

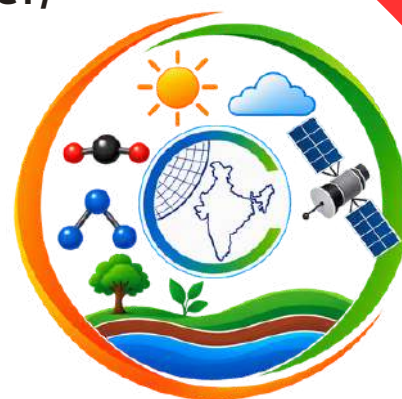


On the Occasion of Our Institute's
Platinum Jubilee: India's First Meet/
Workshop on **Atmospheric**

CHEMISTRY AND CLIMATE CHANGE (C³)

interactions

2026



07-08 December, 2026

CORAL, IIT Kharagpur



BRIDGING CHEMISTRY, CLIMATE,
AND OBSERVATIONS TOWARDS
A SUSTAINABLE WORLD



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The Centre for Ocean, River, Atmosphere and Land Sciences (CORAL) at the Indian Institute of Technology, Kharagpur was established in March 2005 for imparting quality teaching and advanced training in Earth System Science and Technology. The Centre offers a two-year Postgraduate Program (M. Tech.) in Earth System Science and Technology, along with MS and Ph.D. programmes. The M.Tech. programme in Earth System Science and Technology was established in alignment with the establishment of the Ministry of Earth Sciences (MoES), Government of India. The Centre is involved in frontier research in atmospheric and oceanic sciences.



About the Indian Institute of Technology Kharagpur

Established in 1951, the Indian Institute of Technology Kharagpur (IIT KGP) is the first and one of the most prestigious IITs in India. Recognized as an Institute of National Importance, IIT Kharagpur has been a pioneer in science, engineering, technology, management, and social sciences education and research.

Spanning a lush 2,100-acre campus, it hosts a vibrant academic community fostering innovation, interdisciplinary research, and global collaboration. The Institute is home to world-class laboratories, research centers, and facilities that drive cutting-edge advancements in fields ranging from sustainable energy and climate science to artificial intelligence and space technology.

Guided by its motto “Yogaḥ Karmasu Kauśalam” (Excellence in Action is Yoga), IIT Kharagpur continues to shape the nation’s scientific and technological landscape through education, research, and innovation aimed at solving real-world challenges and contributing to a sustainable future.

ATMOSPHERIC CHEMISTRY AND CLIMATE CHANGE INTERACTIONS

Brainstorming workshop
at IIT Kharagpur



OVERVIEW

The atmosphere is a dynamic chemical reactor where chemical composition and climate are critically intertwined. What we release into the air alters our climate, and a changing climate in turn alters the air's chemistry. This workshop explores this essential two-way relationship that shapes our planet's future.

THEMES OF THE WORKSHOP

Session 01:

Atmospheric Chemistry: Processes, Sources and Transformation

- Emissions, Sources, Transport and Chemical Lifetimes
- Photochemistry, Oxidation and Atmospheric Reactivity

Session 02:

Chemistry–Climate Feedback and Atmospheric Forcing

- Atmospheric Composition and Climate Forcing
- Climate–Chemistry Feedbacks and Earth–System Responses

Session 03:

Ozone, Oxidants and Changing Atmospheric Composition

- Tropospheric Ozone, Precursors and Oxidizing Capacity
- Stratospheric Ozone, UV Radiation and Climate Coupling

Session 04:

Atmospheric Chemistry in a Changing Climate

- Heat, Wildfires and Climate-Driven Chemical Changes
- Future Atmospheric Composition, Air Quality and Climate Risk



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Dr. Gopikrishnan G.S., Finnish Meteorological Institute

Submission Link

Submit abstract to:

atmos.iitkgp@gmail.com

More Information:

www.atmoslabiitkgp.com



CHEMISTRY AND
CLIMATE CHANGE (C³)
2026

Speakers



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Krishna**

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**B. Lakshmi
Madhavan**

NRSC, ISRO



**Ravi Kumar
Kunchala**

CAS, IIT Delhi



Sidharth S. Das

SPL, ISRO



Yogesh K Tiwari

IITM, Pune



**Som Kumar
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Centre for Ocean, River, Atmosphere and Land Sciences (CORAL)
Indian Institute of Technology Kharagpur,
Kharagpur, West Bengal, India



India's first Brainstorming workshop on Atmospheric Chemistry and Climate Change Interactions

C³ – 2026

**December
07-08, 2026**

CORAL, IIT Kharagpur

Aim

Bridging Chemistry, Climate,
and Observations towards a
Sustainable world

Themes

- **Atmospheric Chemistry: Processes, Sources and Transformation**
- **Chemistry–Climate Feedbacks and Atmospheric Forcing**
- **Ozone, Oxidants and Changing Atmospheric Composition**
- **Atmospheric Chemistry in a Changing Climate**

Important Dates

Abstract
Submission
Deadline

**October 30,
2026**

Notification of
Acceptance

**November 15,
2026**

Early Bird
Registration
Deadline

**November 30,
2026**

Conference
Dates

**December 07–
08, 2026**

Submission Link

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