

# International Conference on Bioprocess for Sustainable Environment and Energy

March 5-7, 2020



ICBSEE-  
India-2020



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-2020

**ICBSEE-India-2020** 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-2020 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-2020** 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, NUIG, Ireland  
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, UAB, Barcelona, Spain  
Dr. Sanket J. Joshi, Sultan Qaboos University, Oman  
Prof. Amit Bhatnagar, UEF, Finland

## National Advisory Committee

Prof. Debabrata Das, IIT Kharagpur  
Prof. Ashok Pandey, CIAB Mohali  
Prof. Rintu Banerjee, IIT Kharagpur  
Prof. Ram Krishna Sen, IIT Kharagpur  
Prof. T.R. Sreerishnan, IIT Delhi  
Prof. P. Kumar, IIT Roorkee  
Prof. K. 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  
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  
Prof. V. Venkata Dasu, IIT Guwahati  
Prof. Pinaki Sar, IIT Kharagpur

## Organizing Committee:

**Chief Patron:** Prof. Animesh Biswas

**Chairperson:** Prof. A Thirugnanam

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

Prof. Krishna Pramanik  
Prof. Subhankar Paul  
Prof. Mukesh Kumar Gupta  
Prof. Kunal Pal  
Prof. Amit Biswas  
Prof. B. P. Nayak  
Prof. Sirsendu Sekhar Ray

Prof. Devendra Verma  
Prof. Nandini Sarkar  
Prof. Nivedita Patra  
Prof. P. Balasubramanian  
Prof. Sivaraman J  
Prof. Anju R. Babu

## Abstract Submission:

- Kindly refer to the abstract template and the guide lines on the website ([www.icbsee.com](http://www.icbsee.com)) for the preparation of the abstract.
- The final version of the abstract should be mailed to [icbsee@gmail.com](mailto:icbsee@gmail.com)

## Key Dates:

1. Abstract Submission: December 31<sup>st</sup>, 2019
2. Abstract Acceptance : January 1<sup>st</sup>, 2020
3. Early Bird Registration : December 31<sup>st</sup>, 2019

## Travel and Accommodation:

The participants will have to make their own arrangements for travel. Boarding and lodging can be arranged on payment basis in the guest house at NIT Rourkela based upon prior request and availability. There are also many good hotels in Rourkela; the same can be booked on request and prior payment.

## Keynotes



Prof. Ji-Dong Gu  
The University of Hong Kong,  
Hong Kong



Prof. Rintu Banerjee  
IIT Kharagpur



Dr. Thallada Bhaskar  
CSIR-IIP Dehradun



Prof. Jega V. Jegatheesan  
RMIT University, Australia



Prof. Ram Krishna Sen  
IIT Kharagpur



Dr. Li Shu  
RMIT University, Australia



Prof. Ashok Pandey  
CIAB MOHALI, Punjab



Prof. K. Pakshirajan  
IIT Guwahati



Dr. Maulin P. Shah  
Enviro Technology  
Limited, Gujarat

### Scope of the Conference:

The major thrust of **ICBSEE-India-2020** 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

- Biodiversity and Omics
- Bioprocess and Bio-systems
- 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
- Value added products from wastes
- Plastic waste management
- Radioactive waste management
- E-waste management
- Biosensor for environmental contaminants
- Air and soil pollution
- 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

#### 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

#### 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

### Registration fees:

#### National:

**Faculties from academic institutions : Rs: 6000/-**

**Participants from industries : Rs: 10000/-**

**Research Scholars: Rs. 4000/-**

**Accompanying person: Rs. 3000/-**

#### International:

**Research Scholars (International): USD 200**

**Faculties and Scientists (International) : USD 250**

**Accompanying person: USD 100**

*N.B: Extra Rs 500/- for students and Rs. 1000/- for others and USD 50 will be charged as Late Registration fees for national and International participants, respectively after due date*

**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](http://www.nitrkl.ac.in) for downloading the registration form and other information.

### Sponsorship & Advertisement:

Offers to Sponsors	Platinum	Gold	Silver	Bronze
<b>Contribution (Rs)</b>	<b>100000</b>	<b>75000</b>	<b>50000</b>	<b>25000</b>
Oral session				
Abstract proceedings (Full page)				
Abstract proceedings (Half page)				
Web page advertisement				
Conference passes (2)				
Individual Stall				
Logo on conference poster				