

PARALLEL SESSION ABBS 2023

Time	Abstract Code	ROOM 1 (OFFLINE) (10 Presenter) Moderator : Prof Dr. Eng. Hendri Widiyandari, MSi Teknisi : Kinkind Raras, SSI.
13.10 – 13.15		PREPARATION
13.15 – 13.35	ABBS23-BE021	Response mechanism of microalgae to sulfur during different photosynthetic carbon fixation stages and strategies for stress mitigation (Hongyan Peng, Yun Huang, Ao Xia, Xianqing Zhu, Xun Zhu and Qiang Liao, School of Energy and Power Engineering, Chongqing University)
13.35– 13.55	ABBS23-BE048	Processing POME into Biogas using cover lagoon technology for sustainable electricity production (Sri Djangkung Sumbogo Murti, Samuel Pati Senda, Dwi Husodo P, Hari Yurismo, Trisaksono Bagus Priambodo, Winda Wulandari and Hens Saputra, BRIN)
13.55 – 14.15	ABBS23-BE052	Utilization of POME for Biomethanol Production through Direct Partial Oxidation of Biomethane from Biogas (Sri Djangkung Sumbogo Murti, Fusia Mirda Yanti, Septina Is Heriyanti, Astri Pertiwi, Arfiana, Novio Valentino, Hens Saputra, Abu Bakar MIS and Muhammad Aziz, BRIN)
14.15-14.35	ABBS23-BHBP029	Start-Up Study for Biohydrogen Production in Continuous Intermittence Magnet Field Reactor (Ting-Wu Ko, Prakaidao Pomdaeng and Chen-Yeon Chu, Master’s Program of Green Energy Science and Technology, Feng Chia University, Taiwan)
14.35 – 14.55	ABBS23-NRE002	Unraveling the Formation of HardCarbon/Sn Composite via Hydrothermal Carbonisation Process (Evangelin Hutamaningtyas, Hande Alptekin, Tom Headen, Ana Sobrido, Patrick Cullen, Maria-Magdalena Titirici and Alan J. Drew, Queen Mary University of London)
14.55-15.25		COFFEE BREAK
15.25-15.45	ABBS23-NRE056	Screen-Printed Carbon Electrode from Coconut Shell- Carbon for Cu (II) Electrochemical Sensor (Nabila Putri Aulia, Fitria Rahmawati, Abu Masykur, Research Group of Solid-State Chemistry and Catalyst, Chemistry Departement, Sebelas Maret University)
15.45-16.05	ABBS23-NRE057	Assessing the Mass-Culture System and Proximate Content of Arthrospira maxima Local for New and Renewable Energy (Dwi silaningsih, Anisa Mariah Bariz, Hilda Farida, Delicia Yunita Rahman, Hani Susanti, BRIN)
16.05-16.25	ABBS23-BHBP019	Biohydrogen production from waste polylactide (PLA) (Shu-Yii Wu, Yu-Hsuan Fang, Zi-Xian Lu, Lin-Han Li, Yu-Hao Cheng and Wei-Zhen Lee, Feng Chia University)
16.25-16.45	ABBS23-NRE061	Electricity Generation in a Microbial Fuel Cell (MFC) using Glucose from Banana (Musa balbisiana Colla) Steam as a Substrate (Venty Suryanti*, Khoirun Nisa Ashar, Abbilah Ero Mahdhani, Vicky Ahava Ferdinansyah, Husna Habib Musthofa, and Inggit Tri Cahyani)
16.45-17.05	ABBS23-BHBP053	Synthesize of Silica Membrane With High Hydrogen Permeability and Water Resistant (Hens Saputra, SD. Sumbogo Murti, Dwi Husodo, Samuel Pati Senda, Ade Andini, Arfiana, Era Restu Finalis, Septina Is Heriyanti and Fusia Mirdayanti, BRIN)
17.05		CLOSING

Time	Abstract Code	ROOM 2 (OFFLINE) (9 presenter) Moderator: Dr. Delicia Yunita Rahman, M.Si. Teknisi: Fat Hana
13.10 – 13.15		PREPARATION
13.15 – 13.35	ABBS23-BHBP059	Investigating the dynamics of microbial communities in biohydrogen production from palm oil mill effluent in relation to crude palm oil production rate: a preliminary study (Sandia Primeia, Arif Darmawan, Zulaicha Dwi Hastuti, Restu Siti Nursa’adah, Era Restu Finalis, Erbert Ferdy Destian, Unggul Priyanto, Eniya Listiani Dewi, BRIN)

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13.35 – 13.55	ABBS23-SEEP060	Sustainable Dissemination Strategies of Biogas Production for Community Empowerment and Energy Literacy in Rural and Small Islands Case Study Manado City, Indonesia (Alicia Amelia Elizabeth Sinsuw, Sangkertadi, Liny Anna Maria Tambajong , Hendrik Suryo Suriandjo, Chen-Yeon Chu)
13.55 – 14.15	ABBS23-BFBP023	Green-Fuel Production Through Co-processing Biomass Derived Oil with Standard Gasoil Feedstock (Rizki Ekananda, Rokhmaturokhman, Wilda Yuni Paninduri and Zaky Al Fatony, PT Pertamina)
14.15 – 14.35	ABBS23-BFBP058	Production of biofuel feedstock from a mass scale photobioreactor cultivation of <i>Navicula</i> sp.: A case study (Rahmania Admirasari, Agus Rifai, Dian P. Dewantb, M. Hanif, Ressay Oktivia, Arif D. Santoso, Joko P. Susanto, Rudi Nugroho, Bayu Prabowo, Yana Meliana, Septhian Marno, Rizka Izdihar, Nelliza Putri, Edo R. Irawadi, Widhatul Latifah, Joko Prayitno, BRIN)
14.35-14.55	ABBS23-BHBP022	On-line observation for dynamic response process of microalgae cell's growth and division in a microfluidic biochip (Peirong Li, Yun Huang, Xun Zhu, Ao Xia, Xianqing Zhu and Qiang Liao, School of Energy and Power Engineering, Chongqing University, Chongqing, China)
14.55-15.25		COFFEE BREAK
15.25-15.45	ABBS23-SEEP020	A mathematical modelling biofilm development and growth for wastewater treatment through synchronous photoautotrophic-heterotrophic synthesis (Ningwei Yang, Yun Huang, Xun Zhu, Ao Xia, Xianqing Zhu and Qiang Liao, Chongqing university)
15.45-16.05	ABBS23-BFBP016	An integrated continuous process for highly efficient sugar production from wheat straw (Zhichao Deng, Ao ning, Zengzhuang Zhang, Yun Huang, Xianqing Zhu, Xun Zhu and Qiang Liao, Chongqing University)
16.05-16.25	ABBS23-BHBP030	Hydrogen Production from Terephthalic Acid-Processing Wastewater by Dark Fermentation with Mixed Culture Inoculum (Mr. Jayen Aris Kriswanto, Ting-Wu Ko, Po-Jui Lai, Chiung-Hao Tseng and Chen-Yeon Chu, Feng Chia University, Taiwan)
16.25-16.45	ABBS23-BFBP062	Heterogeneous Catalyst based on Nickel Modified into Indonesian Natural Zeolite in Green Diesel Production from Crude Palm Oil (Fauzan Ibnu Prihadiyono, Witri Wahyu Lestari, Riandy Putra, Arifti Nur Laily Aqna, Indri Sri Cahyani, Grandprix T M Kadja)
16.45		CLOSING

Time	Abstract Code	ROOM 3 (ONLINE) (14 presenter) Moderator: Prof. Dr. Agus Supriyanto, MSI Teknisi: Shasha Putri
13.10 – 13.15		PREPARATION
13.15 – 13.30	ABBS23-BE001	Location Analysis Selection for Bio-LNG Plant from Palm Oil Mill Effluent (POME) Waste as Renewable Gas Fuel in Indonesia (Edma Nadhif Oktariani and Yuliusman, UI)
13.30 – 13.45	ABBS23-BE025	Numerical Simulation of Cellulosic-Biomass Sedimentation and Mixing Mechanism in A Bionic Intestinal Segmentation Reactor (Chang Zhang, Ao Xia, Yun Huang, Xianqing Zhu, Xun Zhu and Qiang Liao, Chongqing University)
13.45 – 14.00	ABBS23-BE038	Performance of Using Lignin Pyrolysis Gas for Continuous Ethanol Production in Gas-liquid Separation Biofilm Reactor (Zhiyi Deng and Wentian Gan, ChongQing University)
14.00 – 14.15	ABBS23-NRE017	Numerical and experimental study of PEM fuel cells for application of fuel cell electric vehicle performance with different fuel flow rates (Yusuf Dewantoro Herlambang, Wahyu Sulistiyo, Margana, Nanang Apriandi, Muji Setiyo, Wawan Purwanto, Taufik and Jin-Cherng Shyu, Politeknik Negeri Semarang)
14.15 – 14.30	ABBS23-NRE024	Weibull Parameter-Based Study of Seasonal Wind Patterns and Power Potential in Java's Southern Coast (Nurry Widya Hesty, Aminuddin, Silvy Rahmah Fithri, Amiral Aziz and Toha Zaki,

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14.30 – 14.45	ABBS23-NRE035	Incorporating Solar Thermal Power Generation in Coal-Fired Power Stations: A Promising Approach (Vetri Nurliyanti, Afri Dwijatmiko, Bono Pranoto, Nurry Widya Hesty, Silvy Rahmah Fithri, Marlina Pandin, Dionysius Aldion Renata and Prima Tri Wijaya, Research Center for Energy Conversion and Conservation, BRIN)
14.45 – 15.00	ABBS23-NRE036	Investigation of Al-doped Materials, Methods, and Electrolytes: Towards High-Performance Rechargeable Magnesium Batteries (Ana Yuli Komariyah, Markus Diantoro, Ishmah Luthfiyah, Nasikhuddin and Worawat Meevasana, Universitas Negeri Malang)
15.00 – 15.30		COFFEE BREAK
15.30 – 15.45	ABBS23-NRE037	Magnetron sputtering-deposited MnO ₂ : The Impact of Oxygen Flow Addition on Structural and Electrical Properties (Tansya Trisnatika Dewi, Markus Diantoro, Goh Boon Tong and Reza Akbar Pahlevi, Universitas Negeri Malang)
15.45 – 16.00	ABBS23-NRE039	Effect of a 5o Angle Deflector on the Performance of Twin- Hydrokinetic Savonius Turbines with Adjacent Advancing Blades (Tsalatsatul Maulidiyah and Triyogi Yuwono, Institut Teknologi Sepuluh Nopember Surabaya)
16.00 – 16.15	ABBS23-NRE040	Deflector Effect on Side-by-Side Twin-Hydrokinetic Savonius Turbines Performance With Returning Blade Near Canal Wall (Vena Rizky Pusparani and Triyogi Yuwono, Sepuluh Nopember Institute of Technology)
16.15-16.30	ABBS23-SEEP011	Green Symbiosis of Kinmen Sorghum in Taiwan: Anaerobic Fermentation and the Circular Economy Development of Organic Farming (Ching-Chun Lu and Chiu-Yue Lin, Ph.D. Program for Infrastructure Planning and Engineering, Feng Chia University, Taiwan)
16.30-16.45	ABBS23-NRE047	Assessing the Wind Resource Variability for Green Hydrogen Production in Sumba Island (Nurry Widya Hesty, Aminuddin, Nina Konitat Supriatna, Wiwid Mulyadi, Agus Nurrohim and Nona Niode, BRIN)
16.45-17.00	ABBS23-NRE014	Experimental Study of The effect of Inner Side Taper Blades Ratio on The Savonius Turbine Performance (Yusuf Dewantoro Herlambang, Supriyo, Budhi Prasetyo, Nanang Aprinadi, Marliyati, Wawan Purwanto and Fatahul Arifin, Politeknik Negeri Semarang)
17.00-17.15	ABBS23-BFBP028	Dynamic light transmission modeling based on microalgal growth in photobioreactors for high efficiency CO ₂ fixation (Shiyan Ma, Yun Huang, Xianqing Zhu, Ao Xia, Xun Zhu and Qiang Liao, Chongqing university)
17.15		CLOSING

Time	Abstract Code	ROOM 4 (ONLINE) (13 presenter) Moderator: Sandia Primeia, Ph.D. Teknisi: Edi Purwo
13.10 – 13.15		PREPARATION
13.15 – 13.30	ABBS23-BHBP005	Effects of overliming and activated carbon detoxification on inhibitor removal (Techut Promta, Rameshprabu Ramaraj, Rotjapun Nirunsin and Kittikorn Sasujit, Maejo university)
13.30 – 13.45	ABBS23-BHBP007	Biohydrogen Production from Pre-treated Rice Straw by <i>Clostridium acetobutylicum</i> YM1 (Rohindran Krisna, Hafiza Shukor, Maha Mohammad AL-Rajabi, Peer Mohamed Abdul, Ahmad Anas Nagoor Gunny, and Safa Senan Mahmud, Faculty of Chemical Engineering & Technology, Universiti Malaysia, Perlis, Malaysia)
13.45 – 14.00	ABBS23-BHBP026	Morphologies Effect of Zinc Oxide for Hydrogen Production by Photocatalytic Water-Splitting under Visible Light (Garcelina Rizky Anindika, Riki Subagyo, Hasliza Bahruji and Yuly Kusumawati, Institut Teknologi Sepuluh Nopember)
14.00 – 14.15	ABBS23-BHBP032	Potential and Prospects for Utilizing POME as a Bio-hydrogen Feedstock in Indonesia (Yusnitati, Hana Nabila Anindita, Trisaksono Bagus Priambodo, Desy Septriana, Zulaicha Dwi Hastuti and Samuel Pati Senda, BRIN)
14.15 – 14.30	ABBS23-BHBP045	Optimization of Hydrogen Production from Sea Water using the Photovoltaic-Electrolysis Tracking Method (Riski Maulana, L. Hakim, M. Daud, Muhammad,

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		Nurdin, M. Ula and R. Sari, Universitas Malikussaleh)
14.30 – 14.45	ABBS23-BFBP027	AMF and PGPR : A Promising Approach to Boosting the Growth of Biofuel-Producing Plant, <i>Pongamia pinnata</i> in the Nursery (Ragil SB Irianto, Sarah Asih Faulina, Adi Susilo, Enny Widyati and Neo Endra Lelana, BRIN)
14.45-15.00	ABBS23-NRE050	A Multicriteria Decision-Making Approach for the Optimal Site Selection of Hydrogen Production from Wind Power Plant: A Case Study in Indonesia (Aminuddin, Nurry Widya Hesty, Akim Windaru, Dian Galuh Cendrawati, Sumarsono Sudarto and Humiras Hardi Purba, BRIN)
15.00-15.30		COFFEE BREAK
15.30-15.45	ABBS23-NRE046	The Effect of Annealing: Manufactured MXene Morphology Modification on Supercapacitor Performance (Nida Usholihah, Ishmah Luthfiyah, Markus Diantoro, Nasikhuddin, Agus Purwanto and Worawat Meevasana, Universitas Negeri Malang)
15.45-16.00	ABBS23-BRBD010	Green-Synthesis of NiO Nanoparticles using Cd Hyperaccumulator and Its Application as Cu(II) Adsorbent (Abd Mujahid Hamdan, Arief Sardi, Rhyan Prayudi Reksa Munandar, Zahratul Maulida, Dwi Ardiana Arsa, Syafrina Sari Lubis and Khairun Nisah, UIN Ar-Raniry Banda Aceh)
16.00-16.15	ABBS23-BRBD012	Assessment on The Utilization of Cosmetic Plants : An Ethnobotanical Study in Indonesia (Peniwidiyanti, Ida Farida Hasanah and Mulyati Rahayu, BRIN)
16.15-16.30	ABBS23-SEEP006	Optimizing the Subsidized Fertilizer Distribution from Line I Warehouse to Line IV Warehouse at PT Pupuk Sriwidjaya Palembang in Central Java (Indra Permata Kusuma, Erma Suryani and Nurhadi Siswanto, ITS)
16.30-16.45	ABBS23-NRE051	Con-Solvent Aqueous Electrolyte: Establishing the Screening Length and Enhancing CoS ₂ /Ni(OH) ₂ Supercapattery Performance (Markus Diantoro, Ishmah Luthfiyah, Nando Dyas Arya, Herlin Pujiarti and Santi Maensiri, Universitas Negeri Malang)
16.45-17.00	ABBS23-BHBP033	Tracing and optimization of light transmission in microalgae photobioreactors (Kexin Ren, Jingmiao Zhang, Ao Xia, Yun Huang, Xianqing Zhu, Xun Zhu and Qiang Liao, School of Energy and Power Engineering, Chongqing University)
17.00		CLOSING

Time	Abstract Code	ROOM 5 (ONLINE) (13 presenter) Moderator: (BRIN) Teknisi: Moh Arif
13.10 – 13.15		PREPARATION
13.15 – 13.30	ABBS23-BRBD015	Metagenomic Analysis of 16S rRNA Amplicon and Bioleaching of Sulfur Oxidizing Bacteria in Hot Spring Water Sources in Gedong Songo Temple, Semarang, Indonesia (Muhamad Nastain and Endah Retnaningrum, Universitas Gadjah Mada)
13.30 – 13.45	ABBS23-BRBD018	Simple Stage House Design Using Fast-Growing Wood Construction (Ananto Nugroho, Triastuti, Dany Perwita Sari, Agung Sumarno, Eko Widodo and Teguh Darmawan, BRIN)
13.45 – 14.00	ABBS23-BRBD031	Bioprospecting on Alginate lyase as Antibiofilm Agent from Actinomycetes Originated from North Sulawesi, Indonesia: A Preliminary Study (Rike Rachmayati, Nanik Rahmani, Siti Eka Yulianti, Nuryati, Eva Agustriana, Ade Andriani, Urip Perwitasari, Fadila Sirwati, Akhirta Atikana, Puspita Lisdiyanti and Shanti Ratnakomala, BRIN)
14.00 – 14.15	ABBS23-SEEP034	The Research of Environmental Knowledge, Consumer Attitudes and Price Sensitivity Towards Buyer Motivation of Green Skin Care Products (Chun-An Chen, Tien-Yin Chou and Mei-Ling Yeh, Ph.D. Program for Infrastructure Planning and Engineering of Feng Chia University, Taiwan)
14.15 – 14.30	ABBS23-SEEP044	Coconut Fiber Cellulose Acetate Membrane with Polyvinylpyrrolidone (PVP) Additive for Water Purifier (Endah Retno Dyartanti, Adlina Herlian Kuntari Dewi, Maysafa Agung Robani, Ameliya Maharani and Sesanti Maharani, UNS)
14.30 – 14.45	ABBS23-SEEP049	Prospects for the Application of New and Renewable Energy from various aspects : Techno-Socio-Economic, Environmental and Policy

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		(Bakti Wibawa, M. Alfian Santosa, Arif Hidayat and Ridwan Budi Prasetyo, BRIN)
14.45 – 15.00	ABBS23-SEEP004	Techno-Economics Of New Renewable Energy Development In Lombok, Indonesia (Lenggogeni, BRIN)
15.00-15.30		COFFEE BREAK
15.30-15.45	ABBS23-BRBD013	Utilization of Plants As Medicine by Ngalum Tribe in Kotyobakon and Okelwel Villages in Okhika District, Pegunungan Bintang Regency, Papua Province. (Sisilia Ningdana and Beatrix Irene Sanderina Wanma, Ottow Geissler Papua University)
15.45-16.00	ABBS23-NRE041	Effect of Deflector on the Performance of Twin-Hydrokinetic Savonius Turbines with Adjacent Returning Blades in a Side-by-Side Configuration (Siti Umira and Tri Yogi Yuwono, ITS)
16.00-16.15	ABBS23-NRE042	Blockage Effect on the Performance of Twin-Hydrokinetic Savonius Turbines with Opposite Rotation in Tandem Arrangement (Hildan Fahrizal Nur Faurizki and Tri Yogi Yuwono, ITS)
16.15-16.30	ABBS23-NRE043	Blockage Ratio Effect on The Performance of Twin Hydrokinetic Savonius Turbines with Unidirectional Rotation in Tandem Configuration (Savitri Ramadhani and Tri Yogi Yuwono, ITS)
16.30-16.45	ABBS23-NRE055	Theoretical Investigation of the Full-Heusler Fe ₂ MnSi Thermoelectric Properties (A. Nurlaela, M.A. Majidi, D. Nanto, A. Azhar, Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Indonesia.)
16.45-17.00	ABBS23-SEEP009	Reduction of Greenhouse Gas Emissions and Energy Consumption in Wastewater Treatment Plants via Engineering Strategies: A Case Study (Mei Huang Man, Feng Chia University)
17.00		CLOSING