be held in Nottingham (England), UK August 7-9, 2023. It is a follow-up conference to the first six conferences, which were held in Tainan (2008), Shanghai (2009), Atlanta (2012), Hong Kong (2013), Singapore (2016) and Dalian (2019) with over 300 attendees in each.

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

The conference is intended to provide a forum for researchers, educators and practitioners around the world to exchange ideas on 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, panel discussions on the current status and future opportunities, and many networking opportunities.

Tracks

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: Poster Presentations

General Chair:

Professor Pamela M. Norris,
George Washington University, USA

Program Chair:

Professor Yuying Yan,
University of Nottingham, UK

For papers accepted by ASME MNHMT-2023, they will be indexed by EI Compendex, ISI and Scopus. After the conference, authors of selected papers will be encouraged to submit manuscripts for inclusion in a special issue of ASME Journal of Heat Transfer. "Online" submission of abstracts for this conference will soon be available through the ASME website (<https://event.asme.org/MNHMT>). We will inform you once the website is available.

IMPORTANT DATES

- **Abstract Submission**
November 28, 2022
- **Notification of Abstract Acceptance**
December 19, 2022
- **Submission of Full-Length Paper for Review**
February 06, 2023
- **Paper Review Complete**
March 17, 2023
- **Paper Acceptance Notification**
March 20, 2023
- **Author Notification of Acceptance of Revised Papers**
April 17, 2023
- **Submission of Revised Paper for Review (if required)**
April 17, 2023
- **Submission of Copyright Form**
May 05, 2023
- **Final Paper Submission**
May 08, 2023
- **Submission of Video and Speaker Release Form**
June 05, 2023

MNHMT
7th ASME International Conference on Micro/Nanoscale Heat & Mass Transfer
Nottingham (England), United Kingdom
Conference: August 7-9, 2023

Conference Committee

Pamela M. Norris

Conference General Chair, George Washington University

Yuying Yan

Program Chair, University of Nottingham

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Xing Zhang, Tsinghua University

Tracks & Track Chairs

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

Organizer: Dong Liu, University of Houston, United States, dongliu@uh.edu
Co-organizer: Yoav Peles, University of Central Florida, United States, yoav.peles@ucf.edu

TRACK 2 NANOFLUIDS

Organizer: S.M. Sohel Murshed, Universidade de Lisboa, Portugal, smurshed@tecnico.ulisboa.pt
Co-Organizer: Haiping Hong, South Dakota School of Mines & Technology, United States, Haiping.Hong@sdsmt.edu

TRACK 3 MICRO/NANOSCALE INTERFACIAL TRANSPORT PHENOMENA

Organizer: Patrick Hopkins, University of Virginia, United States, phopkins@virginia.edu
Co-organizer: Deyu Li, Vanderbilt University, United States, deyu.li@vanderbilt.edu
Co-organizer: Ashutosh Giri, University of Rhode Island, United States, ashgiri@uri.edu

TRACK 4 NANO/MICROSCALE BOILING AND CONDENSATION HEAT TRANSFER

Organizer: Chen Li, University of South Carolina, United States, li01@cec.sc.edu
Co-organizer: Nenad Miljkovic, University of Illinois Urbana-Champaign, United States, nmiljkov@illinois.edu
Co-organizer: Ana Moita, UT Austin Portugal, Portugal, anamoita@tecnico.ulisboa.pt

TRACK 5 MICRO/NANOSCALE THERMAL RADIATION

Organizer Ceji Fu, Peking University, China, cjfu@pku.edu.cn
Co-organizer: Yu-bin Chen, National Tsing Hua University, Taiwan, ybchen@pme.nthu.edu.tw

TRACK 6 MICRO/NANOSCALE ENERGY DEVICES AND SYSTEMS

Organizer: Borca-Tasciuc, Theo, Rensselaer Polytechnic Institute, United States, borcat@rpi.edu
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, College Station, TX, United States, dbanerjee@tamu.edu
Co-organizer: Ronggui Yang, Huazhong University of Science and Technology, China, ronggui@hust.edu.cn

TRACK 8 MICRO/NANOSCALE HEAT CONDUCTION

Organizer: Junichiro Shiomi, University of Tokyo, Japan, shiomi@photon.t.u-tokyo.ac.jp
Co-organizer: Ilaria Zardo, University of Basel, Switzerland, ilaria.zardo@unibas.ch
Co-organizer: Bing-Yang Cao, Tsinghua University, China, caoby@tsinghua.edu.cn

TRACK 9 COMPUTATIONAL METHODS IN MICRO / NANOSCALE TRANSPORT

Organizer: Yonghao Zhang, University Edinburgh, Scotland, Yonghao.Zhang@ed.ac.uk
Co-Organizer: David Emerson - STFC UKRI, david.emerson@stfc.ac.uk
Co-Organizer: Moran Wang, Peking University, China, mrwang@tsinghua.edu.cn

TRACK 10 HEAT AND MASS TRANSFER IN SMALL SCALE

Organizer: Ruina Xu, Tsinghua University, China, ruinaxu@tsinghua.edu.cn
Co-organizer: Simone Mancin, University of Padova, Italy, simone.mancin@unipd.it
Co-organizer: Marco Marengo, University of Brighton, UK, M.Marengo@brighton.ac.uk

TRACK 11 MICRO/MINIATURE TWO-PHASE DEVICES/ SYSTEMS

Organizer: Xiangchun Xuan, Clemson University, United States, xcxuan@clemson.edu
Co-Organizer: Yulong Ji, Dalian Maritime University, China, jiyulong@dlmu.edu.cn

TRACK 12 BIOMEDICAL APPLICATIONS OF MICRO/ NANOSCALE TRANSPORT

Organizer: Diana-Andra Borca-Tasciuc, Rensselaer Polytechnic Institute, United States, borcad@rpi.edu
Co-organizer: Bin Chen, Xi'an Jiaotong University, China, chenbin@xjtu.edu.cn

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

Organizer: Guihua Tang, Xi'an Jiaotong University, China, ghtang@xjtu.edu.cn
Co-organizer: Oronzio Manca, Università Della Campania, Italy, oronzio.manca@unicampania.it

TRACK 14 MEASUREMENT TECHNIQUES AND THERMOPHYSICAL PROPERTIES IN MICRO/NANOSCALE

Organizer: Xinwei Wang, Iowa State University, United States, xwang3@iastate.edu
Co-organizer: Oronzio Manca, Università Della Campania, Italy, oronzio.manca@unicampania.it

TRACK 15 POSTER PRESENTATIONS

Organizer: Yasser Mahmoudi Larimi, University of Manchester, UK, yasser.mahmoudi@manchester.ac.uk
Co-organizer: Yong Ren, University of Nottingham Ningbo China, yong.ren@nottingham.edu.cn

Technical Program Committee

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Xiangchun Xuan, Clemson University
Ronggui Yang, Huazhong University of Science and Technology
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Nottingham Local Committee/team:

TBD

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