

# BEST PAPER AWARDEES

## DAY 1



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# BEST PAPER AWARDEES

**Topic: Energy Audits, Conservation, Efficiency, Technology Assessment and Policy**

RCeneE (D1S1-A)	RC 13	V.T. Nguyen* A.T. Dinh C.T. Tran	Performance Analysis of Passive Containment Cooling System in VVER 1200 Reactor Design
RCeneE (D1S1-B)	RC 49	S.M. Sapuan* Osama Alsaied, R.A. Ilyas, M.S.N. Atikah	Energy Utilization and Saving Measures In Composite Industry: A Review
	RC 28	Michael Bryan Bien*, Marie Grace Balatbat, Erwin Philippe Beronio, Mili-Ann Tamayao	Multi-Attribute Decision Analysis of a Utility-Scale Photovoltaic Plant in the Philippines



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# BEST PAPER AWARDEES

## Topic: Materials for Energy, Electronics and Environment I

ERDT / RCeneE (D1S2-A)	RC 4	Soe Soe Han* Khin Khin Win	Structure and Optical Properties of Organic-Inorganic Lead Iodide and Bromide Perovskites for Solid State Solar Cells
ERDT / RCeneE (D1S2-B)	RC6	Renz Marion G. Garcia* Rinlee Butch M. Cervera	Ni/ScSZ Cathode Prepared Via Single-Step Glycine-Nitrate Combustion Method



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# BEST PAPER AWARDEES

Topic: Renewable Energy, Energy Conversion Technology, Renewable Energy System

RCeneE (D1S3-A)	RC 32	Khanh Hieu Ngo*, Quoc Hieu Tran, Quoc Dung Phan, Jörg Franke, Ha Thanh Pham Arno Van Wingerde	Preliminary Design of a 100 kW Horizontal Axis Wind Turbine for Vietnam
RCeneE (D1S3-B)	RC 58	Khasani*, Harits Satriaksa Dhanimsya Hudasaputra Steven Lintong	The Study on Performance of Lahendong Geothermal Power Plant in North Sulawesi, Indonesia Using Thermodynamic Analysis of Gas Removal System



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# BEST PAPER AWARDEES

Topic: Information and Communication Technology

ERDT (D1S4-B)	E22	I.Cerutti, M.N.A. Acmad* R. Reyes, P. Castoldi N. Andriolli	Scheduling in Ring-Based Multi- Microring Optical Network-on-Chip
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# BEST PAPER AWARDEES

Topic: Energy Resource Assessment, Power Systems, Modelling and Planning I

RCeneE (D1S5-A)	RC63	Umar Khayam* Nhet Ra	Effect of Insulation Medium and Internal Structures of Power Transformer on Partial Discharge Induced Electromagnetic Wave in Power Transformer
RCeneE (D1S5-B)	RC54	Marti Sandino Espenido* Michael Angelo Pedrasa	Evaluation of Self-Generating Facilities as Interruptible Loads Using Hourly Load Profiles



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# BEST PAPER AWARDEES

## DAY 2



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# BEST PAPER AWARDEES

Topic: Energy Resource Assessment, Power Systems, and Modelling and Planning II

RCeneE (D2S1-A)	RC26	Phasor Angle Difference Estimation of a 4-bus Distribution Network using Regression Analysis	Jose Paolo M.Z. Bonifacio* Fredmar N. Asarias Jhoanna Rhodette I. Pedrasa Michael Angelo A. Pedrasa
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# BEST PAPER AWARDEES

## Topic: Information and Communications Technology

ERDT (D2S1-B)	E 28	Open-Sourcing a Framework for Developing Mobile Augmented Reality Games	Eric Cesar E. Vidal, Jr.* Melvin Luis Mendoza Japheth Duane Samaco John Michael Santos Ma. Mercedes T. Rodrigo
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# BEST PAPER AWARDEES

## Topic: Materials for Energy, Electronics, and Environment II

ERDT/ RCeneE (D2S2-A)	E9	CeO <sub>2</sub> -Dolomite as Fire Retardant Fillers of Conventional Intumescent Coating in Steel Substrate for Improved Performance	Joshua B. Zoleta* Gevelyn B. Itao, Vannie Joy T. Resabal Ryan D. Corpuz Carlito B. Tabelin Mayumi Ito Naoki Hiroyoshi
RCeneE (D2S4-A)	RC23	NiO-YSZ and LSM-YSZ Thin Film Electrodes Deposited on YSZ-Electrolyte for Solid Oxide Electrolysis Cells (SOEC)	Jennet R. Rabo* Rinlee Butch M. Cervera
	RC15	Screen printing of NiO-YSZ composite cathode material for solid oxide electrolysis cell (SOEC)	Agnes L. Manalo* Rinlee Butch M. Cervera



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# BEST PAPER AWARDEES

## Topic: Structural, Agricultural and Environmental Materials

ERDT (D2S3-A)	E8	Adsorption Kinetics and Isotherms of the Removal of Cu(II) and Hg(II) using Iron-Modified Montmorillonite Clay	John Kenneth A. Cruz* Leslie Joy L. Diaz
ERDT (D2S3-B)	E21	Extraction of bioactive compounds from Mango ( <i>Mangifera indica</i> L. var. Carabao) seed kernel with ethanol-water binary solvent systems	Kramer Joseph A. Lim* Alden A. Cabajar Camila Flor Y. Lobarbio Evelyn B. Taboada Daniel J. Lacks



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# BEST PAPER AWARDEES

## Topic: Alternative Fuels/Energy

RCEneE (D2S4-A)	RC17	A Comparative Analysis of Co-firing Different Combustion Fuels with Coal in the Production of Cement Clinker	Reynaldo Geronia II Gerard Lorenz Maandal Jan Samuel Matuba Desiree Mae Sua-an Mili-Ann Tamayao*
	RC11	Sugarcane as a resource for bioenergy production in the Philippines: A retrospective assessment from 2007 to 2017 and future considerations	John Wilbert A. Orilla Alchris W. Go Angelique T. Conag Arjay S. Toledo* Ian Dominic F. Tabañag
RCEneE (D2S4-B)	RC62	Combustion and particle emission of hydro-treated vegetable oil (HVO)	Chinda Charoenhonphanich* Preechar Karin



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# BEST PAPER AWARDEES

Topic: Environment, Infrastructure and Agricultural Applications

ERDT (D2S5-A)	E6	Modelling of Tree-Crop Patterns in Agroforestry Farms through Data Mining	Matthew Seaver Choy*
ERDT (D2S5-B)	E24	Morphometric Analysis of Sub-watersheds in Wahig-Inabanga Basin using GIS	Jeremy P. Mondejar* Yvonne P. Elizalde Alejandro F. Tongco Rosein A. Ancheta Jr.



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