

AAC 2024 SCIENTIFIC PROGRAMME PARALLEL SESSION

4TH NOVEMBER 2024 - Session 1

Aerosol and Air Pollution in South Eastern Asia Countries-I Chair: Professor Anil Namdeo, Dr. Ernie Syazween Junaidi

Time	Paper ID	Presenter & Title
15:00	AAC24-259	Nandhakumar S K, Anna University, Chennai Effect of Climate Forcing Parameters on Coastal Regions Due to Maritime Aerosols
15:15	AAC24-44	Yu-Cheng Chen, National Health Research Institutes Using cluster algorithms with a machine learning technique and PMF models to quantify local PM2.5 and metals in Taiwan
15:30	AAC24-46	Shih-Yu Pan, National Yang Ming Chiao Tung University The Ecological, Inhalation Cancer Risk Assessment and Source- attributed Profile of Hazardous Air Pollutants (HAPs) in Different Asian Cities
15:45	AAC24-58	Anil Namdeo, Northumbria University Ambient particulate matter levels in Tuktoyaktuk hamlet in the Canadian Arctic
16:00	AAC24-109	Leung Chin Wai, Hong Kong Baptist University Chemical characterization and source apportionment of watersoluble organic nitrogen (WSON) in PM2.5 in Hong Kong
16:15	AAC24-168	Po-Yen Chien, National Sun Yat-Sen University Chemical Characterization and Sources of Dry and Wet Deposition and Hazardous Air Pollutants in a Large Industrial Zone in Southern Taiwan.
16:30	AAC24-184	Sarvan Kumar, Veer Bahadur Singh Purvanchal University,India Variability of the optical and radiative characteristics of aerosols over the Indo-Gangetic Plain: A case study of Kanpur

4TH NOVEMBER 2024 - Session 1

Aerosol Chemistry-I Chair: Dr. Nurul Ashraf Razali, Dr. Noor Aniza Binti Ibrahim

Time	Paper ID	Presenter & Title
15:00	AAC24-34	Yongjie Li, University of Macau
		Co-photolysis of mixed chromophores affects atmospheric lifetimes of brown carbon
15:15	AAC24-54	Fang-Chen, Chang, National Taiwan University
		Seasonal and diurnal variations in the optical properties of water- soluble and methanol-soluble brown carbon and analysis of water- soluble organic molecular composition in central Taiwan
15:30	AAC24-68	Yu-Hsiang Cheng, Ming Chi University of Technology
		Diurnal Variation Characteristics of PM2.5-bound Polycyclic Aromatic Hydrocarbons and their Potential Sources in Northern Taiwan
15:45	AAC24-98	Wenshuai Li, Ocean University of China
		Daytime and nighttime aerosol soluble iron formation in a coastal city in eastern China
16:00	AAC24-129	Younghyun Lee, Inha University
		Investigation of Changes in the Physicochemical Characteristics of Black Carbon Particles Using an Oxidation Flow Reactor
16:15	AAC24-132	Dongwoo Kim, Inha University
		Evaluating the Influence of Black Carbon Inclusion on the Mixing State of Atmospheric Aerosols Based on In-Situ Raman Spectroscopy
16:30	AAC24-391	Debayan Mandal, IIT Bombay Chemistry of water-soluble organic matter in different indoor locations inside an academic campus
16:45	AAC24-401	Justin Sentian, Universiti Malaysia Sabah
		Recent Spatial and Temporal Analysis of Aerosol Optical Depth Analysis over Malaysian Borneo

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Aerosol Exposure and Health Effects-I Chair: Dr. Noor Haziqah Kamaludin, Ainur Balqis Binti Radzi

Time	Paper ID	Presenter & Title
15:00	AAC24-43	Shih-Chun Candice Lung, Academia Sinica
		Assessing peak PM2.5 and PM1 levels and health impacts with research-grade low-cost sensors in two Asian countries
15:15	AAC24-55	Qianying Liu, University of Macau
		A Comprehensive Characterization of Empirical Parameterizations for OH Exposure in the Aerodyne Potential Aerosol Mass (PAM) Oxidative Flow Reactor (OFR)
15:30	AAC24-81	Chueh Jung Hou, Kaohsiung Medical University
		Effects of indoor air purifying technology intervention on urinary heavy metals and health in asthmatic patients in an industrial area
15:45	AAC24-89	Tan Ke Ning, Kaohsiung Medical University
		The Effects of Air Purifier Intervention on Cytokines in Blood of Asthma Patients in Industrial Area
16:00	AAC24-92	Man-Yan Cheng, Kaohsiung Medical University
		Evaluation of air purifiers on bioaerosols in households and health effects among asthmatic patients in an industrial area
16:15	AAC24-105	Wahyu Diah Proborini, National Health Research Institute
		Assessment of Associated Metal Contents on Airborne Microplastics
16:30	AAC24-164	Doni Hikmat Ramdhan, Universitas Indonesia
		Size distribution of particulate matter and its health effects among adults during the forest fire in South Sumatra, Indonesia
16:45	AAC24-405	Shoya Manabe, Keio University
		Development of methods for measuring endotoxins in atmospheric particles and estimation of their origins

4TH NOVEMBER 2024 - Session 1

Urban Aerosol and Air Quality-I Chair: Assosciate Professor Norhayati Mahyuddin, Dr. Norfazrin Mohd Hanif

	Hanif		
Time	Paper ID	Presenter & Title	
15:00	AAC24-108	Po-Kai Chang, National Taiwan Univeristy	
		Spatial and Temporal Variation of Traffic-Related PM in an Urban Area: Implications for Public Health	
15:15	AAC24-113	Lu Qi, University of Helsinki	
		Effect of secondary organic aerosol formation pathways on health effects	
15:30	AAC24-154	Thi-Thuy-Nghiem Nguyen, National Yang Ming Chiao Tung University	
		Big data analysis and machine learning of O3 Pollution in Taiwan	
15:45	AAC24-174	Atul Kumar Srivastava, Indian Institute of Tropical Meteorology	
		Source apportionment and absorption characteristics of aerosols at Delhi, an urban megacity over the western Indo-Gangetic Plain	
16:00	AAC24-188	Khan Alam, University of Peshawar, Pakistan	
		Anthropogenic Emissions of Aerosol over an Urban Environment of Peshawar: Air Quality and Climatic Implications	
16:15	AAC24-202	Moustapha Kebe, Cheikh Anta DIOP University	
		Source Apportionment and Assessment of Air Quality Index of PM2.5–10 and PM2.5 in at Two Different Sites in Urban Background Area in Senegal	

4TH NOVEMBER 2024 - Session 1

	Indoor Air - I		
	Chair: Professor Ying I. Tsai, Sudarmaji		
Time	Paper ID	Presenter & Title	
15:00	AAC24-26	Muhamad Shahril Bin Mohd Abdullah, Universiti Tun Hussein Onn Malaysia	
		The Effect of Periodic Preventive Maintenance on HVAC System to The Level of Indoor Air Quality Parameters in One of Public Hospital in Malaysia	
15:15	AAC24-220	Nur Shahidah Bt Mohd Nazri, UITM Puncak Alam	
		Sustainability Program: Indoor Air Quality (IAQ) Assessment Inside a Selected Department at a Healthcare Facility in Kuala Lumpur, Malaysia	
15:30	AAC24-97	Nur Faseeha Suhaimi, Universiti Putra Malaysia	
		Exploring the Link between Indoor Air Quality and Sick Building Syndrome Symptoms among Students in Malaysian University Classrooms	
15:45	AAC24-110	Corie Indria Prasasti, Public Health Faculty, Universitas Airlangga	
		Analysis of Indoor Air Quality on Children's Allergic Rhinitis Symptoms in Surabaya City	
16:00	AAC24-114	Jonathan Symonds, Cambustion	
		Studying droplet dispersion with aerosol flame photometry	
16:15	AAC24-118	Jun Wang, University of Cincinnati	
		Aerosol Emissions from Desktop Laser Cutting and Engraving of Various Common Materials	
16:30	AAC24-124	Thaseem Thajudeen, Indian Institute of Technology Goa	
		Understanding the spatial and temporal variation of cooking-emitted particles in distinct zones	
16:45	AAC24-78	Sasho Gligorovski, Chinese Academy of Sciences	
		Chemical characterization of aerosol particles produced by ozone reactions with floor cleaning detergent	

5TH NOVEMBER 2024 - Session 2

Aerosol and Air Pollution in South Eastern Asia Countries-II Chair: Professor Ahmad Kamruzzaman Majumder, Bian Shabri Putri Irwanto

Irwanto			
Time	Paper ID	Presenter & Title	
10:30	AAC24-196	Amgalan Natsagdorj, National University of Mongolia	
10.30	AAC24-196	Chemical composition of PM2.5 and New Particle Formation in	
		Ulaanbaatar, Mongolia	
10:45	AAC24-21	Ahmad Kamruzzaman Majumder, Stamford University Bangladesh	
		Monsoon Season Spatial Distribution of Particulates Concentration	
		in the Road Intersection Area of Different Land Use in Major City in South Asian Countries	
		Saifi Izhar, IIT ISM Dhanbad	
11:00	AAC24-285		
		Effect of emission sources and size on carbonaceous aerosol optical	
		and isotopic characteristics	
11:15	AAC24-309	Harshita Baranwal, Banaras Hindu University	
		Contrasting nature of absorbing aerosols over Indo-Gangetic Plain	
11:30	AAC24-359	Nur Syafiqah Binti Abd Hakim, Universiti Teknologi MARA (UiTM)	
		Air Pollution as a Factor Influencing Epiphytic Lichen and Algal	
		Biodiversity in Selected Urban and Suburban Environments in	
		Malaysia	
11:45	AAC24-368	Neha Shukla, Isabella Thoburn College, Lucknow University	
		Explore the impact of PM _{2.5} on pre-teen schoolchildren in	
		"Manchester of the East," Kanpur, India	
12:00	AAC24-372	Prerna Thapliyal, Indian Institute of Technology Kanpur, India	
		Land use land cover, Population distribution, and Geographic &	
		Seasonal variations influencing Carbonaceous aerosol	
		concentrations in the South-Asian region	
12:15	AAC24-348	Nur Syafiqah Binti Abd Hakim, Universiti Teknologi MARA (UiTM)	
		Air Pollution as a Factor Influencing Epiphytic Lichen and Algal Biodiversity in Selected Urban and Suburban Environments in Malaysia	

Aerosol Chemistry-II Chair: Professor How-Ran Chao, Dr. Wan Nurdiyana Wan Mansor

Time	Paper ID	Presenter & Title
10:30	AAC24-237	Shi-Ya Tang, China Medical University
		Chemical Mass Closure of Hourly PM2.5 and Visibility Impairment at Two Sites in Southern Taiwan
10:45	AAC24-243	Olga B Popovicheva, Moscow State University
		Seasonal and source-dependent biomass burning impact on the northernmost European megacity: from winter to summer
11:00	AAC24-251	Masao Gen, Chuo University
		Rapid hydrolysis of NO2 at High Ionic Strengths of Deliquesced Aerosol Particles
11:15	AAC24-255	Yu-Lun Tseng, National Sun Yat-Sen University, Taiwan
		Spatiotemporal Variation and Chemical Fingerprint of PM2.5 at Kaohsiung Coastal and Offshore Island Sites in Southern Taiwan
11:30	AAC24-269	Harish Phuleria, Indian Institute of Technology Bombay
		Polycyclic aromatic hydrocarbons from vehicles: Characteristics and associations with the browning of atmospheric organic carbon
11:45	AAC24-277	Shahzada Amani Room, National Yang Ming Chiao Tung University
		Chemical Composition and Oxidative Potential of Different Sized Particles in Various Regions of Taiwan
12:00	AAC24-279	Yanlin Zhang, Nanjing University of Information Science and Technology
		Important Contributions of Natural Gas to Atmospheric Nitrate Aerosols in China
12:15	AAC24-281	Olga B Popovicheva, Moscow State University
		Black carbon in the Siberian and Central Arctic

5TH NOVEMBER 2024 - Session 2

Bioaerosol-I Chair: Professor Jonathan Reid, Dr. Norfazrin Mohd Hanif

Time	Paper ID	Presenter & Title
10:30	AAC24-30	Milad Massoudifarid, Yonsei University
		Continuous flow aerosol-to-hydrosol electrostatic sampling with real-time microfluidic nucleic acid extraction for automated bioaerosol detection
10:45	AAC24-60	Jonathan Reid, University of Bristol
		Respiratory Aerosol Emission Rates and Relationship to Exhaled Carbon Dioxide Flux for Assessing Pathogen Transmission Risk in Indoor Air
11:00	AAC24-61	Jonathan Reid, University of Bristol
		The Microphysics of Surrogate Exhaled Aerosols and the Impact on the Airborne Survival of Viruses
11:15	AAC24-70	Wenwen Xie, Prefectural University of Kumamoto
		Comparison of bioaerosols concentration from Chinese coast to northwestern Pacific
11:30	AAC24-85	Sanggwon An, Yonsei University
		Rapid monitoring of indoor airborne virus with high air flowrate electrostatic sampling and PCR analysis
11:45	AAC24-87	Teruya Maki, Kindai University
		Fluorescent sensors and DNA metagenomes targeting the urban bioaerosols changed suddenly during Asian-dust season
12:00	AAC24-141	Doheon Kim, Yonsei University
		Deep Learning Integrated Soft Sensor Technology for Real-Time Monitoring of Culturable Indoor Bioaerosols
12:15	AAC24-145	Jaeho Oh, Yonsei University
		Prediction of bioaerosol number concentration from electrical currents of thermal-lyzed bioaerosol

5TH NOVEMBER 2024 - Session 2

Aerosol Exposure and Health Effects-II Chair: Professor Zailina Binti Hashim, Dr. Nur Azalina Suzianti Feisal

Time	Paper ID	Presenter & Title
10:30	AAC24-115	Ralf Zimmermann, University of Rostock
		Photochemical aging of emissions from EURO6 gasoline cars or from wood combustion increases the observed adverse effects in Air Liquid Interface-exposed human lung cell models
10:45	AAC24-148	Rajasekhar Balasubramanian, National University of Singapore
		Investigation of Cyclists' Exposure to Black Carbon in Ambient Air
11:00	AAC24-189	Oluwagbayide Samuel Dare, Federal Polytechnic Ilaro Ogun State Nigeria
		Impact of Indoor Air Quality on Residents Health in Ilaro, Ogun State Nigeria
11:15	AAC24-215	Najihah Zainol Abidin, Management & Science University (MSU), Shah Alam
		Aerosol Emissions from Electronic Cigarettes: Health Risk Assessment of Aldehydes and Heavy Metals
11:30	AAC24-266	Shreya Dubey, Indian Institute of Technology Bombay
		Toxicity of Fine Particles of Traffic Origin: Effect of Different Driving Conditions and Fleet Characteristics
11:45	AAC24-392	Lim Fang Lee, Universiti Tunku Abdul Rahman
		Health Risk Assessment of Heavy Metals in Household Dust: Associations with Daily Activities among Residents in Kampar, Malaysia
12:00	AAC24-398	Yuka Uchida, Kanazawa Kasuga Clinic
		Research on Safe Nebulizer Inhalation Therapy Using Clean Booth - Clinical Research -

5TH NOVEMBER 2024 - Session 2

Indoor Air - II Chair: Professor Ying I. Tsai, Dr. Noor Aniza Binti Ibrahim

Time	Paper ID	Presenter & Title
10:30	AAC24-151	Muhammad Aiman bin Mohd Nor, Shibaura Institute of Technology
		Reconstructing three-dimensional flow from two-dimensional velocities using the predictor-corrector method
10:45	AAC24-161	Imran Shahid, Qatar University
		Exploring the Variability and Health Impacts of Air Pollutants in Indoor Microenvironments
11:00	AAC24-172	Muhamad Shahril Mohd Abdullah, Universiti Tun Hussein Onn Malaysia
		Airborne Hazards: A Comprehensive Review of Aerosol Contaminants in Hospital Environments and Their Impact on Health
11:15	AAC24-179	Ying I. Tsai, Chia Nan University of Pharmacy and Science
		Aerosol Size Distribution and Chemical Characterization Associated with Persistent Free Radicals from Incense Burning in Taiwan and Thailand
11:30	AAC24-149	Rajasekhar Balasubramanian, National University of Singapore
		Personal Exposure to Airborne Particulate Matter While Cooking: Evaluation and Mitigation Strategies
11:45	AAC24-248	Sudarmaji, Faculty of Public Health, Universitas Airlangga
		Analysis of Risk Factors in The Physical Environment and Air in The House with Cases of Pneumonia in Children
12:00	AAC24-410	Norhayati Binti Mahyuddin, Universiti Malaya
		Optimizing External Flow Domain Dimensions in CFD Simulations for Enhanced Natural Ventilation and Pollutant Control in Hospital Buildings

5TH NOVEMBER 2024 - Session 3

	Nanoparticles and Nanotechnology-I Chair: Professor Tawatchai Charinpanitkul, Shinta Arta Mulia		
Time	Paper ID	Presenter & Title	
15:00	AAC24-28	Hee Dong Jang, Korea Institute of Geoscience & Mineral Resources	
		Facile Fabrication of Silicon-Carbon Composites for Potential Energy Storage Materials	
15:15	AAC24-39	Nur Syakirah Nabilah Saipul Bahri, Hiroshima University	
		Synthesizing magnetic cellulose nanofiber using spray drying approach	
15:30	AAC24-67	Seungwooklee, Pusan National University	
		Capability of Single dropwise impaction for removing nanoparticle contaminants from Si wafer	
15:45	AAC24-79	Jicheng Feng, ShanghaiTech University	
		3D nanoprinting of dynamic colors	
16:00	AAC24-104	Tawatchai Charinpanitkul, Chulalongkorn University	
		Facile Production of MWCNTs from a mixture of Methane and Ethane using NiMo/MgO Catalyst	
16:15	AAC24-116	Masaru Kubo, Hiroshima University	
		Spray-Synthesis of Hierarchical Porous HKUST-1 using Soft-template	
16:30	AAC24-290	Annisa Fillaeli, Chung Yuan Christian University	
		C-doped BiOBr Nanoparticle in Tuning High Efficiency Photocatalytic NO to NO3- Conversion	
16:45	AAC24-354	Muhammad Firdaus Bin Abdul Halim, Universiti Putra Malaysia	
		Performance of Nanocellulose Fibre Reinforced Starch Biopolymer Composites	

5TH NOVEMBER 2024 - Session 3

Urban Aerosol and Air Quality-II Chair: Dr Zulfa Hanan Ashari, Dr. Corie Indria Prasasti

Time	Paper ID	Presenter & Title
15:00	AAC24-244	Wen-Chi Huang, National Central University
		Weather regimes and atmospheric stability associated with high PM2.5 days in Douliu city, Taiwan
15:15	AAC24-256	Yueh-Chen Wang, National Central University
		Evaluation of the atmospheric boundary layer structure effect on air quality using the micro-pulse lidar
15:30	AAC24-340	Anjanay Pandey, Indian Institute of Technology Delhi
		PM2.5 bound chemical characterization and source apportionment analysis during stubble burning period in Punjab: Implications for Delhi's air quality
15:45	AAC24-353	Jost Valentin Lavric, Acoem
		Enhancing urban air quality monitoring with low footprint smart stations: an example from Bangkok, Thailand
16:00	AAC24-366	Ram Pravesh Kumar, Jawaharlal Nehru University, India
		Air Quality Assessment in Eastern India: A Study on Aerosols and Gaseous Pollutants Using MODIS, Sentinel-5P and In-situ Data
16:15	AAC24-306	Anwar Khan, Delhi Pollution Control Committee, University of Minnesota
		A Real-time PM10 and PM2.5 Monitoring System for Construction and Demolition Sites to improve Air Quality in New Delhi
16:30	AAC24-275	Arpan Patra, Council on Energy Environment and Water
		Are We Safe Inside Our Cars? Understanding the Toxicity of In-cabin Particulate Matter

5TH NOVEMBER 2024 - Session 3

	Aerosol Instrumentation-I Chair: Dr. Khairul Nizam Md Isa, Fahimah Hashim		
Time	Paper ID	Presenter & Title	
15:00	AAC24-65	Ralf Zimmermann, University of Rostock	
		Wildfire Aerosols and Ship Emissions: Field-Deployable Single Particle Mass Spectrometer for Detection of Toxicants and Climate- Relevant Compounds	
15:15	AAC24-101	Yik-Sze Lau, Queensland University of Technology	
		The Coupling of a High-efficiency Aerosol Collector with Electrospray Ionisation Orbitrap Mass Spectrometry for the Real-time Chemical Characterisation of Fine and Ultrafine Particles	
15:30	AAC24-112	Perapong Tekasakul, Prince of Songkla University	
		Quartz Crystal Microbalance Frequency Response to Deposition of Nanoaerosols	
15:45	AAC24-146	Jaeho Oh, Yonsei University	
		Determination of effective density of PM1 size distribution via pre- measured SMPS data	
16:00	AAC24-213	Oliver F. Bischof, TSI GmbH	
		Harmonized Monitoring of Ultrafine Particles in Ambient Air in Europe: Achievements and Proven Solutions	
16:15	AAC24-229	Jonathan Symonds, Cambustion	
		Improving the accuracy of particle penetration measurements through high efficiency air filter media using an Aerodynamic Aerosol Classifier	
16:30	AAC24-276	Mehrzad Roudini, Leibniz Institute for Solid State and Materials Research Dresden	
		Developments for SAW-based aerosol generation: Miniaturized, cost-efficient, mass-producible and reproducible systems	
16:45	AAC24-278	Yusuke Fujii, Osaka Metropolitan University	
		Development of a Gaseous Ammonia Sampling System using Counter-Current Flow Tube	

5TH NOVEMBER 2024 - Session 3

Airborne Microplastics-I Chair: Professor Hiroshi Okochi Dr. Norhidayah Binti Abdull

Time	Paper ID	Presenter & Title
15:00	AAC24-120	Jun Wang, University of Cincinnati
		Airborne Plastic Emission Dynamics During High Speed FDM 3D Printing
15:15	AAC24-176	Hiroshi Okochi, Waseda University
		Occurrence, behavior, fate, and health impact of airborne microplastics (13): Current status of AMPs research in Japan
15:30	AAC24-180	Ainur Balqis Binti Radzi, University Malaysia Pahang Al-Sultan Abdullah
		Occurrence, Physical Characteristics, and Driving Factors of Indoor Airborne Microplastics in Daycare Centers
15:45	AAC24-233	Norhidayah Binti Abdull, University Malaysia Pahang Al-Sultan Abdullah
		A Review of Characterization, Driving Factors, and Health Risk of Indoor Microplastics
16:00	AAC24-239	Wang Yize, Waseda University
		Occurrence, behavior, fate, and health impact of airborne microplastics (24): airborne microplastics in cloud water
16:15	AAC24-273	Rain Martin Valencia, Adamson University
		Characterization of Settled Atmospheric Microplastics Inside a University in Manila, Philippines
16:30	AAC24-332	Zarifah Binti Shahri, University Malaysia Pahang Al-Sultan Abdullah
		A Comprehensive Bibliometric Analysis of Airborne Microplastics: Indoor and Outdoor Environment in Industrial Area
16:45	AAC24-295	Noor Haziqah Kamaludin, Universiti Teknologi MARA, Puncak Alam
		Multiple Principal Component Analysis (M-PCA) of Microfiber Exposure on Lung Impairment among Textiles Workers in Selangor

5TH NOVEMBER 2024 - Session 3

VOC and Secondary Precursors Chair: Dr. Noor Haziqah Kamaluddin, Dr. Nur Azalina Suzianti Feisal

Time	Paper ID	Presenter & Title
15:00	AAC24-42	Abdul Rohim Tualeka, Faculty of Public Health, Universitas Airlangga
		Relation Concentration and Risk Characterization of Toluene to Malondialdehyde, Cholesterol and Diabetes in Five Industries in Surabaya
15:15	AAC24-53	Kin Fai Ho, The Chinese University of Hong Kong
		Quantification and Identification of VOC Emissions from Common Volatile Chemical Products
15:30	AAC24-77	Sasho Gligorovski, Chinese Academy of Sciences
		Enhanced production of oxygenated volatile organic compounds through interfacial chemistry of SO2 with sea surface microlayer
15:45	AAC24-204	Wu, Hsiang-Ying, National Sun Yat-sen University
		Investigation of the characteristics of volatile organic compounds and ozone formation potential in the atmosphere of urban areas
16:00	AAC24-209	Huang Cenyan, Zhejiang Wanli University
		VOCs emission characteristics and their health impacts of furniture manufacturing: A case study in central China
16:15	AAC24-288	Tsai-Jung Yen, National Sun Yat-Sen University
		Exploring the Causes and Trends of PM2.5 and O3 in High Pollution Potential Areas: A Case Study of Pingtung, Linyuan, and Chaozhou
16:30	AAC24-298	Meera Harara, Environment Agency - Abu Dhabi
		Initial Results from Regional Photochemical Modelling with CMAQ in the Abu Dhabi Emirate

6TH NOVEMBER 2024 - Session 4

Filter and Control Technology			
	Chair: Assoc. Professor Sheng-Lun Lin, Dr. Nurul Ashraf Razali		
Time	Paper ID	Presenter & Title	
10:30	AAC24-75	Sheng-Lun Lin, National Cheng Kung University	
		Ultralow Net PCDD/F Discharge by Ash-Sludge Reintroduction into a Novel GASMILD Treatment for Hazardous Waste Treatment	
10:45	AAC24-99	Thi-Cuc Le, National Yang Ming Chiao Tung University	
		Development of composite filtration systems for controlling secondary particle emission from vacuum street sweepers	
11:00	AAC24-102	Ralf Zimmermann, University of Rostock	
		Real-Time Detection of Hazardous Dusts from Narcotics and Explosives using Single-Particle Mass Spectrometry	
11:15	AAC24-119	Jun Wang, University of Cincinnati	
		Monitoring of Protection Factor for Aerosols Filtering Respirators Using Optical Particle Sensors	
11:30	AAC24-152	Rachmi Layina Chimayati, Chung Yuan Christian University	
		Assessing the Impact of SCR and DPF Technology on VOCs and PAHs Emissions in LDV	
11:45	AAC24-287	Yu Song, Donghua University	
		Realizing high-fidelity dust loading simulation of nonwoven filter media with advanced particle technology	
12:00	AAC24-375	Asad Abbas, IIT Delhi	
		Magnetically Tuned Graphene Oxide Nanocomposites for advanced Filteration Technology	
12:15	AAC24-297	Cindy Patricia Yosika, Universitas Indonesia	
		Effectiveness Filtering of PM2.5 With HEPA Filter and N95 Mask Filter on Fan in Motor Vehicle Testing	

6TH NOVEMBER 2024 - Session 4

Climate Change, Air Modeling, Meteorology/Bioaerosol-II Chair: Professor Charles Lo, Dr. Siti Khairunnisa Binti Yusof

Time	Paper ID	Presenter & Title
10:30	AAC24-294	Charles Lo, University of Minnesota
		Carbon Capture's Role in Net Zero Emissions
10:45	AAC24-264	Piyush Kumar Ojha, Jawaharlal Nehru University
		Evaluation of ERA5 datasets on atmospheric convection with Radiosonde observation over east coast of India.
11:00	AAC24-373	Selahattin Incecik, Istanbul Technical University
		Short term forecasting of ozone levels in rural areas of the Biga Peninsula using a photochemical model
11:15	AAC24-380	Dinesh Kumar Yadav, Banaras Hindu University, Varanasi
		Salinity Variability in the Indian Ocean and Its Impact on Indian Summer Monsoon Onset.
11:30	AAC24-232	Yu Jinyan, The Hong Kong Polytechnic University
		Less is more: Contribution of endotoxin to PM2.5 bioactivities far exceeds its negligible mass share
11:45	AAC24-247	Siti Khairunnisa Binti Yusof, Universiti Malaysia Pahang Al-Sultan Abdullah
		Concentration and Transport Mechanism of Fungal Aerosol in Indoor Daycare Centers
12:00	AAC24-286	Jiahui Ma, School of Energy and Power Engineering, Beihang University
		Insights into the impacts of haze and sandstorms on bacterial community structure and pathogenicity
12:15	AAC24-293	Charles Lo, University of Minnesota
		Aerosol Geoengineerig for Mitigation of Global Warming

6TH NOVEMBER 2024 - Session 4

Low cost Sensor and Sensor Network/Emission Inventory Chair: Dr. Wan Nurdiyana Wan Mansor, Fahimah Hashim

Time	Paper ID	Presenter & Title
10:30	AAC24-222	Jui-Hsin Hsu, National Central University
		Synergy of satellite, air quality station and low-cost sensor to study PM2.5 and O3 variations during the 2024 KPEx / 7-SEAS campaign
10:45	AAC24-371	Vaishali Jain, Indian Institute of Technology, Kanpur, India
		Fine-Gridded PM2.5 Prediction with Low-Cost Sensor Network and Machine Learning Techniques
11:00	AAC24-403	Wan Nurdiyana Wan Mansor, Universiti Malaysia Terengganu
		Engine Performance and Combustion of Biodiesel Produced from Local Used Frying Oil Using Potassium Hydroxide (Koh) As A Catalyst in A Single Cylinder Diesel Engine
11:15	AAC24-388	Henrik Hof, Palas GmbH
		Study of Aerosol size distribution - comparison of vulcanic ashes and Sahara dust and its spatial variety on La Palma island
11:30	AAC24-169	Po-Yen Chien, National Sun Yat-Sen University
		Study on Emission Characteristics of Static Emissions from Large Vessels
11:45	AAC24-171	Jason Blake Cohen, China University of Mining and Technology
		Emissions of BC Estimated using Multiple Remotely Sensed and Surface Observations in Tandem
12:00	AAC24-282	Poong-Mo Park, INHA University
		Integrating Filterable and Condensable Particulate Matter in Measurement and Analysis
12:15	AAC24-331	I-Hsuan, Wu, National Sun Yat-sen University
		Emission Characteristics of Fuels with Different Sulfur Contents

6TH NOVEMBER 2024 - Session 4

Indoor Air-III/Local Biomass Burning Chair: Dr. Norfazrin Mohd Hanif, Dr. Noor Fatihah Mohamad Afandi

Time	Paper ID	Presenter & Title
10:30	AAC24 -250	Retno Adriyani, Faculty of Public Health Universitas Airlangga Indoor Air Quality Assessment of Daycare Centers in Surabaya, Indonesia
10:45	AAC24 -253	Chengxi Yao, Sungkyunkwan University Numerical Study on Optimization of Hazardous Gas Distribution in Cleanroom during Preventive Maintenance of Semiconductor Process Equipment
11:00	AAC24 -345	Xin Duan, Universiti Malaya The Impact of Indoor Plants on Classroom Air Quality and Student Health
11:15	AAC24 -387	Yu-Ting Chang, National Pingtung University of Science and Technology The effects of PM2.5 and high-glucose exposure on the toxicity in A549 lung cancer cells
11:30	AAC24 -106	Balint Alfoldy, Aerosol Magee Scientific Optical Properties of Wood Combustion Emitted Particles Determined by the New, 9? Aethalometer
11:45	AAC24 -317	Wangyanyan, Saitama University Effects of PAHs by Biomass Combustion on Soil
12:00	AAC24 -378	Shangrong Wu, Saitama University Combustion emission of waste biomass pellet from spend coffee grounds

6TH NOVEMBER 2024 - Session 4

Aerosol-climate Meteorology/Remote Sensing/ Airborne Microplastics-II

Chair: Professor Gs Ts Dr. Arnis Asmat, Azmir Md Dom

Time	Paper ID	Presenter & Title
10:30	AAC24-203	Steven Soon-Kai Kong, National Central University
		Modeling East Asian dust storm episode associated with a typhoon in Western Pacific.
10:45	AAC24-377	Richa Singh, Banaras Hindu University
		The Himalayan Aerosol-Climate Interplay and its Effects on Weather Patterns and Ice Mass Balance
11:00	AAC24-384	Said Munir, National Center for Meteorology, Saudi Arabia
		The impact of extreme weather events on atmospheric aerosols in KSA – analyzing the anomalies and their driving factors
11:15	AAC24-47	Lei Li, Chinese Academy of Meteorological Sciences, CMA
		Aerosol component concentration derived by the GRASP algorithm from multi-angular polarimetric satellite observations
11:30	AAC24-305	Laili Fitria, Chung Yuan Christian University
		Skyline to Skyfall: Mapping Taipei's Urban Sprawl and Multi-Air Pollution Risk Assessment Through Remote Sensing
11:45	AAC24-404	Chia C. Wang, National Sun Yat-sen University
		Water Plays Multifunctional Roles in the SOA Formation in Ozonolysis of Monoterpenes: Combined VUV Photoelectron Spectroscopy, Mass Spectrometry and DFT Studies
12:00	AAC24-409	Arnis Asmat, Universiti Teknologi MARA
		The Impact of Urbanisation Factors on Urban Air Quality Using Geographically Weighted Regression (GWR) Analysis
12:15	AAC24-299	Norfazrin Mohd Hanif, Universiti Kebangsaan Malaysia
		Airborne Microplastic in the Urban Area of Peninsular Malaysia: Abundances and Characteristics

6TH NOVEMBER 2024 - Session 5

Aerosol Modeling/Aerosol Physics Chair: Associate Professor Atsushi Matsuki, Shreya Dubey

Time	Paper ID	Presenter & Title
15:00	AAC24-235	Maryam Rahmani, University of Lille, Inria
		Advanced Air Quality Forecasting Using Temporal LSTM (TLSTM) Model
15:15	AAC24-318	Hong Wang, China Meteorological Administration (CMA)
		The application study of the revised IMPROVE atmospheric extinction algorithm in atmospheric chemistry model focusing on low visibility prediction in eastern China
15:30	AAC24-350	Kavita Patnaik, National Atmospheric Research Laboratory
		A 1-D model to retrieve the vertical profiles of minor atmospheric constituents for cloud microphysical modelling
15:45	AAC24-80	Jicheng Feng, ShanghaiTech University
		Configured Electric Fields for Programmable 3D Nanoprinting
16:00	AAC24-83	Thaseem Thajudeen, Indian Institute of Technology Goa
		Machine Learning based Retrieval and Prediction of Geometric Features of Aerosol Aggregates
16:15	AAC24-231	Tomoya Tamadate, Kanazawa University
		Modeling of the Vapor Uptake on Ion under Various Electric Fields
16:30	AAC24-341	Alok Sagar Gautam, Hemvati Nandan Bahuguna Garhwal University
		Key Characteristics of New Particle Formation Events at a High- Altitude Site in Tehri Garhwal, Uttarakhand, in the Western Himalayan Region, India
16:45	AAC24-339	Hyungjin Cho, Gwangju Institute of Science and Technology
		Characteristics of new particle formation and cloud condensation nuclei in the Arctic

6TH NOVEMBER 2024 - Session 5

Aerosol Exposure and Health Effects-III/Urban Aerosol and Air Quality-III Chair: Professor How-Ran Chao, Amrendra Kumar Singh

Time	Paper ID	Presenter & Title
15:00	AAC24-411	Nur Faseeha Suhaimi, Universiti Putra Malaysia
		DNA Methylation as an Epigenetic Signature of Children's Exposure to Traffic-Related Air Pollution in Klang Valley, Malaysia
15:15	AAC24-302	How-Ran Chao, National Pingtung University of Science and Technology
		The Negative Impact of High PM2.5 and Glucose Levels on Wound Healing and Antioxidant Genes in Lung Epithelial Cells and the Potential Effects After Intervention of the Chinese Herbal Medicine, Guilu Erxian Jiao
15:30	AAC24-313	Norhidayah Binti Abdull, University Malaysia Pahang Al-Sultan Abdullah
		Prediction of PM2.5 Emission and Health Impact from Cooking Activity
15:45	AAC24-320	Ki-Joon Jeon, INHA University
		Airborne Nanoplastics and Their Potential Toxicity
16:00	AAC24-334	Amrendra Kumar Singh, Netaji Subhas University of Technology, India
		Assessing Air Pollution and Health Risks: A Five-Year Study of Particulate Matter Deposition in Delhi
16:15	AAC24-338	Ernie Syazween Junaidi, Universiti Putra Malaysia
		Application of Multiple-Path Particle Dosimetry (MPPD) Model in Aged-Specify Schoolchildren Airways Exposed to Ambient Particulate Matters in Malaysia
16:30	AAC24-389	Henrik Hof, Palas GmbH
		Product Manager Environment

6TH NOVEMBER 2024 - Session 5

Aerosol Chemistry-III/Nanoparticles and Nanotechnology-II Chair: Professor Weijun Li, Glynn Dexter Andreas

Time	Paper ID	Presenter & Title
15:00	AAC24-284	Weijun Li, Zhejiang University
		Microscopic analysis of phase separation in fine ambient aerosol particles
15:15	AAC24-289	Kan Huang, Fudan University
		Compositions, sources and formation processes of atmospheric aerosols in the marine atmosphere of coastal China
15:30	AAC24-300	Fang Cao, Nanjing University of Information Science and Technology
		The Impact of Forest Fires in the Eastern European Plain on Light- Absorbing Carbonaceous Aerosols in Moscow's Atmosphere
15:45	AAC24-333	Barlin Das, Dibrugarh University
		Spatial heterogeneity in aerosols chemical composition and implications to physico-optical properties over North East India
16:00	AAC24-356	Shumin Liang, The Hong Kong University of Science & Technology
		Multidimensional Insights into the Formation of C2-3 Organosulfates in Ambient PM2.5
16:15	AAC24-271	Dwi Rasy Mujiyanti, Chung Yuan Christian University
		Enhancement of The Plasma-Catalytic for CO2 Conversion over Monometallic Catalyst Deposited on Zeolite
16:30	AAC24-283	Weijun Li, Zhejiang University
		Microphysical Properties of Atmospheric Black Carbon particles: Measurements, Modeling, and Impacts

6TH NOVEMBER 2024 - Session 5

Aerosol Instrumentation-II/Nanoparticles and Nanotechnology-III Chair: Professor JingKun Jiang, Po-Kai Chang

Time	Paper ID	Presenter & Title
15:00	AAC24-312	Arantzazu Eiguren-Fernandez, Aerosol Dynamics Inc
		Field Evaluation of An Affordable Community Condensation Particle Counter
15:15	AAC24-335	Jose Carlos Caroca Vasquez, AVL List GmbH
		Ultrafine Particle Measurement Campaign in the City of Graz using an AVL CPC
15:30	AAC24-336	Muhammad Aiman bin Mohd Nor, Shibaura Institute of Technology
		The Effect of Fluid Compressibility on the Flow Behavior in a Small Cyclone Separator
15:45	AAC24-357	Jonathan Symonds, Cambustion
		A particle counter for both nano and multi-micron sized particles
16:00	AAC24-365	Anssi Arffman, Dekati Ltd.
		Characterization and field testing of a new oxidation flow reactor (DOFR)
16:15	AAC24-355	Yusuf Jameel, Universiti Putra Malaysia
		Novel Approach to Sustainable Material Fabrication: Graphene-filled Green Epoxy Nanocomposites
16:30	AAC24-394	JingKun Jiang, Tsinghua University
		A convertible condensation particle counter using alcohol or water as the working fluid

6TH NOVEMBER 2024 - Session 5

Air Pollution Sources and Mitigation Technologies Chair: Assoc. Professor Sheng-Lun Lin, Ajit Kumar

Time	Paper ID	Presenter & Title
15:00	AAC24-27	Panuganti China Sattilingam Devara, Amity University Haryana (AUH), Gurugram, India
		Influence of Biomass Burning and Fossil Fuel Emissions on Black Carbon Aerosol in Rural Haryana, India
15:15	AAC24-314	Sheng-Hsiu Huang, National Taiwan University
		Development of a Smart Respirator
15:30	AAC24-315	Chih-Wei Lin, National Taiwan University
		Study on Performance Test Methods of Air Cleaners
15:45	AAC24-316	Chih-Wei Lin, National Taiwan University
		Experimental Study on Optimal CADR Filter Thickness of Air Purifiers