

## Technical Presentations Schedule

Day 1, Thursday February 5, 2015		
Time	Oral Highlights Session 1 Room: Multipurpose Hall – Henry Sy Bldg., 4 <sup>th</sup> Floor <i>Engineering</i>	Oral Highlights Session 2 Room: European Documentation and Resource Center – Henry Sy Bldg., 13 <sup>th</sup> Floor <i>Humanitarian Technology and the Environment</i>
1:30 – 3:15	<b>POH-1-2</b> Surface Modification of ceramic through HCl treatment and its effect on the growth of spray-pyrolized ZnO <i>Joven Paolo Angeles, Chelo Pascua and Ian Jasper Agulo</i>	<b>KS-1</b> Computer Vision Algorithm for Real Time Breast Cancer Self-Examination (20 minutes) <i>Elmer Dadios</i>
	<b>POH-1-3</b> Characterization of the aerodynamic effects of surface modification on Magnus rotor blades using ANSYS CFX <i>Neil Stephen Lopez, Brian Kieffer Mara, Brian Christopher Mercado, Luigi Andrew Mercado and Jose Miguel Pascual</i>	<b>POH-2-1</b> Ground Grid Integrity Testing Using Matlab Fuzzy Logic Toolbox <i>Bryan Dimayuga, Kevin Martin Jaron, Alexander Montero, Mark Kenneth Peros and Rionel Caldo</i>
	<b>POH-1-4</b> Analysis of microstructure transport properties of previous concrete from its X-ray microtomography images <i>Ana Karmela Sumabat, Neil Stephen Lopez, Bernadette Tablada and Michael Angelo Promentilla</i>	<b>POH-2-2</b> Low-Cost Autonomous MicroRobot for Quick Navigation <i>Imelda Martin, Cristina Dadula and Mac Vicmodo</i>
	<b>POH-1-5</b> Probabilistic Multi-disruption Risk Analysis in Bioenergy Parks via Physical Input-Output Modeling <i>Michael Francis Benjamin, Raymond Tan and Luis Razon</i>	<b>POH-2-3</b> Fuzzy Inference System for Health Monitoring Using Wireless Body Area Networks <i>Robert Kerwin Billones and Elmer Dadios</i>
	<b>POH-1-6</b> Carbon Capture and Storage (CCS) Source-Sink Matching with Consideration of Geographic Earthquake <i>Ana Karmela Sumabat and Raymond Tan</i>	<b>POH-2-4</b> Fuzzy Logic Based Path Planning for Quadrotor <i>Reagan Galvez</i>
	<b>POH-1-7</b> Evaluation of Drying and Grinding Process on the Extraction of Algal Protein from <i>Scenedesmusobliquus</i> using Taguchi Method <i>Aristotle Ubando, Raymond Tan, Alvin Culaba, Manny Uy and Joel Cuello</i>	<b>POH-2-5</b> Optimizing the Bus Schedules in Epifanio Delos Santos Avenue Using Fuzzy Rule Based System <i>Ramon Christhoper Intal, Elmer Dadios and Alexis Fillone</i>
	<b>POH-1-8</b> Spatial Analytic Hierarchy Process for Ranking Potential Algal Cultivation Sites in the Philippines <i>Aristotle Ubando, Neil Stephen Lopez, Ana Karmela Sumabat, Jose Bienvenido Manuel Biona, Alvin Culaba, Michael Angelo Promentilla, Raymond Tan, Bjorn Santos and Joel Cuello</i>	<b>POH-2-6</b> Predictive Assessment of Customer Satisfaction Using Multivariate Fuzzy Parameters <i>Donabel Abuan and Elmer Dadios</i>

# 2015 ANNUAL PAASE MEETING AND SYMPOSIUM

De La Salle University, Manila, Philippines

February 5-7, 2015

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1:30 – 3:15	<b>POH-1-9</b> Adaptive Optimal Scheduling of Public Utility Buses in Metro Manila Using Fuzzy Logic Controller <i>Cyrill Escolano, Elmer Dadios and Alexis Fillone</i>	<b>POH-4-6</b> Prediction of Diabetes on Women using Decision Tree Algorithm <i>Jefferson Gante Sanidad, Argel Bandala, Bernard Gante Sanidad, Sheryl Sanidad Marfil</i>
	<b>POH-1-10</b> Adaptive Driving Route of Busses along EDSA using Fuzzy Logic <i>Bernard Yasay, Elmer Dadios and Alexis Fillone</i>	<b>POH-2-8</b> Fuzzy Logic Approach to Tourist Trap Determination <i>Juan Raphael Seña, Elmer Dadios and Carlo Noel Ochotorena</i>
	<b>POH-1-11</b> Dakila: A Low-Cost Micro-Robot Racer <i>Cecille Adrienne Ochotorena, Cyrill Escolano, Reagan Galvez, Ramon Christopher Intal, Bernard Yasay and Elmer Dadios</i>	<b>POH-2-9</b> A Strategic Location Planner for Businesses using Fuzzy Logic <i>Reich Canlas, Elmer Dadios, Carlo Noel Ochotorena and Juan Raphael Sena</i>
	<b>POH-1-12</b> Underwater Mobile Sensor Network Using Directed Diffusion-Fuzzy Logic (DD-FL) Routing Protocol for Object Location Tracking Task <i>Marck Vicmudo and Elmer Dadios</i>	<b>POH-2-10</b> Fuzzy Logic Controller for Alignment Formation in Quadrotor Unmanned Aerial Vehicles (QUAVs) <i>Jose Martin Maningo, Gerard Ely Faelden, Reiichiro Christian Nakano, Argel Bandala and Elmer Dadios</i>
	<b>POH-1-13</b> Simulation of Audio Classification for Event Detection Using Adaptive Neuro Fuzzy Inference System for a Public Transport Vehicle <i>Cristina Dadula and Elmer Dadios</i>	<b>POH-2-11</b> Design and Development of an Infrared-based Remote-Controlled Micro Robot: An entry to the 2014 International Micro Robot Maze Contest <i>Jose Martin Maningo, Gerard Ely Faelden, Reiichiro Christian Nakano, Argel Bandala and Elmer Dadios</i>
	<b>POH-1-14</b> Development of a Remote Controlled Mobile Robot for Toy Application using RF Module in PIC Microcontroller <i>Rionel Caldo, Donabel Deveas and Elmer Dadios</i>	
	<b>POH-1-15</b> Fuzzy Estimation of Depth Maps from Coded Aperture Imaging Using Color Filters <i>Cecille Ochotorena, Carlo Noel Ochotorena and Elmer Dadios</i>	
	<b>POH-1-1</b> Development and Evaluation of a Modified Luus-Jaakola Adaptive Random Search Algorithm <i>Sed Anderson Holaysan, Luis Razon and Raymond Tan</i>	

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3:30 – 5:00	<b>POH-3-1</b> Human brain microRNA in chlorpyrifos toxicity and analysis of their target gene network <i>Kimberly Benjamin, James Andrew Bollozos, Elmer Jason Cruz, Marla Endriga and Deocaris Custer</i>	<b>POH-4-1</b> An approach in the optimization of the flight time of a swarm quadcopter system using Fuzzy Logic <i>Angelo Sam Capila</i>
	<b>POH-3-2</b> Management of Estrogen Toxicity in Shallow Streams <i>ShereePagsuyoin</i>	<b>POH-4-2</b> Fuzzy Logic-Based Congestion-Aware Geographical Routing (CAGR) for Vehicular Ad-Hoc Networks (VANETs) <i>Joel Delos Angeles and Elmer Dadios</i>
	<b>POH-3-3</b> Phytochemical Screening, and Evaluation of the Toxicity, Antimicrobial and Anthelmintic Properties of the Different Extracts from the Air-dried Seeds of <i>Areca catechu</i> Linn. <i>Geneva Louise Salutan and Merell Billacura</i>	<b>POH-4-3</b> Fuzzy Logic for Smart Lake <i>Francisco Culibrina and Elmer Dadios</i>
	<b>POH-3-4</b> Synthesis and Photocatalytic Activity of Zinc Oxide Microflowers via Electrochemical Process and UV-VIS Analysis <i>Gaia Maria Javier, Jamela Pangasinan, Aixeen Fontanilla and Ian Jasper Agulo</i>	<b>POH-4-4</b> Microbot TIKAS <i>Robert Kerwin Billones, Sam Capilla, Francisco Culibrina, MacmacMosqueda, Mackie Dizon and Elmer Dadios</i>
	<b>POH-3-5</b> Electrochemical synthesis and photocatalytic properties of ZnO microflakes <i>Climson Ford Inso and Ian Jasper Agulo</i>	<b>POH-4-5</b> Fuzzy Logic Based Algorithm for Quadrotor stabilized point-to-point movement <i>Reiichiro Nakano, Gerald Faelden, Jose Martin Maningo, Argel Bandala and Elmer Dadios</i>
	<b>POH-3-6</b> Layer-by-Layer Immobilization of Gamma-Irradiated Polyacrylate-Stabilized Silver and Titanium Dioxide Nanocomposites <i>Ken Aldren Usman, Lawrence John Paulo Trinidad and Leon Payawan Jr.</i>	<b>POH-2-7</b> Fuzzy Logic Controller for Cooperative Tasks in Quadrotor Unmanned Aerial Vehicles (QUAVs) <i>Gerard Ely Faelden, Jose Martin Maningo, Reiichiro Christian Nakano, Argel Bandala and Elmer Dadios</i>

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3:30 – 5:00	<b>POH-3-7</b> Mango Peel Extract Mediated Synthesis of Silver Nanoparticle and its Application on Biosensor Current Response Enhancement <i>Yomkippur Perez, Lawrence Trinidad, Erika Mae Espejo, Riza Gabriela Bonifacio, Jojo Garcia, Maria Myrelle Quiambao, Arianne Aquino and Hilbert Magpantay</i>	<b>POH-4-7</b> Life-cycle Greenhouse Gas and Non-renewable Energy Assessment of Ammonia Fuel Mixtures as Fuel <i>Kristian Ray Angelo Are, Luis Razon and Raymond Girard Tan</i>
	<b>POH-3-8</b> Ultrafine nanofabrication of Polyvinyl Alcohol (PVA)-Gelatin nanofibers via electrospinning using a tri-solvent system <i>Jopeth Ramis</i>	<b>POH-4-8</b> Design of CO <sub>2</sub> Enhanced Oil Recovery Systems with Geological Sequestration as a Strip Packing Problem <i>John Frederick Tapia, Jui Yuan Lee, Dominic Foo, Raymond Ooi and Raymond Tan</i>
	<b>POH-3-9</b> A New Preparation of Peroxynitrite that Does Not Involve Nitrite <i>Joel Jorolan, Katrina Miranda, Lisa Ann Buttitta and Cheryl Cheah</i>	<b>POH-4-9</b> Life Cycle Impact of Paper and Plastic Carrying Bags based on the Philippine Material and Energy Supply Chain <i>Jose Bienvenido Manuel Biona, Jeremias Gonzaga, Hazel Claire Tan and Aristotle Ubando</i>
	<b>POH-3-10</b> Characterization of Extracted Chitin Upon Adsorption of Ferrous Ions <i>Mark Tristan Quimque and Grace Angelie Dal</i>	<b>POH-4-10</b> FLC-Based Indoor Air Quality Assessment for ASHRAE Standard Conformance <i>Rionel Caldo</i>
	<b>POH-3-11</b> On The Distribution of the Sums, Products and Quotient of Lomax Distributed Variables Based on FGM Copula <i>Jayrold Arcede and Milburn Macalos</i>	<b>POH-4-11</b> Polarized Transmitted Light Microscopy and Scanning Electron Microscopy of Asbestos in the Drinking Water in Selected Areas in Mindanao State University – Main and Marawi City in the Year 2012 and 2014 <i>Jonah Joy Aquino, Icee Pacon and Merell Billacura</i>
	<b>POH-3-12</b> Improvement of the Rellich Inequality and its applications <i>Alnar Detalla, Toshio Horiuchi and Hiroshi Ando</i>	
	<b>POH-3-13</b> Laser Irradiation of Graphene Oxide for Electrochemical Capacitors <i>Wendell Manuel, Szeemaine Tigno and Ian Jasper Agulo</i>	

## 2015 ANNUAL PAASE MEETING AND SYMPOSIUM

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<b>Day 2, Friday February 6, 2015</b>		
<b>Time</b>	<b>Oral Session 1</b> Room: Multipurpose Hall – Henry Sy Bldg., 4 <sup>th</sup> Floor <i>USAID STRIDE</i>	<b>Oral Presentation 1</b> Room: European Documentation and Resource Center – Henry Sy Bldg., 13 <sup>th</sup> Floor
	<b>Title</b>	
2:30 – 2:50	<b>OS-1</b> The USAID STRIDE Program in the Philippines – Its Objectives, Plans, Progress and Status <i>Oscar Manny Uy and David Hall</i>	<b>OP-1-1</b> Development of a Low-Cost Photobioreactor for the Production of Spirulina for Aquaculture <i>Elvis Chua, Maria Krishna de Guzman, Ramon Macaraig, Lea Cristina Macaraig and Fabian Dayrit</i>
2:50 – 3:10		<b>OP-1-2</b> The Biology of the Angel Wing Clam ( <i>Pholas orientalis</i> ) <i>Philip Ian Padilla, Rommel Gestueo, Mayflor Sibonga, Venice Hulleza, Abigail Puno, and Jane Geduspan</i>
<b>Time</b>	<b>Oral Session 2</b> Room: Multipurpose Hall – Henry Sy Bldg., 4 <sup>th</sup> Floor <i>USAID STRIDE Funded Projects</i>	<b>Oral Presentation 2</b> Room: European Documentation and Resource Center – Henry Sy Bldg., 13 <sup>th</sup> Floor
3:30 – 3:50	<b>OS-2-1</b> Mining Bacteria-derived human host cell signaling modulators for targeted drug discovery <i>Joyce Ibana, Lilibeth Salvador-Reyes and Ashok Aiyar</i>	<b>OP-2-1</b> New business models for solar home systems: lessons from East Africa <i>Ernesto Terrado and Ernie Terrado</i>
3:50 – 4:10	<b>OS-2-2</b> A registry of Philippine coffee varieties and SNP markers for improved production <i>Ma. Carmen Ablan, Ruel Mojica, Eli Meyer</i>	<b>OP-2-2</b> Analysis of Drought Risk Management Strategies using Dynamic Inoperability Input-Output Modeling and Event Tree Analysis* <i>Joost Santos, Sheree Pagsuyoin, Lucia Herrera, Raymond Tan and Krista Yu</i>
4:10 – 4:30	<b>OS-2-3</b> Pilot Deployment and R & D of a Multi-feedstock Village-Scale Modularized Kits for Bioethanol Production <i>Shirley Agrupis</i>	<b>OP-2-3</b> Synthesis of Transparent Carbon Nanotubes by Atomization of Ethanol in an Atmospheric Chemical Vapor Deposition System <i>Rontgen Gapusan, Aian Ontoria, Wilbur Galarion, Ian Jasper Agulo, Alipio Garcia and Chelo Pascua</i>
4:30 – 4:50	<b>OS-2-4</b> Finding solutions to precocious flowering of <i>Stevia rebaudiana</i> in the Philippines <i>Josephine F. Cruz, Maria Elena Quimio</i>	<b>OP-2-4</b> Progress of Carbon-based Materials Research in the Philippines for Energy Harvesting and Storage and Other Potential Applications <i>Ian Jasper Agulo, Rontgen Gapusan, Aian Ontoria, Wilbur Galarion, Wendell Manuel, Szeemaine Tigno, Chelo Pascua and Alipio Garcia</i>
4:50 – 5:10	<b>OS-2-5</b> Expanded Organo-Bentonite Nano Filler for High Value-Added Rubber Products <i>Bryan Pajarito</i>	<b>OP-2-5</b> Record High Sea Surface Temperature in the Pacific Ocean and Its Relation to Typhoon Haiyan <i>Josefino C. Comiso, Gay Jane P. Perez and Larry V. Stocks</i>

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