

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 (8:50-10:10) Moderator: Prof. Dr. Tony Hadibarata Prof Dr. Sc. Anindya Wirasatriya, S.T., M.Si., M.Sc		
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) Go to Parallel Session	


Parallel Session A1 10:30-11:15	Parallel Session B1 10:30-11:15	Parallel Session C1 10:30-11:15	Parallel Session D1 10:30-11:15
Break for 15 Minutes (11:15-11:30), Go to Presentation Session 1			

Presentation: Session 1 Moderator: Dr. Rubiyatno Dr. Yulianto Suteja		 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)

Parallel Session A (10:30-11:15 & 13:30-15:00)	
Moderator: Dr. Paran Gani Dr. Setyo Budi Kurniawan	
 Meeting link	
Parallel A1 (10:30-11:15)	
10:30-10:45	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
10:45-11:00	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
11:00-11:15	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
Break 15 minutes, Go to Presentation: Session 1	
Parallel A2 (13:30-14:45)	
13:30-13:45	Analysis of Geothermal Powerplant Waste Disposal System in Bedugul Bali Prof. Dr. I Gusti Bagus Wijaya Kusuma, Udayana University, Indonesia
13:45-14:00	Valorization of the Agroindustrial Waste Against Compressive Strength Test and Flexural Strength Test in Concrete Manufacturing. Dr. Agus M.H. Putranto, Universitas Bengkulu, Indonesia


14:00-14:15	Capillary Water Absorption Performance of Geopolymer Concrete with Aging for Marine Infrastructure Applications. Noor Fifinatasha Binti Shahedan, Curtin University Malaysia
14:15-14:30	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
14:30-14:45	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
Break 10 minutes Go to Keynote Presentation 2 (15:10-16:10)	

Parallel Session B (10:30-11:15 & 13:30-15:00) Moderator: Dr. Aris Ismanto Dr. Putri Adia Utari		 Meeting link
Parallel B1 (10:30-11:15)		
10:30-10:45	Time Series Analysis 2021 – 2024 of Oceanographic Parameters in Coastal Pekalongan Waters, Central Java Prof. Dr. Denny Nugroho Sugianto, Universitas Diponegoro, Indonesia	
10:45-11:00	Reproductive Characteristics and Population Parameters of Octopus cyanea in Tojo Una-una Waters Tegoeh Noegrogo, National Research and Innovation Agency, Indonesia	
11:00-11:15	Analysis of Organic Carbon Stock in the Sediment of Mangrove Ecosystems in the Malaka Region at the Indonesia–Timor Leste Border Wanri Sitanggung, Universitas Diponegoro, Indonesia	
Break 15 minutes, Go to Presentation: Session 1		
Parallel B2 (13:30-15:00)		
13:30-13:45	Coastal Vulnerability Index Analysis in The Mangrove Rehabilitation Area, Mojo, Pemalang Dr. Agus Indarjo, Universitas Diponegoro, Indonesia	
13:45-14:00	Time Series Analysis on Chlorophyll-a as Eutrophication Indicator Using A Geospatial Approach in Pekalongan Coastal Area Baskoro Rochaddi, Universitas Diponegoro, Indonesia	
14:00-14:15	The Variability of the Oceanographic Parameters Post Embankment Construction in Pekalongan Waters, Central Java Afidhah Puspita Widayani, Universitas Diponegoro, Indonesia	

14:15-14:30	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
14:30-14:45	Mapping Coastal Eutrophication Potential (CEP) based on Aqua-MODIS Chlorophyll-a Data in Semarang Bay, Indonesia Heru Nur Krisna, Universitas Diponegoro, Indonesia
14:45-15:00	Antiviral Activities of Marine Sulfated Polysaccharides from Seaweeds: An In-Silico Screening and Molecular Dynamics Approach Azalia Puspa Herida, Universitas Diponegoro, Indonesia
Break 10 minutes Go to Keynote Presentation 2 (15:10-16:10)	



Session 2 Parallel C (10:30-11:15 & 13:30-15:00)		
Moderator: Yusuf Jati Wijaya, S.Kel., M.Si., M.Sc PhD Dr. Josfirin Udang anak Rangga		
Meeting Link		
Parallel C1 (10:30-11:15)		
10:30-10:45	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	
10:45-11:00	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	
11:00-11:15	Microplastic, an Emerging Threat to the Global Seagrass Ecosystems: A Review Audrey Primus Gonsilou, Curtin University Malaysia	
Break 15 minutes, Go to Presentation: Session 1		
Parallel C2 (13:30-15:00)		
13:30-13:45	Environmental Risk Assessment of Bengkala Waste Final Processing Site (Tpa), Buleleng Regency Ida Ayu Rai Widhiawati, Udayana University, Indonesia	
13:45-14:00	Microplastics Contents and Distribution in the Sediment of Kaliratu Coastal Waters, Kebumen Annisa Dianti Cahyaningtyas, Universitas Diponegoro, Indonesia	
14:00-14:15	The Analysis of The Comunal Wastewater Treatment Plant in Wanasari Villlage Denpasar Bali Kadek Diana Harmayani, PhD., Udayana University, Indonesia	

14:15-14:30	Biodiversity and community structure of phytoplankton in Domas coastal waters, Banten Bay, Indonesia Prof. Dr. Ir. Sulistiono, IPB University Indonesia
14:30-14:45	Changes in Microplastics Accumulation of Water and Sediment in Pekalongan Waters: Insight From 2023-2024 Novia Safinatunnajah, Universitas Diponegoro, Indonesia
14:45-15:00	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
Break 10 minutes Go to Keynote Presentation 2 (15:10-16:10)	

Session 2 Parallel D (10:30-11:15 & 13:30-15:00)		 Meeting link
Moderator: Artnice Mega Fathima, PhD Dr. Annisa Ratnasari		
Parallel D1 (10:30-11:15)		
10:30-10:45	Bio-based Synthesis of Nanoparticles for Heavy Metal Optical Sensing Applications Dr. Swagatha Patra, Indian Institute of Technology Guwahati, India	
10:45-11:00	Microalgae-based CuO nanomaterials for photocatalytic degradation of Ciprofloxacin antibiotic residue Kadupitige Shashikala Dilrukshi Premarathna, Curtin University, Malaysia	
11:00-11:15	Investigation of Congo Red Photodegradation Catalyzed by MOFs ZIF-67@SiO ₂ Composite Under Sunlight Evi Maryanti, University of Bengkulu, Indonesia	
Break 15 minutes, Go to Presentation: Session 1		
Parallel D2 (13:30-14:45)		
13:30-13:45	Carbon quantum dots surface decorated molybdenum disulfide nanocomposites as fluorescence probes for levofloxacin sensing Yuni Aldriani Lubis, Universitas Sumatera Utara, Indonesia	
13:45-14:00	Pharmaceutical Persistent Pollutants in the Aquatic Environment of Malaysia: Sources, Impacts, and Mitigation Strategies Upeksha Gayangani Jayasekara, Curtin University, Malaysia	
14:00-14:15	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	

14:15-14:30	Reduction of Ciprofloxacin Concentration in Water Bodies Using nZVI/MXene Nanocomposites Intania Ika Fairuzi, Institut Teknologi Sepuluh Nopember, Indonesia
14:30-14:45	Bioprospecting Evidence of Polyethylene Degrading Bacteria in the Mojo Pemalang Mangrove Rehabilitation Area Candra Wahyuningsih, Universitas Diponegoro, Indonesia
Break 10 minutes Go to Keynote Presentation 2 (15:10-16:10)	

Session 2 Parallel E (10:30-11:15) Moderator: Dr. Adhi Yuniarto		 Meeting link
Parallel E1 (10:30-11:15)		
10:30-10:45	Comparison of Biofouling Bacterial Community on Wood and Concrete Stone Surface at Tanjung Mas Semarang Port Using Edna Metabarcoding Prof Dr. Hermin Pancasakti Kusumaningrum, Diponegoro University, Indonesia	
10:45-11:00	Entomopathogenic enzymes as Biocontrol Agents against Sandfly Infestations: Mechanisms, Potential, and Application Strategies. Aina Maisarah binti Mohammad Mahathir, Curtin University Malaysia	
11:00-11:15	The effect of Sapindus rarak soapnuts extract on Structural and Morphological of Zn ₂ SnO ₄ Eka Angasa, Universitas Bengkulu, Indonesia	
Break 15 minutes, Go to Presentation: Session 1		
Parallel E2 (13:30-14:15)		
13:30-13:45	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	
13:45-14:00	Decolorizing ability of isolated fungi from estuary balikpapan: a preliminary study Rheva Amadea, Faculty of mathematics and natural sciences, Universitas Negeri Jakarta	
14:00-14:15	Preliminary study of crude oil degradation by fungi isolated from contaminated sites in a balikpapan Rahmah Khairunnisa Qanita, Faculty of mathematics and natural sciences, Universitas Negeri Jakarta	

Keynote Presentations 2 (15:10-16:10) Moderator: Dr. Edza Aria Wikurendra Dr. Rubiyatno		 Meeting link
15:10-15:30	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 Yılmaz, Osmaniye Korkut Ata University, Turkiye	
15:30-15:50	Title: Alternative Energy for Ukraine: Experience of Closest European Partners and Prospects. Prof. Dr. Sergij Vambol, National Technical University Kharkiv Polytechnic Institute, Kharkiv, Ukraine	
15:50-16:10	Title: Enzyme-Based Biocatalytic Platforms for Sustainable Environmental Management Dr. Muhammad Bilal, Gdansk University of Technology, Poland	
16:15-16:30	Closing ceremony, Award and Publication Detail  Meeting link	