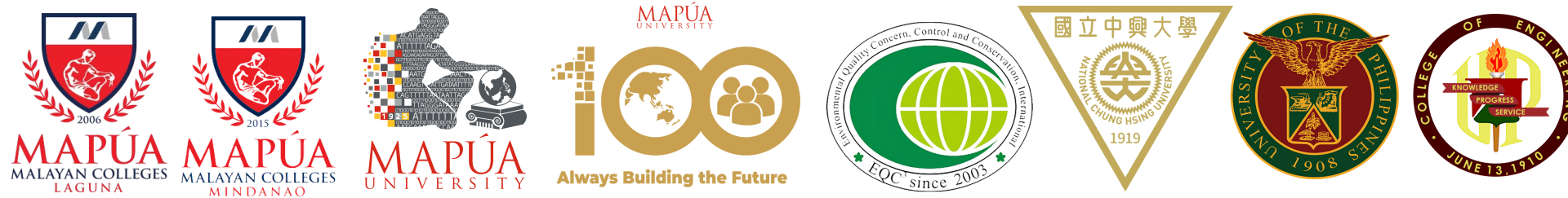


# INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES (ICSET 2025)

**ICSET 2025 Working Program**  
*Host: Edward Jay M. Quinto, PhD*

**January 20, 2025 - Onsite Registration (in front of Maynila Ballroom, Manila Hotel)**  
**January 21, 2025 - Opening, Plenary Session and Welcome Dinner with Cultural Show at Maynila Hall, Manila Hotel**

08:00 - 08:30	Registration
08:30 - 08:35	Invocation & National Anthem
08:35 - 08:50	 <p><i>Welcome Remarks</i>  <b>Dodjie S. Maestrecampo, PhD</b>          President &amp; CEO, Mapúa University, Philippines          ICSET 2025 Chair</p>
08:50 - 09:05	 <p><i>Opening Remarks</i>  <b>Ming-Chun Lu, PhD</b>          Honorary Chair          National Chung Hsing University, Taiwan</p>
09:05 - 09:35	 <p><i>Plenary Speaker 1</i>  <b>Gary Dirks, PhD</b>          Senior Director of Global Futures Laboratory          Arizona State University, USA</p>
09:35 - 10:00	Q & A Online Awarding of Plaque Group Photo (Online and Onsite)
10:00 - 10:30	Break: AM Snacks Networking
10:30 - 11:00	 <p><i>Plenary Speaker 2</i>  <b>Tsair-Fuh Lin, PhD</b>          Immediate Past President Chinese Institute of Environmental Engineering,          Former Vice President for Research and Development Director, Water Quality Research Chair Professor, Department of Environmental Engineering National Cheng Kung University, Taiwan</p>



# INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES (ICSET 2025)

11:00 - 11:30



*Plenary Speaker 3*

**Francisco G. Delfin, Jr., PhD**

President & CEO

PetroGreen Energy Corporation, Philippines

11:30 - 11:50

Open Forum

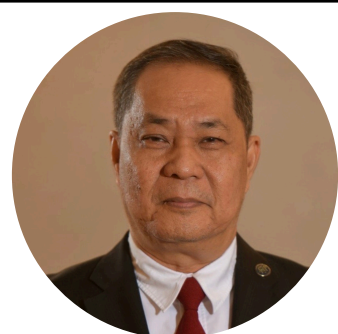
11:50 - 12:00

Awarding of Plaque to Speakers

12:00 - 13:00

Lunch Break

13:00 - 13:30



*Plenary Speaker 4*

**Engr. Adam C. Abinales, CE**

President

National Association of Mapúa Alumni, Philippines

13:30 - 14:00



*Plenary Speaker 5*

**Yoshikazu Miyanaga, PhD**

President & CEO

Chitose Institute of Science & Technology, Japan

14:00 - 14:30



*Plenary Speaker 6*

**Atty. Joseph John Literal**

Assistant General Manager, and Spokesperson

Philippine Reclamation Authority, Philippines

14:30 - 14:50

Open Forum

Awarding of Plaque to Speakers

14:50 - 15:20

MOU Signing

1. Philippine Reclamation Authority, Philippines

2. Aston University, United Kingdom

15:20 - 15:40

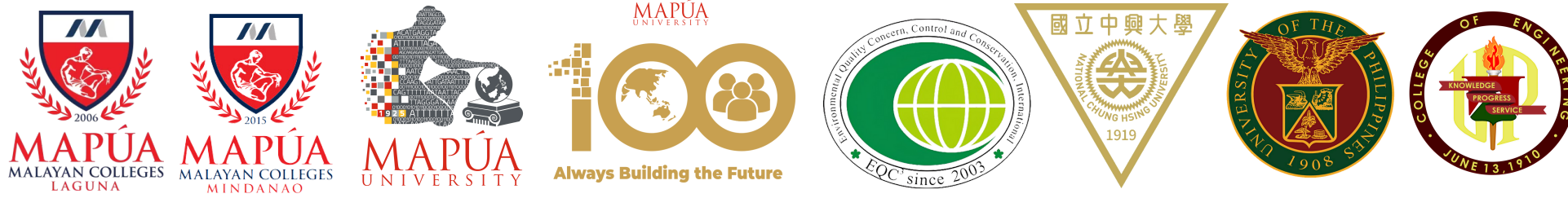
PM Snacks

15:40 - onwards

Poster & Exhibit Viewing in front of Maynila Ballroom

18:00 - 20:30

Welcome Dinner with Cultural Show (Please see below Details)



# INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES (ICSET 2025)

**ICSET 2025 Welcome Dinner**  
*Host: Mr. Patrick Glenn O. Acorin*

**January 21, 2025 - Welcome Dinner & Cultural Show**  
**Maynila Ballroom Hall, Manila Hotel**

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18:00 - 18:30      Assembly

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18:30 -            **Opening Proper**  
 Welcoming and Parade of Guest and Introduction per Country by Host

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**Philippine National Anthem**  
 Mapua Cardinal Singers

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**Culture Appreciation Symbolic Activity**  
 Lighting of the Cultural Symbol

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**Dinner Ready**

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**Traditional Culture Dance**  
 Folklorico Cardinales de Mapua Dance Group

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**Original Pilipino Music (OPM) Medley**  
 Mapua Cardinal singers

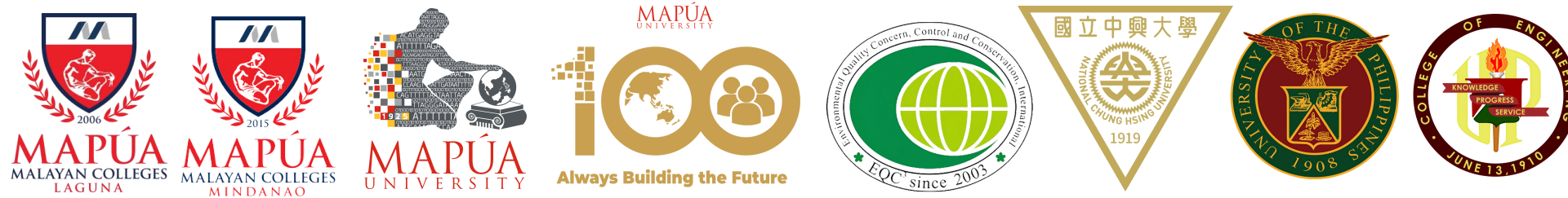
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**“Tinikling” Dance**

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-20:30            **Awarding Ceremony of “Best National Costume”**

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# INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES (ICSET 2025)

**ICSET 2025 Working Program**  
*Host: Edward Jay M. Quinto, PhD*

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**January 22, 2025 - Plenary Lecture @ Maynila Hall**  
**Parallel Technical Sessions @ Acacia Hall, Sampaguita A, B, & C**

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08:30 - 08:40 Recap from Host

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08:40 - 09:05



*Plenary Speaker 7*  
**Mirjam Roder, PhD**  
 Professor & Director  
 Energy & Bioproducts Institute  
 Aston University, Birmingham,  
 United Kingdom

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09:05 - 09:25



*Plenary Speaker 8*  
**Alvin R. Caparanga, PhD**  
 Director, Institute of Global Sustainability  
 Dean, School of Graduate Studies  
 Mapúa University, Philippines

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09:25 - 09:45



*Plenary Speaker 9*  
**Engr. Carlito M. Santos, Jr., CE, SE, GE**  
 President & CEO  
 Uniklean Enviro Construction Corp., Philippines

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09:45 - 10:00

Open Forum  
 Awarding of Plaque to Speakers

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10:00 - 10:20

AM Snacks at Respective Session Rooms  
*Note: Please proceed to your respective meeting room assignments*

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10:20 - 12:05

AM Parallel Technical Sessions (Onsite and Online)  
*Please see Detailed Program*

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12:05 - 13:15

Lunch Break at Maynila Ballroom Hall

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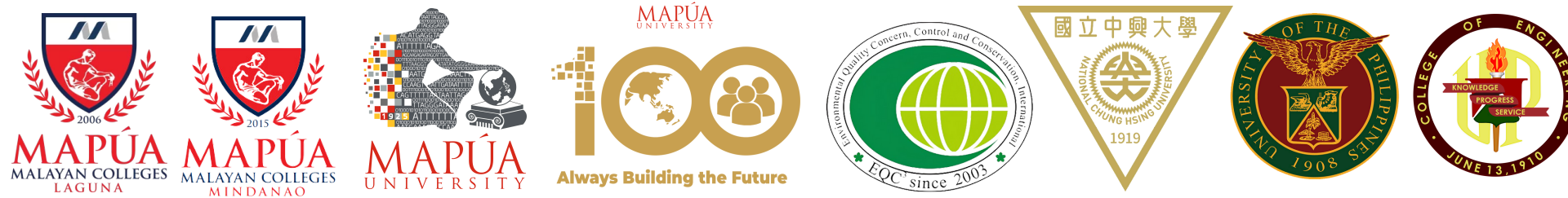
13:15 - 15:00

PM Session 1 Parallel Technical Sessions (Onsite and Online)  
*Please see Detailed Program*

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15:00 - 15:30

PM Snacks at Respective Session Rooms



# INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES (ICSET 2025)

15:30 - 16:30	PM Session 2 Parallel Technical Sessions (Onsite and Online) <i>Please see Detailed Program</i>
16:30 onwards	Please visit <a href="https://icset2025.mapua.edu.ph/">https://icset2025.mapua.edu.ph/</a> for updates
17:30	End of Poster Viewing
<b>January 23, 2025 - University Networking Tour &amp; Awarding Ceremony</b>	
<b>University of the Philippines Diliman Mapua University, Makati Extension Campus</b>	
07:20 - 07:30	Assembly @ Manila Hotel Lobby
07:30 - 09:00	Travel to the University of the Philippines Diliman, Quezon City
09:00 - 11:00	Presentations, Networking College of Engineering, University of the Philippines Diliman
11:00 - 12:15	Travel to Mapua University Makati Extension Campus Pablo Ocampo Sr. St., Makati City
12:15 - 13:30	Lunch @ G/F Mapua Makati
13:30 - 15:00	Campus Tour and Networking Mapua University Makati Extension Campus
15:00 - 14:30	Awarding Ceremony @ Mapua Cardinal Cinema
14:30 - 17:30	Back to Manila Hotel

## ICSET 2025 Parallel Technical Sessions Working Program

Period	Sampaguita A	Acacia Hall	Sampaguita B	Sampaguita C
10:00 – 10:20	AM BREAK @ Respective Meeting Room			
AM Session	Plastics, and Solid Wastes	Advanced Manufacturing, and Responsible Production	Zero Hunger Technology, Sustainable Supply Chain	Disaster Risk Reduction, Climate Action, Water Crisis
Speaker/Lead Presenter	Dr. Maria Antonia Tanchuling, UPD	Shaun Angelo C. Aranez, DOST	Muhammad Imran	Dr. Robert Kurkjian
Session Chair	Dr. Cybelle Concepcion M. Futralan, UPD	Dr. Aldrin Calderon, MU	Prof. Yu-Wei Chang NTOU	Dr. Robert Kurkjian
Session Co-Chair	Dr. Khyllle Glainmer Quiton	Dr. Joseph Albert Mendoza	Dr. Michelle Almendrala	Dr. Thaddeus P. Lawas
Secretariat Team Coordinator	Xperto Chloe Victoria	Xperto John Paolo Reta	Xperto Billy Joe Bernardo	Xperto Melchora Cabelis
10:20 – 10:35	ICSET 25152	ICSET 25121	ICSET 25082	ICSET 25151
10:35 – 10:50	ICSET 25011	ICSET 25041	ICSET 25058	ICSET 25048
10:50 – 11:05	ICSET 25052	ICSET 25042	ICSET 25104	ICSET 25051
11:05 – 11:20	ICSET 25106	ICSET 25054	ICSET 25105	ICSET 25057
11:20 – 11:35	ICSET 25128	ICSET 25055		ICSET 25095
11:35 – 11:50	ICSET 25138			ICSET 25117
11:50 – 12:05				
12:05 – 13:15	LUNCH BREAK @ Maynila Hall			

## ICSET 2025 Parallel Technical Sessions Working Program

PM Session A	Infrastructure & Sustainable Communities	Good Health & Well-Being	Energy Efficiency and Sustainable Energy	Supply Chain Optimization & Sustainability
Speaker/Lead Presenter	Matthew Karanian	Marineil C. Gomez	Dr. Kalidasan Balasubramanian	Marlon Llana
Session Chair	Dr. Francis Aldrine A. Uy	Dr. Jonathan WL Salvacion Philippines	Dr. Kalidasan Balasubramanian Malaysia	Dr. Josephine D. German
Session Co-Chair	Dr. Cris Edward F. Monjardin	Dr. Jeremiah Millare	Dr. Blessie A. Basilia	Dr. Klint Allen Marinas
Secretariat Coordinator	Chloie Victoria Xperto	Josel Godezano Xperto	Xperto Billy Joe Bernardo	Xperto Melchora Cabelis
13:15 - 13:30	ICSET 25153	ICSET 25143	ICSET 25022	ICSET 25119
13:30 – 13:45	ICSET 25001	ICSET 25012	ICSET 25005	ICSET 25050
13:45 – 14:00	ICSET 25023	ICSET 25066	ICSET 25007	ICSET 25081
14:00 – 14:15	ICSET 25026	ICSET 25122	ICSET 25015	ICSET 25132
14:15 – 14:30	ICSET 25028	ICSET 25130	ICSET 25030	ICSET 25135
14:30 – 14:45	ICSET 25094	ICSET 25150	ICSET 25014	ICSET 25080
14:45 – 15:00	ICSET 25111		ICSET 25045	
15:00 – 15:30	PM BREAK @ Respective Meeting Room			
PM Session B		Carbon Reduction, Environmental Sustainability		Geochemistry, Agrogeology, and Geotechnical Eng'g
Speaker/Lead Presenter		Prof. Ruey-An Doong		Ella Nicole Sarmiento
Session Chair		Dr. Angelo Earvin S. Choi		Dr. Ma. Carmencita B. Arpa
Co-Chair		Dr. Jacque Lyn Gabayno		Dr. Loucel E. Cui
15:30 – 15:45	ICSET 25118	ICSET 25013	ICSET 25050	ICSET 25039
15:45 – 16:00	ICSET 25134	ICSET 25043	ICSET 25052	ICSET 25076
16:00 – 16:15		ICSET 25024	ICSET 25086	
16:15 – 16:30		ICSET 25078	ICSET 25123	

## ICSET 2025 Parallel Technical Sessions Working Program

### AJ ORAL DECK PRESENTATION

Item	Paper Code	Presentation Title	Authors	Presenter
<b>Session Theme: Plastics, and Solid Wastes</b>				
Speaker/Lead Presenter: Dr. Maria Antonia Tanchuling, College of Engineering, University of the Philippines Diliman				
Session Chair: Dr. Cybelle Concepcion M. Futralan, College of Engineering, University of the Philippines Diliman				
Session Co-Chair: Dr. Khyle Glainmer Quiton				
Moderator/Coordinator: Xperto/Crizzle Joy Abad				
Venue: <i>Sampaguita A</i>				
1	25152	Status of Plastic Waste Management in the Philippines	Maria Antonia Tanchuling, Benedict Requejo, Ezra Osorio, Ma. Brida Lea Diola	Dr. Maria Antonia Tanchuling
2	25011	An Innovative and Multifunctional Chitosan-Based Films from Shrimp Shell Waste Incorporated with Jabuticaba Pomace Extract: Insights into the Inactivation of <i>Escherichia coli</i>	Ying Chen Chen, Chic-Huang Weng, Shang-Ming Huang, Jing-Hua Tzeng, Jenn-Wen Huang, Channat Chokeyaroenrat, Yao-Tung Lin	Ying Chen Chen
3	25052	The Effects of Ferric Oxide on Anaerobic Co-digestion of Slaughterhouse Wastewater and Food Waste for Biogas Production	Steffany Marie Nina B. Santos, Kyle Adrienne T. Valenzuela, Michelle C. Almendrala, Louise Grace S. Avena-Ardeta	Kyle Adrienne T. Valenzuela
4	25053	A Detection Method for Floating Debris in Waterways Using YOLOv9	Jan Edgar E. Tupas, Miguel T. Soniel, Christian Henry Miguel E. Caruz, Darryll B. Babar, John Paul Q. Tomas	Miguel T. Soniel
5	25106	Adsorption of Nitrate in Simulated Contaminated Groundwater Using Activated Carbon from Cassava ( <i>Manihot esculenta</i> ) stem impregnated with NA <sup>+</sup> from NaCl Solution	Eden S. Erasga, Rachel Cabilangan, Angel Catherine Pedrigal, Marie Claire Pregnero	Eden S. Erasga
6	25128	Abundance, Spatial Distribution, and Characteristics of Microplastics in the Agricultural Soils of Canlaon City, Negros Oriental, Philippines	Monshyne Cabual, Christine Mae Elnas, Jhon Paul Sullera, Fatim Tubil, Merivic Catada, Abner Bucol, Lilibeth Bucol, Edwin Romano, Jr.	Edwin Romano, Jr.
7	25138	Evaluation of Microwave Power, Irradiation Time, and Ethanol Concentration on Phenolic Extraction from Ripe Mango ( <i>Mangifera indica L.</i> ) Peels Using Box-Behnken Design	Tristan Roy Panaligan, Danielle Raine Acantilado, Julian Cergio Gayagoy, Alainah Pearl Ramos, Jesusino Aquino	Julian Cergio Gayagoy



## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Advanced Manufacturing, Responsible Production</b>				
Speaker/Lead Presenter: Shaun Angelo C. Aranez, Department of Science and Technology				
Session Chair: Dr. Aldrin Calderon, Mapua University				
Session Co-Chair: Dr. Joseph Albert Mendoza, Mapua University				
Moderator/Coordinator: Xperto/John Paolo Reta				
Venue: <i>Acacia Hall</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25121	Effect of Sodium Hydroxide Etching and Ultraviolet Sterilization on the Compressive Properties of 3D-Printed Polylactic Acid (PLA) Lattice Structures for Cell Ossointegration	Shaun Angelo Aranez, Jenny Lyn Laga, Lumen Milo, Marianito Margarito	Shaun Angelo Aranez
2	25041	DLS-Guided Preparation of Chitosan-Carrageenan Nanoparticle	Carlo S. Emolaga, Lumen C. Milo, Blessie A. Basilia	Carlo S. Emolaga
3	25042	3D Response Topology Optimization for Surface Finish, Material and Print Time Reduction of FDM Fabricated PLA parts	Charles Edward Alviar, Blessie A. Basilia	Dr. Charles Edward Alviar
4	25054	Enhancing Salago Fiber-Epoxy Composites with Sodium Carbonate Treatment	Frederick Amiel S. Bearneza, Vincent Ian B. De Vera, Carlo S. Emolaga, Jeremiah C. Millare	Carlo S. Emolaga
5	25055	Improving Properties of Nito Fiber-Epoxy Composites with Peracetic Acid Treatment	Precious Gloriel D. Caperocho, Maria Goretti T. Ydulzura, John Alec Mari C. Cosico, Carlo S. Emolaga, Jeremiah Millare	John Alec Mari C. Cosico

## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Zero Hunger Technology &amp; Sustainable Supply Chain</b>				
Speaker/Lead Presenter: Muhammad Imran				
Session Chair: Prof. Yu-Wei Chang, National Taiwan Ocean University, Taiwan				
Session Co-Chair: Dr. Michelle Almendrala, Mapua University				
Moderator/Coordinator: Xperto/Billy Joe Bernardo				
Venue: <i>Sampaguita B</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25082	Optimization of Ultrasound-Assisted Polysaccharide Extraction from Okra Using Deep Eutectic Solvents: Process Efficiency and Bioactivity	Muhammad Imran, Shang-Ming Huang, Chih-Huang Weng, Yao-Tung Lin	Muhammad Imran
2	25058	Predicting Actual Purchase of Consumers from Online Live Selling Using Neural Network-Based Decision Support Systems: A Case Study in the Philippines	Rommualdo D. Aguas, Jr., John Dave Concepcion, Ardivin Kester S. Ong	John Dave Concepcion
3	25104	Image Classification Model for Data Sentry of Plant Diseases Using Convolutional Neural Networks	Jose B. Lazaro, Jr., John Rafael L. Jocson	Jose B. Lazaro, Jr.
4	25105	Classification and Detection by <i>Oryza Folia</i> (Palay Leaf) Disease: A Comparative Analysis with YOLOv5	Jose B. Lazaro, Kate Carolyn Fernando, Clarenzz Bryan Pinera, Angelica Roll	Jose B. Lazaro, Jr.

## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Supply Chain Optimization &amp; Sustainability</b>				
Speaker/Lead Presenter: Marlon Llana				
Session Chair: Dr. Michael N. Young, Mapua University				
Session Co-Chair: Dr. Josephine D. German, Mapua University				
Moderator/Coordinator: Xperto/Melchora Cabiles				
Venue: <i>Sampaguita C</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25119	High Temperature Mechanical Response and Dynamic Phase Transformation Behavior of Carbon Steels: A Concise Review	Marlon Llana, Blessie A. Basilia, Clodualdo Aranas, Jr.	Marlon Llana
2	25050	Assessing the Bioelectric Potential of <i>Zingiber officinale</i> (Ginger) Root Extract in an H-Type Double Chamber Microbial Fuel Cell	Anya Guadalupe Abella, Juliana Mae Martinez, Marineil Gomez	Juliana Mae Martinez
3	25081	Service Factor Analysis for Sustainable Operations of Micro-Enterprise Business: A Customer Satisfaction Evaluation for Beauty Salon Shops in the Philippines	Madonna Andrada, Ardvin Kester S. Ong, Michael N. Young	Madonna Andrada
4	25132	Investigation of Drowsiness Detection Using Combined Electroencephalography, Inertial Measurement Unit, and Computer Vision for a Smart Helmet	Ayesha Chryll Ardon, John Jimmy Arseo, Reo Anne Dela Rita, John Roy Dalin, Luis Gerardo Canete	Luis Gerardo Canete
5	25135	Activate Learning on Rural Areas (ALORA): Offline Learning Management System for Elementary Students in Rural Area using RPi and Nose JS Express	Kristine Joyce Ortiz, Aira Dinglasan, Carl Justin Ordiz, David Genesis Pedeglorio	Kristine Joyce Ortiz
6	25080	Solar-Powered Irrigation Monitoring with LSTM-Based Optimization	Adrian Obado, Juliana Diane Tanhueco, Glenn Magwili	Adrian Obado

## ICSET 2025 Parallel Technical Sessions Working Program

Session Theme: Infrastructure and Sustainable Communities				
Speaker/Lead Presenter: Matthew Karanian				
Session Chair: Dr. Francis Aldrine A. Uy, Mapua University				
Session Co-Chair: Dr. Cris Edward F. Monjardin, Mapua University				
Moderator/Coordinator: Xperto/Crizzle Joy Abad				
Venue: <i>Sampaguita A</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25153	Streamflow Enhancement and Habitat Restoration in the Arroyo Seco Watershed of Los Angeles, California	Matthew Karanian, Robert Kurkjian, Gary Sikkens, and Arev Markarian	Matthew Karanian
2	25001	Infrastructure Audit for a Resilient and Sustainable Rapid Visual Inspection of Buildings in the Philippines: USHER RVI App Case Study	Michael B. Baylon, Francis Aldrine A. Uy, Roy G. Gallardo, John Michael M. Villaber	Michael Baylon
3	25023	Design and Implementation of Battery and Motor Health and Prognosis Maintenance System for E-Trikes	Maria Rafaela Padua, John Lloyd Michael Pangan, Alexander Caesar Parantar, Kristian Carlo Victorio	Maria Rafaela Padua
4	25026	Revitalizing the Historic Urban Landscape of the City of Manila Through Sustainable Urban Planning	Geoffrey Cruz	Geoffrey Cruz
5	25028	Perceptions of Manileno Informal Settlers: Cultivating Sustainable Urban Development Through Natural Language Processing	Danica Mariz B. De Guzman, Maela Madel Cahigas	Dr. Maela Madel Cahigas
6	25094	Raspberry Pi-Based Attendance System Using YOLO and DeepFace	Renz Ricar M. Fajardo, Aliyah T. Laurea, Febus Reidj Cruz	Aliyah T. Laurea
7	25111	Advancing Road Safety and Mobility: Vision AI and Deep Learning for Pedestrian and VRU Real-Time Detection, Pose Estimation, and Tracking in Autonomous Vehicle	Joseph De Guia	Joseph De Guia
8	25118	Advancing Road Safety Through Autonomous Mobility Research: Towards Safe and Robust Sensor-Perception System and Artificial Intelligence in Autonomous Vehicle	Joseph De Guia, Madhavi Devaraj	Joseph De Guia
9	25134	Monitoring of Reinforced Concrete Under Wet-And-Dry Cycling Conditions by Electrical Resistivity Measurements	Kevin Paolo Robles, Jung-Jae Yee, Seong-Hoon Kee	Kevin Paolo Robles

## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Good Health and Well-Being</b>				
Speaker/Lead Speaker: Marineil C. Gomez				
Session Chair: Dr. Jonathan W.L. Salvacion, Mapua University				
Session Co-Chair: Dr. Jeremiah Millare, Mapua University				
Moderator/Coordinator: Xperto/Josel Godezano				
Venue: <i>Acacia Hall</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25143	Whole Genome Sequence Analysis of H9N2, H17N10, and H18N11 Bat Influenza A Virus	Brian Harvey Villanueva, Kuo-Pin Chuang, Marineil Gomez	Marineil Gomez
2	25012	Herd Forecasting and Acceptance Analysis of Sustainable Meat Production Through 3D-Bioprinted Meat from Fish Stem Cell	Ardvin Kester S. Ong, Michael N. Young, Josephine D. German, Maela Madel L. Cahigas, Klint Allen A. Marinas	Dr. Ardvin Kester S. Ong
3	25066	Assessment of Extant PCR Primers to SARS-CoV-2 Genomes from the Philippines	Arianne Marie Cortez, Vianne Francesca Fallarme, Jia Judilla, Ramos Palmares, Jr., Marineil Gomez	Marineil Gomez
4	25122	Revita Rogue: A 2D Post-Apocalyptic Survival	John Lawrence L. Frecia, Ervin R. Lacuarta, Zhanelle Kattrice B. Oriola, Adrean Jan G. Quidor, Ms. Charlene I. Vergara-Gonzales, Ma. Carmela M. Racelis, Leonard L. Alejandro	Adrean Jan Quidor
5	25130	Wanderwatch: A Door-Activated Wearable Alert System for Patients with Dementia	Cedrick Von Diones, Chloe Ross Campomanes, Xayida Pasalgon	Cedrick Von Diones
6	25150	Photodegradation of Methylene Blue Dye Using Natural Hematite from Aqueous Solution	Jinin A. Gasalatan, Jeanmeal Sheanne L. Esguerra, Cybelle Concepcion M. Futralan, Mary Donnabelle Balela	Dr. Cybelle Concepcion M. Futralan

## ICSET 2025 Parallel Technical Sessions Working Program

Session Theme: Energy Efficiency, and Sustainable Energy				
Speaker/Lead Presenter: Dr. Kalidasan Balasubramanian, Sunway University, Malaysia				
Session Chair: Dr. Kalidasan Balasubramanian, Sunway University, Malaysia				
Session Co-Chair: Dr. Blessie A. Basilia, Mapua University				
Moderator/Coordinator: Xperto/Billy Joe				
Venue: <i>Sampaguita B</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25022	Pyrolysis of Tetrapod Energised Phase Change Material: Kinetic and Thermodynamic Analysis Using the Coats-Redfern Technique	Kalidasan Balasubramanian, Adarsh Kumar Pandey, Yogendra Kumar Mishra, Saidur Rahman	Kalidasan Balasubramanian
2	25005	Application of Storing, Avoiding, Removing, Slowing (S.A.R.S.) Action in Enhancing the Building Efficiency and Thermal Environment of a Sports Complex	Sheila V. Elardo, Amiel John M. Parreno	Sheila V. Elardo
3	25007	A Survey on Household Energy Consumption Pattern in an Urban Community in Tondo, Manila	Sheila V. Elardo, Maria Beatrice Portillano, Michelle Jewel Rodriguez	Sheila V. Elardo
4	25015	Empowering Rice Farming Communities in the Philippines Through Sustainable Rice Straw Bioenergy Solutions	Czaneil Gomez, Samuel Sogbesan, Katie Ching, Mirjam Roder	Czaneil Gomez
5	25030	The Effects of Temperature on Biogas Production Rate and Purity	Romeica Noe Z. Ramorin, Christian Mark M. Felix, Roger Jay L. De Vela	Roger Jay L. De Vela
6	25014	Operational Considerations for Direct Coal and Biomass Co-firing in Circulating Fluidized Bed Boilers for Suitable Energy Generation in the Philippines	Renz Lui B. Del Rosario, Jaime P. Honra, Ricky D. Umali	Renz Lui B. Del Rosario
7	25045	Develop a Solar-Powered Fuzzy Logic Control (FLC) Ventilation and Thermoelectric Cooler (TEC)-Based Air Conditioning System	Adrian P. Almarez	Adrian P. Almarez
8	25052	The Effects of Ferric Oxide on Anaerobic Co-Digestion of Slaughterhouse Wastewater and Food Waste for Biogas Production	Steffany Marie Nina B. Santos, Kyle Adrienne T. Valenzuela, Michelle C. Almendrala, Louise Grace S. Avena-Ardeta	Michelle C. Almendrala
9	25086	Evaluation of Various Combination Ratios of Mangosteen Pericarp and Ti- Plant-Based Dyes for Gratzel Cell Efficiency Using Response Surface Methodology	Tristan Roy Panaligan, Alyza Anzano, Bruce Benjamin De Leon, Ronesse Angel Rellin, Jesusino Aquino	Bruce Benjamin De Leon
10	25123	Floating Pico-Hydroelectric Turbine: A Portable Alternative Energy Source for Remote Areas with Flowing Bodies of Water	Maria Carmela Capul, Jhoncell Loyola, Kyla Marie Mostizo, Fiacre Duncan Oida	Maria Carmela Capul

## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Disaster Risks Reduction, Climate Action and Water Crisis</b>				
Speaker/Lead Presenter: Robert Kurkjian, PhD - Environmental Strategies International, USA				
Session Chair: Robert Kurkjian, Ph.D - Environmental Strategies International, USA				
Session Co-Chair: Thaddeus P. Lawas, PhD - University of the Philippines Los Banos				
Moderator/Coordinator: Xperto/Melchora Cabelis				
Venue: <i>Sampaguita C</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25151	Water in Crisis: Case Studies from Rural Bangladesh, Watersheds of Southern California, and the Oceans of the Philippines	Robert Kurkjian, Matthew Karanian	Robert Kurkjian, PhD
2	25048	PM 10 Dispersion Modelling Based on Physical Solar Model v3 and Digital Elevation Model from Synthetic Aperture Radar for Environment Management	Kristofer R. Sano, Cris Edward F. Monjardin, Jacque Lynn F. Gabayno	Kristofer R. Sano
3	25051	Predicting Water Availability in the Angat Reservoir in the Philippines Under Climate Change Scenarios Using HEC-HMS	Cris Edward F. Monjardin, Angela S., Parais, John Carlo F. Recta, Kristyll Evanie Wagan, Kevin Paolo Robles	Kevin Paolo Robles, PhD
4	25057	A Sustainable Approach Prediction on Preparation and Mitigation Intention for Flash Flood Using Neural Network-Based Decision Support System	Jan Gabriel Garbo, Terrence Manuel Palad, France Eunice Fabon, Ardivin Kester S. Ong	Terrence Manuel Palad
5	25095	Photogrammetric Survey of Cebu City's Rainwater Catch Basins	Randy Salazar, Everhero Kenneth Ruiz, Yuri Sesican	Randy Salazar
6	25117	Feasibility of TDR Cable Installation with Inclinometer Casing for Integrated Landslide Monitoring	Chia-Ling Chiang, April Mae Enero, Hao-Ruei Jhan, Delia B. Senoro, Chih-Ping Lin	April Mae Enero

## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Carbon Reduction &amp; Environmental Sustainability</b>				
Speaker/Lead Presenter: Prof. Ruey-An Doong				
Session Chair: Dr. Angelo Earvin S. Choi, De La Salle University				
Session Co-Chair: Dr. Jacque Lynn F. Gabayno, Mapua University				
Moderator/Coordinator: Xperto/Josel Godezano				
Venue: <i>Acacia Hall</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25013	Enhanced Visible Light-Driven Photodegradation of Enrofloxacin with MXene@g-C <sub>3</sub> N <sub>4</sub> /MIL-101(Fe) Heterojunction	Zhi-Fuh Lin, Prashanth Venkatesan, Ruey-An Doong	Ruey-An Doong
2	25043	CFD Simulation: Methane Flow in a Laboratory-Scale Rotary Dryer for Dewatered Sludge in a Municipal Wastewater Treatment Plant	Chris Anthony B. Javier, Jaime P. Honra	Chris Anthony B. Javier
3	25024	Carbon Reduction Technology for Capturing Flue Gas CO <sub>2</sub> by Recovering Calcium Ions from Fly Ash	Ming-Chun Lu, Po-Yang Lu	Po-Yang Lu
4	25078	Scalable and Sustainable Carbon-Neutral Autonomous Decentralized DC Grid Configuration for Wide-Area and Broadband Smart Agricultural System	Shunsuke Yoshihara, Sogo Kuroda, Akira Watanabe, Naoto Yoshimoto	Shunsuke Yoshihara



## ICSET 2025 Parallel Technical Sessions Working Program

<b>Session Theme: Geochemistry, Agrogeology, and Geotechnical</b>				
Lead Speaker: Ella Nicole Sarmiento				
Session Chair: Dr. Ma. Carmencita B. Arpa, Mapua University				
Session Co-Chair: Dr. Loucel E. Cui, University of the Philippines Los Banos				
Moderator/Coordinator: Xperto/Melchora Cabelis				
Venue: <i>Sampaguita C</i>				
Item	Paper Code	Presentation Title	Authors	Presenter
1	25039	Numerical Investigation of Dipole Method to Enhance Leak Detection of Landfill Liner	Chong-Yu Huang, Ella Nicole Sarmiento, Ayra Mae M. Mascarina, April Mae P. Enero, Delia B. Senoro, Chih-Ping Lin	Ella Nicole M. Sarmiento
2	25076	Theoretical, Experimental, and Numerical Evaluation of Double Plate Metallic Slit Damper in Reinforced Concrete Frames	John Mark Payawal, Don-Keon Kim, Cris Edward Monjardin, Kevin P. Robles	John Mark Payawal

## ICSET 2025 Parallel Technical Sessions Working Program

### B| ONSITE POSTER PRESENTATION (January 21 – 22, 2025)

Item	Paper Code	Presentation Title	Authors	Presenter
Coordinator: Eugene P. Lazo, Chloe Anne B. Victoria				
1	25025	Design and Fabrication of Integrated Multi-Channel Nutrient Film Technique (NFT) Hydroponics System and Pico-Hydroelectric Power System	Cyrel Justine Lonzame, Scott Aaron P. Sumagui, Kerwin Ray S. Marbella, Rem Angelo C. Rivera, Reyлина Garcia Tayactac, Igmedio F. Isla, Jr., Jaime P. Honra, Ricky D. Umali	Reyлина Tayactac
2	25027	Implications of Conducive Learning Environment as a form of Expanded Learning Opportunity in Outcomes-Based Teaching and Learning: An Assessment of the Learning Modality Preference of University Students in General Education Courses	Geoffrey Rhoel C. Cruz	Geoffrey Rhoel C. Cruz
3	25031	Sustainable Energy from the Deep: Assessing OTEC's Feasibility for the Philippines Archipelago	Louiereine C. Penilla	Louiereine C. Penilla
4	25032	Addressing Energy Storage Challenges for Sustainable Power Generation: A Comprehensive Review Focused on the Philippines	Edwin L. Licos, Jr., Ricky D. Umali	Ricky Umali
5	25035	Tri-X Modality Continuance: A Digital Learning Innovation in the Context of the New Normal	Dr. Ma. Janice J. Gumasing	Dr. Ma. Janice J. Gumasing
6	25040	Trends and Emerging Technologies in Marine Sediment Quality Detection: Advances in Acoustic Propagation, eDNA, Remote Sensing, and AUVs	Eiffel Vincent C. Manansala, Delia B. Senoro	Eiffel Vincent C. Manansala
7	25044	Integrating Sustainability with Country Barnading: <i>Quo Vadis</i> Philippines	John Xavier S. Chavez	John Xavier S. Chavez
8	25049	Identification of Prevalent Diseases in <i>Ipomoea Batatas</i> (Sweet Potato) Plant Using ResNet50 Through Data Augmentation	Elaine Angela Ceballos, Gabriel Esley Javier, Charmaine Paglinawan	Elaine Angela Ceballos
9	25053	A detection method for floating debris in waterways using YOLOv9	Jan Edgar E. Tupas, Miguel T. Soniel, Christian Henry Miguel E. Caruz, Darryll B. Babar, John Paul Q. Tomas	Miguel T. Soniel
10	25056	Sustainable Business Strategy and Open Innovation Build-Up on Consumer Loyalty from Rewards and Gamification Program	Ardvin Kester S. Ong, Rae Joie N. Alayra, Benedict Christian R. Calimag, Chaed Zaynah Tolentino, Ma. Janice Gumasing	Chaed Zaynah Tolentino
11	25059	A comprehensive analysis of factors impacting user engagement in online adaptive learning systems using machine learning algorithm	Carlos Enrique V. Altamirano, John Matthew S. Elamparo, Ardvin Kester S. Ong	John Matthew Elamparo

## ICSET 2025 Parallel Technical Sessions Working Program

12	25060	Understanding Actual Cancel Culture Behavior Using Machine Learning: Examining The Interplay of Gen Z's Justice Perceptions and Behavioral Domains	Cheselle Jan Roldan, Ardvin Kester Ong, John Mark Lorkan J. Cea	Cheselle Roldan
13	25067	Predicting the Philippines' CO2 Emissions and its Primary Contributors using Deep Neural Network	Xyryll Kadatuan, Roden Lengson, Rhiane Josephine Tan, Niobi Reign Guinto, Andrei Joshua Catli, Joseph Albert Mendoza	Xyryll Kadatuan
14	25068	Designing a Branch Replenishment System of ABC Company: A case study	Tennessee Khayte Bayot, Klint Allen A. Marinas, Satria Persada	Tennessee Khayte Bayot
15	25069	A Novel Biodegradable Chitosan-based Films Reinforced with Citral Oil Nanoemulsion Encapsulating Anthocyanins with Enhanced Multifunctionality	Shih-Syuan Lin, Ying-Chen Chen, Girma Sisay, Hsin-Tang Lin, Yao-Tung Lin	Shih-Syuan Lin
16	25072	Baselining carbon emissions in vertical socialized housing using life cycle assessment	Rodel Conti Balbastro	Rodel Conti Balbastro
17	25075	Risk management in adopting green supply chain practices in the manufacturing set-up	Michael Andrew O. Yagin, Klint Allen A. Marinas	Michael Andrew Yagin
18	25077	PaMaNa Ferry Complex: Sustaining a transit network along the blue heritage	Jan Laren B. Bagonoc, Ar. Demetrio D. Alcaraz, Jr.	Jan Laren Bagonoc
19	25079	Advancing Community Resilience Through Sustainable Disaster Management: The Development of TheArk Multi-Sensor Flood Safety and Alarm System	Zachary Rylo Maceda, Maria Angela San Pedro, Madylaine G. Delfin	Zachary Rylo Maceda
20	25085	Multi-Criteria Evaluation of Renewable Energy Supplies of the Luzon Grid using AHP	Alexander Nicole Tan, Joshua Santos, Anak Agung Ngurah Perwira Redi	Alexander Nicole Tan
21	25088	Development of Geiger-Muller survey meter with switching boost converter and ESP8266 microcontroller for public access of environment radiation data through Safecast database	Kristofer R. Sano, Jessie Jaye Balbin, Jacque Lynn Gabayno	Kristofer Sano
22	25092	Design of Poultry Online Market and Breeding Platform Based on User Requirement	Paul Jerome Samosino, Grace Lorraine Intal, Jaymar Solis, Christian Nodado	Grace Lorraine Intal
23	25093	Actual Quantification of 3PL (Third-Party Logistics) Costs in Food Distribution of QSR's (Quick Service Restaurants) in Quezon City	Geoffrey L. Cueto, Yon Andrei C. Lopez, Cris Edward F. Monjardin	Yon Andrei Lopez
24	25098	Development and Application of a Waterproofing Membrane Using Recycled Polystyrene for Enhanced Structural Water and Moisture Protection	Juan Benigno A. Luarca, Gavin John M. Agustin, Juan Emmanuel M. Espino, Marlo Benedict A. Pajarillo, and Blessie A. Basilia	Juan Benigno Luarca
25	25099	3D Printed Shoe Dryer Housing for Durability and Moisture Resistance with PETG	Gabrielle T. Torres, Maxime Alcala, Russel Roy Y. Amor, Ariell D. Lovenia, and Blessie A. Basilia	Gabrielle Torres

## ICSET 2025 Parallel Technical Sessions Working Program

26	25103	Determining the Economic Order Quantity (EOQ) of ABC Company's Best – Selling Products using POM-QM for Windows Software	Tennessee Khayle Bayot, Klint Allen A. Marinas, Anak Agung Ngurah Redi	Tennessee Khayte Bayot
27	25108	Optimizing Gasoline Desulfurization: A Multi-Objective Fuzzy Systems Approach	Stephen Correa, Kate Andre Alviar, Angel Nicole Arbilo, Angelo Earvin Choi	Angelo Earvin Choi
28	25109	Smart Corn ( <i>Zea mays indenata</i> ) Analysis Network for Disease Detection through AI	Patcris Moncada, Shiela Tirol, Nino Abao	Patcris Moncada
29	25113	Data Compression in Wireless Sensor Nodes with the Application of Structural Health Monitoring	Juan Gabriel P. Potestades, Meo Vincent C. Caya, Febus Reidj G. Cruz	Juan Gabriel Potestades
30	25114	Evaluating Green Transportation Practices: Assessing Perceptions of E-Bike Adoption on supply Chain Efficiency in Transportation Logistics	Rae Joie N. Alayra, Benedict Christian R. Calimag, Chaed Zaynah C. Toletino, Jodi Marie V. Vistan, Klint Allen A. Marinas	Rae Joie N. Alayra
31	25115	Enhancing thermal comfort and movement in public Markets through informed space syntax approach: A case study of Lipa City Public Market	Angela Nicole Garing, Sierra Margaret Gutierrez	Angela Nicole Garing
32	25116	Artificial Intelligence for Membranes to Derive as Alternative Approach Towards Carbon Neutrality	Yi Liu, Chang Tang Chang	Yi Liu
33	25136	Smartphone Sensing for Road Anomaly Detection in Bicycle Transportation	Thomas Anthony Ortiz, Anton Domini Sta. Cruz, Rob Christian Caduyac	Thomas Anthony Ortiz
34	25140	Upcycling Marine Waste Paints to Sustainable Polymer Blends and Composites	Edgardo Apitana, Michelle Almendrala, Blessie Basilia	Edgardo Apitana

## ICSET 2025 Parallel Technical Sessions Working Program

### CJ ONLINE POSTER PRESENTATION (January 22, 2025; 10:00 – 14:00)

Item	Paper Code	Presentation Title	Authors	Presenter
Session Chair: Dr. Jacque Lynn F. Gabayno;				
Moderator/Coordinator: Xperto				
1	25047	Enhancing Employee Productivity and Satisfaction in Virtual Workplace Environments: Strategies for Improved Collaboration, Communication, and Team Dynamics	Benjamin Bisco, Jr., T.K. Bayot, M.S. Orticio, B.L. Ressureccion	Benjamin Jr. T. Bisco
2	25070	Avian Pro: Intelligent Robot for Philippine Sparrow Detection and Detering using Laser Point	Mae Garcillanosa, Jennifer Dela Cruz, Carl Mariz Bathan, Carlos Lyan De Guzman, Ryan Christian Vidal	Mae Garcillanosa
3	25091	Real-Time Detection of Children Ages 3 to 12 using YOLOv7-Tiny in Raspberry Pi with SMS Notifications	Elaiza hillary C. Apanto, Kallista Coleen T. Antenor, Joseph Bryan G. Ibarra	Elaiza Apanto
4	25096	Factors Influencing the Balance of Career and Academic Pursuit for Young Professionals (Aged 24-29): A Structural Equation Modeling Approach	Anna Pearl B. Iglesia	Anna Pearl B. Iglesia
5	25097	Integrating Sustainability and Quality Management Systems in the Supply Chain Department of a Pizza Chain in the Philippines: A Structural Modelling Approach	Anna Pearl B. Iglesia, Klint Allen A. Marinas	Anna Pearl B. Iglesia
6	25101	Empowering Supply Chain Resiliency through Data Analytics and Advanced Technology Systems for Streamlined Efficiency Among Manufacturers, Distributors, and Suppliers: A Bibliometric Overview	Niña Chayanne M. Caling, Satria Persada	Niña Chayanne M. Caling
7	25107	Integration of YOLOv8 and Gas Sensors (MQ136 & MQ137) for Freshness Classification of Chicken, Pork, and Beef Meat Sample	Amier Nicolette P. Argueza, Maria Sophia Senillo, Marloun Sejera	Amier Argueza/ Senillo
8	25124	Utilization of Agro-based Natural Fiber Composite in Floor Tiles Production	Christian Cyrus Hadlocon, Paul Kenneth Paras, Razzell Dunque, John Ralph Acosta, Johann Heinrich Malongo, Marilou Tomentos	Johann Heinrich
9	25125	Evaluation of Corrosion and Scaling Propensity in Swimming Pool Water through Langelier Saturation Index (LSI) of Selected Swimming Pools in Negros Oriental	Queenie Alayson Ocampo, Raymund Senador, John Deo Soligan, Johann Heinrich Malongo, Geraldine Quinones	Geraldine Quinones
10	25137	Establishing Parameters for Electricity Savings Potential through Targeted Energy Audit: A Case Study in Lanit Jaro Socialized Housing, Iloilo City	John Paul Amada, Sheila Elardo	John Paul Amada

## ICSET 2025 Parallel Technical Sessions Working Program

11	25141	Installing a Solar Panel Street Lights with CCTV Camera in Tarlac, Philippines' National Road: A Sustainable Study on Risk Assessment	Mark Alvin Paloma Montino, Klint Allen Marinas	Mark Alvin Montinio
12	25142	Tugon Pangkalikasan: Foundational participatory action research towards building a framework for ecological action	Rodrigo Emil Carreon, Nino Randy Flores	Rodrigo Emil Carreon
13	25147	Big Data Analytics in Customer Behavior and Market Trends: A Systematic Literature Review	Nina Chayanne Caling, Satria Persada	Nina Chayenne Caling

### D] ONLINE ORAL PRESENTATION (January 22, 2025; 10:00 – 14:00)

Period	Paper Code	Presentation Title	Authors	Presenter
Session Chair: Dr. Jacque Lynn F. Gabayno				
Coordinator: Xperto				
10:20 – 10:35	25010	Assessment of Food Waste in Marikina City's Food Establishments; A Comprehensive Waste Analysis and Characterization Study Towards Effective Food Wastes Management	Nelmar P. Porlaje Shawn Andrei V. Buenaventura Clark Dominique L. Cadion	Nelmar Porlaje
10:35 – 10:50	25071	Strategies for Continuous Improvement in Multinational Maintenance Operations: A Quality Management Perspective	Benjamin T. Bisco, Jr.. Klint A. Marinas	Benjamin T. Bisco, Jr..
10:50 – 11:05	25102	Vehicle Violation Detection Using Faster R-CNN and SPP-net in Bike Lane Traffic system	Hartford Aaron T. Ang Jaan Gabriel E. Ricaforte John Paul Q. Tomas	Hartford Aaron T. Ang
11:05 – 11:20	25112	Assessing Daylight Performance and Visual Comfort of Shopping Malls in the Province of Cavite, Philippines	Sierra Margaret Y. Gutierrez, Angela Nicole D. Garing	Sierra Margaret Y. Gutierrez
11:20 – 11:35	25120	The Impact of Sustainable Packaging on Consumer Attitudes and Purchasing Behavior in the Philippine E-Commerce Market	Alyannah Ysabel V. Almario, Alyssa Grace P. Bernadas, Juliene Danielle P. Maiquez, Rohn Xavier R. Yambot, Klint Allen A. Marinas, and Mary Joyce Nicole Manalo	Mary Joyce Nicole Manalo
11:35 – 11:50	25126	Non-Intrusive Coconut Maturity Characterization using Ultrasonic Wave Analysis with Machine Learning-Based Maturity Level Identification	Ben Cesar I. Cadungog, Ivan Michael Jon Galicia, Rhett Joshua L. Surban, Philip Virgil B. Astillo, Alvin Joseph S. Macapagal	Ivan Michael Jon Galicia
11:50 – 13:15	LUNCH BREAK			

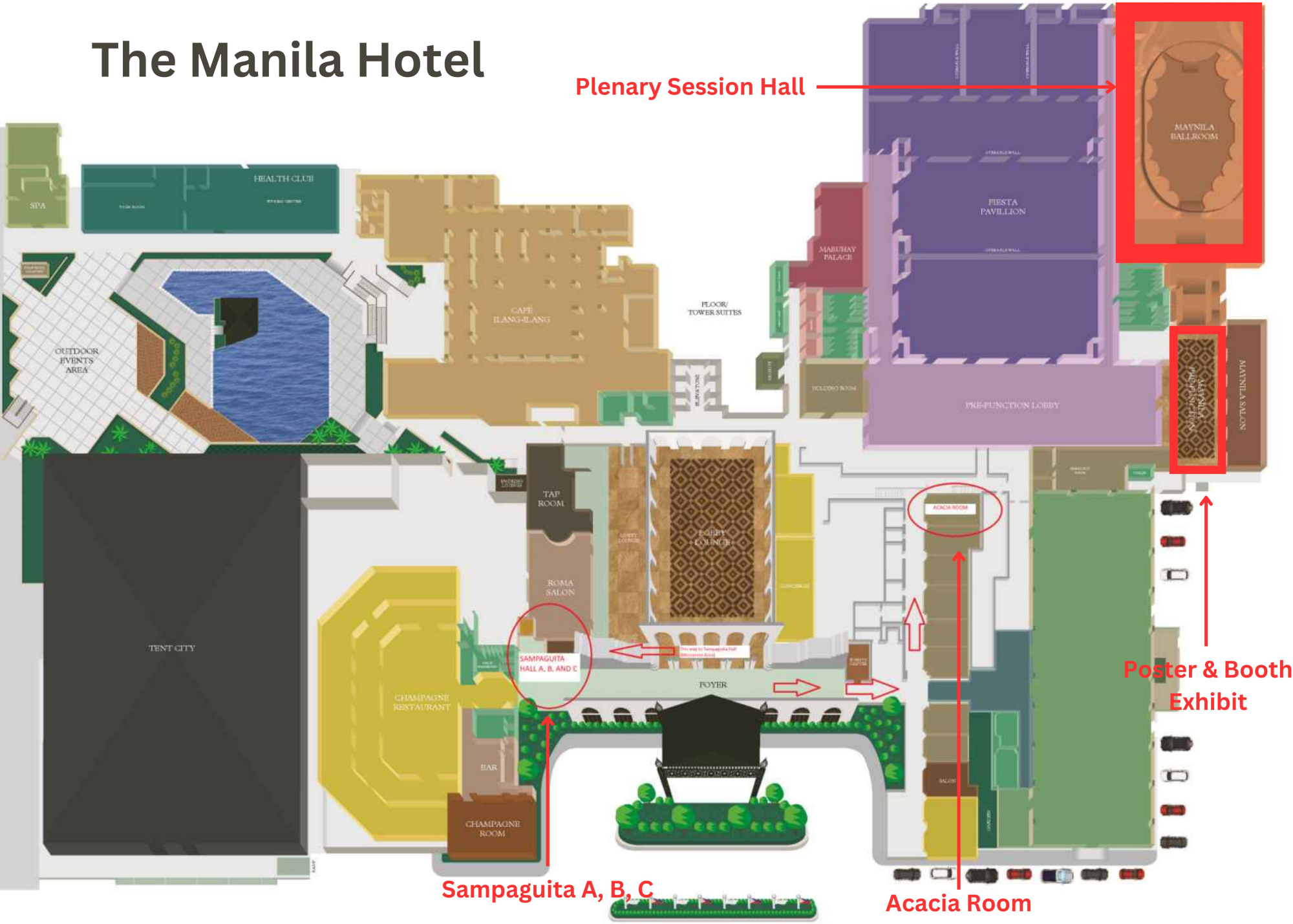
## ICSET 2025 Parallel Technical Sessions Working Program

13:15 – 13:30	25129	Plasma Gasification of Municipal Solid Waste from the Philippines: A Simulation and Optimization Study	Peter Julian N. Ungsod, Angelo D. Maalihan, Joseph Albert M. Mendoza	Angelo D. Maalihan
13:30 – 13:45	25139	Temperature Increase in the Philippines: the Case of the 3 Metro Manila Communities	Marie Grace Patadlas	Marie Grace Patadlas
13:45 – 14:00	25145	Application of Value Analysis and Engineering to the Energy Management Sustainability Practices of a Private Academic Institution	Katrina L. Lee Madylaine G. Delfin	Katrina L. Lee
14:00 – 14:15	25148	Design of an Embedded System for Real-Time Tomato Leaf Disease and Fruit Quality Monitoring	Jamaica Jel F. Lopez, Allen Ace R. Uy, Marlon V. Maddara, Vince Jebryl G. Montero	Vince Jebryl G. Montero
14:15 – 14:30	25149	Material Reusability in Mine Waste: A Review on Utilization of Gold Ore Tailings in Concrete Production	Juren Michael B. Padin, Kit Lester P. Balayo, Evan Myles S. Rapanot, Gernelyn T. Logrosa	Gernelyn Lagrosa
14:30 – 14:45	25089	EPC-APL-based Real-Time Filipino Sign Language (FSL) Interactive Tutoring Device	Jesma M. Amit, Coleen Cate P. Francisco, Charmaine C. Paglinawan	Coleen Cate P. Francisco
14:45 – 15:00	25036	Camera-Based Real-Time Indoor Fire and Smoke Detection Device with Integrated SMS and Alarm Notification System	John Patrick De Guzman, Francis Tristan Diaz, Joseph Bryan Ibarra	Francis Tristan Diaz

### NOTE:

1. Only Presenters who are onsite to present are considered for the Best Oral Presentation Award.
2. Only Winners for the ICSET 2025 Primary Awards who are onsite to receive his/her award shall be declared real winner. We will prepare the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in the list. In case the 1<sup>st</sup> is absent during the awarding ceremony, the ICSET 2025 International Committee will award the prize to the 2<sup>nd</sup> or 3<sup>rd</sup> in case the 1<sup>st</sup> and 2<sup>nd</sup> are absent.
3. Awards will be given in the afternoon of January 23 at MCC, Mapua Makati Extension Campus
4. Certificate of Participation will be available online after the event through the QR Code provided to the participants.
5. Those who will not join the University Networking Tour in the morning may proceed to Mapua Makati.

# The Manila Hotel



Plenary Session Hall

Poster & Booth Exhibit

Smpaguita A, B, C

Acacia Room