

LIST OF ABSTRACTS FOR SCIENTIFIC POSTERS PRESENTATION

39th Annual Scientific Meeting; 12-13 July 2017

ENGINEERING SCIENCES AND TECHNOLOGY (EST)

No.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	TITLE OF PAPER
EST-01	Melchizedek I. Alipio, Nestor Michael C. Tiglao	Melchizedek I. Alipio	Nestor Michael C. Tiglao	Performance of DTSN Protocol Under Congestion
EST-02	Nestor Michael C. Tiglao, Joanne Marie V. Santos, Jeanne Eunice V. Pascua	Nestor Michael C. Tiglao	Nestor Michael C. Tiglao	Efficient Lightweight Blockchain-based Authentication for the Internet of Things
EST-03	Lloyd Arvin M. Malaluan Roberto M. Malaluan	Lloyd Arvin M. Malaluan	Lloyd Arvin M. Malaluan	Supercritical Carbon Dioxide (SC-CO ₂) Fractionation of <i>Curcuma longa</i> L. Rhizome
EST-04	Dionesio C. Pondoc and Prima E. Valdez	Dionesio C. Pondoc	Dionesio C. Pondoc	Development of porous ceramics utilizing Ilocos Norte red clay and river sand with an addition of sawdust for thermal insulation
EST-05	Luigi Dahonog, Erika Mae Espejo, Joey Ocon and Mary Donnabelle Balela	Mary Donnabelle Balela	Luigi Dahonog	Electrochemical Performance of Copper and Nickel-Based Nanomaterials for Supercapacitor Applications
EST-06	Aldwin Lacuesta, Everjoy Mones, Mary Donnabelle Balela, Cybelle Concepcion Futralan, Ronniel Manalo, Marvin Herrera	Marvin Herrera	Aldwin Lacuesta	Conductance of kapok (Ceiba pentandra) paper embedded with acid-doped polyaniline molecules
EST-07	Kevin Martin C Faltado, Francisco B. Elegado and Virgie A. Alcantara	Kevin Martin C Faltado	Virgie A. Alcantara	Parametric Study on the Low Temperature Spray Drying of Biosurfactant Produced by <i>Saccharomyces cerevisiae</i> 2031 from Sugarcane Molasses Media
EST-08	Emie A. Salamangkit-Mirasol	Emie A. Salamangkit-Mirasol	Emie A. Salamangkit-Mirasol	Characterization of Imelda Red Clay by TG-DTA, XRF, and XRD Analysis Techniques

EST-09	Christina D. Cayamanda, Michael Francis D. Benjamin, Kathleen B. Aviso, Raymond R. Tan, Luis F. Razon	Christina D. Cayamanda	Christina D. Cayamanda	A P-graph Approach to Climate Risk Analysis in Integrated Bioenergy Systems
EST-10	Lola Domnina B. Pestaño and Wilfredo I. Jose	Lola Domnina B. Pestaño	Lola Domnina B. Pestaño	Development of the Coconut Processing System in the Philippines Using Modern Design Technology
EST-11	Aira Patrice R. Ong, Nilo T. Bugtai	Aira Patrice R. Ong	Aira Patrice R. Ong	Design of an Automated Management System for a Warehouse Inventory using UML Modeling Techniques
EST-12	Cristina Tiangco, Sheniqua Brown, Fortunato Sevilla III, Govind Rao and Leah Tolosa	Leah Tolosa	Cristina Tiangco	Fluorophore-labeled bioengineered GBP for measurement of transdermal glucose
EST-13	Beatriz A. Belmonte, Raymond R. Tan, Michael Francis D. Benjamin	Beatriz A. Belmonte	Beatriz A. Belmonte	Decision Support Tool for the Synthesis of Biochar-Based Energy System
EST-14	Roy Alvin J. Malenab, Janne Pauline S. Ngo, Michael Angelo B. Promentilla	Roy Alvin J. Malenab	Roy Alvin J. Malenab	Chemical Treatment and Characterization of Waste Abaca Fibers as Geopolymer Reinforcement
EST-15	Jhulimar Celedonio and Young Soo Ko	Jhulimar Celedonio	Jhulimar Celedonio	In-situ Polymerized Amine-Silica Adsorbents for CO ₂ Capture: Evaluation of CO ₂ Desorption Behavior 2
EST-16	Faye Dominique A. Lim Rosanne C. Villanueva	Rosanne C. Villanueva	Rosanne C. Villanueva	Microwave-cured Cement-bonded Board Reinforced with Aligned Alkali-treated Pineapple and Water Hyacinth Indigenous Fibers
EST-17	Margarita G. Gonzalez	Margarita G. Gonzalez	Margarita G. Gonzalez	Effect of Varying Voltage and Frequency in the Production of Hydrogen (H ₂) Gas from Glycerol (C ₃ H ₈ O ₃) by Plasma Reforming using a Dielectric Barrier Discharge Reactor
EST-18	Theodore Kent C. Sacdalan	Theodore Kent C. Sacdalan	Theodore Kent C. Sacdalan	The Study of Photodegradation of the Paraquat Herbicide using Titanium Dioxide (TiO ₂) and Copper Sulfide (CuS) as Photocatalysts

EST-19	Paul Dominick E. Baniqued and Nilo T. Bugtai	Paul Dominick E. Baniqued	Paul Dominick E. Baniqued	Kinematic Simulation and 3D-Printing of a Wearable Robotic Orthosis Design for the Upper Extremities
EST-20	Jofel Kristofer A. Paddayuman	Jofel Kristofer A. Paddayuman	Jofel Kristofer A. Paddayuman	The Study of the Characteristics of Copper Benzene-1, 3, 5-Tricarboxylate (Cu-BTC) Metal Organic Frameworks (MOFs) and Its Application as Adsorbent of Volatile Organic Compounds (VOCs) Benzene (C ₆ H ₆), Phenol (C ₆ H ₅ OH), and Chlorophenol (C ₆ H ₅ OCl)
EST-21	Joseph C. Paquit and Michael Arie P. Medina	Joseph C. Paquit	Joseph C. Paquit	Highlighting Flood Risk Communities using RISGO (Risk Indicator System with GIS Outputs): The Case of Valencia City, Bukidnon, Philippines
EST-22	Jholeeh Charls T. Madalipay, Richard Dean P. Yadao, Nathaniel R. Alibuyog, Rodel T. Utrera	Jholeeh Charls T. Madalipay	Jholeeh Charls T. Madalipay	Hydro-energy Resource Assessment of Laoag River Basin
EST-23	Felicidad Christina R. Ramirez, David Joseph G. Alzate, Stephanie L. Chua, and Christina A. Binag	Felicidad Christina R. Ramirez	Felicidad Christina R. Ramirez	Piña-polyester fabric with various electroactive materials as supercapacitor electrodes
EST-24	Alan Rodelle M. Salcedo, Fortunato B. Sevilla III	Alan Rodelle M. Salcedo	Alan Rodelle M. Salcedo	Smartphone camera-based optical sensor for elemental mercury vapour using green synthesized cuprous iodide nanocrystallites
EST-25	Rose Angelica L. Amper, George R. Puno, and Jenifer L. Oganía	Rose Angelica L. Amper	George R. Puno	Modeling Cabulig River Basin Flooded Areas using Hydrologic Model Integrated with GIS and Remote Sensing Approaches
EST-26	Antonio R. Farinas, Floramante C. Pastor, Arlene L. Gonzales, Roselle Y. Mamuad, Honeylou F. Farinas, Saturnina F. Nisperos, and Ronaldo G. Maghirang	Antonio R. Farinas	Floramante C. Pastor	Assessment of Air Quality in Selected Agro-industrial Operations

EST-27	Christine P. Bumanglag, Nathaniel R. Alibuyog, Julius L. Butay, Ryan John S. Ines, and Wirley Daviondyll G. Valdez, Rodel Utrera, Floramante Pastor	Christine P. Bumanglag	Christine P. Bumanglag	Extraction of Hydrologic Dataset Using LiDAR DTM for Watersheds in Ilocos Norte, Philippines
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