



DIVISION OF MECHANICAL SCIENCES
Research Symposium 2024 (May 10-11, 2024)



VENUE: Faculty Hall, IISc campus, Bangalore

SCHEDULE OF EVENTS

May 10, 2024

Time (hrs.)	Event
08:45 – 09:00	Event inauguration and session introduction
09:00 – 13:00	Session 1: High-Temperature Materials
13:00 – 14:00	Lunch Break
14:00 – 16:40	Session 2: Wind Tunnel Technologies
16:40 – 17:30	Panel Discussion
17:30 – 19:00	Poster Session

May 11, 2024

Time (hrs.)	Event
09:00 – 12:00	Session 3: Data-Driven Mechanics
12:00 – 12:45	Panel discussion
13:00 – 14:30	Lunch Break
14:00 – 18:00	Session 4: Engineering BTech for the Future and Panel Discussion
19:00 – 20:00	Finale of 3-minute video contest and Dinner

Details of the Sessions

Session 1: High-Temperature Materials

Time (hrs.)	Speaker
09:00 – 09:40	Mr. V N Anil Kumar, General Manager, Foundry and Forge Division, HAL
09:40 – 10:10	Prof. Abhik N Choudhury, Materials Engineering, IISc Bangalore
10:10 – 10:50	Dr. M Sujata, Chief Scientist, Materials Science Division, CSIR-NAL, Bangalore.
10:50 – 11:05	Tea break
11:05 – 11:45	Dr. Mithun Palit, Head, Powder Processing Group, Defence Metallurgical Research Laboratory (DMRL), Hyderabad
11:45 – 12:25	Prof. Ashutosh Gandhi, Professor, Metallurgical Engineering and Materials Science, IIT Bombay
12:25 – 13:00	Mr. Akshat Godha, PhD Student, Materials Engineering, IISc Bangalore

Session 2: Wind Tunnel Technologies

Time (hrs.)	Speaker
14:00 – 14:05	Introductory Remarks
14:05 – 14:40	Prof. Jonathan F. Morrison, Professor of Experimental Fluid Mechanics, Royal Society Industry Fellow, Department of Aeronautics, Imperial College, London
14:40 – 15:05	Dr. L Venkatakrishnan, Chief Scientist, Head of the Experimental Aerodynamics Division, National Aerospace Laboratories, Bengaluru
15:05 – 15:30	Mr. D. Koner, Group Director, Experimental Aerodynamics, Aeronautical Development Agency, Bengaluru
15:30 – 15:55	Dr. B Deependran, Dy Director Solid Propulsion Research Entity and Project Director Tri-sonic Wind Tunnel, Vikram Sarabhai Space Centre, Thiruvananthapuram
15:55 – 16:15	Tea break
16:15 – 16:27	Talk by Sajjan Raj Keshari, PhD student, Department of Mechanical Engineering, IISc
16:28 – 16:40	Talk by Sushmitha Janakiram, PhD student, Department of Aerospace Engineering, IISc
16:40 – 17:30	<p>Panel Discussion on “Future needs of wind tunnel testing in India – an industry perspective”</p> <p>Moderator: Prof. Sourabh S. Diwan, AE, IISc Panelists: L Venkatakrishnan (NAL), B Deependran (VSSC), D Koner (ADA), A Vadivelan (ADE), V V S Narayan (HAL) Manish Garg (TVS motors)</p> <p>Concluding Remarks: Prof G Jagadeesh, AE, IISc</p>

Session 3: Data-Driven Mechanics

Time (hrs.)	Speaker
09:00 – 9:45	Prof. Karthik Duraisamy, Professor, Aerospace Engineering Director, Michigan Institute for Computational Discovery & Engineering (MICDE) University of Michigan, USA.
9:45 – 10:15	Prof. Huck Beng Chew, Associate Professor, Department of Aerospace Engineering, University of Illinois at Urbana-Champaign, Urbana, USA.
10:15 – 10:30	Tea Break
10:30 – 11:00	Prof. Balaji Srinivasan, Professor, Department of Mechanical Engineering, Indian Institute of Technology Madras, India.
11:00 – 11:30	Dr. Alireza Moradzadeh, Computational Scientist, NVIDIA, USA.
11:30 – 12:00	Prof. Akshay Joshi, Assistant Professor, Mechanical Engineering, Indian Institute of Science, Bangalore, India.
12:00 – 12:45	<p>Panel Discussion on “Data Driven Techniques in Mechanical Sciences”</p> <p>Moderator: Prof. Pikee Priya, MTE, IISc Panelists: Prof. Balaji Srinivasan (IIT Madras), Prof. Rishita Das (IISc), Prof. Akshay Joshi (IISc), Dr. Avinash Kumar (Intel)</p>

Session 4: Engineering BTech for the Future

Time (hrs.)	Speaker
14:00 – 14:45	Prof. Sudhir Jain, Vice Chancellor, Banaras Hindu University, Varanasi, India
14:45 – 15:30	Prof. B Ravi, Director, NIT Surathkal, Surathkal, India
15:30 – 16:00	Dr. Megha Navalgund, Section Manager – Advanced Design Tools (BEC), GE Aerospace
16:00 – 17:00	Panel Discussion
17:00 - 18:00	Prof. Benjamin Linder, Professor, Olin College, Boston, MA, USA