AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES, UTTAR PRADESH

Organises

Webinar

on

National Pollution Control Day 2024

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

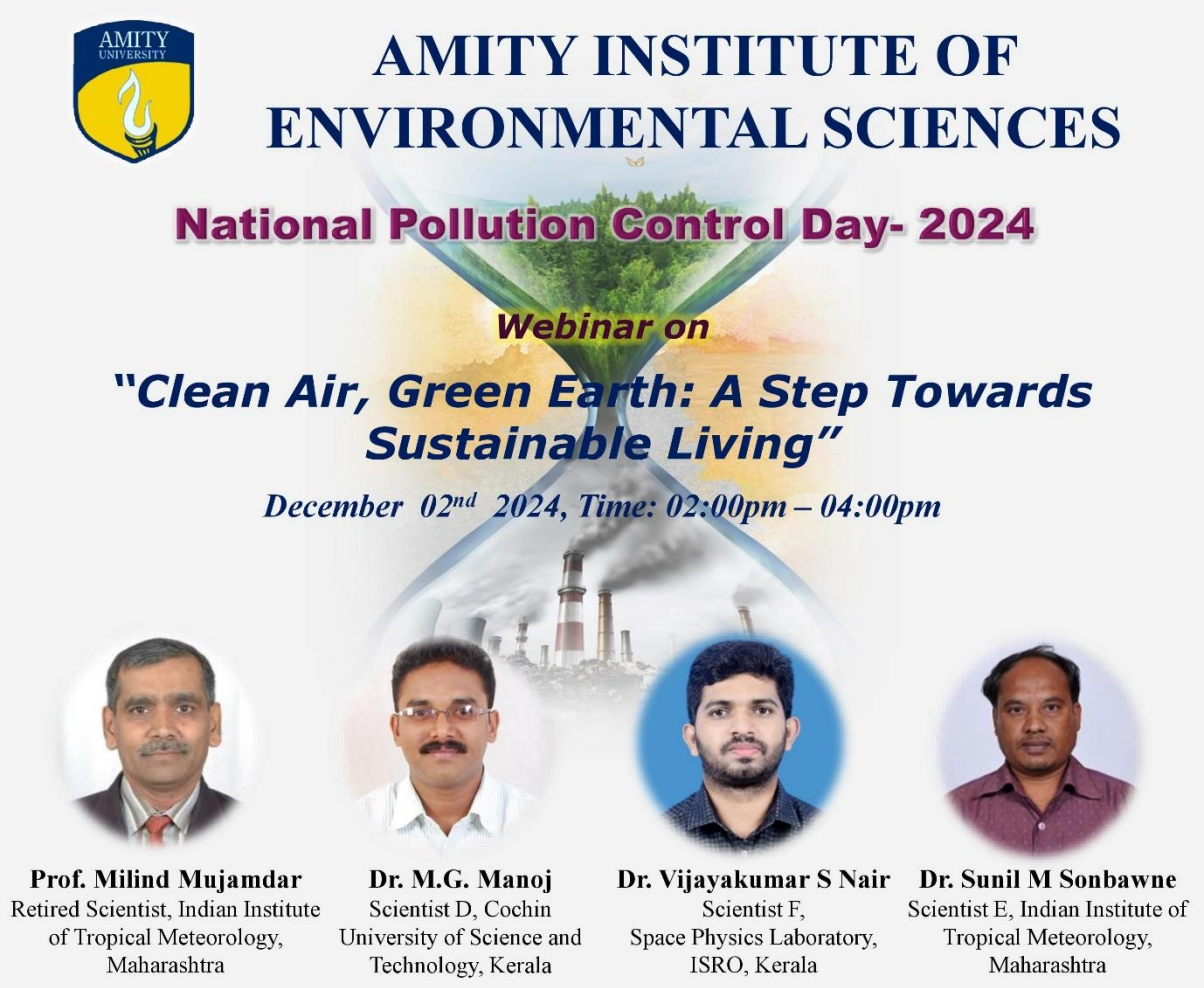
02nd December 2024|| Virtual Platform

Program Schedule

Mode: Online Time: 1:45 – 4:05 pm

PROGRAMME SCHEDULE	
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



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.

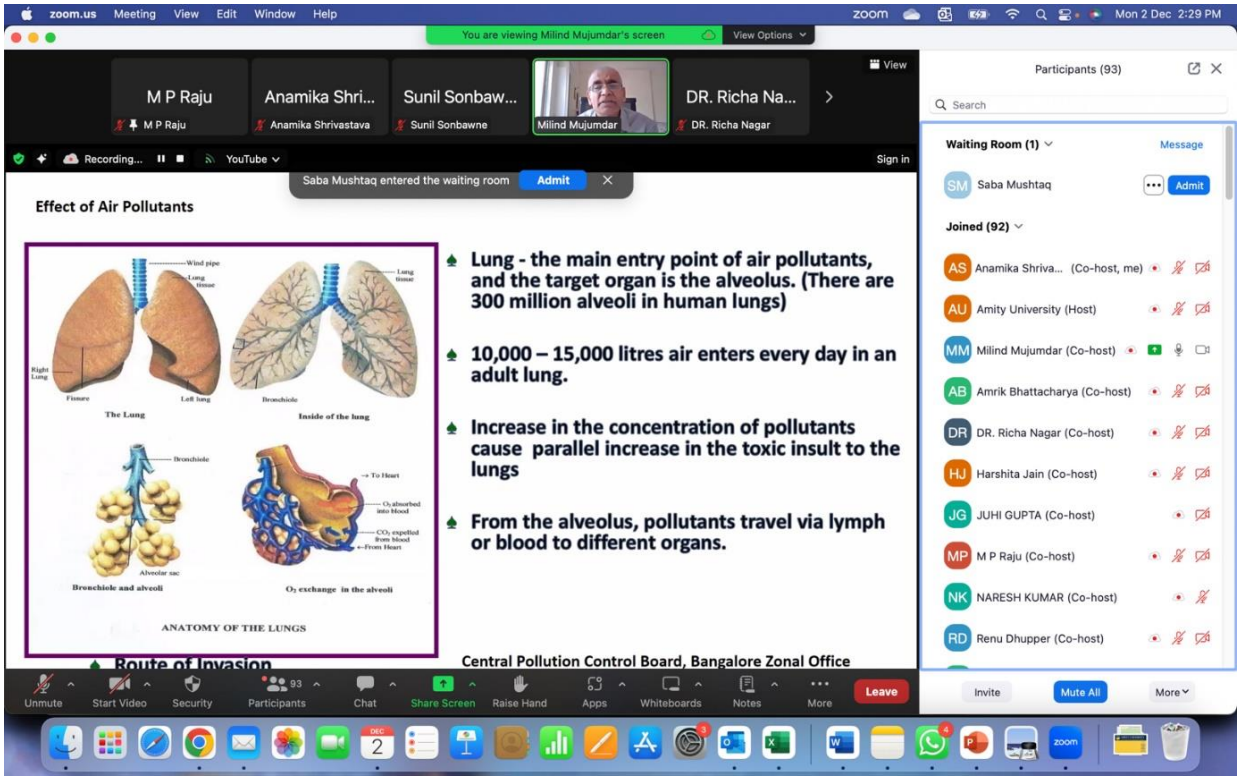
Speaker: Prof. (Dr.) Milind Mujumdar, Indian Institute of Tropical Meteorology, Pune

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**



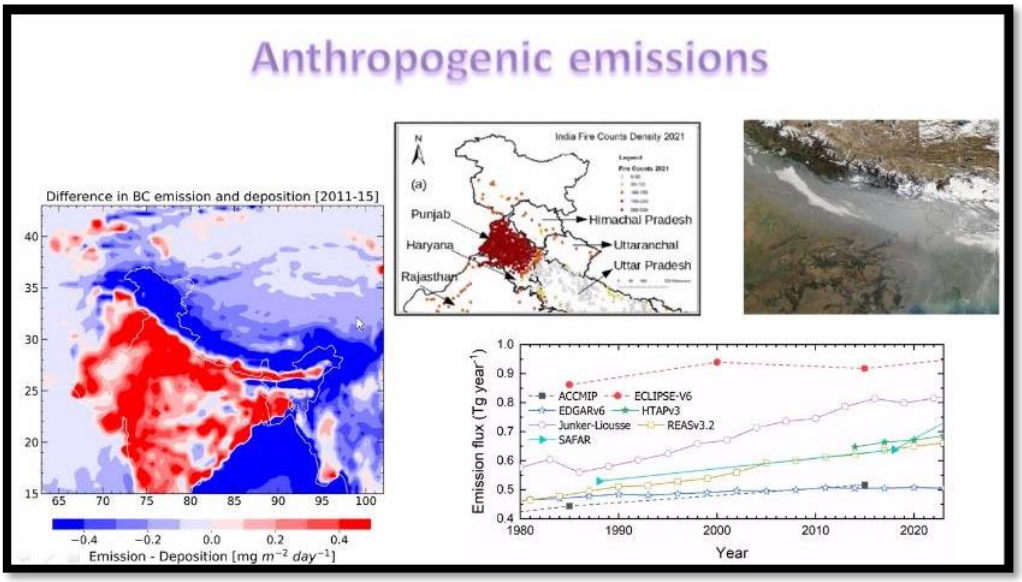
Speaker: Dr. Vijayakumar S Nair, Space Physics Laboratory, ISRO, Kerala

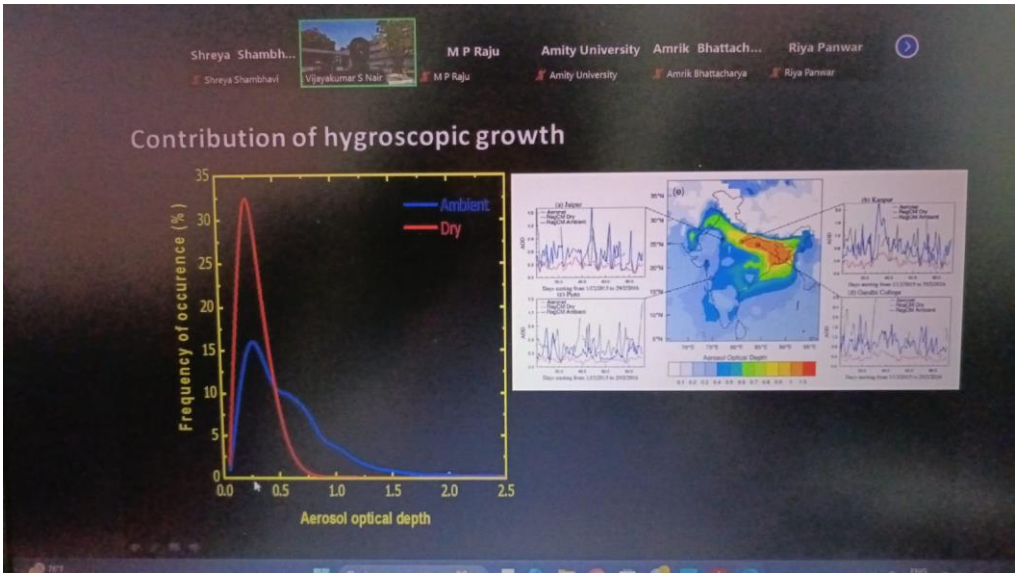
Topic: Hygroscopic nature of aerosols over Indo-Gangetic Plain, Northern India.

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**





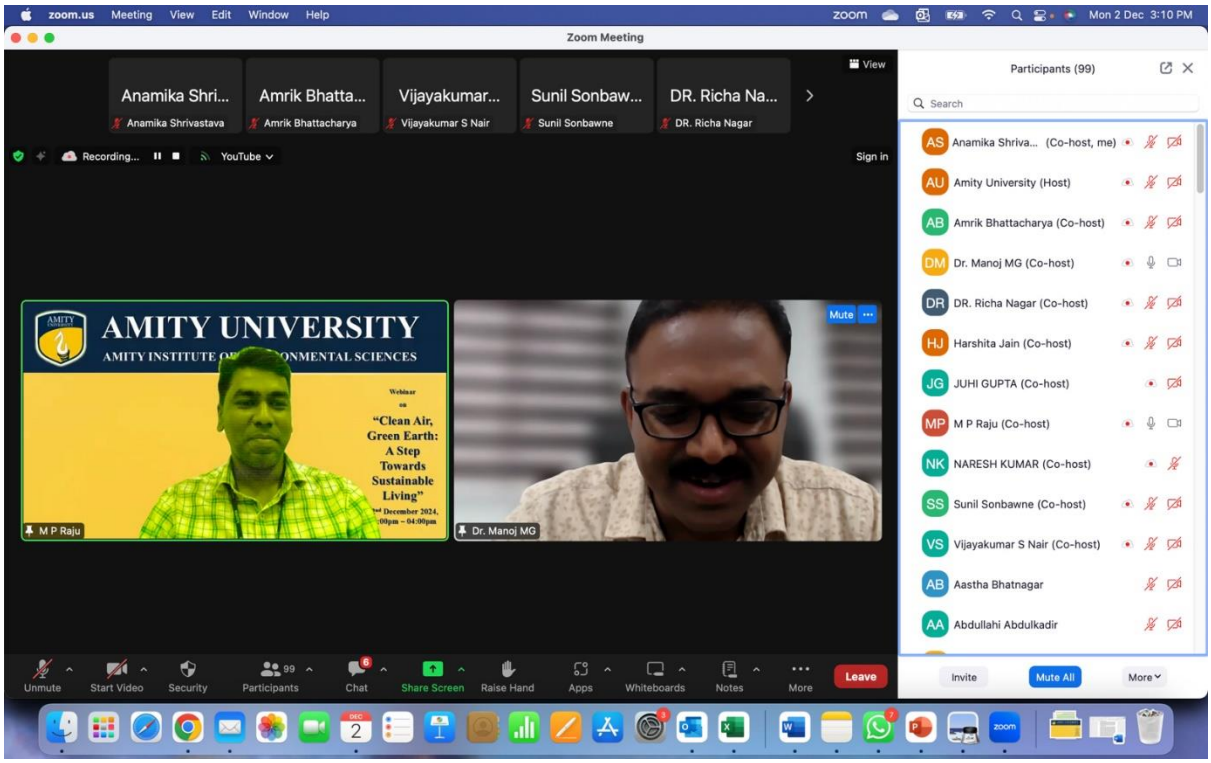
Speaker: Dr. M.G. Manoj, Cochin University of Science and Technology, Kerala

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.