

TECHNICAL PROGRAM

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 1 | 13.45 -15.15

Symposia 1 Renewable Energy System and Regulation

Session Chair : Dr. Nasruddin

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	-	Invited Speaker	Dr.-Ing. Eko Adi Setiawan	Evolution of Electricity Grids	Univ Indonesia	13.45 – 14.00
2	10127	01.03.01	Subhan Petrana, Eko Adhi Setiawan, Muhammad Yunus H. Abbas	Improving Energy Consumption Model with Principal Component Analysis Method for Small Village Community	Universitas Indonesia	14.00 – 14.15
3	11464	01.03.02	Matthias Guenther	Challenges of a 100% renewable energy supply in the Java-Bali	Swiss German University	14.15 – 14.30
4	12445	01.03.03	Arief Murnandityo	Study and Development of Investment Feasibility Application of Renewable Energy-based Power Plant Under Willingness to Pay and Ability to Pay Approach for Revenue Potency	Univ Indonesia	14.30 – 14.45
5	10455	01.03.04	Muhammad Arif Budiyo, Nasruddin Yusuf Nasruddin, Reyza Nawa	Comparative Study of The Monthly Global Solar Radiation Estimation Data in Jakarta	Univ Indonesia	14.45 – 15.00
6	10452	01.03.05	Muhammad Arif Budiyo, Nasruddin Yusuf Nasruddin, Muhammad Hanafi Lubis	Study on the Hourly Solar Radiation in Depok, West Java, Indonesia	Univ Indonesia	15.00 – 15.15
Coffee Break						15.15 – 15.30

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 2 | 13.45-15.15

Symposia 2 Biomass and Biotechnology

Session Chair : Dr. S.D. Sumbogo / Dr. Yuta Sudo

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	004	02.01.01	A.Q. Mairizal, S. Awad, G. Burnens, C.R.Priadi, K. Loubar, M. Tazerout, Y.Andred, S.S.Moersidik, D.M. Hartono	Experimental Study on The Effects of Feedstock Composition on The Properties of Biodiesel	Environnement, IMT Atlantique, 4 Rue Alfred Kastler, CS 20722, 44307, Nantes, France	13.45 – 14.00
2	12596	02.01.01	Nur Hamzah Said	Emission and performance Characteristics of Waste Cooking Oil Biodiesel Blends in a Single Cylinder DI Diesel Engine	Universiti Teknologi Malaysia	14.00 – 14.15
3	12691	02.01.02	Mochammad Ilham Attharik	The Effect of Antioxidant Additives on the Growth of Deposits on the Use of Biodiesel Fuel (B100) at Certain Temperatures	Univ Indonesia	14.15 – 14.30
4	12658	02.01.03	Risya Utaviani Putri	Synthesis of Green Diesel Through Hydrolysis and Hydrodeoxygenation of Waste Cooking Oil Using NiMo/Al ₂ O ₃ Catalyst	Univ Indonesia	14.30 – 14.45
5	12669	02.01.04	Elsa Ramayeni	Synthesis of Partially Hydrogenated of Kemiri Sunan Biodiesel (H-FAME) using Ni Mo/Carbon Catalyst to Increase Oxidation Stability of Biosolar	Univ Indonesia	14.45 – 15.00
6	9532	02.02.05	Haroki Madani, Arie Wibowo, Hermawan Juda wisastra, Elvi Restiawaty, Chrisella Lazarus, Yogi Wibisono Budhi	An eco-friendly preparation of cellulose nano crystals from oil palm empty fruit bunches	ITB	15.00 – 15.15
Coffee Break						15.15 – 15.30

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 3 | 13.45 -15.15

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Prof. Anne Zulfia

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	-	Invited Speaker	Prof. Akhmad Herman Yuwono, Ph.D.	Development of Nanostructured Semiconductor Oxides and Natural Dyes from Indonesian Resources for Dye Sensitized Solar Cell	Univ Indonesia	13.45 – 14.00
2	003	03.04.01	B Munir, B E Prastyo, E Y Muslih	Synthesis and characterization of Cu ₂ ZnSnS ₄ thin film prepared by appropriate non-stoichiometry precursor	Univ Indonesia	14.00 – 14.15
3	13000	03.04.02	Nofrijon Sofyan, Frans Wensten Situmorang, Aga Ridhova, Akhmad Herman Yuwono, Arief Udhiarto	Visible Light Absorption and Photosensitizing Characteristics of Natural Yellow 3 Extracted from Curcuma Longa L. for Dye-Sensitized Solar Cell	Univ Indonesia	14.15 – 14.30
4	12693	03.04.03	Nyayu Aisyah	Exergetic and Economic Analysis of Solar Assisted Heat Pump Using Multi Objective Genetic Algorithm	Univ Indonesia	14.30 – 14.45
5	12992	03.04.04	Erlina Yustianti dan Azwar Manaf	Enhanced Dielectric Properties of Nanocrystalline Ba(1-x)Sr _x TiO ₃ (x=0 and 0.3) Ceramics	Univ Indonesia	14.45 – 15.00
6	010	03.04.05	Sutrasno	Utilization of Super Hydrophobic Membrane Contactor for NO _x Absorption	Univ Indonesia	15.00 – 15.15
Coffee Break						15.15 – 15.30

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 1 | 15.30 -16.45

Symposia 1 Renewable Energy System and Regulation

Session Chair : Session Chair : Dita Trisnawan, M.Arch. STD

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	13131	01.02.01	FX Teddy Badai Samodra	Optimization of Architectural Electroacoustic Design for the Vertical Building Structure of Interior Mezzanine	ITS, Surabaya	15.30 – 15.45
2	13134	01.02.02	FX Teddy Badai Samodra, Ima Defiana, Wahyu Setyawan	Tropical X-Y Transformation Design for Building Courtyard Integrated Photovoltaic	ITS, Surabaya	15.45 – 16.00
3	11588	01.02.03	Inas Nabilah Fauziyyah, Arrad Ghani Safitra, Fifi Hesty Sholihah	Experimental study of slope angle and antireflective glazing	Polytechnic Institute of Surabaya	16.00 – 16.15
4	006	01.02.04	Danny Tirta Winata, Sabrina Nurul Hidayah and Ayomi Dita Rarasati	Sustainable Infrastructure Transportation to Improve Society Wellbeing in Karawang	Univ Indonesia	16.15 - 16.30
5	13156	01.02.05	Hariono Budi Santoso, Sri Paryanto Mursid, Sapto Projogo	Review: Home Energy Management System In A Smart Grid Scheme To Improve The Power Quality Of Power Systems	Politeknik Negeri Bandung	16.30 – 16.45

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 2 | 15.30-16.45

Symposia 2 Biomass and Biotechnology

Prof. Anne Zulfia / Dr. Erlina Yustanti

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	13147	02.02.01	N Sofyan, W.C. Pawito, A Z Syahrial, A Subhan	Performance of Lithium Ferro Phosphate (LiFePO ₄) Doped Vanadium Battery with Active Carbon Bamboo Coating and Carbon Black	Univ Indonesia	15.30 – 15.45
2	011	02.02.02	Nasruddin, Q H Alius, Djubaedah, A Taufan, R G Gurky, and A P Arsyad	Performance and prediction of vaccine carrier using adsorption process and 13x/cac12 composite zeolite as adsorbent	Univ Indonesia	15.45 – 16.00
3	11543	02.02.03	Hermawan Juda wisastra, Ramona Delphine Romian Sitohang, Dodi Ihsan Taufiq, Mardiyati	The Fabrication of Yam Bean (Pachyrhizous Erosus) Starch Based Bioplastics	ITB	16.00 – 16.15
4	11544	02.02.04	Hermawan Juda wisastra, Yusi Siti Syamsiar, Mardiyati	The Effect of Processing Methods on The Improvement of Tensile Properties of Random Ramie Fiber – Reinforced Tapioca Starch Biocomposites	ITB	16.15 - 16.30
5	013	02.02.05	Nasruddin, Djubaedah, R G Gurky, Q H Alius, and A P Arsyad	Design, Development and Performance Prediction of Solar Heater for Regeneration of Adsorbent Chamber	Univ Indonesia	16.30 – 16.45

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 3 | 15.30-16.45

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Dr. Erlina Yustanti / Prof. Anne Zulfia

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	9284	03.06.01	Yuliusman, Rahmatika Alfia Amiliana, Prita Tri Wulandari, Faracitra Akuwalifah Kusumadewi	Selection of Organic Acid Leaching Reagent for Recovery of Zinc and Manganese from Zinc-Carbon and Alkaline Spent Batteries	Univ Indonesia	15.30 – 15.45
2	9477	03.06.02	Yuliusman, Rahmatika Alfia Amiliana, Prita Tri Wulandari, Faracitra Akuwalifah Kusumadewi	Process Optimization and Kinetics for Leaching Zinc and Manganese from Zinc-Carbon and Alkaline Spent Batteries using Citric Acid	Univ Indonesia	15.45 – 16.00
3	11585	03.06.03	B Priyono , P W Winowatan, A Z Syahril, Faizah, A Subhan	Optimizing the Performance of Li ₄ Ti ₅ O ₁₂ /LTO by Addition of Silicon Microparticle in Half Cell Lithium-ion Battery Anode	Univ Indonesia	16.00 – 16.15
4	12676	03.06.04	Rifa Satria	Effect of Nano Si Addition on Synthesized LTO for Lithium Battery Anode	Univ Indonesia	16.15 - 16.30
5	12663	03.06.05	Supriyono	Influence of Anodizing Concentration and Electric Potential on Morphology and Corrosion Behavior of Anodized Magnesium in Seawater Activated Battery	Universitas Brawijaya	16.30 – 16.45

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 1 | 16.45-18.00

Symposia 1 Renewable Energy System and Regulation

Session Chair : Filbert Hilman Juwono, Ph.D.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	11957	01.01.01	Rizky Esa Respati, Mukhsinun Hadi Kusuma, Nandy Putra	A New Cascade Solar Desalination System Integrated with Thermosyphon	Univ Indonesia	16.45 – 17.00
2	11612	01.01.02	Zulkarnain Jalil, Adi Rahwanto, Erfan Handoko, Akhyar Hasan	The Use of Silica from Beach Sand as Catalyst in Magnesium based Hydrides for Hydrogen Storage Materials	Syiah Kuala University, Aceh	17.00 – 17.15
3	12123	01.01.03	Warjito, Dendy Adanta, Budiarso, and Aji P Prakoso	Effect of Bucket Number on Breastshot Waterwheel Performance	Univ Indonesia	17.15 – 17.30
4	9527	01.01.04	Pujo Satrio, Reisa Adityo, Rahmat Agung, Yulianto Sulistyo Nugroho	Experimental Study of Thermal Radiation from Jet Flame	Univ Indonesia	17.30 – 17.45
5	11521	01.01.05	Zulkarnain Jalil, Adi Rahwanto, Akhyar Hasan, Erfan Handoko	MgH ₂ -SiC Based Hydrogen Storage Material Prepared by Reactive Mechanical Alloying	Syiah Kuala University, Aceh	17.45 – 18.00

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 2 | 16.45-18.00

Symposia 2 Biomass and Biotechnology

Session Chair : Dr. Setiadi / Dr.-Ing. Eko Adhi Setiawan, S.T., M.T.

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	11204	02.08.01	Milanti Okta Ruliza, Tuty Emilia Agustina, Risfidian Mohadi	Impregnation of Activated Carbon-TiO ₂ Composite and Its Application in Photodegradation of Procion Red Synthetic Dye in Aqueous Medium	Univ. Sriwijaya	16.45 – 17.00
2	12698	02.08.02	Venitalitya Alethea Sari Augustia, R Abdul Djalal, Bachrun Sutrisno, Arif Hidayat	Kinetic Study of Free Fatty Acid in Palm Fatty Acid Distillate (PFAD) over Sugarcane Bagasse Catalyst	Univ Islam Indonesia	17.00 – 17.15
3	11712	02.08.03	Nuraini Raman Yusuf, Suzana Yusup, Nik Ruzaimah Kamil	Surface Functionalization and Characterization of Fatty Acids Coated Iron Oxide	Universiti Teknologi Petronas Malaysia	17.15 – 17.30
4	014	02.08.04	Djubaedah, Wulandari, Nasruddin	Preliminary Study of Natural Zeolite from Bayah for Solar Powered Cooling Application	Univ Indonesia	17.30 – 17.45
5	9529	02.08.05	Namira Widiaksana, Andara Asifa Yudiana, Yulianto Sulisty Nugroho	Analysis of effectiveness of oil spill recovery using a disk-type oil skimmer at laboratory scale	Univ Indonesia	17.45 – 18.00

DAY 1 PARALLEL SESSIONS

Tuesday, October 3rd 2017 | Krisan Room 3 | 16.45-18.00

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Dr. Yuta Zudo / Prof. Anne Zulfia

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12715	03.01.01	Slamet, Muhammad Triyogo Adiwiwono	Synthesis of ZnO Nanoparticles and Its Stability on Palm Oil-Based Primary Alkyl Sulphates Solution as Nanofluids for Detergent Application	Univ Indonesia	16.45 – 17.00
2	13181	03.01.02	K Mulia, D Adam, E Krisanti, I Zahrina	Green solvent extraction of palmitic acid from palm oil using betaine-based natural deep eutectic solvents	Univ Indonesia	17.00 – 17.15
3	13195	03.01.03	Mega Ayu Yusuf	Environmental Impact Analysis of Sago Starch : Life Cycle Assessment (LCA) Perspective	IPB, Bogor	17.15 – 17.30
4	12697	03.01.04	Silmina Adzhani, Ahmad Maksum, Sulaksana Permana and Johnny Wahyuadi Soedarsono	The Influence of Palm Kernel Shell Mass Ratio as a Reducing Agent in The Lateritic Nickel Ore Carbothermic Reduction Process	Univ Indonesia	17.30 – 17.45
5	12709	03.01.05	Muhammad Azif, Ahmad Maksum, Delfiendra and Johnny Wahyuadi Soedarsono	Effect of Pellet Size Addition on the Selective Reduction of Limonite Ore from Southeast Sulawesi	Univ Indonesia	17.45 – 18.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 1 | 08.00-09.15

Symposia 1 Renewable Energy System and Regulation

Session Chair : Dr. Matthias Guenther / Filbert Hilman Juwono, Ph.D.

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	12609 / 13059	01.04.01	Muswar M, M Idrus Alhamid, Nasruddin, Dieter R, M Zaky S, Edi Marzuki, Nyayu Aisyah	Design of One Combination Package Between Heat Exchangers and Heater For Organic Rankine Cycle Power Plant	Univ Indonesia	08.00 – 08.15
2	12720	01.04.02	Danang Arengga	SPEKTRA Fast and Smart Software For Renewable Energy Management	Univ Indonesia	08.15 – 08.30
3	12605	01.04.03	Nasruddin, Syaiful Nasution	Exergy Analysis and Exergoeconomic Optimization of PLTP Binary Cycle System Using Multi-objective Genetic Algorithm	Univ Indonesia	08.30 – 08.45
4	10447	01.04.04	Anhar Riza Antariksawan, Surip Widodo, Mulya Juarsa, Dedy Haryanto, Mukhsinun Hadi Kusuma, Nandy Putra	Numerical Study on Natural Circulation Characteristics in FASSIP-02 Experimental Facility Using RELAP5 Code	BATAN	08.45 – 09.00
5	12733	01.04.05	Yuni Rahmawati, Danang Arengga, Arif Nur Afandi, Siti Sendari, Toru Matsumoto, Indriyani Rachman	Developing a Simulator of Renewable Energy as a Learning Media of Energy Conversion	Univ Negeri Malang	09.00 – 09.15
Coffee Break						09.15 – 09.30

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 2 | 08.00-09.15

Symposia 2 Biomass and Biotechnology

Session Chair : Dr. Erlina Yustanti

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	001	02.03.01	Maria de Fatima Salgado, Adekunle Moshood Abioye, Muhammad Mat Junoh, João Alberto Porto Santos, Farid Nasri Ani	Preparation of Activated Carbon from Babassu Endocarp under Microwave Radiation by Physical Activation	Maranhao State University, Brazil	08.00 – 08.15
2	11509	02.03.02	Agung Satrio Wibowo, Nasruddin	Utilization of Waste Heat from Separation Process of Ulubelu's Geothermal Power Plant by Implementing an Absorption Refrigeration System (ARS) to Improve Plant Performance	Univ Indonesia	08.15 – 08.30
3	11496	02.03.03	Kat Sheng, Allen Lau, Muhammad Roil Bilad, Noridah Binti Osman	Sequencing Batch Membrane Photobioreactor for Secondary Effluent Polishing using Native Microalgae	Univeristi Teknologi Petronas, Malaysia	08.30 – 08.45
4	11579	02.03.04	Urip Riyadi, G. S. Boedi Andari Kristanto, Cindy Rianti Priadi	Utilization of Steel Wool as Removal Media of Hydrogen Sulfide in Biogas	Univ Indonesia	08.45 – 09.00
5	9309	02.03.05	Yuswan Muharam, Fiqi Giffari	Techno-Economic Feasibility of Flare Gas Utilization using Adsorbed Natural Gas	Univ Indonesia	09.00 – 09.15
Coffee Break						09.15 – 09.30

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 3 | 08.00-09.15

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Dr. Setiadi / Dr. Mega Yusuf

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	12576	03.04.01	Yuni Dwi Lestari, Praswasti Pembangun Dyah Kencana Wulan	The Effect of Oxidative Heat Treatment towards the Preparation of Stainless Steel 304 and 316 as the Effective Catalytic Substrates Growth of Carbon Nanotube	Univ Indonesia	08.00 – 08.15
2	12721	03.04.02	Asep Ridwan Setiawan	The Influence of Titanium Alloying and Co ₃ O ₄ Coating on the Oxidation Behavior of Fe-20Cr Ferritic Stainless Steels for SOFC Interconnects	ITB	08.15 – 08.30
3	13190	03.04.03	Ryan Adrian Rahardi, Retno Maharsi, Ferry Iskandar, Hary Devianto, Yogi Wibisono Budhi	Catalytic Oxidation of Benzene Using Nano-CuO/ γ -Al ₂ O ₃ and Commercial Catalysts	ITB	08.30 – 08.45
4	12740	03.04.04	Slamet, Khalil Gibran, Muhammad Ibadurrahman	Effect of Electrolyte Type on The Morphology and Crystallinity of TiO ₂ Nanotubes From Ti-6Al-4V Anodization	Univ Indonesia	08.45 – 09.00
5	10611	03.04.05	Afiza Ahmad Fairuzi	Catalytic Degradation of Methylene Blue Using Silver Nanoparticles Synthesized from Imperata Cylindrica Aqueous Extract	University Teknologi MARA, Malaysia	09.00 – 09.15
Coffee Break						09.15 – 09.30

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Palma Room | 08.00-09.15

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Prof. Ahmad H. Yuwono

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12603	03.05.01	Prita Tri Wulandari, Yuliusman, Rahmatika Alfia Amiliana, Faracitra Akuwalifah Kusumadewi	Acquisition of Co metal from spent lithium-ion battery using emulsion liquid membrane technology and emulsion stability test	Univ Indonesia	08.00 – 08.15
2	12684	03.05.02	A Z Syahril, F Aldy, B Pryiono, A Subhan	Enhanced Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ /Sn Composites Anode via Sol-Hydrothermal Method for Lithium Ion Batteries	Univ Indonesia	08.15 – 08.30
3	11607	03.05.03	Muhammad Amin, Nandy Putra	Thermal Properties of Paraffin based Nano-Phase Change Material as Thermal Energy Storage	Univ Indonesia	08.30 – 08.45
4	11956	03.05.04	Ainur Rosidi, Nandy Putra, Mukhsinun Hadi Kusuma	Effect of Graphene Nano-Fluid on Heat Pipe Thermal Performance for Passive Heat Removal in Nuclear Spent Fuel Storage Pool	Univ Indonesia	08.45 – 09.00
5	12606	03.05.05	Bambang Ariantara, Nandy Putra, Sugeng Supriadi	Battery Thermal Management System using Loop Heat Pipe with Sintered Lotus-Type Porous Copper Capillary Wick	Univ Indonesia	09.00 – 09.15
Coffee Break						09.15 – 09.30

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 1 | 09.30-10.45

Symposia 1 Renewable Energy System and Regulation

Session Chair : Dr. S.D. Sumbogo / Dr. Sary Awad

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12670	01.05.01	Bambang Heru Susanto, Dimas Farlyansyah Pratama, Elsa Ramayeni	Application of Modified Microwave Polyol Process Method on NiMo/C Nanoparticle Catalyst Synthesis for Hydrogenated Biodiesel Production	Univ Indonesia	09.30 – 09.45
2	9398	01.05.02	Arif Hidayat	Biodiesel Production from Rice Bran Oil over Modified Natural Zeolite Catalyst	Univ Indonesia	09.45-10.00
3	12984	01.05.03	Setiadi, Fairuz Nawfal Hamid	Synthesis of Biodiesel from Palm Oil with Dimethyl Carbonate and Methanol as Reagent Variation Using KOH and Lipase Enzyme Catalyst	Univ Indonesia	10.00 – 10.15
4	12980	01.05.04	Sella Lametta	Identification Characteristics and Effectiveness of Restructured Product of Snakehead Fish (Channa Striata) with Transglutaminase Enzyme Addition	Univ Indonesia	10.15 – 10.30
5	10543	01.05.05	Mulya Juarsa, Anhar Riza Antariksawan, Mukhsinun Hadi Kusuma, Dedy Haryanto, Nandy Setiadi Djaya Putra	Estimation of Natural Circulation Flow Based on Temperature in the FASSIP-02 Large-Scale Test Loop Facility	BATAN	10.30 – 10.45

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 2 | 09.30-10.45

Symposia 2 Biomass and Biotechnology

Session Chair : **Prof.** Farid Nasir Ani / Nofrijon Sofyan, Ph.D.

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	12494	02.07.01	Nasruddin A. Abdullah, Nandy Putra, Imansyah Ibnu Hakim, Raldi A. Koestoer, Amaranggana Novianti	Influence of Temperature on Conversion of Plastics Waste (Polystyrene) to Liquid Oil Using Pyrolysis Process	Univ Indonesia	09.30 – 09.45
2	11580	02.07.02	Dwita Fitriani Wijayanti	Effect of Addition of Fat Oil and Grease (FOG) to Performance of Dry Anaerobic Digestion Food Waste Reactor	Univ Indonesia	09.45-10.00
3	12754	02.07.03	Maharani Suci, Rita Arbianti, Heri Hermansyah	LIPASE PRODUCTION FROM Bacillus subtilis WITH SUBMERGED FERMENTATION USING WASTE COOKING OIL	Univ Indonesia	10.00 – 10.15
4	12686	02.07.04	Resi Levi Permadani	Utilization of Waste Cooking Oil As Raw Material For Synthesis of Methyl Ester Sulfonate (MES) Surfactant	Univ Indonesia	10.15 – 10.30
5	12737	02.07.05	Wanda Ediviani, Cindy Rianti Priadi, Setyo Sarwanto Moersidik	Nutrient Recovery from End-of- Waste of Energy Recovery Process (Liquid Digestate) using Ornamental Aquatic Macrophytes in a Constructed Wetland System	Univ Indonesia	10.30 – 10.45

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 3 | 09.30-10.45

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

SC : Prof. Farid Nasir Ani / Elsa Krisanti, Ph.D.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12566	03.08.01	Stephanie Rawi, Muhammad Amin, Eny Kusrini, Nandy Putra	Characterization of Shape- stabilized Phase Change Material using Beeswax and Functionalized Multi-walled Carbon Nanotubes	Univ Indonesia	09.30 – 09.45
2	11660	03.08.02	Bambang Marhaendra Djaja, Muhammad Zainuddin Lubis, Herika Muhammad Taki	Signal Detection for Identification Energy and Behaviour of Male Dolphin Bottle Nose (Tursiops Aduncus) using NTD Model	Univ Indonesia	09.45-10.00
3	9524	03.08.03	Andara Asifa Yudiana, Namira Widiaksana, Yulianto Sulistyono Nugroho	Effect of Temperature and Type of Dispersant on Treating Oil Spills	Univ Indonesia	10.00 – 10.15
4	11566	03.08.04	Dhinny Dwi Putri, Afifa Husna, Hans Kristian Irawan, Manabu Miyamoto, Shigeyuki Uemiyama, Yogi Wibisono Budhi	Dynamic Operation of Water Gas Shift Reaction over Fe ₂ O ₃ /Cr ₂ O ₃ /CuO Catalyst in Pd/Al ₂ O ₃ Membrane Reactor	ITB	10.15 – 10.30
5	9530	03.08.05	Reisa Adityo, Rahmat Agung, Pujo Satrio, Yulianto Sulistyono Nugroho	Measurement of thermal radiative heat transfer using a multi-axis radiometer	Univ Indonesia	10.30 – 10.45

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Palma Room | 09.30-10.45

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Dr. Sary Awad / Dr. Erlina Yustanti

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12677	03.01.01	Fitri Amalia, Rionelli Ghaudenson, Setijo Bismo, Eva Fathul Karamah	Disinfection of Escherichia Coli Bacteria using Combination of Ozonation and Hydrodynamic Cavitation Method with Venturi Injector	Univ Indonesia	09.30 – 09.45
2	12635	03.01.02	Setiadi, Famila Anindia Putri	Manufacture of Solid Soap Based on Crude Papain Enzyme and Antioxidant From Papaya (Carica Papaya)	Univ Indonesia	09.45-10.00
3	12177	03.01.03	Ardita Rizky Putri Arcanggi, Prasitiwi Arum, Ahmad Rafif, Rita Arbianti, Adinda Eka Kemala	Tapioca and Tofu Waste Utilization to Produce AA, DHA, and EPA	Univ Indonesia	10.00 – 10.15
4	12486	03.01.04	Astrid Miranti, Rita Arbianti, and Tania Surya Utami	Effect of pH, Temperature and Medium Agitation Rate in Production of AA, DHA, EPA from Aspergillus oryzae with Submerged Fermentation	Univ Indonesia	10.15 – 10.30
5	13157	03.01.05	Johnny Wahyuadi Soedarsono, Muhammad Nafies Shihab and Ahmad Maksu	Study of Curcuma Xanthorrhiza Extract as Green Inhibitor for API 5L X42 Steel in 1M HCl Solution	Univ Indonesia	10.30 – 10.45

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 1 | 10.45-12.15

Symposia 1 Renewable Energy System and Regulation

Session Chair : Prof.Dr. Ir. Adi Surjosatyo, M.Eng. / Dr.-Ing Eko Adhi Setiawan, S.T.M.T.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12714	01.06.01	Edy Susanto	The Use of Perforated Floor Plates to Reduce Speed and Uniformity of Flow in a Room Chamber Test Household Refrigerator	Univ Indonesia	10.45 – 11.00
2	12644	01.06.02	Syahrul Muhammadiyah, Adi Winarta, Nandy Setiadi Djaya Putra	Experimental Study on Heat Pipe Heat Exchanger Multi Fin for Energy Efficiency Efforts in Operating Room Air System	Univ Indonesia	11.00 – 11.15
3	13106	01.06.03	Edy Susanto, M Idrus Alhamid, Nasruddin, Budi hardjo	An Experimental Investigation into the Effect of Thermostat Setting on Energy Consumption of Household Refrigerators	Univ Indonesia	11. 15 – 11.30
4	13037	01.06.04	Adi Winarta	A Preliminary Investigation on Visualization of Oscillating Heat Pipe with Non Destructive Test	Univ Indonesia	11.30 – 11.45
5	9504	01.06.05	Iwan Setyawan, Nandy Putra, Imansyah Ibnu Hakim	Experimental Study of Hybrid Loop Heat Pipe using Pump's Assistance for High Heat Flux System	Univ Indonesia	11.45 – 12.00
6	13159	01.06.06	Erol Efraim Kaban, Ahmad Maksum, Sulaksana Permana, Johny Wahyuadi Soedarsono	Utilization of Secang Heartwood (Caesalpinia Sappan L) As A Green Corrosion Inhibitor on Carbon Steel (API 5L Gr. B) in 3.5% NaCl Environment	Univ Indonesia	12.00 – 12.15
Lunch Break & Praying Time						12.15 – 13.15

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 2 | 10.45-12.15

Symposia 2 Biomass and Biotechnology

Session Chair : Prof.Dr. Ir. Adi Surjosatyo, M.Eng / Dr. Setiadi

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12655	02.03.01	Yanuar Yanuar, Winda Wulandari, Kurniawan Teguh Waskito, Sealtial Mau	Effect of Coconut Fiber Suspensions on Drag Reduction in Circular Pipe	Univ Indonesia	10.45 – 11.00
2	12548	02.03.02	Muhammad Anshar Anshar	Pyrolysis Characteristic of Rice Husk with Plastic Bag as Fuel For Power Generation by Using A Thermogravimetric Analysis	Politeknik Negeri Ujung Pandang	11.00 – 11.15
3	9300	02.03.03	Cindy Dianita, Mahahera Bastinov Putri Al'Magistra, Asep Handaya Saputra	Estimating Greenhouse Gas Emission Level of A Natural Gas Transmission Pipeline From Point A To B In West Java Based On INGAA And IPCC Guidelines	Univ Indonesia	11.15 – 11.30
4	12624	02.03.04	Suhartono	The Properties of Vegetable Cooking Oil as a Fuel and Its Utilization in a Modified Pressurized Cooking Stove	Univ. Jenderal Ahmad Yani	11.30 – 11.45
5	12560	02.03.05	Fatma Sari, Bambang Heru Susanto, Setijo Bismo	The Potential Utilization of Coconut Oil and Palm Oil as Raw Materials of Alkanolamide under Alkaline Conditions	Univ Indonesia	11.45 – 12.00
6	10148	02.03.06	Nofrijon Sofyan, Muhammad Muhammad, Akhmad Herman Yuwono, Arief Udhiarto	Characteristics of Nano Carbon Pyrolyzed from Table Sugar and Sucrose for Pt-less DSSC Counter Electrode	Univ Indonesia	12.00 – 12.15
Lunch Break & Praying Time						12.15 – 13.15

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 3 | 10.45-12.15

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Dr. Yuta Sudo / Dr. S.D. Sumbogo

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	11443	03.04.01	Ulina Ayu Pangesti	Adsorption Capacity Study of Ethanol-water Mixture for Zeolite, Activated Carbon, and Polyvinyl Alcohol	Univ Indonesia	10.45 – 11.00
2	12711	03.04.02	Rangga Ega Santoso	The Effectiveness of Hydrolysis and Fermentation Cerbera manghas into Bioethanol Use a Variety of Levels of H ₂ SO ₄ and Zymomonas Mobilis	Universitas Negeri Malang	11.00 – 11.15
3	9525	03.04.03	Luthfi Rizki Perdana, Nadhira Gilang Ratnasari, Pither Palamba, Nasruddin, Yulianto Sulistyo Nugroho	Hydrophilic and Hydrophobic Characters of Peat	Univ Indonesia	11.15 – 11.30
4	12636	03.04.04	Setiadi, Nurul Hidayah	The Effect of Papain Enzyme Dossage on the Modification of Egg-yolk Lecithin Emulsifier Product through Enzymatic Hydrolysis Reaction	Univ Indonesia	11.30 – 11.45
5	13158	03.04.05	Muhammad Fikri Azmi, Ahmad Maksum, and Johnny Wahyuadi Soedarsono	Study of Bawang Dayak (Eleutherine Americanna Merr) Extract as Eco-friendly Corrosion Inhibitor for Pipeline API 5LX42 in 1M HCl	Univ Indonesia	11.45 – 12.00
6	9505	03.04.06	Haroki Madani, Arie Wibowo, Hermawan Judawisastra, Elvi Restiawaty, Chrisella Lazarus, Yogi Wibisono Budhi	One-step Synthesis of Cellulose Nanocrystals from Oil Palm Empty Fruit Bunches	ITB	12.00 – 12.15
Lunch Break & Praying Time						12.15 – 13.15

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Palma Room | 10.45-12.15

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Prof. Nandy Putra / Dr.-Ing. Eko Adhi Setiawan, S.T., M.T.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	11510	03.08.01	Irma Amryana Suhartiwi, Zamiul, Ainussalbi Al Ikhsan, Ali Fitrah, Arman Faslih, Muhammad Zakaria Umar	Identification of Local Wisdom of Bajo Society in Making Roof of Nipah Leaf (Nypa Fructicans Wurmb)	Universitas Haluoleo, Kendari	10.45 – 11.00
2	13161	03.08.02	F M Abdul Aziz, S N Surip, N N Bonnia, K A Sekak	The Effect of Pineapple Leaf Fiber (PALF) Incorporation Into Polyethylene Terephthalate (PET) on The Properties Via Electrospinning Method	Universiti Teknologi Mara, Malaysia	11.00 – 11.15
3	7508	03.08.03	Muhammad Zakaria Umar, Arman Faslih, Mazhfia Umar, Hapsa Rianty, Muhammad Arsyad, Arief Saleh Sjamsu	Age Wearing The Roof of Nipah Leaf (Nypa Fructicans Wurmb) Soaked in Sea Water	Universitas Haluoleo, Kendari	11.15 – 11.30
4	10149	03.08.04	Nofrijon Sofyan, Audiya Dewi Rachmawati, Anne Zulfia	Use of Carbon Pyrolyzed from Coconut Shell in the LiFePO ₄ /V/C Composite for Lithium Ion Battery Cathode Cathode	Univ Indonesia	11.30 – 11.45
5	10147	03.08.05	Nofrijon Sofyan, Prita Sekaringtyas, Anne Zulfia	Characteristics of Carbon Pyrolyzed from Rice Husk in the LiFePO ₄ /V/C Composite Used for Lithium Ion Battery Cathode	Univ Indonesia	11.45 – 12.00
6	10743	03.08.06	Setiadi, Ervandy Haryoprawironoto	Product distribution from catalytic conversion of bio-oil from biomass pyrolysis Using B ₂ O ₃ /γ-Al ₂ O ₃ catalyst	Univ Indonesia	12.00 – 12.15
Lunch Break & Praying Time						12.15 – 13.15

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 1 | 13.15 – 14.45

Symposia 1 Renewable Energy System and Regulation

Session Chair : Dr.-Ing. Eko Adhi Setiawan, S.T., M.T. / Prof. Ahmad H. Yuwono

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12597	01.07.01	Agus Siswanto	Grid Connected Stability Improvement of Penetration Wind Turbine Using Fuzzy Logic Controller PSS	Univ Hasanuddin	13.15 – 13.30
2	13191	01.07.02	Adi Surjosatyo, Budiman R. Saragih, Bagus Rizky Dewantoro, Filbert Nainggolan, Wahyu Dwianto, Teguh Darmawan	Selecting and Testing of Wind Turbine Blades of the Local-Wood Growing Fastly on Local Wind Characteristics	Univ Indonesia	13.30 – 13.45
3	009	01.07.03	Yuswan Muharam	Process Optimization of Microalgae Cultivation in a Bubble-Column Photobioreactor	Univ Indonesia	13.45 – 14.00
4	12734	01.07.04	Rizal Ibnu Syifa, Setyo Nugroho	Experimental Study on Horizontal Axis Wind Turbine with Splitted Winglets	Power Plant Engineering EEPIS	14.00 – 14.15
5	12739	01.07.05	Tri Bimantara Satriyo, Hendrik Elvian Gayuh Prasetya, Pri ma Dewi Permatasari	Modeling of Turbine Follow Control with IMC Tuning Method Based on HYSYS	ITS, Surabaya	14.15 – 14.30
6	015	01.07.06	Sentot Novianto, Raldi Koestoer, Agus S. Pamitran	Heat Transfer Coefficient of Near Boiling Single Phase Flow with Propane in Horizontal Circular Micro Channel	Univ Indonesia	14.30 – 14.45
Coffee Break & Praying Time						14.45 – 15.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 2 | 13.15-15.00

Symposia 2 Biomass and Biotechnology

Session Chair : Dr. Sary Awad / Prof. Adi Surjosatyo

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12771	02.07.01	Hadi Wahyudi	Numerical Study of Biomass Gasification in 3D Full-Loop Circulating Fluidized Bed Using Eulerian Multi-Fluid Approach	Sultang Ageng Tirtayasa University	13.15 – 13.30
2	13154	02.07.02	Hafid Dafiqurrohman, Felly Rihlat Gibran Simatupang, Adi Surjosatyo, Andika Akbar Hermawan, Muhammad Barryl Anggriawan, Naufal Riyadhhi Yusuf, Samsul Ma'arif	Secondary Air Intake Optimization on Fixed Bed Downdraft Reactor Type Rice Husk Biomass Gasification	Univ Indonesia	13.30 – 13.45
3	12646	02.07.03	Dijan Supramono, Muhammad Alfinuha Nabil, Setiadi Setiadi, Mohammad Nasikin	Effect of Feed Composition of Co-pyrolysis of Corn cobs-Polypropylene Plastics on Mass Interaction Between Biomass Particles and Plastics	Univ Indonesia	13.45 – 14.00
4	12706	02.07.04	Nadia Tuada Afnan	Utilization of Sesame Seed Sprout Biomass as Lipase Source to Hydrolyze Palm Oil	Univ Indonesia	14.00 – 14.15
5	12621	02.07.05	Aji Agraning Bawono	Tariff Calculating Model for Natural Gas Transportation through Open Access Transmission Pipeline with Multi Tariff System to Produce Competitive Gas Prices to Substitute Clean Energy Source	Univ Indonesia	14.15 – 14.30
6	11619	02.07.06	Aloysius Damar Pranadi	An Economic Analysis from Two Projects of Solar Water Pumping System (SWPS) in Banyumeneng Village, Yogyakarta	Univ Indonesia	14.30 – 14.45
Coffee Break & Praying Time						14.45 – 15.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 3 | 13.15-14.45

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Elsa Krisanti, Ph.D. / Dr. Setiadi

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	9978	03.08.01	Astrini Pradyasti, Adinda Sofura Azhariyah, Setijo Bismo	Preparation of Zinc Oxide Catalyst with Activated Carbon Support for Ozone Decomposition	Univ Indonesia	13.15 – 13.30
2	12305	03.08.02	Devi Permata Sari, Tania Surya Utami, Rita Arbianti, and Heri Hermansyah	The Effect of Centrifugation Speed and Chitosan-Sodium Tripolyphosphate Ratio Toward The Nanoencapsulation of Sambiloto (<i>Andrographis paniculata</i>) for The Formulation of Hepatitis B Drug	Univ Indonesia	13.30 – 13.45
3	10078	03.08.03	Adinda Sofura Azhariyah, Astrini Pradyasti, Setijo Bismo	Preparation and Characterization of Copper Oxide Catalyst with Activated Carbon Support for Ozone Decomposition in Industrial Environment	Univ Indonesia	13.45 – 14.00
4	12694	03.08.04	Dwipuji Rahayu, Ahmad Maksum, and Johnny Wahyuadi Soedarsono	Effects of Reduction Time on Carbothermic Reduction of Lateritic Nickel Ore Using Palm Kernel Shell as Green Reducing Agent	Univ Indonesia	14.00 – 14.15
5	12696	03.08.05	Risty Hidayanti, Ahmad Maksum, and Johnny Wahyuadi Soedarsono	Study on The Effects of Temperature in the Carbothermic Reduction Laterite Ore Using Palm Kernel Shell as Reducing Agent	Univ Indonesia	14.15 – 14.30
6	12728	03.08.06	Siti Sendari, Yuni Rahmawati, Waras Kamdi, Hakkun Elmunyah, Whyna Agustin, Nur Cholis Hadi, Fauzy Satrio Wibowo, Toru Matsumoto, Indriyani Rachman	Internet-Based Monitoring and Warning System of Methane Gas Generated in Garbage Center	Univ Negeri Malang	14.30 – 14.45
Coffee Break & Praying Time						14.45 – 15.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Palma Room | 13.15-14.45
 Symposia 3 Multifunctional and Advanced Materials for Renewable Energy
 Applications
 Session Chair : Dr. S.D. Sumbogo / Dr. Mega Yusuf

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12699	03.10.01	Yudianto, Ahmad Maksum, Delfiendra and Johnny Wahyuadi Soedarsono	Effects of Temperature on the Direct Reduction of Southeast Sulawesi's Limonite Ore	Univ Indonesia	13.15 – 13.30
2	12712	03.10.02	Rinanda Rahmat, Ahmad Maksum, Delfiendra, and Johnny Wahyuadi Soedarsono	Effects of Na ₂ SO ₄ Addition on the Selective Reduction of Limonite Ore from Southeast Sulawesi	Univ Indonesia	13.30 – 13.45
3	11571	03.10.03	Lidia Dwi Putri	Optimization of Insulated Sandwich Panel Core from Empty Fruit Bunch	Swiss German University	13.45 – 14.00
4	11688	03.10.04	Ahmad Fadzil Ahmad Shuhaili, Suzana Yusup, Noridah Osman	The Promotional Effect (Co, Ni and Fe) On HZSM-5 Catalyst for Biogasoline Production	Universiti Teknologi Petronas Malaysia	14.00 – 14.15
5	12170	03.10.05	Muhammad Arvianda Hymes Vinci Kurnia, Tania Surya Utami, Rita Arbianti	Sodium Percarbonate Addition as Electrolyte and Buffer to Produce Electricity Economically using Industrial-Tempeh-Wastewater based Microbial Fuel Cell	Univ Indonesia	14.15 – 14.30
6	9225	03.10.06	Bambang Heru Susanto	The Effect of Pyrogallol Antioxidant Addition and The Storage Temperature Influence to Biodiesel Quality Changes During Storage Period	Univ Indonesia	14.30 – 14.45
Coffee Break & Praying Time						14.45 – 15.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 1 | 15.00 – 17.00

Symposia 1 Renewable Energy System and Regulation

Session Chair : Prof. Nandy Putra / Dr.-Ing. Eko Adhi Setiawan, S.T., M.T.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	12660	01.08.01	Dianursanti Ismail	Biodiesel Synthesis Optimization from Wet and Dry Based Microalgae <i>Chlorella vulgaris</i> by Reaction Time Arrangement	Univ Indonesia	15.00 – 15.15
2	12661	01.08.02	Dianursanti Ismail	Synthesis of Biodiesel from Microalgae through Transesterification Process Using NaOH/Zelite as Heterogeneous Catalyst: Comparison between <i>Nannochloropsis</i> sp. and <i>Chlorella vulgaris</i>	Univ Indonesia	15.15 – 15.30
3	13169	01.08.03	N P Pinasthika, R Arbianti, T S Utami and H Hermansyah	Effect of Medium and Incubation Time on Production of AA, DHA and EPA from <i>Aspergillus Oryzae</i> by Solid State Fermentation	Univ Indonesia	15.30 – 15.45
4	12724	01.08.04	Sealtial Mau	Characteristics of Calcium Carbonate Nanofluids Flowing in a Circular	Univ Indonesia	15.45 – 16.00
5	016	01.08.05	S.D. Sumbogo Murti, Yuta Sudo, Sun Yan, Adiarso, Reiji Noda	Investigation of Biomass Gasification using Indonesian Clays Catalyst	BPPT	16.00 – 16.15
6	012	01.08.06	Tulus Sukreni	Effect of Anode Depth and Conductivity of Electrolyte Solution on Energy Consumption in Plasma Electrolysis	Univ Indonesia	16.15 – 16.30
7	12731	01.08.07	Aji Agraning Bawono	The impact analysis of postage multi-tariff system on gas transportation through the pipeline to increase gas price efficiency as the attraction of more environmentally friendly power plant substitution	Univ Indonesia	16.30 – 16.45
8	10132	01.08.08	Wayan Nata Septiadi, Wayan Nata Septiadi, Gemilang Ayu Iswari, Muhammad Ainur Rofiq, Bobby Gitawan, Jeplind Morico Gugundo, Christ Ave Duga Purba	Voltage Characterization Of Waste Heat Recovery using Thermoelectric Generator	Univ Udayana	16.45 – 17.00
All back to Palma Room for Plenary Closing						17.00 - 18.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 2 | 15.00 -17.00

Symposia 2 Biomass and Biotechnology

Session Chair : Dr. Maria de Fatima Salgado / Prof. Adi Surjosatyo

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1		Invited Speaker	Dr. SaryAwad	Experimental Investigation on the Reduction of Catalyst Costs in the Polyethylene Pyrolysis Process	GEPEA, UMR-CNRS (DSEE) IMT Atlantique France	15.00 – 15.15
2	12753	02.09.01	Ambar Maresya, Rita Arbianti, Heri Hermansyah	Production of Dry Extracellular Lipase From Pseudomonas aeruginosa With Submerged Fermentation Method In Palm Oil Mill Effluent	UnivIndonesia	15.15 – 15.30
3	12749	02.09.03	Danti Firda Nur, Heri Hermansyah, Tania Surya Utami, Muhamad Sahlan, Anondho Wijanarko	Production of Extracellular Immobilized Lipase from Solid State Fermentation of Aspergillus niger on Palm Kernel Cake, Soybean Meal, and Coir Pith	UnivIndonesia	15.30 – 15.45
4	12674	02.09.04	Setia Abikusna, Ratna Monasari	Performance Analysis (BHP and Torque) on SI Engine Fueled with Low-grade Bioethanol and Oxygenated Fuel Additive	UnivIndonesia	15.45 – 16.00
5	13179	02.09.05	Ratna Monasari, Nasruddin, Agung Satrio Wibowo, Bagus Rizky Dewantoro, M. Ilham Attharik	Thermodynamic Analysis and Multi Objective Optimization of Kalina and Absorption Cycle for Power and Cooling Driven by Lahendong Geothermal Source	UnivIndonesia	16.00 – 16.15
6	017	02.09.06	J Muliawan and Sotya Astutiningsih	Preparation and characterization of phosphate – sludge-kaolin mixture for ceramic bricks	UnivIndonesia	16.15 – 16.30
7	8772	02.09.07	Neng Tresna Umi Culsum	Preparation of Cellulose Nanocrystals from Empty Fruit Bunch of Palm Oil by Using Phosphotungstic Acid (HPW)	ITB	16.30 – 16.45
8	12675	02.09.08	Setia Abikusna, Ratna Monasari	Analysis of Emission Gas and Fuel Consumption on SI Engine Fueled with Low-grade Bioethanol and Oxygenated Cycloheptanol Additive	UnivIndonesia	16.45 – 17.00
All back to Palma Room for Plenary Closing						17.00 – 18.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Krisan Room 3 | 15.00-16.45
Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications
Session Chair : Dr. Sunaryo

No	Paper #	ID	Author(s)	Title	Affiliation	Time
1	12297	03.05.01	Yanuar, Kurniawan Teguh Waskito, Bil mantasya Al Fattha Rahmat, Aufa Yusuf Perdana, Bagus Dwi Candra, Sigit Yoga Pratama	Microbubble Drag Reduction with Triangle Bow and Stern Configuration Using Porous Media on Self Propelled Barge Model	Univ Indonesia	15.00 – 15.15
2	12595	03.05.02	Yanuar, Wiwin, Sulistyawati	Pentamaran configuration design with modelling hull form for resistance minimization	Univ Indonesia	15.15 – 15.30
3	12678	03.05.03	Yanuar, Ibadurrahman, M. Mahfud, Arby G., and Rachmat A. W.	Experimental investigation of Interference Resistance of Pentamaran Model with Asymmetric Outrigger Configurations	Univ Indonesia	15.30 – 15.45
4	12681	03.05.04	Yanuar, Ibadurrahman, Syifa Alfiah A. P.	Resistance Characteristic of Submerged Vehicle-Bow Shape based on Hull Envelope Coefficient Using CFD Simulation	Univ Indonesia	15.45 – 16.00
5	9431	03.05.05	Sunaryo	Design and Calculation of Mechanical System for Solar-Powered Electric Boat	Univ Indonesia	16.00 – 16.15
6	10144	03.05.06	Asep Rachmat, Nasruddin	Exergoeconomic Optimization of a Combined Double Flash – Binary Cycle for Wayang Windu Geothermal Power plant in Indonesia	Univ Indonesia	16.30 - 16.45
All back to Palma Room for Plenary Closing						16.45 - 18.00

DAY 2 : PARALLEL SESSIONS

Wednesday, October 4th 2017 | Palma Room | 15.30-17.00

Symposia 3 Multifunctional and Advanced Materials for Renewable Energy Applications

Session Chair : Prof. Adi Surjosatyo / Dr.-Ing. Eko Adhi Setiawan, S.T., M.T.

No	Paper#	ID	Author(s)	Title	Affiliation	Time
1	9126	03.09.01	Yuswan Muharam, Fabian Mahendra Nur, ThomyD Vollmer, Alisya Purnama Ramadhania	Prediction of Ignition Delay Time of Liquefied Gas for Vehicle	Univ Indonesia	15.30 – 15.45
2	12738	03.09.02	Ghany Heryana	Power Consumption Analysis On The Large-Sized Electric Bus	Univ Indonesia	15.45 – 16.00
3	9430	03.09.03	Yuswan Muharam	Simulation of a metal organic framework-based adsorbed natural gas storage tank	Univ Indonesia	16.00 – 16.15
4	9326	03.09.04	Erwin, Tresna Priana Soemardi, Adi Surjosatyo, Yulianto Yulianto	Design Optimization of Hybrid Renewable Energy Power Plant for Metropolitan Cluster in Domas, Serang Banten, Indonesia	Univ Indonesia	16.15 – 16.30
5	019	03.09.05	Dita Trisnawan	Eco-Tect Design Simulation on Existing Building to Enhance Its Energy Efficiency	Univ Indonesia	16.30 – 16.45
6	020	03.09.06	Dita Trisnawan, Alhayatul Rifqih	Reading Sustainability Post Annexations of Rumah Gadang Architecture	Univ Indonesia	16.45 – 17.00
All back to Palma Room for Plenary Closing						17.00 – 18.00

POSTER SESSION

Poster Session
Wednesday, October 4th 2017 15.30-16.45
Palma Room (Ballroom)

No	Paper #	ID	Author(s)	Title	Affiliation	
1	005		E Kus rini, A Rahman, Aji A Bumi, Chairani S. Utami	The Effect of Physical and Chemical Methods on Surface Area of Low-Grade Bauxite	Univ Indonesia	
2	12304		Luthfiana Azizah, Tania Surya Utami, Rita Arbianti, Heri Hermansyah	Evaluation on The Implementation of Coconut Shell Charcoal as Bioelectrode in Microbial Desalination Cell System	Univ Indonesia	
3	018		M. Ali Berawi , A. Sihombing, P. Miraj, R. Windrayani	Increasing Energy Efficiency by Considering Buildings Life Cycle	Univ Indonesia	
4	007		Eny Kus rini, Nasruddin, Chairani S. Utami, Anwar Usman	Isotherm Adsorption of Carbon Dioxide using Graphite/CeO ₂ Composite via Volumetric Method	Univ Indonesia	
5	008		M Ali Berawi	Formulating Smart Integrated Workspace Concept to Improve Energy Efficiency	Univ Indonesia	
6	021		Eny Kus rini	Clinoptilolite Zeolite Modified Chitosan and Reusability for Biogas Purification	Univ Indonesia	