



AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES, UTTAR PRADESH

Organises

Webinar

on

National Pollution Control Day 2024

“Clean Air, Green Earth: A Step Towards Sustainable Living”

02nd December 2024|| Virtual Platform

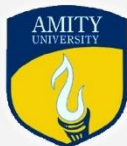
Program Schedule

Mode: Online

Time: 1:45 – 4:05 pm

<i>PROGRAMME SCHEDULE</i>	
01:45pm -01:50pm	Invocation and Lighting of Lamp & Saraswati Vandana
01:50pm -01:55pm	Welcome Address by Dr. Anamika Srivastava , Assistant Professor, AIES
01:55pm -02:00pm	Introduction to theme- National Pollution Control Day by Dr. Richa Nagar , Assistant Professor, AIES
02:00pm-02:30pm	Lecture by Prof. (Dr.) Milind Mujumdar , Retired Scientist, Indian Institute of Tropical Meteorology, Maharashtra
02:30pm-03:00pm	Lecture by Dr. Vijayakumar S Nair , Scientist F, Space Physics Laboratory, ISRO, Kerala
03:00pm -03:30pm	Lecture by Dr. M.G. Manoj , Scientist D, Cochin University of Science and Technology, Kerala
03:30pm-04:00pm	Lecture by Dr. Sunil M Sonbawne , Scientist E, Indian Institute of Tropical Meteorology, Maharashtra
04:00pm-04:05pm	Vote of Thanks by Dr. M.P. Raju , Assistant Professor, AIES

REPORT



AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES

National Pollution Control Day- 2024

Webinar on

**"Clean Air, Green Earth: A Step Towards
Sustainable Living"**

December 02nd 2024, Time: 02:00pm – 04:00pm



Prof. Milind Mujamdar
Retired Scientist, Indian Institute
of Tropical Meteorology,
Maharashtra



Dr. M.G. Manoj
Scientist D, Cochin
University of Science and
Technology, Kerala



Dr. Vijayakumar S Nair
Scientist F,
Space Physics Laboratory,
ISRO, Kerala



Dr. Sunil M Sonbawne
Scientist E, Indian Institute of
Tropical Meteorology,
Maharashtra

Overview

Amity Institute of Environmental Sciences (AIES) organized a webinar on Dec 02, 2024, as part of the National Pollution Control Day. The theme of the webinar was "**Clean Air, Green Earth: A step towards Sustainable living**". The event "National Pollution Control Day" aims to raise awareness about the critical issues of pollution, its adverse impacts on health and the environment, and the importance of pollution control measures. It also seeks to inspire students, researchers, and academicians to actively contribute to sustainable practices and innovative solutions for environmental protection.

Program Highlights

The webinar began with the traditional lighting of the lamp and Saraswati Vandana, setting a solemn tone for the event, followed by a warm welcome address delivered by **Dr. Anamika Srivastava**, Assistant Professor, AIES. Esteemed speakers from academia, researcher, and government institutions shared their valuable insights on National Pollution Control Day, and **Dr. Richa Nagar**, Assistant Professor AIES, enriched the session further with her key perspectives on the event's theme.

Speaker: Prof. (Dr.) Milind Mujumdar, Indian Institute of Tropical Meteorology, Pune

Topic: The Air Pollution Crisis: Challenges and Impacts on a Sustainable Future

Prof. (Dr.) Mujumdar highlighted the escalating air pollution crisis, focusing on its profound impacts on public health, ecosystems, and economic stability. He discussed the pressing challenges of mitigation while emphasizing the importance of sustainable strategies for building a cleaner, more resilient future.

Recommendations:

- **Raising Public Awareness and Education**
- **Expanding Air Quality Monitoring Systems**
- **Fostering Research and Technological Advancements**

The screenshot shows a Zoom meeting interface. At the top, the title bar indicates 'You are viewing Milind Mujumdar's screen'. Below the title bar, there is a header with participant names: M P Raju, Anamika Shri..., Sunil Sonbaw..., and DR. Richa Na... (DR. Richa Nagar). A notification bar states 'Saba Mushtaq entered the waiting room' with an 'Admit' button. The main content area displays a presentation titled 'Effect of Air Pollutants' with the subtitle 'ANATOMY OF THE LUNGS'. The presentation includes diagrams of the human respiratory system, showing the trachea, bronchi, bronchioles, and alveoli. Text on the slide states: 'Lung - the main entry point of air pollutants, and the target organ is the alveolus. (There are 300 million alveoli in human lungs)', '10,000 – 15,000 litres air enters every day in an adult lung.', 'Increase in the concentration of pollutants cause parallel increase in the toxic insult to the lungs', and 'From the alveolus, pollutants travel via lymph or blood to different organs.' The bottom of the slide mentions 'Central Pollution Control Board, Bangalore Zonal Office'. The right sidebar shows a 'Waiting Room (1)' with Saba Mushtaq and a 'Joined (92)' list of participants including Anamika Shrivastava, Amity University (Host), Milind Mujumdar (Co-host), Amrik Bhattacharya (Co-host), DR. Richa Nagar (Co-host), Harshita Jain (Co-host), JUHI GUPTA (Co-host), M P Raju (Co-host), NARESH KUMAR (Co-host), and Renu Dhupper (Co-host). The bottom of the screen shows the Zoom meeting controls and the macOS dock.

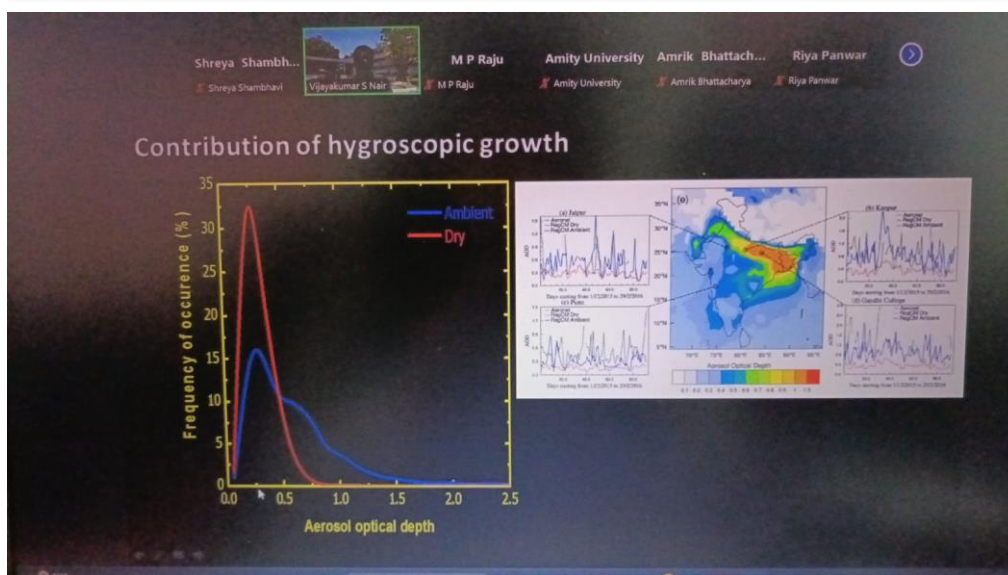
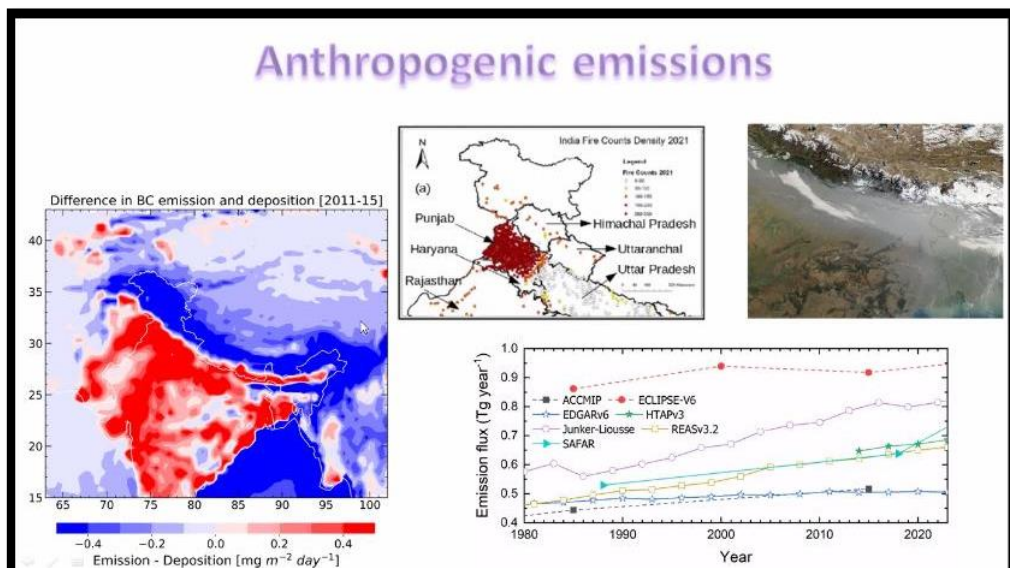
Speaker: Dr. Vijayakumar S Nair, Space Physics Laboratory, ISRO, Kerala

Topic: Hygroscopic nature of aerosols over Indo-Gangetic Plain, Northern India.

Dr. Vijayakumar S. Nair focused on the hygroscopic growth of aerosols over the Indo-Gangetic Plain (IGP) highlighted their significant size and optical changes with increasing humidity. Aerosols like sulphates show exponential growth, while dust remains hydrophobic. Winter conditions in the IGP enhance aerosol accumulation, intensifying their radiative impacts. **Dr. Nair** emphasised that models like RegCM4 validate these findings, emphasizing the role of humidity in regional climate dynamics

Recommendations:

- **Awareness Campaigns**
- **Community Participation Programs**
- **Policy Advocacy and Implementation**



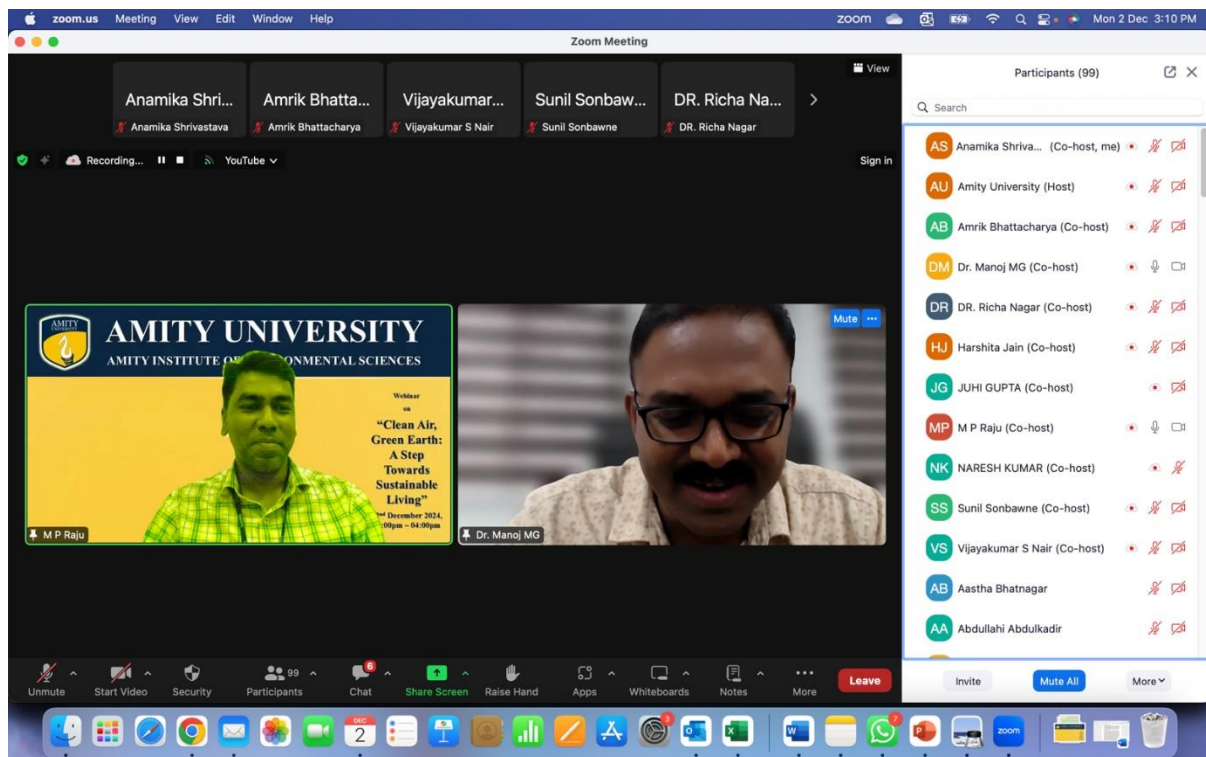
Speaker: Dr. M.G. Manoj, Cochin University of Science and Technology, Kerala

Topic: Aerosol radiative effects on convection and monsoon

Dr. M.G. Manoj emphasized how aerosols influence atmospheric convection and the monsoon system. He highlighted the dual role of aerosols, both cooling the surface by scattering sunlight and warming the atmosphere through absorption, thereby altering convection patterns. The talk shed light on the cascading effects of these changes on monsoon precipitation, circulation, and variability. **Dr. Manoj** also discussed the importance of incorporating aerosol radiative feedback into climate models to improve monsoon predictions.

Recommendations:

- **Strengthening Aerosol Monitoring Networks**
- **Advancing Climate Modeling Capabilities**
- **Fostering Interdisciplinary Collaboration**
- **Developing Mitigation and Adaptation Strategies**



Speaker: Dr. Sunil M Sonbawne, Indian Institute of Tropical Meteorology, Pune

Topic: All about SMOG

Dr. Sunil M Sonbawne focused on the alarming smog situation in the NCR Delhi region. He highlighted its primary causes, including vehicular emissions, industrial pollution, and stubble burning. The discussion emphasized the health impacts, such as respiratory and cardiovascular issues, alongside the environmental consequences. **Dr. Sunil** also proposed actionable measures like stricter emission controls, promotion of cleaner fuels, and enhanced public awareness.

Recommendations:

- **Strengthening Emission Regulations**
- **Promoting Sustainable Practices**
- **Raising Public Awareness**

The webinar served as an excellent platform for exchanging knowledge and discussing advanced national pollution control techniques. Expert insights provided actionable strategies to address pollution challenges, particularly emphasizing sustainable groundwater utilization. These discussions are expected to foster innovative practices and policy frameworks to ensure groundwater conservation and pollution mitigation in India.