

7th ETMC 2023 Program Schedule

Day 1 Wednesday, 1 November 2023

Time	Activity
08.00-09.00	Registration
09.00-09.10	Opening by The Master of Ceremony and Singing "Indonesia Raya", Indonesian National Anthem
09.10-09.20	Welcoming Remark Prof. Ir. Puji Lestari, Ph.D Chair of Organizing Comitee
09.20-09.30	Opening Remark Prof. Reini Wirahadikusuma, Ph.D Rector of Institut Teknologi Bandung
09.30-10.00	Plenary Session Moderator Prof. Edwan Kardena, Ph.D
10.00-10.30	Lecture 1: Ir. Sigit Reliantoro, M.Sc. Indonesian Ministry of Environment and Forestry
10.30-10.45	Lecture 2: Prof. Chih-Chieh Chen President of Asian Aerosol Research Assembly, Taiwan
10.45-11.00	Photo Session
10.45-11.00	Coffee Break 1



11.00-12.10	Parallel Paper Presentation Session 1
12.10-13.30	Lunch and prayer break
13.30-15.00	Parallel Paper Presentation Session 2
15.15-15.30	Coffee Break 2, Poster Session, and Exhibition
15.30-17.30	Parallel Paper Presentation Session 3
18.00-21.00	Welcome Dinner and Cultural Night

Day 2

Thursday, 2 November 2023

Time	Activity
08.30-09.00	Registration
	Plenary Session Moderator Prof. Ir. Agus Jatnika Effendi, Ph.D.
09.00-09.30	Lecture 3: Indonesian Ministry of Public Works and Housing
09.30-10.00	Plenary Lecture 4: Prof. Thammarat Koottatep Asian Institute of Technology
10.00-10.15	Coffee Break 1
10.15-12.00	Parallel Paper Presentation Session 1
12.00-13.30	Lunch and Prayer Break
13.30-15.15	Parallel Paper Presentation Session 2
15.15-15.30	Coffee Break 2
15.30-17.15	Parallel Paper Presentation Session 3
17.15-17.30	Closing remarks

Day 3

Friday, 3 November 2023

08.00-13.00	Technical Tour
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Parallel Session Schedule

Day 1

Wednesday, 1 November 2023

Room 1: Air Quality Monitoring and Modelling, Emission Inventory, and Control

Time	ID, Title, Authors
11.00-11.20	<i>Invited Speaker: Prof. Kenichi Tonokura</i> <i>The University of Tokyo</i> Estimation of Atmospheric Species Emissions from Tropical Peatlands
11.20-11.35	ID120: EVALUATION OF MERRA-2 AND MODIS C6.1 AEROSOL PRODUCTS OVER INDONESIA <i>Khoir, Aulia Nisa'ul; Siahaan, Aberta Rulinri; Setiawan, Budi; Taryono, Taryono; Nahas, Alberth Christian; Sucianingsih, Cici; Waryatno, Nur Faris Parih; Agus, Andriyani</i> (Badan Meteorologi Klimatologi dan Geofisika)
11.35-11.50	ID126: Impact of the COVID-19 Outbreak on the Atmospheric Organophosphate Esters in Northern Taiwan: Occurrence, Temporal Trend and Source Implication <i>Theresia, Ledy; Chi, Pan; Marlina, Nelly; Jiang, JhengJie</i> (Chung Yuan Christian University)
11.50-12.05	ID233: Long-term trends of ozone precursors and ozone sensitivity in Indonesia: A view from space <i>Kusumaningtyas, Sheila Dewi Ayu; Tonokura, Kenichi; Gunawan, Dodo; Iriana, Windy</i> (Badan Meteorologi Klimatologi dan Geofisika)
	Lunch Break
13.30-13.45	ID138: Investigating Spatiotemporal Variability of Trafficrelated Ultrafine Particles in the Roadside Environments of an Urban Industrial Park <i>Abdillah, Sultan F.I.; You, Sheng-Jie; Wang, Ya-Fen</i> (Chung Yuan Christian University)
13.45-14.00	ID133: Insight Into Distribution, Types, and Pathways of Organophosphate Esters in Indoor Environment <i>Marlina, Nelly; Theresia, Ledy; Jiang, Jheng-Jie</i> (Chung Yuan Christian University)

14.00-14.15	ID154: Occurrence and Characteristic of Microplastics in Road Dust of Yogyakarta <i>Jannah, Baiq Raudatul; Maharani, Hanifah Sulia; Rahmawati, Suphia; Abdull, Norhidayah Binti; Nugroho, Adam Rus (Universitas Islam Indonesia)</i>
14.15-14.30	ID168: Spatial Relation of Asthmatic Prevalence among School Children and NO2 Concentrations in Bandung <i>Sari, Putri Nilam; Driejana, Driejana; Yudison, Adyati Pradini; Agustian, Dwi (Institut Teknologi Bandung)</i>
14.30-14.45	ID173: Monitoring the Diurnal and Seasonal Variation of Ambient of Ambient Particulate Matter (PM2.5) using Low-Cost Sensors in Juja, Kenya <i>Ndiang'ui, Josephine Kanyeria; Mwangi, Paul Njogu (Jomo Kenyatta University of Agriculture and Technology)</i>
14.45-15.00	ID175: IDENTIFICATION OF MICROPLASTIC IN THE AMBIENT AIR OF LANDFILL IN YOGYAKARTA, INDONESIA <i>Ardiyanta, Iwan; Pradana, Nasrul Fajar; Rahmawati, Suphia; Abdull, Norhidayah binti; Nugroho, Adam Rus (Universitas Islam Indonesia)</i>
	Coffee Break
15.30-15.45	ID239: Ash Conveying System Upgrade from Hydraulic to Pneumatic System in a 550 MW Coal-Fired Fuel Power Plant in Taiwan <i>Makhraja, Anshar; Lee, Jimmy (TAI & CHYUN ASSOCIATES INDUSTRIES, INC.)</i>
15.45-16.00	ID185: ASSESSMENT OF NASA POWER REANALYSIS PRODUCTS AS DATA RESOURCES ALTERNATIVE FOR WEATHER MONITORING IN WEST SUMBAWA, INDONESIA <i>Darman, Luky Prasetya; Januhariadi; Aslan (PT AMMAN)</i>
16.00-16.15	ID187: Integrated Health Risk Assessment of Black Carbon During Winter Season in Dhaka, Bangladesh <i>Nayem, A.K.M; Zaman, Shahid Uz; Salam, Abdus (BUET)</i>
16.15-16.30	ID190: Measurement of motorcycle exhaust emissions on urban roads using remote sensing <i>Gantina, Tina Mulya; Lestari, Puji; Arrohman, Maulana Khafid; Mahalana, Aditya; Dallman, Tim (Institut Teknologi Bandung)</i>

16.30-16.45	ID191: Analysis of Morphological and Chemical Characteristics of PM2.5 in Urban Area <i>Tomo, Haryo Satriyo; Lestari, Puji; Dewi, Kania (Institut Teknologi Bandung)</i>
16.45-17.00	ID196: Spatial Patterns of PM2.5 Air Pollution in Jakarta: Insights from Mobile Monitoring <i>Ghaida, Azka; Firdaus, Fadhil Muhammad; Meliana, Khalisa; Cardenas, Beatriz; Lestari, Puji (World Resource Intitute)</i>

Day 1

Wednesday, 1 November 2023

Room 2 : Water, Sanitation, and Hygiene (WASH)

Time	ID, Title, Authors
11.00-11.20	Invited Speaker <i>Ir. Indah Rachmatiah Siti Salami, M.Sc., Ph.D.</i> Institut Teknologi Bandung
11.20-11.35	ID112: Performance Evaluation of Domestic Wastewater Management in Cilincing District, North Jakarta – Case Study of Sustainable Management in Low-lying Areas <i>Sofiyah, Evi Siti; Aqilah, Annisa Thahirah; Ridhosari, Betanti (Universitas Pertamina)</i>
11.35-11.50	ID116: Development and validation of instrument to measure citywide inclusive sanitation (CWIS Scale) for Lowand Middle-Income Countries (LMICs) <i>Nastiti, Anindrya; Safira, Khansa Fay'i; Kurniati, Ami Santika; Sakti, Anjar Dimara (Institut Teknologi Bandung)</i>
11.50-12.05	ID118: Analysis of the Existence of the blaCTX-M Antibiotic Resistance Gene in Escherichia coli Bacteria in the Downstream Bekasi River Using the Polymerase Chain Reaction Method <i>Gusti, Lathifah Hana; Priadi, Cindy Rianti; Rahmatika, Iftita; Paramitadevi, Yudith Vega (Universitas Indonesia)</i>
	Lunch Break
13.30-13.45	ID122: Developing Discharge input models For Multiuse reservoir Operation Karian in Banten Province, Indonesia <i>Mulyawati, Ira; Salami, Indah Rachmatiah Siti; Marselina, Mariana; Sabar, Arwin (Institut Teknologi Bandung)</i>

13.45-14.00	ID123: Analysis of Public Perception on Access and Use of Domestic Wastewater Management Facilities in Koja Sub-District North Jakarta <i>Ridhosari, Betanti; Nastiti, Almira Davina; Sofiyah, Evi Siti (Universitas Pertamina)</i>
14.00-14.15	ID131: Removal of antibiotic resistant bacteria in wastewater treatment plant <i>Ilmi, Akna Mumtaz; Adiba, Farah; Anisah, Kirana; Kasuga, Ikuro; Priadi, Cindy Rianti; Rahmatika, Iftita (Universitas Indonesia)</i>
14.15-14.30	ID132: Occurrence of Extended-Spectrum Beta-Lactamase producing <i>Escherichia Coli</i> in Groundwater <i>Prakosa, Bima Rajendra Naufal; Adiba, Farah; Kasuga, Ikuro; Priadi, Cindy Rianti; Rahmatika, Iftita (Universitas Indonesia)</i>
14.30-14.45	ID139: DETERMINING FACTORS OF COMMUNITY PARTICIPATION INFLUENCE ON THE SUSTAINABILITY OF COMMUNITY-BASED SANITATION (SANIMAS) (Case : SANIMAS SPALD-S Program in Temanggung Regency) <i>Sunaryo, Laillia Rakhmawati; Soewondo, Prayatni (Institut Teknologi Bandung)</i>
14.45-15.00	ID140: A STAKEHOLDER ANALYSIS OF SANITATION MANAGEMENT IN PONTIANAK CITY SLUMS <i>Siddik, Salma Savira; Setiyawan, Ahmad Soleh; Sarli, Prasanti Widyasih; Soewondo, Prayatni; Awfa, Dion (Institut Teknologi Bandung)</i>
	Coffee Break
15.30-15.45	ID147: Identification of <i>E. coli</i> and <i>Salmonella</i> in Non-piped Drinking Water <i>Wairara, Tricia Lusia Novalia; Paramitadevi, Yudith Vega; Rahmatika, Iftita; Priadi, Cindy Rianti (Universitas Indonesia)</i>
15.45-16.00	ID210: Analysis of Fecal Pollution Load Factor From Septic Tanks of Residential Area (Study Case : Bandung City, Indonesia) <i>Firdayati, Mayrina; Abfertiawan, Sonny; Hasibuan, Munira Afina (Institut Teknologi Bandung)</i>
16.15-16.30	ID169: Predictive Modelling of Water Clarity based on Remote Sensing Data using Artificial Neural Network

	(ANN): A Case Study in Saguling Reservoir, West Java, Indonesia <i>May, Annisa Ritka; Soewondo, Prayatni; Rohmat, Faizal Immaddudin Wira; Hadi, Misbul; Sarli, Prasanti Widyasih (Institut Teknologi Bandung)</i>
16.30-16.45	ID174: Designing Web-app for Decision Support System for Upgrading Slum Sanitation <i>Apriadi, Dian Permatasari; Barjenbruch, Matthias; Soewondo, Prayatni (Institut Teknologi Bandung)</i>
16.45-17.00	ID180: Approach to Participatory Action Research Methods on the Utilization of Drinking Water Supply System Technology in Kameyakha Village, Jayapura Regency <i>Corsita, Lieza (Universitas Sains dan Teknologi Jayapura)</i>
17.00-17.15	ID146: Analysis of Water and Sanitation (WASH) Implementation based on GEDSI and climate resilience in Kupang City <i>Agustina, Theresia (Universitas Indonesia)</i>

Day 1

Wednesday, 1 November 2023

Room 3 : Environment Conservation, Restoration, Emergency and Rehabilitation

Time	ID, Title, Authors
11.00-11.20	<i>Invited Speaker: Dr. Paul Dargusch University of Queensland, Australia Utilising timber in construction to lower emissions and reduce embodied carbon: life cycle assessment and carbon inventory of mass timber buildings</i>
11.20-11.35	ID117: Analysis of the Potential and Characteristics of Nipah (Nypa fruticans) as a Sustainable Biofuel Alternative Source in Indonesia <i>Prasetyo, Cahyo Purnomo; Effendi, Agus Jatnika; Chaerul, Mochammad (Institut Teknologi Bandung)</i>
11.35-11.50	ID125: Exploring the Presence of Plastic Particle Contamination in Horticultural Intensive Land in Wonosobo, Indonesia <i>Pradhita, Oka (Ministry of Agriculture, Indonesia)</i>

11.50-12.05	ID127: An Integrated System Dynamics Approach for Analyzing BOD Pollution and Total Maximum Daily Load in the Upper Citarum Watershed <i>Rahmaditio, Muhammad Reza; Sudradjat, Arief (Institut Teknologi Bandung)</i>
	Lunch Break
13.30-13.45	ID129: Assessing the Carbon Footprint of Drinking Water Supply System in Indonesia: A Case Study of the Rebana Metropolitan Area <i>Sudradjat, Arief; Azizah, Jihan Nur (Institut Teknologi Bandung)</i>
13.45-14.00	ID152: Learning environments for multi-stakeholder participation: Visual Problem Appraisal Citarum River <i>Fliervoet, Jan; Witteveen, Loes; Roosmini, Dwina; Geerling, Gertjan; Nastiti, Anindrya; Mansoor, Alvanov; Sembiring, Emenda (Van Hall Larenstein UAS)</i>
14.00-14.15	ID153: Design and development of virtual serious games for future proof peatland management <i>Witteveen, Loes; Roosmini, Dwina; Mansoor, Alvanov; van der Maas, Peter; Mahmud, Mahmud; Fliervoet, Jan (Van Hall Larenstein UAS)</i>
14.15-14.30	ID158: Raw Water Reliability Analysis for Development of Piped Drinking Water Service System (Case Study: Krueng River, Banda Aceh City) <i>Marseling, Mariana; Aulia, Mirza; Sabar, Arwin (Institut Teknologi Bandung)</i>
14.30-14.45	ID162: IMPLEMENTATION SWAMPY FOREST SYSTEM FOR ACID MINE DRAINAGE TREATMENT TO MEET THRESHOLD VALUE <i>Noor, Ihsan; Arifin, Yudi Firmanul; Priatmadi, Bambang Joko; Saidy, Akhmad Rizalli (Lambung Mangkurat University)</i>
14.45-15.00	ID164: Remote Sensing Estimation of Water Transparency for Saguling Dam in The Past Decade (2013-2022) Based on Landsat 8 <i>Awfa, Dion; Wicaksono, Aditya Nugroho; Putra, Raden; Soewondo, Prayatni (Institut Teknologi Sumatera)</i>
	Coffee Break
15.30-15.45	ID165: Identification and Characterization of Microplastic In Sediments and Macrozoobenthos ff The Upper Citarum

	<i>Adrian, Muhammad Rizky; Roosmini, Dwina (Institut Teknologi Bandung)</i>
15.45-16.00	ID177: Eutrophication in Lake Batur: current status and management strategies <i>Sunaryani, Astried; Santoso, Arianto Budi; Soewondo, Prayatni; Imananda, Alifia (National Research and Innovation Agency Republic of Indonesia (BRIN))</i>
16.00-16.15	ID186: Assessing Compliance with Environmental Regulations: A Case Study of Fines Imposed on Companies in the Citarum River Basin, Indonesia <i>Mayangsari, Miranti; Nastiti, Anindrya; Marselina, Mariana; Astriani, Nadia; Wibisana, Andri Gunawan (Universitas Pamulang)</i>
16.15-16.30	ID194: Water Availability Karo Lake, Obi Island, South Halmahera <i>Nuraprianisandi, Siska; Abfertiawan, Muhammad Sonny; Gultom, Tonny H; Gunardi, Petrus; Syahroni, Muharwan (PT Ganeca Environmental Services)</i>
16.30-16.45	ID200: Bioavailability enhancement of petroleum contaminated soil by electrokinetic remediation <i>Madonna, Sandra; Effendi, Agus Jatnika; Kardena, Edwan; Hidayat, Syarif (Institut Teknologi Bandung)</i>

Day 1

Wednesday, 1 November 2023

Room 4 : Wastewater and Resource Recovery

Time	ID, Title, Authors
11.00-11.20	<i>Invited Speaker: Prof. Eiji Haramoto University of Yamanashi, Japan</i> Development of pathogen detection methods for social implementation of wastewater-based epidemiology for COVID-19 and other infectious diseases among Asian countries
11.20-11.35	ID108: Removal of Lead from Aqueous Solution Using Modified Dewatered Sewage Sludge as Adsorbent <i>Felia, Syaza Nadya; Adityosulindro, Sandyanto; Zahrandika, Fathiya Allisa; Hartono, Djoko (Universitas Indonesia)</i>
11.35-11.50	ID110: Treatment of Synthetic Diazo Textile Dyeing Wastewater in Hollow Fiber-Submerged Anaerobic

	Membrane Bioreactor (HF-sAnMBR): Influence of High Initial Flux on Membrane Performance and Biofouling <i>Saquib, Syed; Setiadi, Tjandra; Julian, Helen; Suhardi, Sri Harjati (Institut Teknologi Bandung)</i>
11.50-12.05	ID113: Effectivity of Anaerobic Deposition Reactor (ADR) Based on Sulphate Reducing Bacteria for Laboratorium Wastewater Treatment <i>Suyasa, wayan Budiarsa; Sudiarta, Gede Adiwiguna (Universitas Udayana)</i>
12.05-12.20	ID156: Wastewater Leakage Identification in WWTP and Concrete Pipelines Using Integrated Geophysical Imaging Methods <i>Aryani, Shasqia; Rahmadhani, Larisa; Kartika, Dwi; NA, Yazid (Sucifindo)</i>
	Lunch Break
13.30-13.50	Invited Speaker: Prof. Ir. Edwan Kardena, Ph.D. Institut Teknologi Bandung, Indonesia
13.50-14.05	ID124: Hybrid O ₃ /UV/Fe Process using Rebar Flake Waste Catalyst for Removal of Congo Red Dye In Wastewater <i>Zahrandika, Fathiya Allisa; Adityosulindro, Sandyanto; Felia, Syaza Nadya; Kusrestuwardhani, Kusrestuwardhani (Universitas Indonesia)</i>
14.05-14.20	ID128: Microplastic removal performance of residential wastewater treatment plant secondary treatments <i>Hassan, Fahir; Chen, Po Yu; Ya-Fen, Wang; Sheng-Jie, You; Jheng-Jie, Jiang (Chung Yuan Christian University)</i>
14.20-14.35	ID137: Efficiency of Fenton Oxidation and Membrane Hybrid Processes for Paracetamol Removal in Seawater <i>Kamal, Fadhila Malahayati; Adityosu Sandyanto; Laksono, Sucipta (Universitas Indonesia)</i>
14.35-14.50	ID144: Combination of Activated Carbon-Ultrafiltration Membrane as Pretreatment of Seawater Reverse Osmosis. <i>Budiningsih, Shafira; Laksono, Sucipta; Adityosulindro, Sandyanto (Universitas Indonesia)</i>
14.50-15.05	ID150: Unraveling the Effects of Temperature Shifts on Microbial Communities and Biogas Production of Digested Sewage Sludge Anaerobic Digestion <i>Sudiarta, Gede Adi Wiguna; Imai, Tsuyoshi (Yamaguchi University)</i>

	Coffee Break
15.30-15.45	ID172: Vertical Flow Constructed Wetland Associated with Consortium Endogenic Bacteria in Treating Textile Wastewater <i>Fajri, Joni Aldilla; Nurmiyanto, Awaluddin; Wulandari, Dewi; Lathifah, Annisa Nur; Isnika, Rina; Rahayu, Aster; Trisna, Erdina (Universitas Islam Indonesia)</i>
15.45-16.00	ID179: Performance Evaluation of Electrokinetic Bioremediation for Weathered Petroleum Hydrocarbon-Contaminated Soil <i>Syarif, Afiya Nadhifah; Effendi, Agus Jatnika; Hidayat, Syarif (Institut Teknologi Bandung)</i>
16.00-16.15	ID188: Phosphorus Recovery from Calcium Phosphate Enriched Activated Sludge <i>Maulidiany, Nopa Dwi; Khairunnisa, Shafira Maulida (Universitas Indonesia)</i>
16.15-16.30	ID195: Combination of Anaerobic and MBR (Membrane Bio Reactor) Waste Water Treatment System of Central Fish Market Complex (CFMC) Peliyagoda, Sri Lanka – A Case Study <i>Jansz, Warnakulasuriya Roshani Loreta Hiranthi; Fernando, Dineshi; Sanistan, Joy (Central Environmental Authority)</i>
16.30-16.45	ID207: The Effect of Heating and Mixing Variations as PreTreatment of Bovine Blood Waste Using Black Soldier Fly Larvae (<i>Hermetia illucens</i>) <i>Said, Muhammad Rafli Nurmin; Firdayati, Mayrina; Putra, Ramadhani Eka (Institut Teknologi Bandung)</i>
16.45-17.00	ID227: Comparative Study of Long-Term Laboratory and Field Kinetic Test to Predict Acid Mine Drainage Potential <i>Abfertiawan, Muhammad Sonny; Hasan, Faiz; Palinggi, Yosef; Pranoto, Kris (Institut Teknologi Bandung)</i>
17.00-17.15	ID229: The Application of Artificial Neural Network Model to Predicting the Acid Mine Drainage from Long-Term Lab Scale Kinetic Test <i>Abfertiawan, Muhammad Sonny; Kautsar, Muchammad Daniyal; Hasan, Faiz; Palinggi, Yosef; Pranoto, Kris (Universitas Gajah Mada)</i>
17.15-17.30	ID238: Implementation of Vacuum Distillation System at PPLI: A Case Study on High-Concentrated Waste Treatment and Water Recycling

*Fitriyani, Lely; Elpido, Elpido; Yurnalisdell, Yurnalisdell;
Firdaus, Yusuf (PT. PPLi)*

Day 2

Thursday, 2 November 2023

Room 1 : Air Quality Monitoring and Modelling, Emission Inventory, and Control

Time	ID, Title, Authors
10.15-10.35	<i>Invited Speaker: Prof. Ya-Fen Wang Chung Yuan Christian University Air Quality Management Policy in Taiwan</i>
10.35-10.50	ID201: Airborne Microplastics in Bandung City: Concentration, Polymer Type, Diameter, and Shape <i>Hidayat, Nur Alina Aprilia; Kitano, Kotaro; Tani, Yuto; Lestari, Puji; Iriana, Windy; Fujii, Yusuke; Takenaka, Norimichi; Okochi, Hiroshi (Institut Teknologi Bandung)</i>
10.50-11.05	ID176: Characteristics of Air Exposure In Welding Workshops <i>Ahmad, Eka Fitriani; Lestari, Puji; Oginawati, Katharina; Santoso, Muhayatun; Yulizar, Yoki; Munir, Muhammad Miftahul (Institut Teknologi Bandung)</i>
11.05-11.20	ID216: Preliminary Assessment of Black Carbon Analysis of PM2.5 Fraction in Urban Area using Multiwavelength Absorption Black Carbon Instrument (MABI) and Its Comparison with Related Methods <i>Damastuti, Endah; Santoso, Muhayatun; Syahfitri, Woro Yatu Niken; Atmodjo, Djoko Prakoso Dwi; Kurniawati, Syukria; Nurhaini, Feni Fernita; Lestiani, Diah Dwiani (Institut Teknologi Bandung)</i>
11.20-11.35	ID240: The Chemical Composition and Oxidative Potential in Atmospheric Different Sizes Particles in Northern and Central Taiwan <i>Chen, Zhi Yu; Pan, Shih Yu Pan; Lien, Chien Kuo; Hsiao, Ta Chih; Ting, Yu Chieh; Chen, Yu-Cheng; Chou, Charles C.K; Fan, Run Hui; Chi, Kai Hsien (National Yang Ming University)</i>
11.35-11.50	ID224: Source identification and health risk assessment of particulate phase organic compounds in urban and rural areas of Bangladesh <i>Nazrul, Islam (Dhaka University)</i>
11.50-12.05	ID228: Use of Jakarta Tropospheric Ozone Data 2022-2023 to Analyze Maximum Hourly and Daily Concentration Patterns <i>Yulinawati, Hernani; Brunner, I Made Indradjaja (Universitas Trisakti)</i>

12.05-12.20	ID143: Electrostatic precipitator upgrade for stricter emission regulation <i>STEVANUS, WILLY</i> <i>(TAI & CHYUN ASSOCIATES INDUSTRIES, INC)</i>
	Lunch Break
13.30-13.45	ID232: The effect of human activities on Bali's Silent Day (Nyepi) in 2022 <i>Nuryanto, Danang Eko; Permana, Donaldi Sukma; Hidayanto, Nurdeka; Rizal, Jose; Heriyanto, Eko; Harapan, Ferdika Amsal; Fajariana, Yuaning; Komalasari, Kurnia Endah (Indonesian Agency for Meteorology Climatology and Geophysics (BMKG))</i>
13.45-14.00	ID178: The Major Impact of Coal Mining Service Activities to GHG Emissions: Case Study at PT Bukit Makmur Mandiri Utama (BUMA) Jobsite Binsua and Lati <i>Prabandani, Diah; Herlyana, Alifia; Pramayu, Ajeng (BUMA)</i>

Day 2

Thursday, 2 November 2023

Room 1 : Health, Safe, and Resilient Community

Time	ID, Title, Authors
14.10-14.30	<i>Invited Speaker: Dr. G. W. Geerling</i> <i>Water and Health</i>
14.30-14.45	ID107: Reflection of prenatal exposure to wildfire smoke on reduced birth weight in Indonesia (2015-2019) <i>Ardiyani, Vissia; Kelly, Frank; Phillips, David; Wooster, Martin; Grosvenor, Mark</i> <i>(Health Polytechnic of Palangka Raya)</i>
14.45-15.00	ID119: Prevalence of E. coli resistant to Cefotaxime and Salmonella spp. as a hazard of exposure to farmers in the livestock environment <i>Paramitadevi, Yudith Vega; Priadi, Cindy Rianti; Rahmatika, Iftita; Andriansjah, Andriansjah; Moersidik, Setyo Sarwanto</i> <i>(Universitas Indonesia)</i>
15.00-15.15	ID130: The Application of Bioassay Using Daphnia magna for the Evaluation of Pharmaceutical Industry Wastewater Containing Active Pharmaceutical Ingredients (APIs) Toxicity <i>Ariesyady, Herto Dwi; Tiarina, Aisha Maulani; Nastiti, Anindrya</i> <i>(Institut Teknologi Bandung)</i>
	Coffee Break
15.30-15.45	ID136: Antibiotic Resistance Pattern of Escherichia coli from Aquatic Environment in the Upper Citarum Watershed, Indonesia <i>Kusumah, Siska Widya Dewi; Kandio, Nadhira; Maghfirah, Raihan; Ariesyady, Herto Dwi</i> <i>(Institut Teknologi Bandung)</i>
15.45-16.00	ID159: Pesticide residue exposure effect on health, growth, and development among children from agricultural area <i>Deviyani, Deviyani; Salami, Indah R.S.; Oginawati, Katharina</i> <i>(Institut Teknologi Bandung)</i>
16.00-16.15	ID166: Expression of Heat Shock Protein 70 (HSP70) into an Integrated Heat Health Risk Framework for Vulnerable Populations in Urban and Rural Klang Valley <i>Muhamad, Siti Nurfahirah; How, Vivien</i> <i>(Universiti Putra Malaysia)</i>

16.15-16.30	ID208: Embedding Gender Responsive Consideration in Waste Management <i>N, Nailah; Larasati, Maya</i>
16.30-16.45	ID211: Community-Based Waste Management through Waste Banks Towards A Resilient Community: A Medan City Case Study <i>Safitri, Nabila; Larasati, Maya; Indrarini, Annisaa; Hutahaeon, Michael (resilience Development Initiative)</i>
16.45-17.00	ID218: Correlation Of Public Mobility And Covid-19 Incidence In Indonesia During Six Phases Of Restriction Policy Implementation <i>Sujatmiko, Budi; Nurhaqiqi Alhayati, Arina; Susanti Pratiwi, Yuni; Fuji Aryanto, Eko; Halleyana, Putri; Indraswari, Noormarina (Universitas Padjajaran)</i>
17.00-17.15	ID230: How does gender affect pro-environmental behaviours? The case of a university in Bandung, Indonesia <i>Fathonah, Nabila; Nastiti, Anindrya (Institut Teknologi Bandung)</i>

Day 2

Thursday, 2 November 2023

Room 2 : Water, Sanitation, and Hygiene (WASH)

Time	ID, Title, Authors
10.15-10.35	Invited Speaker: Bastien van Veen Inclusive Flood Resilience Expert Towards inclusive flood resilience
10.35-10.50	ID213: ANALYSIS OF THE EXISTENCE OF MACROZOOBENTOS AS BIOINDICATORS BASED ON BIOTIC INDEX AND POLLUTION INDEX OF WATER QUALITY IN THE CITARUM RIVER <i>Farhan, Rifqi; Muntalif, Barti Setiani; Chazanah, Nurul (Institut Teknologi Bandung)</i>
10.50-11.05	ID192: Inactivation behavior of Escherichia coli during treatment process in modified septic tank <i>Pangaribuan, Arisa F.; Setiyawan, Ahmad Soleh; Putri, Dyah Wulandari (Institut Teknologi Bandung)</i>

11.05-11.20	ID197: EVALUATION OF PSYCHOSOCIAL FACTORS AFFECTING FAECAL SLUDGE DESLUDGING PRACTICE COMPLIANCE IN BEKASI CITY <i>Putri, Dyah Wulandari; Amadea, Josephine (Institut Teknologi Bandung)</i>
11.20-11.35	ID205: METHOD OF MEASUREMENT OF PRIMARY MICROPLASTIC ABUNDANCE (MICROBEADS) USING A SAFE AND REALTIME MEDIA DISPERSING APPROACH (CASE STUDY : CIKAPUNDUNG RIVER) <i>Maula, Rahmatun; Zevi, Yuniati; Hakiki, Rijal (Institut Teknologi Bandung)</i>
11.35-11.50	ID209: The Measurement of Fe and Mn Concentrations Using Image Processing Techniques Based on Color Intensity Approach <i>Daniar, Putri Sandi; Zevi, Yuniati; Hakiki, Rijal (Institut Teknologi Bandung)</i>

Day 2

Thursday, 2 November 2023

Room 2 : Environment Conservation, Restoration, Emergency and Rehabilitation

13.30-13.50	<i>Invited Speaker: Prof.Ir. Agus Jatnika Effendi, Ph.D. Institut Teknologi Bandung, Indonesia</i>
13.50-14.05	ID212: Yaki (<i>Macaca nigra</i>) Conservation: The Role of PGE Tbk Area Lahendong in Conserving North Sulawesi Endemic Animals <i>Lendeng, Julian Petrus; Wibisono, Bagus Dimas; Harjo, Pandhit Pringgo; Alfarobi, Muhammad Yogi (PT Pertamina Geothermal Energy Tbk. Area Lahendong)</i>
14.05-14.20	ID217: Water Availability of Akelamo River, Obi Island, South Halmahera <i>Yasya, Heksantia Rahmadinda; Abfertiawan, Muhammad Sonny; Gultom, Tonny H.; Gunardi, Petrus; Syahroni, Muharwan (PT Ganeca Environmental Services)</i>
14.20-14.35	ID219: The Challenge in Implementing Environmental Flow Concept in Indonesia <i>Nugroho, Adam Rus (Universitas Islam Indonesia)</i>

14.35-14.50	ID220: Plant growth promoting potential of <i>Arthrobacter</i> spp., an early colonizer on the volcanic deposits of Mt. Merapi, Indonesia, as a restorative agent for degraded land <i>Lathifah, Annisa Nur; Prijambada, Irfan Dwidya; Ohta, Hiroyuki (Universitas Islam Indonesia)</i>
14.50-15.05	ID237: Soil Residue Ecotoxicology from Biosurfactant Extraction for Oily Soil Decontamination Process <i>Fitriyani, Lely; Kardena, Edwan; Sukandar, Sukandar (PT. PPLi)</i>

Day 2

Thursday, 2 November 2023

Room 3 : Green Cities, Eco-Industries and Sustainable Infrastructure

Time	ID, Title, Authors
10.15-10.35	<i>Invited Speaker: Prof. Dr. Ir. Dwina Roosmini, M.S. Institut Teknologi Bandung, Indonesia</i>
10.35-10.50	ID106: Green Building Application with Low Carbon Implementation Towards Sustainability, Case Study: PLN NP's Service Building <i>Damara, Diken Yus; Adhiyoso, Anjar; Triastutik, Erna; Siahaan, Arleen Maranatha (PT PLN Nusantara Power)</i>
10.50-11.05	ID111: Analysis of Garden City Concept Application for Food Security Issue in Semarang Urban Area <i>Wardhani, Dhiyan Krishna; Angghita, Lintang Jata; Wastunimpuna, Benediktus Yosef Arya (Soegijapranata Catholic University)</i>
11.05-11.20	ID114: Comparison of Water Treatment Using Concrete and Steel <i>Darmasetiawan, Martin; Cahyo Nugroho, Novrandana (Institut Teknologi Bandung)</i>
11.20-11.35	ID115: Analysis of the Concept of Circular Economy Application by Small and Medium Industries in West Java Province (A Case Study: Padamukti and Cibodas Villages, Solokan Jeruk District, Bandung Regency) <i>Nur, Yudha Hadian; Sutadian, Arief Dhany; Putra, Nurjaman Gunadi; Nastiti, Anindrya (West Java Research and Development Agency)</i>

11.35-11.50	ID135: Lab-Scale Environmental Impact Measurement of Polymer-Modified Asphalt Concrete Mixtures Production <i>Daniel, Christian Gerald; Firdaus, Fadhil Muhammad (Pelita Harapan University)</i>
11.50-12.05	ID145: Gate-to-gate Approach in Life Cycle Assessment of Steel Pipe Products <i>Aulia, Muthya Farah N.; Lestari, Puji (Institut Teknologi Bandung)</i>
	Coffee Break
13.30-13.45	ID163: Evaluation of Energy Efficiency and Renewable Energy Utilization in the Road Transportation Sector of Indonesia to Reduce Emissions in accordance with the National Contribution Target <i>Aryani, Ersya Shasqia; Haqiqie, Fauzan Aditya; Finnegan, Agripping Lamaz (Sucofindo)</i>
13.45-14.00	ID167: Chloride-Induced Concrete Deterioration Monitoring using Advanced Ultrasonic Pulse Wave Analysis based on Convolutional Neural Network <i>Mukhti, Julfikhsan Ahmad; Kee, Seong-Hoon (Dong-A University)</i>
14.00-14.15	ID171: Analysis of The Potential and Determining Financial Model Scenario for Implementing Scheduled Desludging Service Program (Case Study : Subang, West Java, Indonesia) <i>Utami, Fika Fitrianda (Institut Teknologi Bandung)</i>
14.15-14.30	ID199: Decarbonization Initiative Program in Drilling Activities at Pertamina Hulu Mahakam to Achieve Sustainable Operation and Cost Optimization <i>Navisa, Navisa; Muyinsyah, Ahyat; Agustin, Imas (Pertamina Hulu Mahakam)</i>

14.30-14.45	<p>ID204: Spatial Analysis of Water Quality Parameters Concentration in the Area Surrounding Floating Solar Panel Installation</p> <hr/> <p><i>Atikah, Rifa Hasna; Wahyuningsih, Ni Putu Sri; Suwartha, Nyoman (University of Indonesia)</i></p>
14.45-15.00	<p>ID214: Study on the Use of Water and Feed Resources on Beef Cattle and Dairy Farms in Bandung Regency, West Java</p> <hr/> <p><i>Notodarmojo, Peni Astrini; Oginawati, Katharina; Firdayati, Mayrina (Institut Teknologi Bandung)</i></p>
15.00-15.15	<p>ID 1199: Sustainable of E-learning Environments: Model of Continuance Intention</p> <hr/> <p><i>Alamsyah, Doni Purnama; Susanti, Leni (Bina Nusantara University)</i></p>
15.15-15.30	<p>ID 1201: Using Online Learner Assessment to Improve Learning Outcomes and Sustainable Industry Practices: An Examination of Academic Performance in E-Learning</p> <hr/> <p><i>Susanti, Leni; Alamsyah, Doni Purnama (Bina Nusantara University)</i></p>

Day 2

Thursday, 2 November 2023

Room 4 : Advanced Solid Waste Management and Technology

Time	ID, Title, Authors
10.15-10.35	Invited Speaker:
	<i>Prof. Emenda Sembiring, S.T, M.T, M.Eng.Sc., Ph.D. Institut Teknologi Bandung, Indonesia</i>
10.35-10.50	ID100: Utilization of Fly Ash and Bottom Ash Coal Fired Power Plant Teluk Balikpapan as Concrete <i>Ibnu Arobi, Achmad; Istiqomah Yusriyani, Farida Nurul (PT. PLN Nusantara Power)</i>
10.50-11.05	ID109: Anaerobic Biodigester As A Community-Based Food Waste Treatment Facility, Case Study : Canteen Area of PT PLN Nusantara Power UP Muara Karang <i>Yasin, Tania Revina; Rahmanissa, Aulia; Yusuf, Iman Dimassetya Yanuar (PT. PLN Nusantara Power)</i>
11.05-11.20	ID134: Real data mapping of DKI Jakarta waste generation using the K-mean Clustering method at final disposal Bantargebang <i>Ardiatma, Dodit; Iestari, Puji; Chaerul, Mochammad (Institut Teknologi Bandung)</i>
11.20-11.35	ID148: Development of an Economically Viable Recycling Plastic Waste Management System in Cibodas Village and Padamukti Village, West Java <i>Purnomo, Carissa Eukairin; Priadi, Cindy Rianti; Suwarso, Reni; Marthanty, Dwinanti Rika; Ombasta, Osha; Holden, Jane Louise; Hadfield, Paris (Universitas Indonesia)</i>
11.35-11.50	ID149: Household solid waste sampling method: Do we have to do it for 8 consecutive days? A preliminary study <i>Pratama, Mochamad Adhiraga; Wahyuningsih, Ni Putu Sri; Putri, Naila Syafiya (Universitas Indonesia)</i>
11.50-12.05	ID160: Organic Waste Management Initiative to Economic Circular Innovation: Pistia stratiotes L. Utilization from Domestic Sewage Treatment Plant at PT Vale Indonesia as Black Soldier Fly Feed Media <i>Butar Butar, Lionie; Maurischa, Saghita Desiyana; Kasmon, Umar; Syafruddin, Syafruddin; Irsyad, Irsyad; Prasetyo, Dwi Darsa (PT Vale Indonesia Tbk)</i>

	Lunch Break
13.30-13.45	<p>ID161: From Waste to Circular Economy Initiative in Mining Industry: Pistia stratiotes L. Utilization of Domestic Wastewater Treatment Plant at PT Vale Indonesia into Organic Fertilizer</p> <p><i>Butar Butar, Lionie; Maurischa, Saghita Desiyana; Kasmon, Umar; Syafruddin, Syafruddin; Irsyad, Irsyad; Prasetyo, Dwi Darsa (PT Vale Indonesia Tbk)</i></p>
13.45-14.00	<p>ID170: Prospects of Implementing the Extended Producer Responsibility (EPR) Concept for Used Laptop in Bandung City, Indonesia</p> <p><i>Chaerul, Mochammad; Indrapta, Haris Faza (Institut Teknologi Bandung)</i></p>
14.00-14.15	<p>ID181: Utilization of Fly Ash and Bottom Ash Coal Fired Power Plant Teluk Balikpapan as Concrete</p> <p><i>Ibnu Arobi, Achmad; Istiqomah Yusriyani, Farida Nurul (PT. PLN Nusantara Power)</i></p>
14.15-14.30	<p>ID183: ANALYSIS OF COMMUNITY EMPOWERMENT IN THE 3R (REDUCE, REUSE, AND RECYCLE) RECOVERY FACILITY PROJECTS IN TABANAN REGENCY</p> <p><i>Agripina, Ni Putu Angieta; Suryadhi, Made Ayu Hitapretiwi; Dwipayanti, Ni Made Utami (Udayana Univesity)</i></p>
14.30-14.45	<p>ID193: Potential of Isolated Bacteria from Coal Ash Dumpsite In Recovery Nickel from Coal Fly Ash</p> <p><i>Lisafitri, Yuni; Kardena, Edwan; Helmy, Qomarudin (Institut Teknologi Bandung)</i></p>
14.45-15.00	<p>ID198: Assessment of Waste Management Practices and Waste Banks in Urban Areas of Indonesia: A Case Study of East Jakarta and Depok City</p> <p><i>Dahlan, Astryd Viandila; Tsaqib, Abiyyu; Renata, Zaneta Rahel; Putri, Kezia Reniel (Universitas Indonesia)</i></p>
	Coffee Break
15.30-15.45	<p>ID222: Solid Waste Management in Indonesia: A Study on Greenhouse Gas Emissions and Reduction Strategies</p> <p><i>Rahman, Aminuddin Nur; Gutama, Hatta; Iresha, Fajri Mulya (Universitas Islam Indonesia)</i></p>

15.45-16.00	<p>ID226: Identification of Electronic Waste (E-Waste) Generation from the Household and Non-Household Sectors in Indonesia and Its Sustainable Management System</p> <p><i>Widyarsana, I Made Wahyu; Nurdiani, Dinda Annisa (Institut Teknologi Bandung)</i></p>
16.00-16.15	<p>ID234: Bantargebang Refuse Derived Fuel Plant Commissioning Result</p> <p><i>Firmansyah, Muhammad Andika (Institut Teknologi Bandung)</i></p>
16.15-16.30	<p>ID236: Microplastic Pollution From Active and Inactive Landfill in Indonesia: Case Study in Leuwigajah and Sarimukti Landfill</p> <p><i>Sembiring, Emenda; Ramadan, Attar Hikmahtiar (Institut Teknologi Bandung)</i></p>
16.30-16.45	<p>ID202: Utilization of Pineapple Peels, Rice-washed Water, and Local Microorganisms Derived from Golden Snails in Biodrying Process of Yard Waste</p> <p><i>Goembira, Fadjar; Putri, Rosehari; Dewilda, Yommi; Noerhidayat, Arief (Univerisyas Andalas)</i></p>

Poster Session

Air Quality Monitoring and Modelling, Emission Inventory, and Control
ID151: Methods in Determining Health Impact of Municipal Solid Waste Incinerators <i>Mayangsari, Miranti (Universitas Pamulang)</i>
ID235: Identifying Contribution of Co-Benefit Technology for Hg Reduction Using Interactive Process Optimization Guidance (iPOG™) in Coal Fired Power Plant <i>Dewi, Kania; Muslimah, Muslimah (Institut Teknologi Bandung)</i>
ID1200: Evaluation of Detached Plume and Total Organic Carbon in The Main Chimney of The Indocement Plant 9-10 Palimanan To Optimize Clinker Production and its Influence on SO ₂ Emissions <i>Alfiansyah, Muziibu; Sitohang, Osvaldo Zubeldia; Indriyanto, Wisnu (PT Indocement Tunggal Prakarsa, Tbk.)</i>
ID1207: The Influence of The Transport of Ozone and Its Precursors on Ozone Accumulation from Anthropogenic Activities in Dki Jakarta <i>Santosa, Fahri M. Adrianto; Lestari, Puji; Iriana, Windy; Kusumaningtyas, Sheila Dewi Ayu</i>
Water, Sanitation, and Hygiene (WASH)
ID121: Kinetic and Isotherm Studies of Household Scale Groundwater Treatment by Continuous Adsorption Processes with Bengkulu Kaolinite Utilization <i>Ratnaningsih, Wahyu; Azizah, Rifka Noor; Rahmah, Nadyatur; Prayogo, Wisnu (Politeknik ATK Yogyakarta)</i>
ID182: Identification of Microorganisms and Microplastic Abundance in Refill Drinking Water from Dispensers <i>Iqbal, Rofiq (Institut Teknologi Bandung)</i>
ID206: Analysis of effectiveness method of measuring the water quality index in river (case study: downstream of Citarum) <i>Ismi, Mutia Annisya; Suharyanto, Suharyanto; Chazanah, Nurul (Institut Teknologi Bandung)</i>
Green Cities, Eco-Industries and Sustainable Infrastructure
ID231: Microclimatic Perceptions and Thermal Comfort among Market Vendors in Jakarta, Indonesia <i>Bermanda, Briana Salsabila; Nastiti, Anindrya; Ufaira, Rifda Marwa; Amir, Sulfikar (Institut Teknologi Bandung)</i>
Waste Water and Resource Recovery
ID141: Phytoremediation Technology Using Aquatic Plants To Reduce Pollutant Parameters In Kali Kadia In Kendari City <i>Rachman, Ranno Marlany; Setiawati, Septa; Edwin, Romy Suryaningrat (Halu Oleo University)</i>
ID221: Alternative Neutralizer of Acid Mine Drainage: Characterization and Application <i>Azizah, Rifka Noor; Awfa, Dion; Narita, Evi Eri; Anugrah, Muhammad Meiko Cahya; Imami, Ahmad Daudsyah; Utami, Resarizki; Army, Edo Kharisma (Institut Teknologi Sumatera)</i>
Advanced Solid Waste Management and Technology
ID155: Examining the Potential of Waste-to-Energy Technology through the PLTSa Bantargebang Pilot Project

<p>Agatha, Natasya Putri; Harvan, Akhmad Audi; Prasetya, Fierza Rizky (<i>PLTSa Bantargebang</i>)</p>
<p>ID215: Evaluation of formal waste reduction facility location compared to recyclable plastic waste generation in Denpasar City, Bali, Indonesia</p> <p><i>Agustina, Elprida; Sembiring, Emenda; Sakti, Anjar Dimara (Institut Teknologi Bandung)</i></p>
<p style="text-align: center;">Environment Conservation, Restoration, Emergency and Rehabilitation</p>
<p>ID105: Ngopi Doeloe: A Reconstruction of Protected Forest Abuse Through Environmentally Conscious Coffee Farmers in Ulubelu District, Lampung Province</p> <p><i>Didih, Muhamad; Gibran Hasibuan, Dimas Alif (PT Pertamina Geothermal Energy Tbk (PGE) Area Ulubelu)</i></p>
<p>ID142: Analysis of Erosion Rate and Erosion Hazard Level of Upper Citarum Watershed, West Java</p> <p><i>Nurhayati, Siti Ai; Royani, Rani Annisa; Marselina, Mariana (Institut Teknologi Bandung)</i></p>