INDIA CLEAN AIR SUMMIT (ICAS) 2025
Towards Clean Air for All: Modelling the Solutions to Pollution

Date: 20–22 August 2025

Hyatt Centric Hebbal Bengaluru

Agenda

Wednesday, 20 August 2025

Registration starts at 9:00 am		
9:30–9:35 am	Introductory remarks (scope of training)	
9:35–10:20 am	Introduction to air quality models, including policy-relevant air quality models (PRMs) By Dr Piyush Bhardwaj (Research Scientist, Air Quality, CSTEP)	Introduction to air quality observations (aerosol physical and chemical characterisation and instruments) By Ms Kavyashree Kalkura (Analyst, Air Quality, CSTEP) and Mr Umer Ali (Senior Analyst, Air Quality, CSTEP)
10:20–10:30 am I Tea break		
10:30 am–12:00 pm	Tutorial on 'Fundamentals of modelling: Aerosol physical processes and parameterisations' By Prof Spyros Pandis (Department of Chemical Engineering, University of Patras, Greece)	
12:00–1:30 pm	Tutorial on 'Fundamentals of atmospheric and aerosol chemistry' By Prof Faye McNeill (Vice Chair, Department of Chemical Engineering; Professor of Chemical Engineering and Earth and Environmental Sciences, Columbia University)	
1:30–2:30 pm I Lunch		

2:30–3:30 pm	Tutorial on InMAP RCM By Mr Lucas Rojas Mendoza (PhD Student, UC Berkeley)	Introduction to low-cost sensors and sensor evaluation By Dr Emil Varghese (Senior Analyst, Air Quality, CSTEP)	ACSM/AMS data analysis By Mr Philip Croteau / Mr Matson Pothier (Aerodyne)
3:30–4:00 pm I Networking / Tea break			
4:00–5:30 pm	Tutorial on REACH RCM and hands-on training on the CSTEP dashboard By Ms Sanjukta Ghosh (Senior Analyst, Air Quality, CSTEP)	Machine learning for sensor calibration and data analysis By Dr Nirav Lekinwala (Senior Associate, Air Quality, CSTEP) and Dr Nidhi Malik (Senior Associate, Air Quality, CSTEP)	• Data management for online source apportionment of organic aerosols (OA) measured by an aerosol chemical speciation monitor By Ms Hasna Chebiacheb (Research Engineer, INERIS - Institut national de l'environnement industriel et des risques) • Source apportionment with PMF/PET By Dr Manjula Canagaratna (Principal Scientist and Co-Director, Center for Aerosol and Cloud Chemistry, Aerodyne Research)
5:30–6:00 pm I Side meetings / Networking break			
6:00–7:30 pm	• Welcome address by Dr Jai Asundi (Executive Director, CSTEP) • Special address by Shri Harish Hande (Founder and CEO, SELCO Foundation) • Launch of CSTEP's reports on the mitigation of air pollution from heavy commercial vehicles (HCVs) and diesel generator (DG) sets • Showcasing CSTEP's new dashboard for Policy-Relevant Air Quality Modelling (PRM)		
7:30–10:00 pm I ICAS dinner			

Thursday, 21 August 2025

Registration starts at 9:00 am	
9:30–11:00 am	Plenary session: Welcome remarks by Dr Indu Murthy (Sector Head, Air Quality, CSTEP) Keynote addresses: • Prof Spyros Pandis (Department of Chemical Engineering, University of Patras) • Dr Virinder Sharma (Member - Technical, Commission for Air Quality Management in NCR and Adjoining Areas [CAQM]) – Remote • Dr Santosh Harish (Program Officer, South Asian Air Quality, Open Philanthropy)
11:00–11:15 am I Tea break	
11:15 am–1:15 pm	Invited talks: Advancing research for air quality management in India • Prof Faye McNeill (Columbia University) • Prof Chandra Venkataraman (Department of Chemical Engineering, IIT Bombay) • Dr Vikas Singh (Scientist-E, CAQM) • Dr Gaurav Govardhan (Scientist C, Indian Institute of Tropical Meteorology) • Dr Olivier Favez (INERIS, France) – Remote
1:15–2:30 pm I Poster presentations and lunch break	
2:30–3:30 pm	Panel discussion: Improving the state of air quality modelling in India [Current state of and advancements in emission inventories, advancements in ambient air quality observations, and emerging techniques to fill existing data gaps] Moderated by Dr Piyush Bhardwaj (CSTEP) Panellists: • Prof Gufran Beig (Chair Professor, National Institute of Advanced Studies (NIAS), Indian Institute of Science Campus) • Prof Srinidhi Balasubramanian (Assistant Professor, Climate and Air Quality Research Laboratory (CARES), IIT Bombay) • Prof Nipun Batra (Associate Professor, Computer Science & Engineering, IIT Gandhinagar) • Prof Harish Phuleria (Associate Professor, Air and Noise Exposure Research Group [ANERG], IIT Bombay)
3:30–4:20 pm	Invited talks on the PAVITRA project • Prof Joshua Apte (Associate Professor, Department of Civil and Environmental Engineering, UC Berkeley) • Dr Neeldip Barman (Project Research Scientist, IIT Bombay) • Mr Lucas Rojas Mendoza (UC Berkeley)
4:20–4:30 pm I Tea break	

4:30–6:00 pm	Invited talks: Scientific advances in air quality monitoring and impact assessment (Identifying the toxic components of $PM_{2.5}$ for air quality and health studies, oxidative potential of aerosols, and US-ASCENT network of $PM_{2.5}$ composition measurements: Key learnings) • Prof Sagnik Dey (Centre for Atmospheric Sciences, IIT Delhi) - Remote • Prof Neeraj Rastogi (Geosciences Division, Physical Research Laboratory, Ahmedabad) • Dr Poonam Mangaraj (Research Lead, Environmental Governance and Policy, Sustainable Futures Collaborative) • Prof Sally Ng (Georgia Institute of Technology, USA) - Remote
6:00–7:00 pm	Poster presentations and break
7:00–9:30 pm I Networking dinner	

Friday, 22 August 2025

Registration starts at 9:00 am	
9:30–10:00 am	Invited talk by Er Krunesh Garg (Former Member Secretary, Punjab Pollution Control Board)
10:00–10:30 am	Special Address by Guest of Honour Padma Shri Dr Shailesh Nayak (Director, NIAS)
10:30–10:45 am I Tea break	
10:45 am–12:00 pm	Invited talks and panel discussion: Modelling solutions to pollution—Coordinating air pollution mitigation efforts over India Moderated by Prof Srinidhi Balasubramanian (IIT Bombay) • Shri Ashish Tiwari IFS (Air Lead, International Centre for Integrated Mountain Development [ICIMOD], Kathmandu) • Prof Saumya Singh (Assistant Professor, Indian Institute of Forest Management)
12:00–1:15 pm	Invited talks: Air pollution sources and solutions • Cleaning brick manufacturing in India by Dr Sameer Maithel (Founder, Greentech Knowledge Solutions Pvt Ltd) • Accelerator for Clean Air Actions by Mr Sree Kumar Kumaraswamy (Program Director, Clean Air Action, Sustainable Cities & Transport, WRI India) • Cleaning up the Transportation Sector (Ms Swagata Dey, Policy Specialist, Air Quality Policy and Outreach, CSTEP)
1:15–2:15 pm I Lunch break	
2:15–2:25 pm	Sponsor sessions
2:25–2:45 pm	Distribution of certificates to student poster presenters

2:45–4:00 pm	Panel discussion: Solutions to mitigate household air pollution for health and climate co-benefits Moderated by Ms Swagata Dey (CSTEP) • Prof Chandra Venkataraman (IIT Bombay) • Dr Abhishek Kar (Senior Programme Lead, Council on Energy, Environment and Water) • Ms Neha Saigal (Director - Gender and Climate Change, Asar Social Impact Pvt Limited)
4:00–4:30 pm	Concluding remarks by Dr Indu Murthy (CSTEP) Vote of thanks by Dr Piyush Bhardwaj (CSTEP)
4:30–5:30 pm I Networking / High tea	