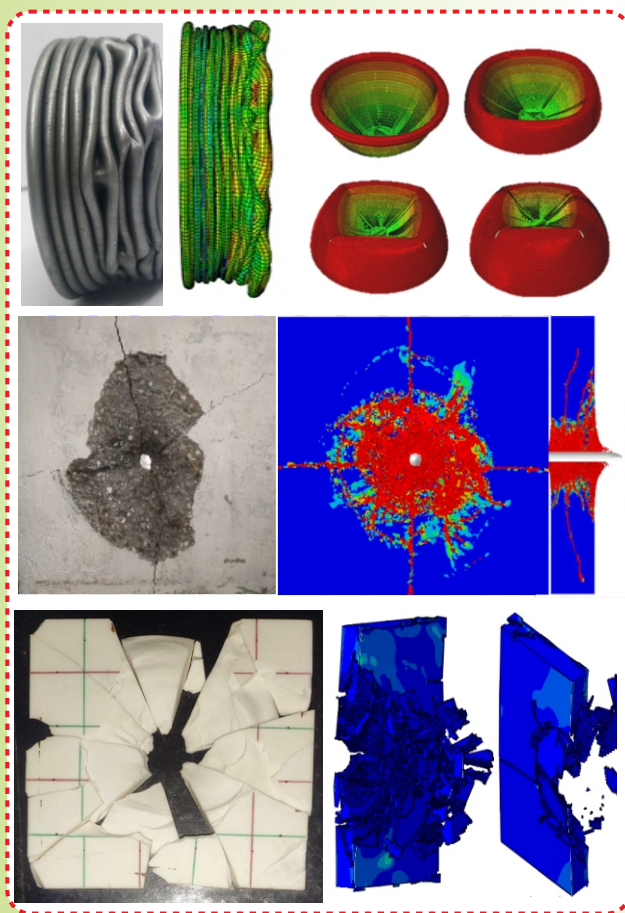


14th International Symposium on Plasticity and Impact Mechanics

IMPLAST 2025

October 12 - 16, 2025



Department of Civil Engineering

Indian Institute of Technology (IIT) Roorkee
Roorkee - 247 667, India

Message from the Conference Chairman

On behalf of the Organizing Committee, it is my pleasure to cordially invite you to participate in IMPLAST 2025, the 14th International Symposium on Plasticity and Impact Mechanics, being held at Indian Institute of Technology Roorkee. IIT Roorkee, established as Thomason College of Civil Engineering in 1854, is the oldest engineering Institution of India.

IMPLAST series was initiated by Prof. N. K. Gupta in 1973. With the gap of three years, by now, nine of these symposia have been held in India and four, the 7th, 9th, 10th and 12th Symposia, were held in Melbourne in 2000, Bochum in 2007, Rhode Island in 2010 and Busan in 2019.

The international scientific committee is being chaired by Prof. Guoxing Lu (Swinburne University, Australia) in the current symposium while during the last three symposia the committee was chaired by Prof. Norman Jones (The University of Liverpool, U.K.). The symposium welcomes the latest research findings from across the globe on fundamental and applied aspects of large deformation and failure of structures resulting from quasi-static, dynamic, earthquake, impact or blast loading.

The aim of this symposium is to foster fruitful interactions between scientists from academia, industries and research laboratories for sharing the latest developments in plasticity and impact mechanics. In addition to providing platform to scientists for sharing their knowledge, these symposia have proven instrumental in building and strengthening lasting relationships between the participants from across the globe.

Roorkee, a small and naturally beautiful town situated in the foothills of Himalayas is closely connected to important places like Haridwar, Rishikesh and Mussoorie. Weather in Roorkee during the month of October is especially pleasant. The organizing committee will arrange for the sightseeing and the cultural events.

We look forward to welcoming you in Roorkee for attending the Symposium, and for the joy of meeting old friends and making new ones.

Topics

The acronym IMPLAST implies a convergence of the words Impact and Plasticity and papers dealing with any aspect of large deformation and failure of materials (including metals, composites, cellular, geomaterials or concrete), and structures subjected to quasi-static, earthquake, fire, impact or blast loading are welcome.

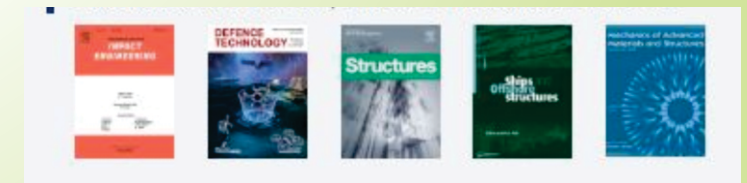
The following topics will be covered during the symposium.

The list is indicative and not exhaustive:

- ◆ Mechanics of Impact, Penetration, and Perforation
- ◆ High Speed Impact and Blast Problem
- ◆ Behavior of Material at High Strain Rates
- ◆ Theories of Plasticity, Damage, Fracture and Fatigue
- ◆ Structural Crashworthiness and Failure Analysis
- ◆ Structural Fire Engineering
- ◆ Structures subjected to earthquake load
- ◆ Stress Waves in Solids
- ◆ Soil Structure Interaction, Geological Material Under Dynamic Load
- ◆ Challenges in Fabrication and Manufacturing

Publication of manuscripts

Revised and expanded version of the submissions to IMPLAST 2025 will be considered for the publication in special issues of international journal of impact engineering, defense technology, ships & offshore structures and Mechanics of Advanced Materials and Structures.



Contributions to these journals would be based on the invitation

Registration Fee

Details regarding the fees are in the following table. We encourage researchers to seize this opportunity and promptly register to prevent any last-minute rush.

Category	Fees	Early Bird Fees
Foreign Delegates	USD 400	USD 375
Indian Delegates	INR 15,000 (18% GST extra)	INR 13,000 (18% GST extra)
Student Delegates	INR 10,000 (18% GST extra)	INR 8,000 (18% GST extra)

Schedule

Jan 01, 2025	: Abstract Submission Start Date
Feb 20, 2025	: Acceptance of Abstract Start
Mar 01, 2025	: Early Bird Registration Start Date
Mar 31, 2025	: Deadline of Abstract Submission
Apr 15, 2025	: Submission of Manuscript Start
Apr 30, 2025	: Deadline of Early Bird Registration
May 01, 2025	: Full Registration Start
May 15, 2025	: Acceptance of Manuscript Start
Jul 15, 2025	: Deadline of Manuscript Submission
Jul 30, 2025	: Deadline of Acceptance of Manuscript
Aug 15, 2025	: Deadline of Registration

Nearby Place of Tourist Attrarction

Jim Corbett National Park

Jim Corbett National Park is a forested wildlife sanctuary in northern India's Uttarakhand State. Rich in flora and fauna, it's known for its Bengal tigers. Animals, including tigers, leopards and wild elephants, roam the Dhikala zone. On the banks of the Ramganga Reservoir, the Sonanadi zone is home to elephants and leopards, along with hundreds of species of birds.



Rishikesh :

Rishikesh is Located in the foothills of the Himalayas in northern India, it is known as the 'Yoga Capital of the World'. It is approximately 25 km (16 mi) north of the city Haridwar and 43 km (27 mi) southeast of the state capital Dehradun. It is known as the pilgrimage town and regarded as one of the holiest places to Hindus. Hindu sages and saints have visited Rishikesh since ancient times to meditate in search of higher knowledge.



Organising Committee

Chairman	: M. A. Iqbal
Adviser	: Praveen Kumar, HOD
Co-Chairmen	: N.K. Samadhiya, R. Velmurugan
Founding Chairman	: N. K. Gupta
Secretaries	: Sonalisa Ray & Rakesh Ranjan

Members

- ◆ Abhishek Rajput, IIT Indore
- ◆ Abhiraj Sharma, IIT Roorkee
- ◆ Akhil Upadhyay, IIT Roorkee
- ◆ Amit Shaw, IIT Kharagpur
- ◆ Anjaneya Dixit, IIT Roorkee
- ◆ Ankur Trigunayak, TBRL Chandigarh
- ◆ Anupam Chakrabarti, IIT Roorkee
- ◆ Asif Husain, JMI, New Delhi
- ◆ Bhupinder Singh, IIT Roorkee
- ◆ B. P. Patel, IIT Delhi
- ◆ B.K. Mishra, IIT Roorkee
- ◆ C.Srikanth, ARDE Pune
- ◆ A. Deb, IISc Bangalore
- ◆ D.K. Dhote, ARDE Pune
- ◆ G. Prabhakar, NPCIL, Mumbai
- ◆ Gaurav Tiwari, VNIT Nagpur
- ◆ H. Abbas, KSU Riyadh
- ◆ I.V. Singh, IIT Roorkee
- ◆ A. K. Mittal^{ret.}, CBRI, Roorkee
- ◆ K. Senthil, NIT Jalandhar
- ◆ Kamil Khan, AMU Aligarh
- ◆ L. S. Ramachandra, IIT Kharagpur
- ◆ Micky Dalbahera, CBRI, Roorkee
- ◆ Moloy Chakraborty, AERB, Mumbai
- ◆ Naresh Bhatnagar, IIT Delhi
- ◆ P. Venkitanarayanan, IIT Kanpur
- ◆ Pradeep Bhargava, IIT Roorkee
- ◆ Pramod Kumar Gupta, IIT Roorkee
- ◆ Prince Sharma, TBRL Chandigarh
- ◆ Punit Mahajan, IIT Delhi
- ◆ B. Ramakrishna, DMRL Hyderabad
- ◆ Rajib Chowdhury, IIT Roorkee
- ◆ Rajiv Ranjan, NPCIL, Mumbai
- ◆ Rehan Sadique, AMU, Aligarh
- ◆ Santosh Kapuria, IIT Delhi
- ◆ S. Hegde, IIT Delhi
- ◆ S. Gopalakrishnan, IISc Bangalore
- ◆ S. V. Gade, ARDE Pune
- ◆ Sandipan Paul, IIT Roorkee
- ◆ Sanjay Chikermane, IIT Roorkee
- ◆ S. Roy Chowdhury, IIT Roorkee
- ◆ Sourav Acharya, AERB, Mumbai
- ◆ Sudakshina Dutta, IIT Roorkee
- ◆ Tarun Gangwar, IIT Roorkee
- ◆ Umesh Kumar Sharma, IIT Roorkee
- ◆ V. A. Sawant, IIT Roorkee
- ◆ V. Madhu, DMRL, Hyderabad
- ◆ Venkatesan J., SERC Chennai
- ◆ Vimal Kumar, NIT Hamirpur
- ◆ Vipul Prakash, IIT Roorkee
- ◆ Vivek Panchoi, IIT Roorkee
- ◆ Vasant Matsagar, IIT Delhi
- ◆ Zaid Mohammad, AMU, Aligarh

Haridwar :

Haridwar is a city and municipal corporation in the Haridwar district of Uttarakhand, India. With a population of 228,832 in 2011, it is the second-largest city in the state and the largest in the district.

Mussoorie :

Mussoorie is a hill station in the Dehradun District of the northern Indian state of Uttarakhand. It is about 35 kilometres (22 mi) from the state capital of Dehradun and 290 km (180 mi) north of the national capital of New Delhi. The hill station is in the foothills of the Garhwal Himalayan range. The adjoining town of Landour, which includes a military cantonment, is considered part of 'greater Mussoorie', as are the townships of Barlowganj and Jharipani.



International Scientific Committee

Chairman Guoxing Lu, Australia

Members

- ◆ Arun Shukla, USA
- ◆ Chengqing Wu, Australia
- ◆ D.A. Indeitsev, Russia
- ◆ D. Karagiozova, Bulgaria
- ◆ Drik Mohr, Switzerland
- ◆ D. Z. Yankelevsky, Israel
- ◆ Dong Ruan, Australia
- ◆ E. Cadoni, Switzerland
- ◆ F. Yoshida, Japan
- ◆ G. Nurick, South Africa
- ◆ H. Altenbach, Germany
- ◆ H. Abbas, KSU Riyadh
- ◆ H. G. Reimerdes, Germany
- ◆ Hong Hao, Australia
- ◆ Hamid Sheikh, Australia
- ◆ Jeom Kee Paik, South Korea
- ◆ J. K. Paik, South Korea
- ◆ J. P. Ponthot, Belgium
- ◆ Magnus Langseth, Norway
- ◆ M. Alves, Brazil
- ◆ N. F. Morozov, Russia
- ◆ Nikita Morozov, Russia
- ◆ Otto Bruhns, Germany
- ◆ Prateek Kishore
- ◆ Q. M. Li, UK
- ◆ R. Grzebieta, Australia
- ◆ R. K. Singh (retd.) AERD, Mumbai
- ◆ S. Hiermaier, Germany
- ◆ S. R. Reid, UK
- ◆ S. C. K. Yuen, South Africa
- ◆ S. Kuznetsov, Russia
- ◆ T. Borvik, Norway
- ◆ T. Weirzbicki, USA
- ◆ T. X. Yu, Hongkong
- ◆ T. Matseevich, Russia
- ◆ V. Bratov, UK
- ◆ V. Bratova, Russia
- ◆ V. P. W. Shim, Singapore
- ◆ Vikash Kumar, DMRL Hyderabad
- ◆ Vikram Deshpande, UK
- ◆ W. Altenhof, Canada
- ◆ Wensu Chen, Australia
- ◆ W.Riedel, Germany
- ◆ Werner Riedel, Germany
- ◆ Xiao Wei Chen, China
- ◆ Y. D. S. Rajapakse, USA
- ◆ Y. L. Bai, China
- ◆ Z. L. Kowalewski, Poland

Contact

Dr. M. A. Iqbal

Tel : +91 1332 285866, +91 9269732317, 9897379426

E-mail : implast2025@ce.iitr.ac.in

: implast2025iitr@gmail.com

: ashraf.iqbal@ce.iitr.ac.in

Web. : https://implast2025.iitr.ac.in

Department of Civil Engineering,
Indian Institute of Technology Roorkee,
Roorkee - 247 667, India
Fax : +91 1332 275568