

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
CHEMISTRY						
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, España Blvd., Manila 1015 Research Center for the Natural and Applied Sciences, University of Santo Tomas, España 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 ² 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-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 ϵ -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 ^{1,2} , Eljezwyne Clomer G. Barcellano ^{*2,3} , and Myrna S. Rodriguez ^{*3}	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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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	
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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	
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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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