

3rd International Conference on Bioprocess for Sustainable Environment and Energy (Hybrid mode)

June 20-24, 2022



ICBSEE-
India-2022



Organized
by

Department of
Biotechnology and Medical
Engineering
NIT Rourkela
Venue : NIT Rourkela

About Host

Department of Biotechnology and Medical Engineering at National Institute of Technology Rourkela (NIT Rourkela) was established in 2004 to flourish in the emerging areas of biotechnology and Biomedical Engineering. NIT Rourkela provides quality education in a diverse and multi-cultural environment. The mission of the institute is to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate studies.

Welcome to ICBSEE-India-2022

ICBSEE-India-2022 will enlighten the field of **Energy-Environment-Bioprocess**. The main theme of the conference is **"Bioprocess: From Research to Real Life"** which covers a wide range of critically important sessions. ICBSEE-India-2022 would provide a platform for the interaction between the Scientist communities around the world and aims in establishing pollution free sustainable environment by accelerating the cutting edge Bioprocess Technologies.

ICBSEE-India-2022 provides the combined arena of government-academia-industry to incorporate all potential aspects in approaching one-foot step ahead towards MAKING SWACHHA BHARAT

International Advisory Committee

Prof. Jih-Gaw Lin, NCTU, Taiwan
Prof. Jeonghwan Kim, INHA University, South Korea
Prof. Jega Jegatheesan, RMIT University, Australia
Dr. Li Shu, RMIT University, Australia
Prof. Piet Lens, IHE Delft Institute, Netherlands
Prof. Eldon Raj Rene, IHE Delft Institute, Netherlands
Prof. Ramaraj Boopathy, Nicholls State University, USA
Prof. Ji-Dong Gu, University of Hong Kong, China
Prof. NG How Yong, NUS, Singapore
Prof. Marilia Mateus, IST, Lisbon, Portugal
Prof. Rossana Bossi, ATPRO, Denmark
Prof. S K Brar, INDLRSC, Canada
Prof. Jack T. Trevors, Ontario, Canada
Prof. Wen Hsing Chen, NIU, Taiwan
Prof. Teresa Gea, Barcelona, Spain
Dr. Sanket J. Joshi, Sultan Qaboos University, Oman
Prof. Amit Bhatnagar, UEF, Finland
Prof. Angeles Blanco Suarez, University of Madrid, Spain

National Advisory Committee

Prof. Debabrata Das, IIT Kharagpur
Prof. Rintu Banerjee, IIT Kharagpur
Prof. Ram Krishna Sen, IIT Kharagpur
Prof. T.R. Sreekrishnan, IIT Delhi
Prof. P. Kumar, IIT Roorkee
Prof. Kannan Pakshirajan, IIT Guwahati
Prof. P. Saravanan, IIT (ISM) Dhanbad
Prof. P. S. Goswami, IIT Bombay
Prof. Rajnish Kumar, IIT Madras
Prof. J. M. Modak, IISC Bangalore
Prof. Ashok Pandey, CIAB Mohali
Dr. N. K. Dhal, IIMT Bhubaneswar
Prof. Vikash Kumar Dubey, IIT BHU
Dr. Thallada Bhaskar, IIP Dehradun
Prof. Supratim Datta, IISER Kolkata
Prof. Kusum Arunachalam, Doon university, Dehradun
Prof. V. Venkata Dasu, IIT Gwahati
Prof. Pinaki Sar, IIT Kharagpur
Dr. Santanu Dasgupta, Reliance Industris Ltd.
Dr. Yogesh S. Shouche, NCMR Pune
Dr. Ashok Ghosh, Mahavir Cancer Sansthan & research Center, Patna
Dr. Sukumar Debnath, CFTRI, Mysore
Prof. Virendra Kumar Vijay, Center for Rural Development & Technology, IIT Delhi
Prof. Suparna Mukherji, development of Environmental science & engineering (IIT Bombay, Mumbai)

Organizing Committee:

Chief Patron: Prof. K. Umamaheshwar Rao

Chairperson: Prof. Kunal Pal

**Organizing Secretary: Prof. Angana Sarkar
&
Prof. Kasturi Dutta**

Prof. M. K. Gupta

Prof. Krishna Pramanik

Prof. Subhankar Paul

Prof. A Thirugnanam

Prof. Amit Biswas

Prof. B. P. Nayak

Prof. S S Ray

Prof. Devendra Verma

Prof. Nandini Sarkar

Prof. Nivedita Patra

Prof. P. Balasubramanian

Prof. Sivaraman J

Prof. Anju R. Babu

Prof. Bala Chakravarthy

Neelapu

Prof. Earu Banoth

Prof. Mirza Khalid Baig

Prof. Prasoon Kumar

Prof. Ravi Kant Avvari

ICBSEE-Series Advisors

Prof. Jih-Gaw Lin

Prof. Ji-Dong Gu

Prof. Veeria Jeegathesan

Dr. Achlesh Daverey

Scope of the Conference:

The major thrust of **ICBSEE-India-2022** is to emphasize the recent innovations and development of bioprocess strategies towards **environment and energy**. Keeping this in view, exclusive sessions will be dedicated to personnel from broad area of academia, industry and research on the focussed thematic areas.

The conference will focus on the following topics, but not limited to:

i. Environment

- Bioremediation: solid and liquid wastes
- Hazardous substances: detection and management techniques
- Carbon sequestration and storage
- Green organic synthesis routes
- Product engineering in the Bio-Industries
- Product innovation, development and economics
- Enzymes of environmental importance
- Biomaterials and Nanotechnology
- Recovery and recycling of effluents
- Value added products from wastes

ii. Wastewater treatment

- Municipal wastewater treatment
- Sewage treatment
- Industrial wastewater treatment
- Power plant wastewater treatment
- Nuclear plant wastewater treatment
- Advance technology in wastewater treatment
- Recycle, recovery and reuse of resources from wastewater
- Energy generation from wastewater

iii. Health impact of environmental pollution

- Heavy metal toxicity
- Health effect of radio nucleotides
- Emerging contaminants and their effects on health
- Microbiome analysis for pollutant toxicity
- Carcinogenesis
- Metabolomics for pathway analysis
- System biology approach for toxicity
- Cause and remediation of diseases from environment

iv. Bioprocess

- Bioprocess: advance approaches for better quality product
- Enzymes of Industrial importance
- Biomass Processing
- Biomass to bioresources
- Bioprocess for Food and Fermentation
- Bioplastic
- Biosurfactant
- Biopesticide
- Biochar
- Enzymes for biosensor
- Marine Bioprocess
- Algal biorefinery
- Recombinant biomolecules
- Human therapeutics
- Biomolecules from animal cell
- Production of nutraceuticals and probiotics

v. Energy

- Biofuels
- Bio-refinery
- Green energy
- Waste-to-energy technology
- Sustainable and renewable energy
- Clean energy systems and technology
- Low cost and innovative technologies
- Advance technologies for alternative fuels
- Renewable energy

vi. Omics for environment and product development

- Metagenomics of environmental samples
- Biodiversity analysis from environmental samples
- Microbiome analysis
- Bioinformatics analysis for whole genome
- Metabolomics for pathway analysis
- Proteomics for improved product and process
- Transcriptomics for improved product and process

Abstract Submission

➤ The final version of the abstract should be mailed to icbsee@gmail.com

Key Dates:

1. Final Abstract submission: 30th May 2022
2. Final Registration deadline: 4th June 2022

Final Registration fees:

National:

Faculties from academic institutions: Rs. 5000/-
Participants from industries: Rs. 5000/-
Research Scholars: Rs. 4000/-

International:

Research Scholars (International): USD 50
Faculties and Scientists (International): USD 50

Links:



www.icbsee-india.com



https://www.facebook.com/lcbsee-100195402699843/?ref=pages_you_manage



https://www.instagram.com/icbsee_conference_nitrkl/



<https://www.linkedin.com/in/international-conference-on-bioprocess-for-sustainable-environment-and-energy-6a7b32239/>



<https://twitter.com/icbsee>

PAYMENT: All payments should be made through A/c payee Demand Draft in favor of “**CONFERENCE NIT ROURKELA**”, payable at SBI NIT Campus Branch, Rourkela (IFSC Code: SBIN0002109) or through NEFT transfer to **A/c No. 36734418111**. You can also visit www.nitrkl.ac.in for downloading the registration form and other information.

KEYNOTE Speaker ICBSEE 2022



Prof. Abdul Wahab Mohammad
Universiti Kebangsaan Malaysia



Prof. Ji-Dong GU
Guangdong Technion - Israel Institute
of Technology, China



Prof. Piet Lens
IHE Delft, Netherlands



Prof. Ulla Iassi
University of Oulu, Finland



Prof. Ramkrishna Sen
IIT Kharagpur, India



Prof. Eldon Rene
IHE Delft, Netherlands



Prof. Ashok Pandey
CSIR-IITR, Lucknow, India



Prof. Kannan Pakshirajan
IIT Guwahati, India



Dr. Yanlong Zhang
College of environment & ecology Xiamen University

KEYNOTE Speaker ICBSEE 2022



Prof. Rintu Baneerjee
IIT Kharagpur, India



Dr. Prabhakar Sangurmath
HGML, India



Dr. Thallada Bhaskar
IIP Dehradun, India



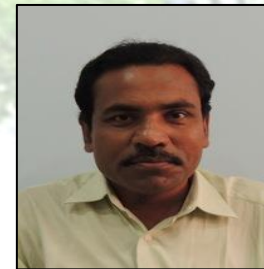
Prof. Sanjoy Ghosh
IIT Roorkee, India



Prof. Prosun Bhattacharya
KTHRIT, Stockholm, Sweden



Dr. Nour Shafik Emam El-Gendy
Egyptian Petroleum Research Institute
MSA University



Dr. Nabin Kumar Dhal
CSIR, Bhubaneswar,
India



Prof. Punyasloke Badhury
IISER Kolkata, India



Prof. Muthumari M
Vedant Resources, Indonesia