

VIRTUAL EVENT

FINAL PROGRAM

INTERNATIONAL SYMPOSIUM ON ENVIRONMENT AND CHEMICAL ENGINEERING 2024

THEME:

*Establishing a Secure Environment to Elevate
Quality of Life*

19 DECEMBER 2024

WEBSITE <https://tecnoscientifica.com/conference/isece/>

FINAL PROGRAM

THURSDAY 19TH DECEMBER 2024

Time (UTC+8)	Activities	
8:30-8:45	Opening Ceremony & Welcoming Speech by ISECE 2024 Dr. Risky Ayu Kristanti, BRIN, Indonesia	 Meeting link
Keynote Presentations 1 Moderator: Prof. Dr Tony Hadibarata, Curtin University Malaysia		
8:50-9:10	Title: Persistent Halogenated Organic Compounds: Legacy and Emerging Issues in Japan and the Asia-Pacific Region. Prof. Dr. Shin Takahashi, Ehime University, Japan	
9:10-9:30	Title: Mitigation of GHG emissions and nutrient conservation process during waste management strategies to achieve food security. Dr. Ravindran Balasubramani, Kyonggi University, Republic of Korea	
9:30-9:50	Title: Understanding hydroclimatic extremes and their spatial patterns in the U.S. Great Plains. Dr. Gaurav Talukdar, University of Kansas, United States	
9:50-10:10	Title: Bio - mitigation Studies for flue gases via Chemolithotrophs: Insights into Reactor studies and Mechanism Findings. Prof. Dr. Smita Raghuvanshi, Birla Institute of Technology and Science, India	
10:10-10:20	Transition Break (10 minutes)	
Keynote Presentations 2 Moderator:		 Meeting link
10:20-10:40	Title: Alternative Energy for Ukraine: Experience of Closest European Partners and Prospects. Prof. Dr. Sergij Vambol, National Technical University Kharkiv Polytechnic Institute, Kharkiv, Ukraine	
10:40-11:00	Title: Impact of iodide ion concentration and temperature on the enhancement of corrosion inhibition of copper by Ulva lactuca extract in multistage flash distillation systems. Dr. Murat Yilmaz, Osmaniye Korkut Ata University, Turkiye	
11:00-11:20	Title: Dr. Muhammad Bilal, Gdansk University of Technology, Poland	
11:20-11:30	Transition break (5 minutes)	

Presentation: Session 1 Moderator: Dr. Rubiyatno		 Meeting link
11:30-11:45	Title: Enhancing Stormwater Management in Urban Areas Through the Integration of Low-Impact Development Strategies. Assoc. Prof. Dr. Kuok King Kuok, Swinburne University of Technology, Malaysia	
11:45-12:00	Title: Low-cast and biodegradable hydrogel for the selective adsorption of dyes from wastewater. Dr. Sabarish Radoor, Myongji University, Republic of Korea	
12:00-12:15	Title: Design of Rotary Kiln for a Cement Industry Processing 280 tph of Limestone. Dr. Sivamani Selvaraju, University of Technology and Applied Science, Oman	
12:15-12:30	Title: Annual Variability of Chlorophyll-a and Total Suspended Solid as an Indicator of Aquatic Fertility in the Lagoon Waters of the Mangrove Information Center (PIM), Pekalongan. Prof. Dr. Muhammad Zainuri, Universitas Diponegoro, Indonesia	
12:30-13:30	Lunch Break (1 hour)	

Session 2: Parallel A Moderator: Dr. Paran Gani Dr. Setyo Budi Kurniawan		
13:30-13:45	An innovative electrothermal-solar driven interfacial evaporation hybrid system for desalination of high salinity brackish groundwater? Prof. Dr. Abudukeremu Kadier, Xinjiang Technical Institute of Physics and Chemistry, China	
13:45-14:00	Study of A Novel Dropping Nitrification–Cotton-based Denitrification Reactor for Nitrogen Removal from Ammonium-contaminated Groundwater. Dr. Abiyot Kelecha Geletu, College of Natural and Computational Sciences, Ethiopia	
14:00-14:15	Enhancement of biomass and paramylon production of <i>Euglena gracilis</i> under mixotrophic culture using both promoting bacteria and food industrial wastes. Dr. Rubiyatno, University of Yamanashi, Japan	
14:15-14:30	Analysis of Geothermal Powerplant Waste Disposal System in Bedugul Bali Prof. Dr. I Gusti Bagus Wijaya Kusuma, Udayana University, Indonesia	

14:30-14:45	Valorization of the Agroindustrial Waste Against Compressive Strength Test and Flexural Strength Test in Concrete Manufacturing. Dr. Agus M.H. Putranto, Universitas Bengkulu, Indonesia
14:45-15:00	Capillary Water Absorption Performance of Geopolymer Concrete with Aging for Marine Infrastructure Applications. Noor Fifinatasha Binti Shahedan, Curtin University Malaysia
15:00-15:15	A Hybrid Approach to Urban Stormwater Management: Integrating Green Infrastructure and Smart Drainage Systems in Denpasar, Bali. Dr. Ngakan Ketut Acwin Dwijendra, Udayana University, Indonesia
15:15-15:30	Influence of the Reactivity of Rice Husk Ash Geopolymer Microstructure Particles on the Bonding of Alkaline Solutions in Determining the Strength of Geopolymer Concrete. Cut Yusnar, Politeknik Negeri Lhokseumawe, Indonesia
15:30-15:45	Environmental Monitoring of Shallow Marine Waters Using AI and Remote Sensing: A Systematic Literature Review Arief Sartono, National Research and Innovation Agency (BRIN), Bandung Institute of Technology (ITB), Indonesia
Closing ceremony  Meeting link	

Session 2 Parallel B Moderator: Dr. Aris Ismanto	
13:30-13:45	Time Series Analysis 2021 – 2024 of Oceanographic Parameters in Coastal Pekalongan Waters, Central Java Prof. Dr. Denny Nugroho Sugianto, Universitas Diponegoro, Indonesia
13:45-14:00	Reproductive Characteristics and Population Parameters of Octopus cyanea in Tojo Una-una Waters Tegoeh Noegrogo, National Research and Innovation Agency, Indonesia
14:00-14:15	Analysis of Organic Carbon Stock in the Sediment of Mangrove Ecosystems in the Malaka Region at the Indonesia–Timor Leste Border Wanri Sitanggang, Universitas Diponegoro, Indonesia
14:15-14:30	Coastal Vulnerability Index Analysis in The Mangrove Rehabilitation Area, Mojo, Pemalang Dr. Agus Indarjo, Universitas Diponegoro, Indonesia

14:30-14:45	Time Series Analysis on Chlorophyll-a as Eutrophication Indicator Using A Geospatial Approach in Pekalongan Coastal Area Baskoro Rochaddi, Universitas Diponegoro, Indonesia
14:45-15:00	The Variability of the Oceanographic Parameters Post Embankment Construction in Pekalongan Waters, Central Java Afidhah Puspita Widyani, Universitas Diponegoro, Indonesia
15:00-15:15	Distribution of Nitrate and Chlorophyll-a as an Indicator of Aquatic Fertility with 2dimensional hydrodynamic modelling approach in the Lagoon Waters of the Mangrove Information Center (PIM), Pekalongan Gentur Handoyo, Universitas Diponegoro, Indonesia
15:15-15:30	Mapping Coastal Eutrophication Potential (CEP) based on Aqua-MODIS Chlorophyll-a Data in Semarang Bay, Indonesia Heru Nur Krisna, Universitas Diponegoro, Indonesia
15:30-15:45	Antiviral Activities of Marine Sulfated Polysaccharides from Seaweeds: An In-Silico Screening and Molecular Dynamics Approach Azalia Puspa Herida, Universitas Diponegoro, Indonesia
Closing ceremony  Meeting link	

Session 2 Parallel C Moderator: Dr. Edza Aria Wikurendra Dr. Josfirin Undang	
13:30-13:45	Aquatic Dissolved Heavy Metal (Hg, Pb, Cu, Cd) and the Pollution Index at the Karangantu Coastal Water, Banten Bay Prof. Dr. Ir. Sulistiono, IPB University Indonesia
13:45-14:00	Evaluation of the Implementation of The Zero Waste City Program as A Support For Waste Management Efforts in Lebih Village, Gianyar Regency Kadek Diana Harmayani, PhD., Udayana University, Indonesia
14:00-14:15	Environmental Risk Assessment of Bengkala Waste Final Processing Site (Tpa), Buleleng Regency Ida Ayu Rai Widhiawati, Udayana University, Indonesia
14:15-14:30	Microplastic, an Emerging Threat to the Global Seagrass Ecosystems: A Review Audrey Primus Gonsilou, Curtin University Malaysia
14:30-14:45	Microplastics Contents and Distribution in the Sediment of Kaliratu Coastal Waters, Kebumen

	Annisa Dianti Cahyaningtyas, Universitas Diponegoro, Indonesia
14:45-15:00	Bioprospecting Evidence of Polyethylene Degrading Bacteria in the Mojo Pemalang Mangrove Rehabilitation Area Candra Wahyuningsih, Universitas Diponegoro, Indonesia
15:00-15:15	Biodiversity and community structure of phytoplankton in Domas coastal waters, Banten Bay, Indonesia Prof. Dr. Ir. Sulistiono, IPB University Indonesia
15:15-15:30	Changes in Microplastics Accumulation of Water and Sediment in Pekalongan Waters: Insight From 2023-2024 Novia Safinatunnajah, Universitas Diponegoro, Indonesia
15:30-15:45	Pollution Index Mapping based on Total Suspended Solids Concentration Extracted from Sentinel-2 MSI Imagegry in Teluk Awur Coastal Waters, Jepara Indonesia Anis Yasmin Sabila, Universitas Diponegoro, Indonesia
Closing ceremony  Meeting link	

Session 2 Parallel D Moderator: Artnice Mega Fathima, PhD Dr. Annisa Ratnasari		 Meeting link
13:30-13:45	Bio-based Synthesis of Nanoparticles for Heavy Metal Optical Sensing Applications Dr. Swagatha Patra, Indian Institute of Technology Guwahati, India	
13:45-14:00	Microalgae-based CuO nanomaterials for photocatalytic degradation of Ciprofloxacin antibiotic residue Kadupitige Shashikala Dilrukshi Premarathna, Curtin University, Malaysia	
14:00-14:15	Investigation of Congo Red Photodegradation Catalyzed by MOFs ZIF-67@SiO ₂ Composite Under Sunlight Evi Maryanti, University of Bengkulu, Indonesia	
14:15-14:30	Carbon quantum dots surface decorated molybdenum disulfide nanocomposites as fluorescence probes for levofloxacin sensing Yuni Aldriani Lubis, Universitas Sumatera Utara, Indonesia	

14:30-14:45	Pharmaceutical Persistent Pollutants in the Aquatic Environment of Malaysia: Sources, Impacts, and Mitigation Strategies Upeksha Gayangani Jayasekara, Curtin University, Malaysia
14:45-15:00	Effect of Flux and Coke Amount on the Smelting Process of Low-Grade Local Chromite Sand into Ferrochrome Ulin Herlina, Universitas Indonesia and BRIN, Indonesia
15:00-15:15	Entomopathogenic Enzymes as Biocontrol Agents Against Ant Infestations: Mechanisms, Potential, and Application Strategies. Aina Maisarah binti Mohammad Mahathir, Curtin University Malaysia
15:15-15:30	Reduction of Ciprofloxacin Concentration in Water Bodies Using nZVI/MXene Nanocomposites Intania Ika Fairuzi, Institut Teknologi Sepuluh Nopember, Indonesia
15:30-15:45	The effect of Sapindus rarak soapnuts extract on Structural and Morphological of Zn_2SnO_4 Eka Angasa, Universitas Bengkulu, Indonesia
Closing ceremony  Meeting link	