9TH INDIAN INTERNATIONAL CONFERENCE ON AIR QUALITY MANAGEMENT IICAQM 2024

MEASUREMENT, MODELLING, HEALTH RISK AND PUBLIC POLICY 18TH - 20TH DECEMBER 2024

Wednesday, 18th December 2024					
	Venue				
	T.T.J Auditorium, IC&SR,				
	Indian Institute of Technology Madras				
08:30 - 9:30	Registration 8	& Orientation			
	Inaugural address				
	Welcome address: Prof. Shiva Nagendra S M, IIT Madras				
	About conference: Prof. Uwe Schlink, Helmholtz Centre for Environmental Research - UFZ, Germany				
09:30-10:00	Inaugural address: Dr. Jayanthi M I.F.S., Chairperson, TNPCB				
	Address by Guest of Honour: Dr. E Theranirajan, Dean, Madras Medical College				
		Presidential address: Prof. V Kamakoti, Director, IIT Madras Closing remarks: Prof. Sotiris Vardoulakis, University of Canberra, Australia			
	akis, University of Canberra, Australia				
	Felicitation "Air Quality Management Lifetime Achievement Award"				
	About the award: Prof. Gufran Beig, NIAS, Bengaluru				
10:00-10:30	Introduction of awardee: Prof. Prashant Kumar, University of Surrey, UK				
10.00-10.30	Awardee acceptance speech: AQMLTA awardee 2023 - Shri. S K Gupta, Envirotech Instruments Pvt. Ltd.				
		4 - Prof. Virendra Sethi, IIT Bombay			
	Nagendra, IIT Madras				
10:30-11:00	Keynote Address 1: Challenges in protection and	Shri. S K Gupta,			
10.50-11.00	improvement of air quality management in India	Envirotech Instruments Pvt. Ltd.			
11:00-11:30	Keynote Address 2: Role of academia and research in	Prof. Virendra Sethi,			
11.00-11.50	Environmental Protection – Some thoughts	IIT Bombay			
11:30-11:45	Break				
	INVITED TALKS				
	Chair: Prof. Sotiris Vardoulakis (U Rapporteur: Dr. Asw				
	Invited Talk 1: Health effects of air pollution: Going beyond	Prof. Harish Phuleria,			
11:45-12:05	particle mass concentrations	IIT Bombay			
	Invited Talk 2: Monitoring temperature and humidity in UK	·			
12:05-12:25	theatres	Dr. Richard J Ball,			
	(Online)	University of Bath, UK			
	TECHNICAL SESSION I: Air qualit	y measurement and monitoring			
	Chair: Prof. Uwe Schlink (Helmholtz Centre f	or Environmental Research - UFZ, Germany)			
	Rapporteur: Ms. Lakshn	ni Pradeep (IIT Madras)			
12:25-12:40	Paper 1: Development of air quality monitoring web	Abhimanyu Kumar Gond,			
12.25-12.40	application using Google Earth engine	IIT (BHU) Varanasi			
	Paper 2: Mitigating humidity interference in PM2.5	Kruti Davda,			
12:40-12:55	measurement using heated inlet with laser scattering	Oizom Instruments Pvt. Ltd.			
	technology	Olzoni instruments i vt. Etu.			
12:55-13:10	Paper 3: A remote sensing approach to analyze impact of crop	Sayeed Anwar,			
	residue burning on urban air quality using fire characteristics	IIT Roorkee			
	and PM2.5 to CO ratio				
	Paper 4: Bench-scale study for control of dust resuspension	Umangi Mehta,			
13:10-13:25	from playgrounds and material stockpiles using dust	IIT Bombay			
40.05.44.00	suppressants	,			
13:25-14:30	Lunch Break				

	INVITED TALKS		
	Chair: Prof. Virendra Sethi (IIT Bombay) Rapporteur: Dr. M R EzhilKumar (IIT Madras)		
14:30-15:00	Keynote Address 3: We All Breathe the Same Air	Prof. Prashant Kumar, University of Surrey, UK	
15:00-15:30	Keynote Address 4: Recognizing environmental stressors with the help of wearables	Prof. Uwe Schlink, Helmholtz Centre for Environmental Research - UFZ, Germany	
15:30-15:50	Invited Talk 3: Dispersion Modeling Analyses of Air Emissions from Accidental Release of Hazardous Chemicals in Southern Louisiana	Prof. Kuruvilla John, University of North Texas, USA	
15:50-16:10	Invited Talk 4: Urban air pollution monitoring using drone mounted low-cost particulate matter sensor	Dr. Ajit Ahlawat, Delft University of Technology, Netherlands	
16:10-16:30	Break		
	TECHNICAL SESSION I conti.: Air quality measurement and monitoring Chair: Prof. Gufran Beig (National Institute of Advanced Studies, Bengaluru) Rapporteur: Mr. Shoumick Mitra (IIT Madras)		
16:30-16:45	Paper 5: Temperature and relative humidity driving ozone levels at Kharagpur, India	Samrat Santra, IIT Roorkee	
16:45-17:00	Paper 6: Annual variations in Air Quality parameters at Kalpakkam Site (East Coast of India)	M. Sowmya, Indira Gandhi Centre for Atomic Research	
17:00-17:15	Paper 7: Seasonal and diurnal variations of PM2.5 and ozone in Bangalore: Impact of meteorological factors on air quality	H N Sowmya, Dayananda Sagar College of Engineering	
17:15-17:30	Paper 8: Real-Time Dust Monitoring for Metro Construction with Low-Cost Sensors	Sailee Redekar, Sinhgad College of Engineering	
17:30-19:00	Poster Presentation Session: Elevator Pitch Exhibition Hall, ICSR Chairs: Dr. Kraichat Tantrakarnapa (Mahidol University, Thailand), Prof. Sotiris Vardoulakis (University of Canberra, Australia), Prof. Uwe Schlink (Helmholtz Centre for Environmental Research - UFZ, Germany), Prof. Prashant Kumar (University of Surrey, UK) & Prof. Harish Phuleria (IIT Bombay)		
19:30-21:00	Conference Dinner Venue: AC Dining Hall, ICSR		

	Thursday, 19th Decemb	per 2024		
	Venue			
T.T.J Auditorium, IC&SR,				
Indian Institute of Technology Madras				
	INVITED TALKS Chair: Prof. Prashant Kumar (University of Surrey, UK)			
	Rapporteur: Mr. Saket Ranjan (IIT Madras)			
09:00-09:30	Keynote Address 5: Quantitative assessment of emission source contributions to ambient air pollution (Online)	Prof. Nguyen Thi Kim Oanh, Asian Institute of Technology, Thailand		
09:30-10:00	Keynote Address 6: Estimating particulate emissions from roads	Prof. Akula Venkatram, University of California, Riverside, USA		
10:00-10:20	(Online) Invited Talk 5: Micro(nano)plastics particles in the air and its implications to human health	Prof. Thava Palanisami, The University of Newcastle, Australia		
10:20-10:40	Invited Talk 6: Air pollution and trace elements	Dr. Arul Veerappan,		
10:40-11:00	Invited Talk 7: Sensor network optimization, source mapping with inverse modelling and real-time air quality forecasting using advanced CFD based tools	NYU Langone Health, New York Mr. Sreejith K V, Fluidyn Consultancy Pvt. Ltd.		
11:00-11:15	Bre	eak		
	TECHNICAL SESSION II: Air quality modelling and machine learning approaches Chair: Dr. Kraichat Tantrakarnapa (Mahidol University)			
11:15-11:30	Rapporteur: Mr. Sar Paper 9: Chemical characterization and source apportionment	Himanshu Gupta ,		
11:30-11:45	of PM10: A case study of Silchar, Assam Paper 10: Forecasting PM2.5 levels using ARIMA: Insights	IIT Guwahati Aishi Nath,		
11.30-11.43	from temporal data analysis Paper 11: Influence of building configurations on airflow,	NIT Meghalaya		
11:45-12:00	dispersion and ventilation of traffic emissions in urban street canyons-A CFD approach	Namrata Mishra, IIT Kharagpur		
12:00-12:15	Paper 12: Deep learning based brick kiln detection using SENTINEL-2 imagery.	Avinash Mehta, IIT Roorkee		
12:15-12:30	Paper 13: Particulate Matter (PM2.5), Temperature, and Humidity Interactions: Comparing Multiple Linear Regression and Machine Learning Models in Urban Areas	Rochitra Keisham, Manipur University		
12:30-12:45	Paper 14: Machine learning imputation techniques for optimum air quality index predictions	Salvator Lawrence, VIT		
12:45-13:00	Paper 15: A comparative source apportionment studies at five cities of India and air pollution control technologies	Nidhi Verma, IIT Madras		
13:00-14:00	Lunch			
	INVITED TALKS Chair: Prof. Priya Rajagopalan (RMIT University, Australia) Rapporteur: Mr. Manjunath S P (IIT Madras)			
14:00-14:30	Keynote Address 7: Gaps and limitation in air quality management in India - Suggestive steps to be taken to improve air quality	Dr. B Sengupta, Ex-Member Secretary, CPCB		
14:30-15:00	Keynote Address 8: Air quality resource framework of India	Prof. Gufran Beig, NIAS, Bengaluru		
15:00-15:20	Invited Talk 8: International environmental governance and its influence on Air Quality Management in India	Dr. Ajay Deshpande, IIT Bombay		
15:20-15:40	Invited Talk 9: Aerosol bioparticles exposure and health risk assessment at landfill site in Nagpur	Dr. Krishnamurthi Kannan, CSIR-NEERI		
15:40-16:00	Bre	ak		
	Stakeholder Engagement Workshop Chairs: Dr. B. Sengupta (CPCB), Prof. Sotiris Vardoulakis (University of Canberra, Australia), Prof. Prashant Kumar (University of Surrey, UK), & Prof. Uwe Schlink (Helmholtz Centre for Environmental Research - UFZ, Germany) Moderators: Prof. Shiva Nagendra (IIT Madras) & Sree Kumar Kumaraswamy (WRI)			
16:00-16:20	Invited Talk 10: Air quality management perspectives from ACAAS program: Context setting presentation	Dr. Prakash Doraiswamy, World Resources Institute (WRI), India		
16:20-16:40	Invited Talk 11: Role of IIT Madras as Institute of Repute in National Clean Air Programme	Prof. Shiva Nagendra, IIT Madras		
16:40-17:00	Invited Talk 12: Experience and challenges in managing air quality in selected million plus cities	City representatives		
17:00-18:00	Panel discussion on 'Informing Policies with So	cience: How can Cities Prepare for NCAP 2.0?'		

Friday, 20th December 2024					
Venue					
T.T.J Auditorium, IC&SR,					
Indian Institute of Technology Madras					
Workshop on 'Indoor Air Quality'					
Chair: Prof. Prakash M Maiya (IIT Madras)					
Rapporteur: Ms. Chaithra S (IIT Madras)					
Keynote Address 9: Clean Energy for Healthy Environments Prof. 9	Sotiris Vardoulakis,				
109'00-09'301	of Canberra, Australia				
Keynote Address 10: Integrative approaches to combat air Dr. Krai	chat Tantrakarnapa,				
109'30-10'001	l University, Thailand				
Invited Talk 13: Ventilation retrofitting for improving indoor Prof	Priya Rajagopalan,				
1 10:00-10:701	Jniversity, Australia				
Dr	. Anant Mohan,				
10:20-10:40 Invited Talk 14: Adverse health effects of air pollution	AIIMS				
Invited Talk 15: Impact of daily Air Quality Index information	Do A Chitus				
10:40-11:00 and monitoring on air pollution awareness and respiratory	Dr. A Chitra,				
health: A randomized pilot study	as Medical College				
Invited Talk 16: Characteristics of particulate matter	Or. Chithra V S,				
11:00-11:15 resuspension due to human activities in indoor environments Centre for Water Resou	rces Development and Management				
Invited Talk 17: Particulate Matter (PM10) bound Dr. L	ekshmi V Mohan,				
11:15-11:30 Microplastics in urban area and its associated health risks	NIT Trichy				
11:30-11:45 Break					
TECHNICAL SESSION III: Air quality health impacts and policy i	nterventions				
Chair: Dr. Anant Mohan (AIIMS)					
Rapporteur: Debabrat Biswal (IIT Madras)					
Paper 16: Association of urinary metabolites of carcinogenic	Anuna Vaday				
111.45-17.001 nollutants with cognitive function among adult nonulation of 1	Anupa Yadav ,				
West Bengal, India: A cross-sectional study	or Ageing and Mental Health				
12:00-12:15 Paper 17: Solar Microgrids to Combat Household Air Pollution	Gopika Indu,				
in Rural India: A Case Study University	ersity of Canberra				
12:15-12:30 Paper 18: Health impact assessment of road traffic noise in La	kshmi Pradeep,				
two Indian cities	IIT Madras				
12:30-12:45 Paper 19: Factors affecting road dust and control measures: A	ourav Mishra,				
review IIT (Indian Sc	chool of Mines), Dhanbad				
12:45-13:00 Paper 20: Indoor air quality assessment and monitoring of	Shilpa B S,				
newly constructed classrooms in VVCE campus using IoT Vidyavardha	ka College of Engineering				
13:00-14:00 Lunch Break					
Air Quality Management Lecture # 51: An overview of Air	or. K V George,				
14:00-15:00 Quality Monitoring system and data analysis	NEERI				
Panel Discussion on 'Urban air quality management: Can artificial intelligence	Panel Discussion on 'Urban air quality management: Can artificial intelligence replace human intelligence? '				
	Prof. Sotiris Vardoulakis (University of Canberra, Australia), Prof. Prashant Kumar (University of Surrey, UK), Dr. Kraichat				
Tantrakarnapa (Mahidol University, Thailand), Prof. Uwe Schlink (Helmholtz Centre f	Tantrakarnapa (Mahidol University, Thailand), Prof. Uwe Schlink (Helmholtz Centre for Environmental Research - UFZ,				
Germany), Dr. B. Sengupta (CPCB), Dr. Arul Veerappan (NYU Langone Health, New Yo	Germany), Dr. B. Sengupta (CPCB), Dr. Arul Veerappan (NYU Langone Health, New York), Prof. Priya Rajagopalan (RMIT				
University, Australia) & Dr. Anant Mohan, AIIMS					
Moderator: Prof. Shiva Nagendra	Moderator: Prof. Shiva Nagendra				
Closing ceremony					
Valedictory function	Valedictory function				
Taleston, Taleston					
16:00-17:00 &					
· · · · · · · · · · · · · · · · · · ·					