



# International Conference on Biodiversity and Geochemistry of Deep and Extreme Earth Systems



Dates: 1<sup>st</sup> February to 3<sup>rd</sup> February, 2024

Venue: Indian Institute of Technology Kharagpur, Kharagpur, India

Organizer: Department of Bioscience and Biotechnology,  
Indian Institute of Technology Kharagpur, Kharagpur, India

Convener : Prof. Pinaki Sar

Department of Bioscience and Biotechnology, Indian Institute of Technology Kharagpur, Kharagpur

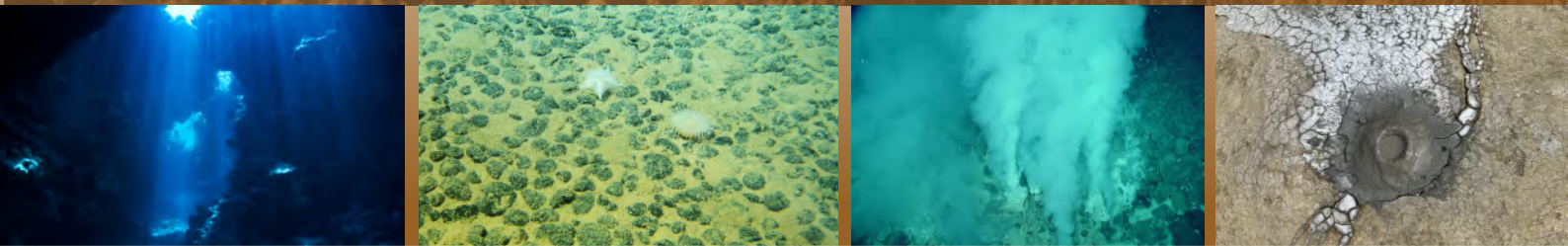
## Co-Conveners

**Prof. Punyasloke Bhadury**

Indian Institute of Science Education  
and Research Kolkata, Mohanpur

**Dr. Kazy Sufia Khannam**

National Institute of Technology  
Durgapur, Durgapur



## About the Conference

Prokaryotic microorganisms are the most abundant and active life forms in the biogeosphere. Understanding their diversity, evolution, adaptation and bio-geo-interactions as well as harnessing their catalytic potential as sustainable bioresource are among the global research priorities. This conference is organized to discuss recent scientific advancements made on existence, limits and functions of life within deep terrestrial, marine and other extreme realms. Considering the importance of geobiology of the deep Earth crust and other extreme niches, this meeting would address the key research questions pertaining to the interactions between bio- and geo-spheres; the research priorities and disseminate the necessities of such interdisciplinary research among all the stake holders.

## Major Themes

- Deep biosphere in the continental and oceanic realms
- Microbiome of extreme environments
- Geobiology; Microbes in energy, climate and sustainable development
- Metal-microbe interactions
- Origin & evolution of life; Biosignature of early life, Astrobiology
- Computational biology in microbiome/geobiology research
- New opportunities and Future prospects of deep and extreme biosphere research

## Distinguished Speakers

- **Dr. Shailesh Nayak**, National Institute of Advanced Studies, Bengaluru, India
- **Dr. Thomas L Kieft**, New Mexico Tech, Socorro, USA
- **Dr. Rup Lal**, The Energy and Resources Institute, New Delhi, India
- **Dr. Douglas Bartlett**, Scripps Institute of Oceanography, San Diego, USA
- **Dr. Ashok Pandey**, CSIR- Indian Institute of Toxicology Research, Lucknow, India
- **Dr. Frederick Colwell**, Oregon State University, Corvallis, USA
- **Dr. Yogesh Shouche**, Azim Premji University, Bengaluru, India
- **Dr. Mukund Sharma**, Birbal Sahni Institute of Palaeosciences, Lucknow, India
- **Dr. Thomas Wiersberg**, GFZ German Research Centre for Geosciences, Potsdam, Germany
- **Dr. Kasthuri Venkateswaran**, Jet Propulsion Laboratory, Pasadena, USA
- **Dr. Sharmila Mande**, Tata Consultancy Services, Pune, India
- **Dr. Sanjay Swarup**, National University of Singapore, Singapore
- **Dr. Sukanta Roy**, Ministry of Earth Sciences, Borehole Geophysics Research Laboratory, Karad, India
- **Dr. Saibal Gupta**, Indian Institute of Technology Kharagpur, Kharagpur, India
- **Dr. Henrik Drake**, Linnaeus University, Kalmar, Sweden
- **Dr. Tulika Srivastava**, Indian Institute of Technology Mandi, Himachal Pradesh, India
- **Dr. Hema Rajaram**, Bhabha Atomic Research Centre, Mumbai, India
- **Dr. Abhijit Mukherjee**, Indian Institute of Technology Kharagpur, Kharagpur, India
- **Dr. Karthik Raman**, Indian Institute of Technology Madras, Chennai, India
- **Dr. Lotta Purkamo**, Geological Survey of Finland, Espoo, Finland
- **Dr. Wriddhiman Ghosh**, Bose Institute, Kolkata, India
- **Dr. Dharani Gopal**, National Institute of Ocean Technology, Chennai, India

Interactive sessions for young researchers chaired by expert panelists (details on website)

Registration: <https://erp.iitkgp.ac.in/CEP/courses.htm>

Conference Email: [deep.extreme.earth@gmail.com](mailto:deep.extreme.earth@gmail.com); Convener's Email: [psar@bt.iitkgp.ac.in](mailto:psar@bt.iitkgp.ac.in)

Website: [www.bgdees.iitkgp.ac.in](http://www.bgdees.iitkgp.ac.in)

12:28 PM





# International Conference on Biodiversity and Geochemistry of Deep and Extreme Earth Systems



Dates: 1<sup>st</sup> February to 3<sup>rd</sup> February, 2024

Venue: Indian Institute of Technology Kharagpur, Kharagpur, India

Organizer: Department of Bioscience and Biotechnology,  
Indian Institute of Technology Kharagpur, Kharagpur, India

## Registration:

Registration for participation with/without abstract submission covers access to all conference sessions, workshops, exhibition area, tea/coffee breaks, conference lunch and dinner. Registration fees do not include accommodation cost.

## Abstract Submission:

All registered participants are encouraged to submit their abstract following the guidelines given. Abstract may be submitted during registration or by mailing it to the convener.



Last date for Registration : **22<sup>nd</sup> January, 2024**

Last date for Abstract Submission : **22<sup>nd</sup> January, 2024**

Last date for Fees Payment : **25<sup>th</sup> January, 2024**

ABSTRACT  
GUIDELINES



Registration Fees (including GST)	
Students (Domestic and SAARC)	₹5900
Non-SAARC International	₹8,260
Faculty	₹8,260
Industry Professionals	₹11,800

Registration Link	Conference Website
<a href="https://erp.iitkgp.ac.in/CEP/courses.htm">https://erp.iitkgp.ac.in/CEP/courses.htm</a>	<a href="http://www.bgdees.iitkgp.ac.in">www.bgdees.iitkgp.ac.in</a>

## Travel Support:

Financial support for travel (as per GOI norms) may be provided to limited number of young scientists/Postdocs or PhD students (from India). Application for travel support should be addressed directly to the Convener.

## Paper Presentation:

All registered participants are encouraged to present their work by poster. Details of the poster format and schedule will be communicated later. Selected papers (by young researchers) may be considered for oral presentation.

## Location and Weather:

Situated about 120 km west of Kolkata, Kharagpur can be reached in about 2 hours by train from Howrah Railway Station or 3 hours from Kolkata Airport. The Institute is a 10-minute drive (5 km) from Kharagpur Railway Station. Private taxi, auto or rickshaw can be hired to reach the Institute.

**Weather:** Winter (October to February) is moderate and pleasant (10 to 25°C) .

For more please visit : [www.iitkgp.ac.in](http://www.iitkgp.ac.in)

## Accommodation:

Limited number of accommodation may be arranged at the IIT Kharagpur Guest House (within the campus) (D/B AC Rooms : Approx. ₹2000 + 12% GST for single occupancy and Approx. ₹1500 + 12% GST for double occupancy) for general participants by the organizers – on prior request (on or before January 10th, 2024). All requests for accommodation must be addressed to the convener and shall be arranged purely based on availability.

Accommodation charges must be paid by the participant. For accommodation at IIT Kharagpur Guest House, we will try to book it, if informed us in advance.

Accommodation may also be booked at Hotel Wonder Inn, Kharagpur by Participants.

(Email: [hotelwonderinn@gmail.com](mailto:hotelwonderinn@gmail.com); Ph.: 9735834440, 9735434440).

**Conference Contact Email:** [deep.extreme.earth@gmail.com](mailto:deep.extreme.earth@gmail.com); [psar@bt.iitkgp.ac.in](mailto:psar@bt.iitkgp.ac.in)

**Website:** [www.bgdees.iitkgp.ac.in](http://www.bgdees.iitkgp.ac.in)

**Convener:** Prof. Pinaki Sar

**Department of Bioscience and Biotechnology, Indian Institute of Technology Kharagpur**

**Email:** [psar@bt.iitkgp.ac.in](mailto:psar@bt.iitkgp.ac.in); **Ph.:** +91 (0)3222-283754; **Mobile :** +91 9434154960

## Sponsors:



पृथ्वी विज्ञान मंत्रालय  
MINISTRY OF EARTH  
SCIENCES  
GOVT. OF INDIA



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY  
GOVT. OF INDIA



DEPARTMENT OF BIOTECHNOLOGY  
GOVERNMENT OF INDIA