Dept. of Biotechnology and Medical Engg., and Dept. of Mechanical Engg. (NIT Rourkela) in association with National Institute of Technology Uttarakhand



International Conference on Biological Innovation, Technology, Engineering and Sciences (BITES-2024)

18th -20th December 2024



Event Highlights



Oral Presentation, Poster Presentation, Scientific Photography, Bio Idea Pitch

egistration

Abstract submission : 30 Oct 2024
Acceptance of abstract : 15 Nov 2024
Registration : 20 Nov 2024
*late registration charges of 20% extra

Website: https://bites-2024.nitrkl.ac.in/ Registration link —

https://forms.gle/s1hdv4Q9s1uoskPu9

Abstract submission link -

https://forms.gle/YjRAw5J5uQAPjPcUA

PATRON:

Prof. K. Umamaheshwar Rao, Director, NIT Rourkela Prof. B.V. Ramana Reddy, I/c Director, NIT Uttarakhand

CHAIRMAN: Prof. Devendra Verma, HoD, BM

CONVENORS: Prof. Ravi Kant Avvari,

Prof. Dharmendra Tripathy (NIT UK)

CO-CONVENORS: Prof. Prasoon Kumar,

Prof. Earu Banoth, Prof. Kishore Singh Patel (ME)



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Publication of extended papers

- . SI Fluid Dynamics of Life, Physics of Fluids
- 2. Vector-Borne Diseases, J. of Biological Control
- 3. Driving Innovation in Biomechanics: Role of Adv. Sensing, Meas. & Instrumentation Systems, Cambridge Scholar Pub.

Physics of Fluids AIP Publishing





About the Conference

The conference aims to provide an excellent platform for engineers, scientists, researchers, and professionals to share knowledge and experiences on the dynamics of the interdisciplinary approaches in solving problems of relevance to bioengineering covering major domains of Biological Innovation, Technology, Engineering and Sciences. The conference will serve as the best platform to learn and share new ideas in the area by connecting the stakeholders involved, particularly students, faculties, engineers, doctors, entrepreneurs, incubators, and enthusiasts. Further, the conference will also inspire the new generation of bioengineers to come up with novel, translatable ideas to meet the needs of the national and international community.

About NIT Rourkela

NIT Rourkela (the erstwhile Regional Engineering College, renamed on 26th June 2002) is one of the institutes of national importance under the Ministry of Education, Government of India. The government of India has elevated the Regional Engineering College, Rourkela to an autonomous institution under the name of the National Institute of Technology, Rourkela. https://nitrkl.ac.in

About the Department - BM

Department of Biotechnology The and Medical Engineering was established in 2007 to provide a multidisciplinary research and teaching program in Biotechnology and Medical Engineering that advances a fundamental understanding of how biological systems develop effective operate and to biology-based technologies for applications across a wide spectrum of societal needs including innovations in diagnosis, therapy of human diseases, design of novel biomaterials, biomedical devices, and in solving environmental hazard. The faculty members have diverse research interests and they conduct both basic and applied research in diverse areas such as Cell & Molecular Engineering, Tissue Engineering & Biomaterials, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Bio transport Engineering, and Medical Electronics & Instrumentation.

Registration

Please register for the conference using the following link

Participants	Indian	Foreign
UG/PG Students	Rs. 2500	USD 75
Research Scholars	Rs. 4000	USD 100
Academicians	Rs. 6000	USD 150
Industry	Rs. 8000	USD 250

For Attendees Rs. 1000/ USD 25. Registration includes – conference kit, high tea, breakfast and lunch (GST incl.). #registration for student/ staff of NIT Rourkela is free; Accommodation will be arranged at the campus, subject to availability and charges payable by the participant.

Payment may be made using QR code (see first page) or using online transfer in favor of "Conference, NIT Rourkela" payable at SBI, NIT Branch to Account No.: 36734418111, IFSC: SBIN0002109, MICR: 769002007, SWIFT: SBININBB137

For more further details please visit the website https://bites-2024.nitrkl.ac.in/

About NIT Uttarakhand

National Institute of Technology, Uttarakhand (NITUK) is an Institute of National Importance. Since its inception, this Institute has grown in many fields and has established itself as one of the best Technical Educational Institutes. NITUK is established in 2009 under the Act of Parliament by the Ministry of Education (Shiksha Mantralaya). https://www.nituk.ac.in/

About the Department - ME

Mechanical Engineering is often called the mother of all engineering. It covers a host of subjects: properties of materials. structural design. material processing, manufacturing, heat engines, refrigeration and air conditioning, industrial management, robotics and much more. The Mechanical Engineering Department of NIT, Rourkela is known for research in most of these fields. The main foci of research are on mechanical vibration, robotics, CAD/CAM, precision engineering, Metal manufacturing, CFD, Industrial refrigeration and Cryogenics.

Theme of the Conference

"The Future of Biological Innovation" serves as a compelling focal point for the conference, offering a platform to explore a diverse array of topics. This theme delves into emerging technologies and pioneering research, focusing on how technology and engineering are unlocking new potentials in biological research, sharing ideas, and addressing challenges in the field.

The conference covers topics in biosciences and bioengineering area from an interdisciplinary perspective, but not limited to, such as – Cell & Molecular Engineering, Tissue Engineering & Biomaterials, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Biotransport Engineering, and Medical Electronics & Instrumentation.

Note: Scopus and Web of Science indexed publications will be added after the final consent from the publishers related to the theme of the conference.

Sponsorship

BITES-2024 will serve as a platform for industries/ start-ups/ sponsors to collaborate with best minds in the field. This platform will help sponsors in building network and promote their products and branding.

Contact details

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Prof. Prasoon Kumar | kumarprasoon@nitrkl.ac.in

Prof. Earu Banoth | banothe@nitrkl.ac.in

Prof. Kishore Singh Patel | patelks@nitrkl.ac.in

Keynote Speakers

Prof. M Sultan Mohamed Ali

Universiti Teknologi Malaysia

Prof. T. Bhaskar

Scientist F, IIP Dehradun

Prof. Suman Chakraborty

Shanti Swarup Bhatnagar Awardee, Professor, IIT Kharagpur

Prof. Sashikanta Dash

Dy. Director (Biotech.), S&T Odisha

Prof. Suresh Kumar Dubey

Professor, BHU, Varanasi

Prof. Alan Jeffrey Giacomin

Editor-in-Chief, Physics of Fluids

Prof. G.P. Raja Sekhar

National Mathematician Awardee, Professor, IIT Kharagpur

Prof. Mukesh K. Gupta

Director, ICMR-NARFBR, Hyderabad

Prof. Luís Miguel Grilo

Professor, Unv. of Evora, Portugal

Prof. Singam Jayanthu

National Mineral Awardee, Professor, NIT Rourkela

Dr. Mona Kanso

PostDoc Assoc, Massachusetts Institute of Technology

Prof. Dhirendra S Katti

Director, IIT Goa

Prof. Sunil K. Khare

Director, IISER Kolkata

Prof. Kh S. Mekheimer

Prof. & Ex-Vice Dean (PG), Al-Azhar University, Cairo

Prof. Bidyut K Mohanty

VCOM, USA

Dr. Sanjib Mohanty

Ex Director, IGH Rourkela

Prof. Anuj Mubayi

Illinois University USA

Prof. Ashok Pandey

Executive Director, Centre for Energy and Env. Sustainability, Lucknow

Mr. Dhiren Pattanayak

Asst. Controller (P&D), IPO Kolkata

Prof. Minakshi Prasad

Editor-in-Chief, Indian J. of Microbiology

Dr. Praveen Sahu

Sr. Scientist, CWS Hospital, Rourkela

Prof. Kolla Sreedevi

Chief Editor, J. of Biological Control

Dr. S. Venkata Mohan

Chief Scientist, IICT Hyderabad

Prof. R. Vinu

Professor, IIT Madras

Invited Speakers

Ms. Anna Sappington

Harvard University and MIT

Dr. Neha Arya

Asst. Professor, AIIMS Bhopal

Prof. Iswar Baitharu

Asst. Professor, Sambalpur Unv.

Prof. Anil Kumar Birru

Head & Assoc. Prof., NIT Manipur

Prof. Tikam Chand Dakal

Asst. Prof., Mohanlal Sukhadia Unv.

Prof. Debasmita Dubey

Assoc. Professor, SOA Unv BBS

Prof. Chandan Goswami

Professor, NISER Bhubaneswar

Prof. Raj Kumar Joshi

Prof. & Head, Rama Devi Women's Unv., Bhubaneswar

Prof. Alok Jain

Asst. Professor, BIT Mesra

Prof. Era Jain

Asst. Prof., Syracuse University

Prof. Dhruv Kumar

Prof. & Cluster Head, SoHST Dehradun

Prof. Aradhana Mishra

Sr. Principal Sc., NBRI, Lucknow

Prof. Rakesh K. Mishra

Head & Asst. Prof., NIT UK

Prof. Danumjaya Palla

Professor, BITS Pilani, Goa

Prof. Sirsendu Sekhar Rav

Professor, North-Eastern Hill Unv.

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Asst. Prof. of Prac., Texas T. Unv.

Prof. Yamini Sudha Sistla

Assoc. Prof., Shiv Nadar University

Prof. Anurag Kumar Tiwari

Asst. Professor, NIT Jalandhar

Prof. Ruchi Mishra Tiwari

Asst. Prof., Symbiosis International (Deemed Unv.)

Prof. Jai Prakash Tripathi

Asst. Prof., Central Unv. Rajasthan

Prof. Rajesh Vasita

Asst. Prof., Central Unv. of Gujarat

Dr. Vaibhav Mohanty

Harvard University and MIT

Prof. Vivekanand

Asst. Professor, MNIT Jaipur

BITES-2024



