



International Conference on Recent Advances in Fluid Mechanics (ICRAFM-2022)

(Virtual International Conference)

October 04 - 06, 2022



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

Manipal Academy of Higher Education, Dubai
Manipal International University, Malaysia
Sikkim Manipal University, Sikkim
Manipal University, Jaipur
Manipal Institute of Technology, Bangalore Campus

Supported by

About the Conference:

International Conference on Recent Advances in Fluid Mechanics (ICRAFM-2022) seeks to investigate recent advances in fluid mechanics and provide an excellent platform for multidisciplinary academics, engineers, scientists, researchers, and industrialists to present their current contributions. The conference covers a wide range of topics, including fundamental formulations, the relationship between experimental and analytical results, and computational aspects of fluid mechanics with applications in applied mathematics, medicine, mechanics, and aeronautical engineering. The emphasis is on new applications and ongoing research. Over three days, the panel will feature invited keynote talks by eminent experts from industry and academia (worldwide), parallel technical sessions, and various scholarly events. The conference's overarching goal is to provide a forum for discussing new work in fluid mechanics and, in particular, for promoting the interchange of new ideas and the presentation on the latest applications in the field.

About the University:

Manipal Academy of Higher Education is synonymous with excellence in higher education. Over 28,000 students from 57 nations live, learn and play in the sprawling University town nestled on a plateau in Karnataka's Udupi district. It also has nearly 2500 faculty and almost 10000 other support and service staff, who cater to the various professional institutions in health sciences, engineering, management, communication, and humanities, which dot the Wi-Fi-enabled campus. Manipal Institute of Technology, Manipal is a constituent Institution of Manipal Academy of Higher Education.

Scientific Advisory Committee

International Advisory Committee

Prof. K. Vajravelu, University of Central Florida, USA.
Prof. Ali J. Chamkha, Kuwait College of Science and Technology, Kuwait
Prof. Hakim Fehmi Oztop, Firat University, Turkey
Prof. Oluwale D Makinde, Stellenbosch University, South Africa
Prof. Shijun Liao, Shanghai Jiao Tong University, China
Prof. Irfan Anjum Badruddin Magami, King Khalid University, Kingdom of Saudi Arabia
Prof. Nor Azwadi Che Sidik, Universiti Teknologi, Malaysia
Prof. M. M. Bhatti, Shandong University of Science and Technology, China
Prof. Ioannis Sarris, University of West Attica, Greece
Prof. Sohail Nadeem, Quaid-i-Azam University, Pakistan
Prof. Ibrahim A. Abbas, Sohag University, Egypt
Prof. Isaac Lare Animasaun, The Federal University of Technology, Akure, Nigeria
Prof. Fateh Mebarek Oudina, University of 20 Aout 1955-Skikda, Algeria
Prof. Abderahim Wakif, Hassan II University, Morocco
Prof. Iskander Tlili, Duy Tan University, Vietnam
Prof. K. S. Nisar, Prince Sattam bin Abdulaziz University, Saudi Arabia

National Advisory Committee

Prof. Suman Chakraborty, IIT Kharagpur
Prof. Dharmendra Tripathi, NIT Uttarakhand
Prof. John Philip, Homi-Bhabha National Institute, Mumbai
Prof. P. V. S. N. Murthy, IIT Kharagpur
Prof. Ram Prakash Sharma, NIT, Arunachal Pradesh
Prof. K. V. Prasad, VSK University, Ballari, Karnataka
Prof. Nityanand P. Pai, MIT, MAHE, Manipal
Prof. Satish Shenoy, MIT, MAHE, Manipal
Prof. Hanumesh Vaidya, VSK University, Ballari, Karnataka
Dr. Rajashekhar Choudhari, KSAW University, Vijayapura, Karnataka
Dr. Katta Ramesh, Symbiosis Institute of Technology, Pune, Maharashtra

Organizing Committee

Chief Patron Dr. Ramdas M. Pai, President and Chancellor, MAHE
Patrons Dr. H. S. Ballal, Pro Chancellor, MAHE, Manipal.
Dr. Lt. Gen. (Dr.) M. D. Venkatesh, Vice-Chancellor, MAHE, Manipal.
Dr. Narayana Sabahit, Registrar, MAHE, Manipal.
Chairpersons Cdr. Dr. Anil Rana, Director, MIT, Manipal.
Dr. Somashekhara Bhat, Joint Director, MIT, Manipal.
Chair Dr. Sudhakara G., Professor and Head, Department of Mathematics, MIT, Manipal.
Dr. Dayananda K Pai, Professor & Head, Department of Aeronautical and Automobile Engineering, MIT, Manipal
Dr. Satyashankara Sharma, Professor and Head, Department of Mechanical and Manufacturing Engineering, MIT, Manipal
Convener: Dr. Manjunatha Gudekote
Co-Conveners: Prof. Nagraj N Katagi
Dr. Mohammad Zuber
Organizing Secretary: Dr. Shah Mohammad Abdul Khader
Dr. Ashwini Bhat
Dr. Balachandra S Hadimani
Organizing members: Dr. Rekha G Pai
Dr. Lavanya
Dr. Shobha M. E.
Dr. Sampathkumar V.
Dr. Harinakshi Karkera

Speakers



Prof. K. Vajravelu
University of Central Florida, USA



Prof. Suman Chakraborty
IIT, Kharagpur, India



Prof. Shijun Liao
Shanghai Jiao Tong University, China



Prof. Hakan F. Oztop
Firat University, Turkey



Prof. Oluwale Daniel Makinde
Stellenbosch University, South Africa



Prof. Ali J. Chamkha
Kuwait College of Science and Technology, Kuwait



Prof. Irfan Anjum Badruddin Magami
King Khalid University, Kingdom of Saudi Arabia



Prof. Dharmendra Tripathi
NIT, Uttarakhand, India

Call for Papers

Scope of Conference

- Boundary Layer Flow
- Steady, Unsteady and Pulsatile flows
- Computational Fluid Mechanics
- Flow through porous media
- Convective heat transfer
- Homogeneous and Heterogeneous reactions
- Entropy generation
- Magnetohydrodynamic

- Electroosmotic/Electrokinetic transport
- Microfluidic devices and Biomedical applications
- Lab on a chip device development
- Fractional Calculus
- Multiphase flows in micro channels
- Nanofluids
- Biomechanics
- Mathematical modelling of biofluids
- Newtonian and Non-Newtonian fluids
- Aerodynamics
- Renewable Energy

Note: The conference scope is not limited to the above topics only: any topic related to fluid mechanics in any domain is welcome for submission.

Awards for young researcher award

Three awards will be presented during the Conference to researchers under the age of 35 who demonstrate excellent scientific work. The researcher should complete the work independently of any co-author(s). If an author wishes to be considered for the "Young Scientist" prize, they should indicate at the top of the Abstract by writing "PAPER FOR THE YOUNG RESEARCHER AWARD." The author of the winning paper must personally present the work during the conference's award session.

Abstract Format

The extended abstract should be neatly typed in MS Word and in 12 point, Times New Roman font, and prepared as per the format given below. Heading:

International Conference on Recent Advances in Fluid Mechanics" (ICRAFM-2022)

Research Theme:

Title of the Paper:

Author 1, Author 2*

1 Affiliation, 2 Affiliation (*: Corresponding author)

E-mail: mandatory for the Corresponding Author.

<https://conference.manipal.edu/ICRAFM-2022/PaperSub.aspx>

Paper Format

The manuscript should be submitted in MS Word in 12-point, Times New Roman font and one & a half line spacing with a single column only. The paper should contain title, author(s) name, affiliation, address, abstract (limited to 300 words), Introduction, Formulation, Methodology (Theory or Experiment), Results, Conclusions, and References. Regarding citation, author [xx] format should be used for citations and references: P. T. Brady, M. Hermann, and J. M. Lopez, "Confined Thermo-Capillary Motion of a Three-Dimensional Deformable Drop, Physics of Fluids, 23, 1 12, (2018). Tables and figures must be imported into the text while preparing the manuscript.

Journals (Indexed in Scopus / Web of Science)

Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Indexed in Scopus)

Some more Scopus and Web of Science Indexed journals to be updated soon.

Note: Registration fee doesn't include the publication charges

Registration Procedure

Registration is complete only when the registration Fee details are filled in the online registration form and the soft copy of the abstract is uploaded. A signed copy of the online registration form should be sent by e-mail. The registration fee can be paid through online fund transfer/Demand Draft in favour of ICRAFM -2022. For more details, refer conference website.

<https://conference.manipal.edu/ICRAFM-2022/Home.aspx>

Registration Fees:

| Registration Fee (inclusive of GST) | Students and Research Scholar | Academic/ Govt. R&D | Industry Organizations |
|-------------------------------------|-------------------------------|---------------------|------------------------|
| Participants from India | INR 500/- | INR 1000/- | INR 3000/- |
| Participants from abroad | USD 50/- | USD 100/- | USD 200/- |

Important Dates

| | |
|--|-------------------|
| Last Date of Abstract Submission | 30th June 2022 |
| Notification of Acceptance | 15th July 2022 |
| Full Length Paper Submission | 31st August 2022 |
| Last Date of Payment of Registration Fee | 31st August 2022 |
| Conference Dates: | October 4-6, 2022 |

Jointly Organized by

Department of Mathematics
Department of Aeronautical & Automobile Engineering
Department of Mechanical & Manufacturing Engineering
Manipal Institute of Technology, Manipal



ICRAFM-2022

Contact us: icrafm2022@manipal.edu

