

**LIST OF ABSTRACTS FOR SCIENTIFIC POSTERS PRESENTATION**  
**40h Annual Scientific Meeting; 11-12 July 2018**  
**Science and Technology-Enhanced Transformation for Sustainability and Resiliency (2018-2030)**  
**MATHEMATICS AND PHYSICAL SCIENCES**

No.	AUTHOR/S	MAJOR AUTHOR	PRESENTING AUTHOR	AFFILIATION	TITLE OF PAPER	REMARKS
<b>CHEMISTRY</b>						
MPS-01	Norman DS. Mendoza*1, Soledad S. Castañeda1, Charles Darwin T. Racadio1, Susan P. Abaño2, Charito M. Menguito2, Joey C. Castro2, Karlen C. Dawal1 and Raymond J. Sucgang1	Norman DS. Mendoza	Norman DS. Mendoza	1 Philippine Nuclear Research Institute, Commonwealth Ave., Diliman, Quezon City; correspondence: ndsmendoza@pnri.dost.gov .ph; +63-29-296011 local 276/291  2 National Water Resources Board, NIA Building, EDSA, Diliman, Quezon City	MPS - 01 Assessment of Groundwater System in Angeles and Clark, Pampanga using Isotope and Chemical Techniques	
MPS-02	Alwin J. Almag, Elaine M. Bernardo, Mae Joanne B. Aguila	Alwin J. Almag	Elaine M. Bernardo	Institute of Chemistry, College of Arts and Sciences University of the Philippines Los Baños, College-4031, Laguna Corresponding author: mbaguila@up.edu.ph	MPS - 02 Assessment of the catalytic activity of iron pincer complexes in the reductive cleavage of C-O bond in lignin model compound	

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MPS-03	Jeanne Terese T. Cu, Camille Rose V. De Guzman, Gladys Bathan, Ruel Z.B. Desamero and Elmer-Rico E. Mojica	Elmer-Rico E. Mojica	Jeanne Terese T. Cu	1Department of Biochemistry, Faculty of Pharmacy, University of Santo Tomas, jeanneterese.cu.pharma@u st.edu.ph, 2Department of Chemistry, York College, CUNY 3Department of Chemistry and Physical Sciences, Pace University, NYC	MPS-03 Binding of Nanoceramics with Serum Albumins	

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MPS-04	Salvador C. Buenviaje, Jr., Yasmin D.G. Edañol, Ken Aldren S. Usman, Roland V. Sarmago, Leon M. Payawan, Jr.	Salvador C. Buenviaje, Jr.	Salvador C. Buenviaje, Jr.	1Materials Science and Engineering Program, College of Science, University of the Philippines, Diliman, Quezon City 2Natural Sciences Research Institute, University of the Philippines, Diliman, Quezon City 3National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 4Institute of Chemistry, College of Science, University of the Philippines, Diliman, Quezon City Presenting Author email address: salvador.buenviaje19@gmai l.com	MPS-04 Chemical Synthesis and Characterization of Zinc Oxide-Polypyrrole Nanocomposites as Potential Photocatalyst	

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MPS-05	Jane Totobenazara, Patricia Bacalhau, Amor A. San Juan, Carolina S. Marques, Luis Fernandes, Albertino Goth, A. Teresa Caldeira, Rosario Martins, and Anthony J. Burke	Jane Totobenazara	Amor A. San Juan	<p>a Departamento de Química, Escola de Ciências e Tecnologia, Universidade de Évora, Rua Rom1/4o Ramalho 59, 7000-671 Évora, Portugal</p> <p>b Centro de Química de Évora, Institute for Research and Advanced Studies (IIFA), Universidade de Évora, Rua Ramalho 59, 7000 Évora, Portugal</p> <p>c Laboratório HERCULES, Institute for Research and Advanced Studies (IIFA), Universidade de Évora, Palçcio do Vimioso, Largo Marques de Marialva 8, 7000-809 Évora, Portugal</p> <p>d Chemistry Department, College of Arts and Sciences, Central Luzon State University, Science City of Muñoz, 3119 Nueva Ecija, Philippines</p> <p>email: amor.san_juan@upd.edu.p</p>	MPS-05 Design, Synthesis and Bioassays of 3-Substituted-3-Hydroxyoxindoles for Cholinesterase Inhibition	

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MPS-06	Liere Roe Dayao , Karen Santiago	Liere Roe Dayao	Karen Santiago	1Department of Math and Physics, College of Science; 2Department of Chemistry, College of Science; 3Research Center for Natural and Applied Sciences, University of Santo Tomas, España 1015, Manila	MPS - 06 DEVELOPMENT OF POLYANILINE-MODIFIED CARBON ELECTRODE FOR ELECTROCHEMICAL DETERMINATION OF ASCORBIC ACID	
MPS-07	Allen Marbert S. Lee, Eduardo C. Atayde, Jr., Susan D. Arco*	Allen Marbert S. Lee	Allen Marbert S. Lee	Institute of Chemistry, University of the Philippines, Diliman, Quezon City allen_vns22@yahoo.com	MPS-07 Dissolution of Cellulose in 1-Butyl-3-methylimidazolium Acetate	
MPS-08	Rosalinda C. Torres, PhD, RCh, Rikkamae Zinca Marie L. Walde, Rowelain Yumang, Peter Yuosef M. Rubio and Dominic Casais	Rosalinda C. Torres	Rosalinda C. Torres	Industrial Technology Development Institute Department of Science and Technology General Santos Ave., Bicutan, Taguig City, PHILIPPINES Tel. No.: (632) 837-20-71 loc. 2226/ Fax No.: (632) 837-20-71 loc. 2216 E-mail: lindactorres@yahoo.com, rctorres@itdi.dost.gov.ph	MPS-08 Effect of pH, light and temperature to the anthocyanin extract from Clitoria ternatea flowers	

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MPS-09	Eduardo Atayde Jr., Jonathan A. Patricio, Menandro Marquez and Susan Arco	Eduardo Atayde Jr.	Eduardo Atayde Jr.	aInstitute of Chemistry, University of the Philippines Diliman, Quezon City bSchool of Chemical Engineering and Chemistry, Mapua University, Manila prinz_jr21@yahoo.com, (02) 9205427	MPS-09 Electrochemical Characterization of 1-Methylimidazolium Acetate and Its Effect on the Properties of Electrospun Poly(Vinyl alcohol) Fibers	
MPS-10	Angelo Gabriel E. Buenaventura and Allan Christopher C. Yago,	Allan Christopher C. Yago	Angelo Gabriel E. Buenaventura	1Natural Sciences Research Institute, University of the Philippines – Diliman 2Institute of Chemistry, University of the Philippines - Diliman acyago@up.edu.ph	MPS-10 Electrochemical detection of Hydrogen Peroxide using Copper Oxide (CuO) Nanoparticles modified Multiwalled Carbon Nanotube Paste Electrode	
MPS-11	Jasper S. Dumalaog, Eduardo C. Atayde Jr.*, Jonathan N. Patricio*, Susan D. Arco*	Susan D. Arco	Jasper S. Dumalaog	Institute of Chemistry, University of the Philippines Diliman, Quezon City japdumalaog@gmail.com	MPS-11 Electrospun Poly(1-Hexyl-3-Vinylimidazolium Bromide)/Poly(Vinylidene Fluoride) Nanofibers as Supercapacitor Separator Membrane	

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MPS-12	Alex Carl L. Ng, Alan Rodelle M. Salcedo*, Fortunato B. Sevilla, III*	Alex Carl L. Ng	Alex Carl L. Ng	Department of Chemistry, College of Science, University of Santo Tomas, Espana Blvd., Manila 1015 Research Center for the Natural and Applied Sciences, University of Santo Tomas, Espana Blvd., Manila 1015 Tel. no.: 406-1611 loc. 8298/4045; e-mail add.: amsalcedo@ust.edu.ph	MPS-12 Ethanol vapor sensing with thermally reduced graphene oxide for potential application in breath alcohol detection	
MPS-13	Christine T. Bolo, Eduardo C. Atayde, Jr.*, and Susan D. Arco*	Christine T. Bolo	Christine T. Bolo	Institute of Chemistry, University of the Philippines Diliman, Quezon City christinebolo09@gmail.com	MPS- 13 Fabrication of MIP-Based Electrode for the Potentiometric Determination of Chloramphenicol and Method Validation	

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MPS-14	Christian Paul L. Ramos, Jannelle Cruz <sup>2</sup> and Marlon T. Conato ,	Christian Paul L. Ramos	Janelle D. Cruz	1Natural Sciences Research Institute, Miranda Hall, Velasquez cor. Quirino Streets University of the Philippines, Diliman, Quezon City, National Capital Region; 2Institute of Chemistry, Regidor Street, National Science Complex, University of the Philippines Diliman, Quezon City, National Capital Region Presenting author: cplramos28@gmail.com)	MPS-14 Heavy Metal Adsorption of Philippine Zeolite Nanocomposites for Wastewater Treatment	



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MPS-15	Shrawan Kumar Upadhyay, Ana Teresa B. Sucgang, Vita A. Anarna, Marivic S. Lacsamana, Maria Genaleen Q. Diaz, Mary Ann O. Torio	Shrawan Kumar Upadhyay	Vita A. Anarna	<p>1Institute of Chemistry - Graduate School, University of the Philippines Los Baños</p> <p>2Institute of Chemistry – College of Arts and Sciences, University of the Philippines Los Baños</p> <p>3Institute of Biological Sciences - College of Arts and Sciences, University of the Philippines Los Baños</p> <p>Rm. B307, Institute of Chemistry, Physical Sciences Bldg., University of the Philippines Los Baños   vitaanarna@yahoo.com   +639274713388</p>	MPS - 15 Introduction of the Cholesterol-Lowering Peptide, LPYPR, to the Major Storage Protein of Mung Bean [Vigna radiata (L.) Wilczek] through Site-Directed Mutagenesis	
MPS-16	Munir Baldomero, Jasper Madalipay*, Jerome Tolentino*, Henrison Sanchez*, Begie Perdigones* and Gerry Bagtasa*	Munir Baldomero	Munir Baldomero	<p>Institute of Environmental Science and Meteorology, University of the Philippines Diliman, Diliman, Quezon City 1101</p> <p>Tel No.: (02) 929-4250, mbaldomero@iesm.upd.edu.ph</p>	MPS - 16 Inventory of Atmospheric Pollutants in the Philippines from 1970 to 2010	

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MPS-17	Camille Mendoza, Mel Bryan L. Espenilla, Xandr Uboan, Carlo A. Arcilla and Marlon T. Conatua	Camille Mendoza	Mel Bryan L. Espenilla	a Institute of Chemistry, University of the Philippines, Diliman b National Institute of Geological Sciences, University of the Philippines, Diliman e-mail address: espenilla.melbryan@gmail.com	MPS- 17 Ion-exchanged Philippine bentonites: Preparation, characterization, and phenol adsorption property	
MPS-18	Cris Angelo M. Pagtalunan, Florentino C. Sumera,, and Marlon T. Conato,	Cris Angelo M. Pagtalunan	Cris Angelo M. Pagtalunan	1 Institute of Chemistry, College of Science, University of the Philippines, Diliman, Quezon City 1101 Email of corresponding author: cmpagtalunan@up.edu.ph	MPS- 18 KINETICS OF IN SITU INTERCALATIVE POLYMERIZATION OF $\epsilon$ -CAPROLACTONE CATALYZED BY 12-AMINOLAURIC ACID-MODIFIED MONTMORILLONITE	
MPS-19	Alleni Tongson, Ma. Rosnah Galo, Abigail Bion and Benilda Ebarvia	Alleni Tongson	Alleni Tongson	Department of Science and Technology, Industrial Technology Development Institute (DOST-ITDI), Taguig City allenibtongson@yahoo.com ; Tel /fax no. 837-2071 local	MPS-19 Mass Balance Approach for Purity Assessment of Organic Materials: Histamine dihydrochloride Case Study	
MPS-20	Reynaldo Carlos Montalbo1, Eduardo Atayde Jr2, Susan Arco1,2*	Susan Arco	Reynaldo Carlos Montalbo	1Natural Sciences Research Institute, University of the Philippines Diliman, 2Institute of Chemistry, University of the Philippines Diliman	MPS-20 Oral Drug Delivery Systems from Hyperbranched Methacrylic Acid and Poly(Ethylene Glycol) Copolymer Nanocarriers	

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MPS-21	Roberto G. Campos Jr, *Fatima R. Intano,*Mark Anthony M. Lavapiez	Roberto G. Campos Jr	Roberto G. Campos Jr	College of Agricultural Sciences and Natural Resources, Department of Natural Resources, Environmental Science Division, Caraga State University-Main Campus, Ampayon, Butuan City College of Arts and Sciences, Chemistry Division, Caraga State University-Main Campus, Ampayon, Butuan City E-mail: robertojr.campos24@gmail. com	MPS- 21 Remediation of Nickel (II) Ions from Aqueous Solutions using Sol-Gel Prepared Zinc Oxide Powders	

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MPS-22	Arvin Paul P. Tuaño <sup>1,2</sup> , Eljezwyne Clomer G. Barcellano <sup>*2,3</sup> , and Myrna S. Rodriguez <sup>*3</sup>	Arvin Paul P. Tuaño	Arvin Paul P. Tuaño	1Department of Chemistry, College of Humanities and Sciences, De La Salle Health Sciences Institute, Dasmariñas City, Cavite 4114 Tel No.: (046) 481-8000 loc 1408; E-mail: arvinpaultuano@gmail.com 2Graduate School, University of the Philippines Los Baños, College, Laguna 4031 3Institute of Chemistry, College of Arts and Sciences, University of the Philippines Los Baños, College, Laguna 4031	MPS-22 Resistant Starch Content and In Vitro Starch Hydrolysis Index of Selected Philippine Rices with Varying Apparent Amylose Content	
MPS-23	Benilda S. Ebarvia, Aaron C. Dacuya, April Rose C. Veranga, Johanna Andrea C. Valdueza	Benilda S. Ebarvia	Benilda S. Ebarvia	Department of Science and Technology, Industrial Technology Development Institute (DOST-ITDI), DOST Cmpd., General Santos Ave., Bicutan, Taguig City Tel.: 837-2071; Fax: 837- 0032; E-mail: bsebarvia@yahoo.com	MPS-23 Production of Reference Material for Benzoic Acid Analysis in Banana Ketchup	

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<b>MATHEMATICS</b>						
MPS-25	Raiza Corpuz, Jerome Dimabayao	Raiza Corpuz	Raiza Corpuz	Institute of Mathematics University of the Philippines Diliman Diliman, Quezon City email: raizamcorpuz@gmail.com	A Family of Congruent Number Elliptic Curves with Rank $\geq 2$ Derived from Difference of Biquadrates	
MPS-26	Rosal, Aurea Z., Brazil John Mico P., Cuevas Leonardo S., Decio, Kenneth Q., Giron, Michael James D.	AUREA Z. ROSAL	AUREA Z. ROSAL	College of Science Polytechnic University of the Philippines Sta. Mesa, Manila	A Proposed Patrolling Scheme for Barangay Tatalon, Quezon City Using Graph Domination	

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MPS-27	Jerico B. Bacani and Julius Fergy T. Rabago	Jerico B. Bacani	Jerico B. Bacani	Department of Mathematics and Computer Science College of Science University of the Philippines Baguio 2600 Baguio City, Philippines Tel.: (074)442-7231, Fax: (074) 442-3888 Email: jbbacani@up.edu.ph, jicderivative@yahoo.com	An Analytical Approach in Solving a System of Nonlinear Difference Equations	
MPS-28	Alexander S. Carrascal*	Alexander S. Carrascal*	Alexander S. Carrascal*	Polytechnic University of the Philippines Sta. Mesa, Manila ascarrascal@pup.edu.ph / ascarrascal@yahoo.com	Construction of 3-, 4-, 5-, and 8-Class Association Schemes from the Core of a Conference Matrix	
MPS-29	Virgilio P. Gragasin, Jr.	Virgilio P. Gragasin, Jr.	Virgilio P. Gragasin, Jr.	Nueva Vizcaya General Comprehensive High School Mobile Phone #09053336861/ mail address virgiliogragasin@yahoo.com	MPS-09 Instructional Practices of Secondary Mathematics Teachers and Predictors of School Achievement on Mathematics: A Basis for a Teacher Development Program	

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MPS-30	Geremae C. Tibule and Renz Jimwel S. Mina	Geremae Tibule	Geremae Tibule	Department of Mathematics and Computer Science College of Science University of the Philippines Baguio 2600 Baguio City, Philippines Tel.: (074)442-7231, Fax: (074) 442-3888 Email: gctibule2@up.edu.ph	MPS-30 On the Alternating Sums of the Reciprocals of Squares of the Fibonacci Numbers	
MPS-31	Renz Jimwel S. Mina and Jerico B. Bacani	Renz Jimwel S. Mina	Renz Jimwel S. Mina	Department of Mathematics and Computer Science College of Science University of the Philippines Baguio 2600 Baguio City, Philippines Tel.: (074)442-7231, Fax: (074) 442-3888 Email: rsmiina1@up.edu.ph	MPS-31 On the Exponential Diophantine Equation $3^X + b^Y = [(b+1)]^Z$	
MPS-32	Angelica C. Navarrete, Julius M. Basilla*	Angelica C. Navarrete	Angelica C. Navarrete	Institute of Mathematics, University of the Philippines Diliman, Quezon City, Philippines 09294522751	MPS-32 On the Ideal Class Group of Simplest Quartic Fields	

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MPS-33	Leah C. Dajay, Jolly C. Climaco, Melissa O. Guerra, Jennifer F. Caampued, Jessel May D. Casuga and Prudencio E. Adona, Jr.	Leah C. Dajay	Leah C. Dajay	Food and Nutrition Research Institute- Department of Science and Technology, Bicutan, Taguig City, Manila, Philippines (+632) 837 2071 local 2300 (+632) 837 6149 leah_castillo1084@yahoo.com	MPS-33 Performance Evaluation of Some Philippine Food Testing Laboratories through Proficiency Testing Scheme on Processed Meat	
MPS-34	Cathy B. Escudro, Roel N. Baybayon	Cathy B. Escudro	Cathy B. Escudro	Physics Department, Central Mindanao University University Town, Musuan, Maramag, Bukidnon, Philippines escuadrocathy9@gmail.com	MPS-34 The White Noise Path Integration Approach to the Inverted Oscillator with Constant Friction	
MPS-35	Melidiosa V. Pagudpud, Peter Paul P. Pagudpud	Melidiosa V. Pagudpud	Melidiosa V. Pagudpud	Quirino State University- Cabarroguis Campus 09175010068 rdo.qsucabarroguis@gmail.com	MPS-35 Data Mining Using Clustering Technique as a Basis in Developing a Gamified Learning System	
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MPS-37	Vanessa Jane R. Calderon and Karina Milagros R. Cui-Lim	Karina Milagros R. Cui- Lim	Karina Milagros R. Cui- Lim	1Department of Physical Sciences, College of Science; and 2Research Office University of Eastern Philippines, 6400 Catarman N. Samar, Philippines	MPS-37 BIOSYNTHESIS OF SILVER NANOPARTICLES USING ISOLATED STARCH OF NYPA FRUTICANS (NIPA PALM) SEEDS	
MPS-38	Julian Carl Maverick Cortes , and Raymond Sugang	Raymond Sugang	Julian Carl Maverick Cortes	1Rizal Technological University, Mandaluyong City, Philippines 2Philippine Nuclear Research Institute, Diliman, Quezon City, Email correspondence to: cesarsed2002@gmail.com or contact 09399209132	MPS-38 Characterization of Philippine Tektites Using X-ray Methodologies	

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MPS-40	Lorcelie B. Taclan*, Regina Herrera, Emson Y. Taclan, Roy Ephraim Umpad and Darwin Garduque	Regina Herrera	Lorcelie Taclan	Adventist University of the Philippines, Puting, Kahoy, Silang Cavite lbtacalan@yahoo.com	MPS-40 Raw Vegan Dried Saba Banana (Musa sapientum Linn. Var. Compressa) using the Automated Multi commodity Heat Pump Dryer (AMCHPD)	
MPS-41	Roger Joseph L. Lacubtan, Ariel R. Balinas	Roger Joseph L. Lacubtan	Roger Joseph L. Lacubtan	Physics Department, Central Mindanao University University Town, Musuan, Maramag, Bukidnon, Philippines rjllacubtan@gmail.com	MPS-41 Space and Time Transformation Factor	
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