











SYMPOSIUM ON

ADVANCES AND FRONTIERS IN FLUID MECHANICS

25 APRIL 2025

The Symposium on Advances and Frontiers in Fluid Mechanics aims to bring together researchers, academicians, and practitioners to meet and share knowledge and discuss recent developments in the broad and dynamic landscape of fluid mechanics. Fluid dynamics is at the heart of almost every problem in scientific and engineering endeavors today. The subjects range widely from aerospace and automotive engineering to environmental sciences, biomedical flows, and energy systems. This symposium will serve as a platform for the exchange of knowledge and ideas between leading experts from academia and research laboratories and students. The symposium will feature expert talks in aerodynamics, computational fluid dynamics, experimental techniques, and biofluid mechanics. By bringing together specialists from various subfields, the symposium aims to provide a comprehensive perspective on both fundamental and applied aspects of fluid mechanics. We hope that the symposium will stimulate thought-provoking discussions, inspire new research avenues, and enrich our collective understanding of fluid dynamics.

Schedule

TECHNICAL TALKS: SESSION 1

Vortices and Combat Aircraft 02:00 PM to 02:35 PM

Prof. H. K. Narahari, Formerly M.S. Ramaiah University of Applied Sciences

Transonic Shock-wave Boundary Layer Interactions 02:35 PM to 03:10 PM

Prof. G. K. Suryanarayana, Dayananda Sagar University

"New" Solutions in Free Streamline Flows using Old Methods 03:10 PM to 03:45 PM

Dr. Rangachari Kidambi, CSIR-National Aerospace Laboratories

TEA/COFFEE BREAK

TECHNICAL TALKS: SESSION 2

From Carotid Bifurcations to Aortic Arches: A Fluid Dynamics Journey 04:00 PM to 04:35 PM

Prof. Vinay M. D. Prabhu, Ramaiah Medical College

Verification and Validation of SU2 Code: Robust Test Cases Spanning 04:35 PM to 05:10 PM

Mach Regimes

Mr. Naresh Kumar, CSIR-National Aerospace Laboratories

CLOSING REMARKS 05:10 PM to 05:15 PM

REGISTRATION IS FREE, BUT MANDATORY

Venue: A-206, Ramaiah Technology Campus, M. S. Ramaiah University of Applied Sciences, Peenya Industrial Area, Peenya 4th Phase, Bengaluru - 560058 **Coordinator:**

Prof. M. Sivapragasam sivapragasam.aae.et@msruas.ac.in +91 9980677717

