### ICFFTS 2024

# Proceedings of the 5th International Conference on Fluid Flow and Thermal Science (ICFFTS 2024)

November 21 - 23, 2024 | Lisbon, Portugal

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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 5<sup>th</sup> International Conference on Fluid Flow and Thermal Science (ICFFTS 2024).

The goal of ICFFTS 2024 is to provide a space for scholars from all over the world to present advances in the relevant fields 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.

In the fifth meeting of this conference, two plenary speakers and two keynote speakers 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 32 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 5<sup>th</sup> International Conference on Fluid Flow and Thermal Science (ICFFTS 2024). We wish you a very successful and enjoyable experience.

Dr. Sohel Murshed University of Lisbon, Portugal Conference Chair ICFFTS 2024

Dr. Wael H. Ahmed University of Guelph, Canada Conference Chair ICFFTS 2024

Dr. Boguslaw Kruczek University of Ottawa, Canada Conference Chair ICFFTS 2024

# **ABOUT ICFFTS 2024**

The 5th International Conference on Fluid Flow and Thermal Science (ICFFTS 2024) aims to become the leading conference in fields related to fluid flow and heat transfer. The goal of ICFFTS 2024 is to gather scholars from all over the world to present advances in the relevant fields 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.

ICFFTS 2024 is an international conference will be held yearly. This conference focus on all aspects Fluid Flow and Thermal Science. ICFFTS 2024 Will be held this year as a vrirtual conference

ICFFTS 2024 is an acronym for International Conference, on Fluid Flow and Heat Transfer.

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







# **SCIENTIFIC COMMITTEE**

We would like to thank the following for accepting to act as a member of the Scientific Committee for the ICFFTS 2024 Conference:



Dr. Sohel Murshed
University of Lisbon, Portugal
Conference Chair



Dr. Wael H. Ahmed
University of Guelph, Canada
Conference Chair



Dr. Boguslaw Kruczek
University of Ottawa, Canada
Conference Chair

#### **Scientific Committee Members**

- Dr. Mohamed I Hassan Ali, Khalifa University of Science and Technology, UAE
- Dr. Chamil Abeykoon, The University of Manchester, UK
- Dr. Mamdouh El Haj Assad, University of Sharjah, UAE
- Dr. Maryam Ghodrat, University of New South Wales, Australia
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- Dr. Mostafa Safdari Shadloo, INSA Rouen Normandie CORIA, France
- Dr. Sunmi Shin, National University of Singapore, Singapore
- Dr. Sanjeeva Witharana, University of Moratuwa, Sri Lanka

# PLENARY/KEYNOTE SPEAKERS

The keynote information for the 5th International Conference on Fluid Flow and Thermal Science (ICFFTS 2024) is as follows:

**Plenary Speakers** 



<u>Dr. Majid Bahrami</u> Simon Fraser University, Canada



<u>Dr. Gretar Tryggvason</u>
Johns Hopkins University, USA

**Keynote Speakers** 



<u>Dr. Thomas Adams</u> Rose-Hulman Institute of Technology, USA



Dr. Guillermo Paniagua Purdue University, USA

### PLENARY LECTURE



**Title:** Waste Heat and Sorption Technology: A Pathway to Decarbonize District Energy

<u>Dr. Majid Bahrami, Simon Fraser University,</u> Canada

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Dr. Bahrami is a Professor of Mechanical Engineering and Tier 1 Canada Research Chair in Alternative Energy Conversion Systems at SFU. He is a Fellow of the Canadian Academy of Engineers (FCAE) and the American Society of Mechanical Engineers (FASME). Bahrami championed interdisciplinary, collaborative research in multitudes of sustainable clean energy systems, including: harvesting and transforming low-grade heat for sustainable air conditioning, thermal energy storage, atmospheric water harvesting, heat pump systems and dehumidification for applications in automotive, agri-food, sustainable city, and hybrid thermal electric microgrids. He has a strong track record in successful collaboration with national and international research institutes and industry. He formed 2 startups; won national and international research and innovation awards; published 12 patents and 350 publications; and supervised 180+ highly qualified personnel, including 8 professors.

### PLENARY LECTURE



**Title:** Numerical Simulations of Complex Multiphase Flows

<u>Dr. Gretar Tryggvason, Johns Hopkins University, USA</u>

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Gretar Tryggvason is the Charles A. Miller, Jr. Distinguished Professor at the Johns Hopkins University and the head of the Department of Mechanical Engineering. He received his PhD from Brown University in 1985 and was on the faculty of the University of Michigan in Ann Arbor until 2000, when he moved to Worcester Polytechnic Institute as the head of the Department of Mechanical Engineering. Between 2010 and 2017 he was the Viola D. Hank professor at the University of Notre Dame and the chair of the Department of Aerospace and Mechanical Engineering. Professor Tryggvason is well known for his contributions to computational fluid dynamics; particularly the development of methods for computations of multiphase flows and for pioneering direct numerical simulations of such flows. He served as the editor-in-chief of the Journal of Computational Physics 2002-2015, is a fellow of APS, ASME and AAAS, and the recipient of several awards, including the 2012 ASME Fluids Engineering Award and the 2019 ASTFE Award.

### **KEYNOTE LECTURE**



**Title:** Challenging Reductionism—The Truth is Up Here!

<u>Dr. Thomas Adams, Rose-Hulman Institute</u>
<u>of Technology, USA</u>

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Thom Adams is Professor Emeritus of Mechanical Engineering at Rose-Hulman Institute of Technology, USA. He earned his BS from Rose-Hulman Institute of Technology, and his MS and PhD from Georgia Institute of Technology, all in Mechanical Engineering. He is the only faculty member in the history of Rose-Hulman to have received all three of the institute's highest honors, including winning the Outstanding Scholar Award and the Outstanding Teaching Award, and being appointed the Herman A. Moench Distinguished Professor. His early work in single-phase and two-phase heat transfer in microchannels represents some of the seminal work in the field. He later became a leading educator in the field of microelectro-mechanical systems (MEMS) and authored a first of its kind textbook on the subject aimed at an audience of undergraduate technical majors regardless of specific discipline. His current research focuses on what he calls "generalist scholarship," in which physical systems and processes are purposely modeled using the most fundamental concepts and methods available in order to ascertain physical trends and correlations that often go unnoticed when relying solely on the techniques of modern specialized research. His work has received international acclaim, receiving multiple best paper awards for his work in technical research as well as engineering education.

### **KEYNOTE LECTURE**



**Title:** Advanced Turbine Research for Sustainable Propulsion and Power <a href="Dr. Guillermo Paniagua">Dr. Guillermo Paniagua</a>, Purdue University, USA

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Prof. Paniagua's team specializes in turbines, measurement techniques, and propulsion, focusing on aerodynamics and heat transfer of high-speed internal flows. The central theme of Paniagua's research is to expand the traditional limits of fluid machinery. Prof. Paniagua's team aims to pioneer the transition to a world where all propulsion and power generation is clean through creative and rigorous research in high-speed internal flows. The team combines expertise in Measurement techniques, Experimental testing procedures, Theoretical calculations, and Computational analysis with a focus on research and development for turbines and novel thermal-based cycles.

The following papers were presented at the 5th International Conference on Fluid Flow and Thermal Science (ICFFTS 2024)

#### **CFD**

# <u>Numerical and Experimental Study on the Transitional Heat Transfer of a Vertical</u> <u>Tall Square Aluminum Tube</u>

Authors: Cheng-Pu Yang, Shwin-Chung Wong

#### **Development of Centrifugal Pump for Transportation of Liquefied Hydrogen**

Authors: Jeong-Eui Yun, Harsito Cartur, Jae-Min Kim, JoonYoung Sin, Won-Sik Kim, Sang-Seon Lee

#### <u>Piecewise Viscous Drag Coefficient Calibration Methodology for Floating Platform</u> Heave Free Decay Test in FullScale CFD Simulation

Authors: Miguel Gil, Javier Armañanzas, Juan Pablo Fuertes, Alexia Torres, Javier Leon

# <u>Numerical Investigation of Laminar Forced Convection through a dual Orifice for Shear-Thinning Fluids</u>

Authors: Niharika Dutt, Tarak Monal, Swati A. Patel

#### <u>Spiral Structure of Cylindrical Batteries and its Importance in Modeling of Heat</u> Transfer

Authors: Jiri Hvozda, Jan Bohacek, Alexander Vakhrushev, Ebrahim Karimi-Sibaki

### Two and Multiphase Flow and Heat Transfer

# <u>Thermal Characterisation of a Wire Mesh Wick Vapor Chamber for Various</u> **Orientations**

Authors: Wee Jian Ng, Vanessa Egan, Jeff Punch

# <u>Thermal Runaway Mitigation Assessment by Passive Hybrid Thermal</u> <u>Management System with Phase Change Material and HFE-7000 Dielectric Liquid</u>

Authors: Ivan Torrano, Jon Martín-Ortiz, Alvaro Herrán, Artem Nikulin, Daniel Bielsa

# <u>Laminar Heat Transfer in a Horizontal Circular Tube with Phase Change Emulsions of Methyl Myristate – An Experimental Study</u>

Authors: David Cabaleiro, Takashi Morimoto, Yu Fukuda, Carolina Hermida-Merino, Hiroyuki Kumano

#### <u>Influence of Air Parameters on a Liquid Droplet Thermal State in Phase</u> Transformation Mode Cycle

Authors: Kristina Biknienė, Linas Paukštaitis, Gintautas Miliauskas

#### Heat Transfer between a Pool Fire and Water Mist Droplets in a Compartment

Authors: Robinet Antonin, Chetehouna Khaled, Sellami Ilyas, Hamidouche Souria, Oger Antoine

### **Poster Session**

The effect of roughness by laser textured surfaces on boiling heat transfer

Authors: Chin Chi Hsu, Tzu-Chi Lin

<u>Drag Reduction of Microchannels with Large Shear-Free Menisci on Opposing</u>
Partially Substrateless Walls

Authors: Ellen Bold, Helena Gutheil, Egbert Oesterschulze

Numerical Prediction of the Aerodynamic Forces by Applying a New Turbulence Model

Authors: Yaser H Alahmadi

#### **Heat Transfer Enhancement Passive Methods**

**Experimental Analysis Of A Newly Developed "Dado Cut" Square Pin-Fin Heat Sink For Avionics Cooling** 

Authors: Mayank Maroliya, Sandip K. Saha

<u>Solid-Solid Phase Change Material Composite Based Cylindrical Heat Sink For Transient Cooling</u>

Authors: Midhun V C, Sandip K Saha

Optimal Heat Transfer Coefficients for Sustained PCM Functionality in High-Rate Discharge Cycle of Lithium-Ion Battery

Authors: Vanita A. Wagh, Sandip K. Saha

### **Heat Transfer Enhancement Passive Methods**

# Real-time performance prediction of air source heat pumps using deep learning-based model

Authors: Youngjun Kim, Jeongwoo Roh, Changho Han, Yongchan Kim

# <u>Experimental Study on the Defrosting Performance of Air Source Heat Pumps According to Control Variables</u>

Authors: Jaeho Choi, Jinyoung Kim, Yongchan Kim

#### <u>Influence of the Temperature on the Cycling Performance of Polymer-Based Solid-</u> State Batteries

Authors: J. Martín-Ortiz, Ivan Torrano, M. C. Morant-Miñana, J. Rodríguez-Aseguinolaza

# <u>Influence of Gas/Solid Surface Fraction on Drag Reduction of Partially Substrateless</u> <u>Microchannels</u>

Authors: Ellen Bold, Sebastian Zimmermann, Clarissa Schönecker, Egbert Oesterschulze

#### **Experimental Investigation on flame stability of Ammonia-LPG Flames**

Authors: Arnav Banerjee, D Shanmugasundaram, Vasudevan Raghavan

#### Innovative Oil Cooling Solutions: Polymeric Hollow Fiber Heat Exchanger

Authors: Erik Bartuli, Filip Lang, Jiri Hvozda, Tereza Kroulikova Martin Beran, Jiri Kucera

# <u>Comparative Evaluation of Membrane Contactor and Stripping Device for Ammonia Separation</u>

Authors: Katerina Mayerova, Jiří Lindovský, Josef Kalivoda, Ondřej Krištof

### **Heat Transfer Enhancement Passive Methods**

# <u>Experimental Investigation on Flow and Thermal Characteristics of a Pool Fire in an Engine Compartment</u>

Authors: Ilyas Sellami, Khaled Chetehouna, Antonin Robinet, Souria Hamidouche, Antoine Oger

# <u>Convective Heat Transfer Performance of SiO2/BN Hybrid Nanofluids in</u> Minichannel

Authors: Tiago Monjardino, S M Sohel Murshed

# Flow structure and impinging interactions of two confined turbulent converging jets in crossflow

Authors: David Eli Morales Matuz, Cesar treviño, Faustino, Perez Flores, Cesar Sandoval, Lorenzo Alberto, Martínez Suástegui

# <u>Influence of a Maxwell fluid on the mechanic response of a poroelastic soil</u> <u>induced by long water waves and in presence of a uniform current</u>

Authors: Martha Alejandra Barbosa López, Eric Bautista, Federico Mendez

# <u>Application of Coupled CFD-PBM in Optimization and Scaling-Up of Liquid-Liquid Stirred Tank Reactors for Petrochemical Technologies</u>

Authors: Albert lakhin

### Fluid Flow, Heat and Mass Transfer

# <u>Coalescence of Droplets Rising in a Quiescent Fluid Confined in a Vertical Cylindrical</u> Tube in Stokes Regime

Authors: Masahiro Muraoka, Tsubasa Takamizawa

### Fluid Flow, Heat and Mass Transfer

#### **Gradient Weighted Embedded Error Estimator for Mesh Adaptation**

Authors: Kunal Ghosh

# <u>Preliminary Evaluation of Drag Reduction Performance for Functional Surfaces with</u> <u>60-degree Riblets Subjected to Taylor-Couette Flows</u>

Authors: William B. Gordon, Evgueni V. Bordatchev, O. Remus Tutunea-Fatan, Naiheng Song, Lucy Li

#### <u>Graphical and Statistical Analysis of Nonlinear Internal Wave Dynamics Using Spatio-</u> <u>Temporal Array Observations: Preliminary Results</u>

Authors: Nicholas V. Scott, Jeffrey W. Book, and Katherine Seery

#### Manifold Learning and Graphical Statistical Characterization of Ocean Thermal-Momentum Structure Using Array Observations

Authors: Nicholas V. Scott, Jeffrey W. Book, and Katherine Seery

# <u>Time-Periodic Mechanisms of Shock Interactions for High Enthalpy Reacting Flow over Double Wedges at Mach 7</u>

Authors: Ladin Nil Uluakan, Davut Vatansever, Bayram Celik

### **Energy Conversion and Storage**

# <u>Performance Analysis of Polymer Electrolyte Membrane Fuel Cell with Magneto-aerodynamic Effects</u>

Authors: Seong Su Park, Jun Yeob Chung, Yongchan Kim

# **SPONSORS**

International ASET Inc. would like to thank the following sponsors for their support of ICFFTS 2024:













### **ICFFTS 2025**

The 6<sup>th</sup> International Conference on Fluid Flow and Thermal Science (ICFFTS 2025) will be held on October 29 - 31, 2025 in Barcelona, Spain.



For inquiries and to obtain further information on the congress, please visit the <u>website</u>

You can also email info@icffts.com or call us at:

+1-613-834-9999

### **JOURNAL PUBLICATION**

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

These journals has adopted to the open-access model, meaning all free access to the journals' 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 Google Scholar and be indexed in Scopus. 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 websites for the respected journals: JFFHMT: <a href="https://jffhmt.avestia.com">https://jffhmt.avestia.com</a>

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: <a href="Scientific Committee">Scientific Committee</a>

#### **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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#### 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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#### **Authors**

#### **Reporting Standards**

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.

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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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#### **Dual Submissions**

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Authors must notify the chair(s) at the time of submission, if any factor outside the scope of the research has influenced any step of the work and manuscript writing. Examples of such factors include but are not limited to funding, grants, advisory and consultancy, stock ownership, current or past employment, and memberships, among others. All funding sources should be disclosed in the manuscript.

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#### **Publisher**

#### **Errata and Retractions**

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#### Schedule:

This conference proceeding accompanies the conference, meaning a new proceedings will be published every year for the corresponding annual conference of this series.

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