FFHMT 2025

PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON FLUID FLOW, HEAT AND MASS TRANSFER (FFHMT 2025)

July 15, 2025 - July 17, 2025 | Imperial College London Conference Center, London, United Kingdom

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 12th International Conference of Fluid Flow, Heat and Mass Transfer (FFHMT 2025).

FFHMT 2025 is aimed to become one of the leading international annual conferences in the fields of heat, momentum, and mass transfer. This conference will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

FFHMT is a series of international conferences held yearly. These conferences focus on all aspects of fluid flow, heat and mass transfer. **The 12th International Conference of Fluid Flow, Heat and Mass Transfer (FFHMT 2025)** is going to be held in a hybrid format, i.e. in person as well as online.

In the twelfth meeting of this conference, four Plenary Speakers and one keynote speaker will share their expertise with the aim of exposing participants to a wide spectrum of applications, and to foster crosspollination of ideas and develop new research interests. In addition, approximately 68 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 12th International Conference of Fluid Flow, Heat and Mass Transfer (FFHMT 2025). We wish you a very successful and enjoyable experience.

Dr. Boguslaw Kruczek
University of Ottawa, Canada
Conference Chair and Proceedings Editor
FFHMT 2025

Dr. Wael H. Ahmed
University of Guelph, Canada
Conference Co-Chair
FFHMT 2025

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ABOUT FFHMT 2025

The International Conference on Fluid Flow, Heat and Mass Transfer (FFHMT) aims to become the leading annual conference in fields related to traditional and modern transport phenomena. The goal of FFHMT 2025 is to gather scholars from all over the world to present advances in the fields of transport phenomena and to foster an environment conducive to exchanging ideas and information. This conference will also provide an ideal environment to develop new collaborations and meet experts on the fundamentals, applications, and products of the mentioned fields.

FFHMT is a series of international conferences held yearly. These conferences focus on all aspects of fluid flow, heat and mass transfer. After successfully holding FFHMT'14 to FFHMT'24 in Canada, FFHMT 2025 is hosted in Imperial College London Conference Center, London, United Kingdom this year. FFHMT 2025 is going to be held in a hybrid format, i.e. in person as well as online.

FFHMT is an acronym for **F**luid, **F**low, **H**eat, and **M**ass **T**ransfer.

- All papers were peer-reviewed
- The conference proceedings are published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by Crossref
- The conference proceedings are indexed by Scopus and Google Scholar
- The proceedings are permanently archived in Portico (one of the largest community-supported digital archives in the world)

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We would like to thank the following for accepting to act as a member of the Scientific Committee for the FFHMT 2025 Conference:

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Dr. Boguslaw Kruczek
University of Ottawa, Canada
Conference Chair

Dr. Wael H. Ahmed
University of Guelp, Canada
Conference Co-Chair

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- **Dr. Nikolai Kozlov,** Institute of Continuous Media Mechanics UrB RAS, UK

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We would like to thank the following for accepting to act as a member of the Scientific Committee for the FFHMT 2025 Conference:

Scientific Committee Members

- **Dr. Marcello Iasiello,** Università degli Studi di Napoli Federico II, Italy
- **Dr. Philippe Lavoie,**University of Toronto, Canada
- **Dr. Nader Masmoudi,** New York University, UAE
- **Dr. Gerardo Maria Mauro,** Università degli studi del Sannio, Italy
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- **Dr. Ziad Saghir,** Ryerson University, Canada
- **Dr. Ahmet Selamet,** The Ohio State University, USA
- **Dr. Lian Shen,** University of Minnesota, USA
- **Dr. Jules Thibault,** University of Ottawa, Canada
- **Dr. Junfeng Zhang,** Laurentian University, USA

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PLENARY/KEYNOTE SPEAKERS

The keynote information for the 12th International Conference of Fluid Flow, Heat and Mass Transfer (FFHMT 2025) is as follows:

Plenary Speakers

Dr. Ahmad Arabkoohsar
Technical University of Denmark, Denmark

Dr. Sarit Kumar Das
Indian Institute of Technology Madras, India

Dr. Andrei G. Fedorov
Georgia Institute of Technology, USA

Dr. Alamgir Karim
University of Houston, USA

Keynote Speaker

Dr. Wagdi George Habashi
McGill University, Canada

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FFHMT 2025 PLENARY SPEAKER

Titles: Dynamic Analysis of Thermochemical Heat Transformers for Industrial Heat Recovery

Dr. Ahmad Arabkoohsar, Technical University of Denmark, Denmark

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Ahmad Arabkoohsar holds a PhD degree in Mechanical Engineering and has several years of research experience on energy sustainability in top institutes of different countries. He is currently an Associate Professor at Department of Energy at Aalborg University. His research is mainly on Thermal Energy Systems, System Integration and Sector Coupling, District Heating and Cooling, Energy Storage, and Renewable Energy Technologies

FFHMT 2025 PLENARY SPEAKER

Titles: Water Management of A PEM Fuel Cell with Super-Hydrophobic Flow Channels, an Experimental and Computational Study

Dr. Sarit Kumar Das, Indian Institute of Technology Madras, India

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Sarit K. Das is an Institute Professor at the Indian Institute of Technology Madras, Chennai. He is the first occupant of the V. Balakrishnan Chair Professorship at the Department of Mechanical Engineering. He is the former Director of the Indian Institute of Technology, Ropar and the former Dean (Research) of IIT Madras. The research group of Prof. Das works on various aspects of thermo fluidics like heat and mass transfer in industrial equipment such as heat exchangers and fuel cells, multiphase flow and energy conversion. Water management in PEM fuel cells and thermal management of battery stack are the two active areas in this direction. The group is known to be one of the leading groups on Nanofluids in the world. Another area of focus of the group is bio-microfluidics with the focus on medical diagnostics, developing organ-on-chip platforms for drug delivery and understanding physiological and pathological states related to cardiovascular diseases, renal transport and cancer metastasis. The group has also works on desalination techniques such as FCDI (Flow Electrode Capacitive Deionization) and HDH (Humidification and Dehumidification) systems. Prof. Das is a Fellow of the National Academy of Sciences, India (NASI) and the Indian National Academy of Engineering (INAE). He was a Peabody Visiting Professor at MIT, Cambridge and a visiting Professor – Lund University, Sweden. He was conferred with the prestigious India Citation Awards 2012 by Thomson Reuters. He has published more than 450 research articles and six books. He is the most cited mechanical engineer of India. Prof. Das is a member of the editorial boards of Heat Transfer Engineering, Taylor & Francis Publishers.

FFHMT 2025 PLENARY SPEAKER

Titles: Extreme Dynamics of Nanoelectrospray Droplets in Complex Gas Flows to Enable New Modes of Direct-Write Nanomanufacturing

Dr. Andrei G. Fedorov, Georgia Institute of Technology, USA

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Andrei G. Fedorov is Rae S. and Frank H. Neely Chaired Professor in the School of Mechanical Engineering and the Petit Institute for Bioengineering and Biosciences at Georgia Tech. His current research focuses on electron-beam-mediated nanomanufacturing, MEMS-enabled bioanalytical instrumentation, thermal management of high performance electronics, and power generation with synergetic CO2 capture (http://www.me.gatech.edu/faculty/fedorov). Fedorov authored/co-authored over 200 archival articles in premier technical journals. His research has led to development of new technologies for various applications, resulting in over 50 issued US patents and pending patent applications. For his inventions of biomedical devices, the World Technology Network (WTN), in cooperation with AAAS Science Magazine, CNN and leading technology companies, selected Fedorov as a WTN Associate and one of the twenty five “most innovative people and organizations in the science and technology world” nominated for the 2005 World Technology Award in Health and Medicine. He was recognized with the US National Aeronautics and Space Administration (NASA) Invention & Contribution Board Award for development of catalytic reactor technologies, as well as multiple inventor recognition awards from the Semiconductor Research Corporation (SRC) and Microelectronics Advanced Research Corporation (MARCO).

FFHMT 2025 PLENARY SPEAKER

Titles: Plasma-Treated Nanoporous Graphene Oxide Membranes For Molecular Separation

Dr. Andrei G. Fedorov, Georgia Institute of Technology, USA

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Dr. Alamgir Karim, the Dow Chair Professor and Director of the Doctoral Materials Program at the University of Houston, is a distinguished researcher with a diverse range of interests and contributions to the field of polymer nanotechnology. His work spans multiple areas with a particular focus on thin films, surfaces, and interfaces, exploring their applications in energy, sustainability, and human health. Dr. Karim's research extends to the fascinating realm of polymer nanocomposites, including nanoparticle polymer systems, polymer blend phase separation, and block copolymer thin film ordering. Additionally, his expertise encompasses the development of innovative materials such as elastomers-based systems and polymer thin films for functional applications. His impressive h-index of 70, extensive publication record, and leadership in organizing international conferences highlight his significant contributions to the field of polymer research. Furthermore, Dr. Karim's work intersects with emerging areas of study, such as the use of graphene oxide membranes for desalination and investigations into dielectric properties and separation applications, reinforcing his commitment to pushing the boundaries of materials science and engineering. In addition, Dr. Karim is a Fellow of the American Physical Society and the American Association for the Advancement of Science, as well as a recipient of the prestigious Keck Foundation Award.

FFHMT 2025 KEYNOTE SPEAKER

Titles: A Path to Enabling a Wider Use of Controlled-Accuracy 3D CFD-CHT in Industry and Academia

Dr. Wagdi George Habashi, McGill University, Canada

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Wagdi Habashi is a Professor of Mechanical Engineering Department at McGill University in Montreal and directs its Computational Fluid Dynamics Laboratory. He has held successive Industrial Research Chairs, singly and in cooperation, with Bombardier (aircraft), Bell (helicopters), CAE (simulators) Lockheed Martin (hypersonic transport), and Silicon Graphics (High Performance Computing).

Professor Habashi holds a PhD in Aeronautical Engineering from Cornell and has over 500 scientific publications, a third of them with industry.

Dr. Habashi established Newmerical Technologies International (NTI), developer of the FENSAP-ICE In-Flight Icing Simulation System and commercialized since 2015 by Ansys worldwide. Following this, Professor Habashi started CERTIF-ICE, specializing in in-flight icing certification, and responsible for the successful natural icing campaigns, in Canada, of China's COMAC's ARJ21 (turbofan) and AVIC's Y-12F (turboprop).

Habashi is a Knight of the Order of Québec, a recipient of the Queen Elizabeth II Diamond Jubilee Medal, a Fellow of the Academy of Sciences of the Royal Society of Canada, the Canadian Academy of Engineering, the American Institute of Aeronautics and Astronautics, the American Society of Mechanical Engineers and Pratt & Whitney Canada.

He is the recipient of a multitude of scientific and industrial awards among them the Steacie, Killam, Floyd, McCurdy and several others.

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The following papers were presented at the 12th International Conference on Fluid Flow, Heat and Mass Transfer (FFHMT 2025).

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A Path to Enabling a Wider Use of Controlled-Accuracy 3D CFD-CHT in Industry and Academia
Authors: Wagdi George Habashi

Extreme Dynamics of Nanoelectrospray Droplets in Complex Gas Flows to Enable New Modes of Direct-Write Nanomanufacturing
Authors: Andrei G. Fedorov

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Authors: Nitish Anand

Computational Study of Melting and Solidification in a Prototype Four-pass Thermal Storage Module
Authors: Luca Crnjac, Kamran Siddiqui, Anthony Straatman

Effects of Oscillating Injection Conditions of CO_2 onto its Adsorption Performance within a Packed-Bed Reactor
Authors: Ali M. Sefidan, Jari Vepsalainen

Visualization of Flow in a Control Valve with a Three-stage Perforated Cage via Computational Fluid Dynamics
Authors: Yuki Kurosawa, Chongho Youn

Diagnosis of a Leaky Pipeline Carrying Multiphase Flow under Plug Flow Conditions
Authors: Hicham Ferroudji, Wahib A. Al-Ammari, Abinash Barooah , Ibrahim Hassan, Rashid Hassan, Ahmad K. Sleiti, Sina Rezaei Gomari, Mohammad Azizur Rahman

CFD Modelling for Recalcitrant Aldehyde Oxidations in VUV/UV Photoreactors
Authors: Hongjun Ye, Xiaodong Ruan, Rui Su, Yingnan Shen, Jing Wang, Liang Hu

An End-to-End Methodology for CFD-based Parametric Optimisation of Propeller Boss Cap Fins
Authors: Divya Mehta, Om Inamdar, Gokul Rajaraman, Neeraj Kumbhakarna

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Investigation of Immersion Cooling in Battery Packs with PIV and Simultaneous Heat Flux Measurement in an Optical Oil Flow Channel
Authors: Bastian Rüppel, Lukas Weiß, Ioannis K. Karathanassis, Timothy Smith, Manolis Gavaises, Michael Wensing

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Thermal Conductivity of Disordered Media from Quasi-Phonon Modes
Authors: Alexander Fullmer, Jacob Eapen

Smart Predictive Maintenance of Heat Exchangers Using AI and Near-Infrared (NIR) Spectroscopy
Authors: Omran ABUSHAMMALA, Wazen SHBAIR, Rainier HREIZ, Cécile Lemaitre

Static and Dynamic Wetting Behaviors of Droplets on Micro-Nano Pillar-Structured Superhydrophobic Surfaces
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BBlood Simulations in an Arterial Model Automatically Reconstructed Using Optical Computed Tomography
Authors: Kyung Eun Lee, Labin Kim

Renewable Energy

Thermodynamic Superiority of Calcium Hydroxide-Based Thermochemical Energy Storage over Ammonia-Based Systems in Concentrated Solar Power
Authors: Soheil Khosravi, Henk Huinink, Ahmad Arabkoohsar

Dynamic Analysis of the Solid-Gas Thermochemical Heat Transformers for Industrial Heat Recovery
Authors: Mohammad Hossein Nabat, Hamid Reza Rahbari, Anders Christiansen Erlandsson, Ahmad Arabkoohsar

Design of Bio-Inspired Novel Flow Fields for Effective Distribution of Electrolyte in Large-Scale Redox Flow Batteries
Authors: Raveendra Gundlapalli, Rama Niteesh Kamireddy, Gaurav Jaiswal

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Authors: Palesa Helen Mlangeni, Zhongjie Huan, Thembelani Sithebe, Vasudeva Rao Veeredhi

An Experimental Evaluation of Thermal Conductivity of Colloidal Suspension of Carbon-Rich Fly Ash Microparticles and Diamond-Nano Powder (DNP) in Jet-A Fuel
Authors: Ahmed Aboalhamayie

Comparative Study of RANS and LES for Transient Flow Characteristics in an EC Fan
Authors: Duc-Anh Nguyen, Mohammad Abu Shahzer, Jin-Hyuk Kim

Improvement of Thermosyphons by Modifying the Evaporator Surface
Authors: L. Reinecke, P. Lattig, and M.H. Buschmann

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SPONSORS

International ASET Inc. would like to thank the following sponsors for their support of FFHMT 2025:

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JOURNAL PUBLICATION

Selected articles from the coference will be published in the Journal of Fluid Flow, Heat and Mass Transfer (JFFHMT) after a secondary review process.

This journal has adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

All published papers of JFFHMT will be submitted to **Scopus and Google Scholar**. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

Please visit the following website for the respected journal: **JFFHMT:** https://jffhmt.avestia.com

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FFHMT 2026

The 13th International Conference on Fluid Flow, Heat and Mass Transfer (FFHMT 2026) will be held on June 09, 2026 – June 11, 2026 in Barcelona, Spain.

For inquiries and to obtain further information on the congress, please visit the website

You can also email info@ffhmt.com or call us at: +1-613-834-9999

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ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

Scientific Committees

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: Scientific Committee

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

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Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

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Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

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The reviewer should notify the chair(s) if they find any similarities in the paper being reviewed and any other work that has been published previously.

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Authors

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The paper being submitted for the proceedings should be based on clear objective, discussion, and references. The findings, data, and the arguments being used in the paper should be accurate. It is author's responsibility to guarantee the authenticity of the data in the paper.

Authorship

Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

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