

LIST OF ABSTRACTS FOR SCIENTIFIC POSTERS PRESENTATION

41st Annual Scientific Meeting; 10-11 July 2019

THEME: "Caring for Our Nations Carrying Capacity"

**Mathematics and Physical Sciences Division**

NO.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	AFFILIATION	TITLE OF PAPER
<b>CHEMISTRY</b>					
<b>mps01</b>	Angelica A. Macalalad, Diana Rica B. Godez, Kristine C. Llaneta, Bryan John A. Magoling	Angelica A. Macalalad	Angelica A. Macalalad	Batangas State University, Rizal Ave., Batangas City	Optimization and Characterization of Activated Carbon from Cacao Pods
<b>mps02</b>	Maria Jannell Feliz A. Magnaye <sup>1,2*</sup> , Floirendo P. Flores <sup>2</sup> , Arvin Paul P. Tuaño <sup>3</sup> , Lotis E. Mopera <sup>2</sup>	Maria Jannell Feliz A. Magnaye	Maria Jannell Feliz A. Magnaye	1 Philippine Rice Research Institute Los Baños, Pili Drive, UP Los Baños Campus, College, Laguna; jannellmagnaye@gmail.com 2 Institute of Food Science and Technology, College of Agriculture and Food Science, University of the Philippines Los Baños, College, Laguna 3 Institute of Human Nutrition and Food, College of Human Ecology, University of the Philippines Los Baños, College, Laguna	Preliminary Investigation of Rice Bran Protein as Adjunct in the Preparation of $\beta$ -carotene Coacervate

NO.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	AFFILIATION	TITLE OF PAPER
mps03	Jarren Neil D.C. Ricafort, Hannah Grace D. Geronimo, Jonyl L. Garcia, and Bernard John V. Tongol <sup>2, 3, 4</sup>	Jarren Neil D.C. Ricafort	Jarren Neil D.C. Ricafort	Department of Math and Physics, College of Science; Research Center for the Natural and Applied Sciences; The Graduate School; Department of Chemistry, College of Science, University of Santo Tomas, Manila 1015; Chemistry Department, Adamson University, Manila 1000	Optimization and Performance Evaluation of a Symmetric Direct Ethanol Fuel Cell Based on PtCo/C Electrocatalyst
mps04	Lloyd Arvin M. Malaluan, Roberto M. Malaluan	Lloyd Arvin M. Malaluan	Lloyd Arvin M. Malaluan	Father Saturnino Urios University, San Francisco St., Butuan City, Agusan del Norte	Fractionation of Rice Bran ( <i>Oryza sativa</i> ) VA-286 Variety Using Supercritical Carbon Dioxide (SC-CO <sub>2</sub> )
mps05	Julius L. Leaño, Jr., Carl Osby Mariano, Sebastian Mahlik, Tadeusz Lesniewski, Marek Grinberg, Hwo-Shuenn Sheu, Shu-Fen Hu and Ru-Shi Liu	Julius L. Leaño Jr.	Julius L. Leaño Jr.	Philippine Textile Research Institute, Gen. Santos Avenue, Bicutan, Taguig City	Spectral Tuning of Isostructural Sr <sub>1-x</sub> Bax[Mg <sub>2</sub> Al <sub>2</sub> N <sub>4</sub> ]:Eu <sup>2+</sup> (x = 0-1) for Solid State and Agricultural Lighting Applications
mps06	Allan Patrick G. Macabeo, <sup>1,*</sup> Mohd Tajudin Mohd Ali <sup>2</sup> , Andreas Kreuzer, <sup>2</sup> and Oliver Reiser <sup>2</sup>	Allan Patrick G. Macabeo	Allan Patrick G. Macabeo	<sup>1</sup> Laboratory for Organic Reactivity, Discovery and Synthesis (LORDS), Research Center for the Natural and Applied Sciences, University of Santo Tomas, España Blvd., 1015 Manila <sup>2</sup> Institute fuer Organische Chemie, Universitaet Regensburg, Universitaetsstrasse 31, D-93053 Regensburg, Germany	Catalytic Asymmetric Dearomatizations of Furan and Benzene as Key Routes for the Enantioselective Synthesis of Lignans and Geissman-Waiss Lactones

NO.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	AFFILIATION	TITLE OF PAPER
mps07	Rose Ann B. Bautista, Richard C. Aragon, Pamela Sabado, Fredegusto P. David and Custer C. Deocaris	Rose Ann B. Bautista	Richard C. Aragon	1Center for Astronomy Research and Development, Rizal Technological University, Mandaluyong City, Philippines  2Institute of Mathematics, University of the Philippines-Diliman, Quezon City, Philippines  3InnovaSpace Ltd., London, UK	Simulation of Chemotons in Interstellar Gaseous Clouds: Implications for Silicon-Based Life in the Universe
mps08	Lance Aaron G. Tan, Arvin Paul P. Tuaño, Mia Bianca S. Hernandez, Ramon E. Lu Jr.	Lance Aaron G. Tan	Lance Aaron G. Tan	General Education Department, College of Humanities and Sciences, De La Salle Medical and Health Sciences Institute, Dasmariñas City, Cavite 4114	Antioxidant Capacity of Soluble Proteins and their Peptic Hydrolysates Extracted from Raw and Cooked Commercially Available Oatmeal
mps09	Enrico D. Legaspi, Salvador C. Buenviaje Jr., Leon M. Payawan Jr.	Enrico D. Legaspi	Enrico D. Legaspi	Institute of Chemistry, College of Science, University of the Philippines, Diliman, Quezon City, 1101, Philippines  Materials Science and Engineering Program, College of Science, University of the Philippines, Diliman, Quezon City, 1101, Philippines	Comparative Surface Characterization of Bare Zinc Oxide Versus Poly(acrylic acid)- encapsulated Zinc Oxide Nanoparticles Synthesized Through Sol-Gel Technique
mps10	Ser John Lynon P. Perez, Reynaldo Carlos K. Montalbo and Susan D. Arco	Ser John Lynon P. Perez	Ser John Lynon P. Perez	Natural Sciences Research Institute (NSRI), University of the Philippines Diliman, Quezon City 1101, Synthetic Organic Chemistry Laboratory, Institute of Chemistry, University of the Philippines Diliman, Quezon City 1101	RAFT Polymerization of Di(ethylene glycol) Methyl Ether Methacrylate in Hexafluorophosphate-Containing Ionic Liquids Using Different Chain Transfer Agents

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<b>MATHEMATICS</b>					
<b>mps11</b>	Christian Alvin H. Buhat, Jomar F. Rabajante, Vachel Gay V. Paller	Christian Alvin H. Buhat	Christian Alvin H. Buhat	Institute of Mathematical Sciences, University of the Philippines Los Banos, Los Banos, Laguna	Spatiotemporal Modelling of Parasite Aggregation in Fish Hosts from a Lentic Ecosystem
<b>mps12</b>	Jomar F. Rabajante, Chaitanya S. Gokhale, Elizabeth L. Anzia	Jomar F. Rabajante	Elizabeth L. Anzia	1. Institute of Mathematical Sciences and Physics, University of the Philippines Los Baños, Philippines 2. Department of Evolutionary Theory, Max Planck Institute for Evolutionary Biology, Germany	Model of mechanistic underpinnings of parasite aggregation
<b>mps13</b>	Jonn Angel L. Aranas, Mark L. Loyola	Jonn Angel L. Aranas	Jonn Angel L. Aranas	Department of Mathematics Ateneo de Manila University Katipunan Avenue, Loyola Heights, Quezon City 1108, Philippines	Regular Polyhedra Associated with Non-Crystallographic Coxeter Groups
<b>mps14</b>	Paolo B. Araune, Mark L. Loyola	Paolo B. Araune	Paolo B. Araune	Mathematics Department, Xavier University – Ateneo de Cagayan Corrales Avenue, Cagayan de Oro City, Philippines  Department of Mathematics, Ateneo de Manila University Katipunan Avenue, Loyola Heights, Quezon City 1108, Philippines	Small Polyhedra of Order $2^m$ with Applications to Geometric Crystal Modeling

NO.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	AFFILIATION	TITLE OF PAPER
<b>mps15</b>	Rocky T. Marcelino <sup>1</sup> , Conсорcia E. Reano <sup>1*</sup> , Zita VJ. Albacea <sup>1*</sup> , Jorge Gil C. Angeles <sup>2*</sup> , Merlyn S. Medioro <sup>3*</sup>	Rocky/T/Marcelino	Rocky/T/Marcelino	Institute of Statistics, College of Arts and Sciences, University of the Philippines Los Banos	Maximum Likelihood of the Multinomial Distribution Parameters (MLMD) as a New Approach in Estimating Codon Usage Preference
<b>mps16</b>	Jackie D. Urrutia* , Lincoln A. Bautista	Jackie D. Urrutia	Jackie D. Urrutia	Polytechnic University of the Philippines Anonas Street Sta. Mesa Manila	Solid Waste Generation in National Capital Region: A Spatio-Temporal Approach
<b>PHYSICS</b>					
<b>mps17</b>	Lhevy D. Geraldo, Yasunori D. Hori, Mattheus Bartholomeus Nicolaas Kouwenhoven, Custer C. Deocaris	Lhevy D. Geraldo	Lhevy D. Geraldo	1Center for Astronomy Research and Development, Rizal Technological University, Mandaluyong City, Philippines; 2Astrobiology Center, National Institutes of Natural Sciences Division of Optical and Infrared Astronomy, National Astronomical Observatory of Japan, Tokyo, Japan; 3Department of Mathematical Sciences, Xi'an Jiatong-Liverpool University, Suzhou, China;4InnovaSpace Ltd., London, UK	Hot and Warm Jupiter Scattering in Solar-Type Stars

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<b>mps18</b>	Mae Joanne B. Aguila, Laurent Lefort	Mae Joanne B. Aguila	Mae Joanne B. Aguila	MJBAguila - Institute of Chemistry, University of the Philippines Los Banos, College 4031, Laguna, Philippines LLefort - InnoSyn B.V., Urmonderbaan 22, 6167 RD Geleen, The Netherlands	Hydrogenation of Esters Using a Non-Pincer Iridium Catalyst
<b>mps19</b>	Kui-Dong Riman, Christopher Llynard D. Ortiz, Hosea DL. Matel, Ricky B. Nellas	Kui-Dong Riman	Kui-Dong Riman	Research Center, Cavite State University - Don Severino De Las Alas Campus, Indang, Cavite	Computational Studies on the Enhancement of Thermostability and Activity of Yacon Sucrose: Sucrose 1-Fructosyltransferase
<b>mps20</b>	Alvie Astronomo, Carlos Encarnacion, Raphael Guerrero	Carlos/l/Encarn acion	Carlos/l/Encarn acion	Photonics Laboratory, Department of Physics, Ateneo de Manila University, Katipunan Ave, Quezon City, 1108 Metro Manila	Monte Carlo simulation of a LaBr <sub>3</sub> (Ce) detector response to gamma radiation
<b>mps21</b>	Gerlone M. Salazar, Nurzeba C. Sanoh and David P. Penaloza Jr.	David P. Penaloza Jr.	Gerlone M. Salazar	De La Salle University, 2401 Taft Avenue, Manila	Facile preparation of a polysaccharide-based self- healing composite material