

# PSHWM | CE-WM 2019

10-13 December 2019 | Tarlac City, Tarlac, Philippines

## PRELIMINARY PROGRAM

### Tuesday | 10 December 2019

1:00	Registration opens
4:00 - 4:30	Opening Ceremony
4:30- 4:50	Keynote Address Representative Carlos O. Cojuangco
4:50- 5:10	<b>Policy Guidelines on Waste-to-Energy Project</b> Atty. Jonas R. Leones, Undersecretary, Policy, Planning and International Affairs, DENR ( <i>invited</i> )
5:10- 5:55	Plenary Lecture: <b>Global Waste Management</b> Dr. Shunichi Honda, United Nations Environment Programme
5:55- 6:40	Plenary Lecture: <b>Transitioning towards resource efficiency and circular economy for global sustainability</b> Dr. Anthony Halog, The University Queensland
6:40- 7:25	Plenary Lecture: <b>Commercial Demonstration of solid fuel production from municipal solid waste employing hydrothermal treatment</b> Dr. Kunio Yoshikawa, Tokyo Institute of Technology
<b>7:25- 10:00</b>	<b>Welcome Reception &amp; Fellowship Night</b>

### Wednesday | 11 December 2019

	HALL A	HALL B	HALL C
8:00- 8:45	Physico-chemical characterization and toxicological assessment of municipal solid waste landfill leachate in Delhi, India --- Akanksha VERMA Jawaharlal Nehru University, India	A review of agricultural waste utilization as alternative insulating construction and renewable materials --- Dr. Reynaldo P. RAMOS Romblon State University, Philippines	Local Governments with the participation of the community in the adaptation and mitigation of Climate Change Action Plan in South Central Mindanao, Philippines --- Dr. Mohaminah CONCEPCION-ESMAEL Cotabato City State Polytechnic College, Philippines

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8:45-9:30	<p>Heavy metals in the soil of the old open dumpsite of Koronadal City, Philippines and its association with the morbidity and mortality data of the nearby barangays</p> <p>---</p> <p>Ruemar L. DELIMA Philippine Science High School-SOCCSKARGEN Region Campus of the Department of Science and Technology</p>	<p>Agri-Waste to alternative energy: Life Cycle Sustainability Assessment of rice husk briquettes as biofuel</p> <p>---</p> <p>Novlloyd E. CELESTE Northwest Samar State University, Philippines</p>	<p>Implementation of Local Disaster Risk Reduction and Management Council functions in Cotabato City, Philippines</p> <p>---</p> <p>Mambai E. SAPALON Cotabato City State Polytechnic College</p>
9:30-10:15	<p>Heavy metals and physico-chemical assessment of water, sediments, and <i>Oreochromis niloticus</i> (tilapia) in Maragondon, River, Philippines</p> <p>---</p> <p>Michael A. JALANDOON De La Salle University, Dasmariñas, Cavite</p>	<p>The characteristics of bio-coal with agricultural by-products by hydrothermal carbonization</p> <p>---</p> <p>Woori CHO University of Seoul, Republic of Korea</p>	<p>Influence of urban design and land use in carbon footprint of highly urbanized city in Northern Mindanao, Philippines</p> <p>---</p> <p>Michaellester O. MONTERON Mindanao State University-Iligan Institute of Technology, Philippines</p>
<b>10:15-10:30</b>	<b>AM Break</b>		
10:30-11:15	<p>Department of Science and Technology's (DOST) Initiatives to Boracay Island Rehabilitation: Support to the Solid Waste Management Program of Boracay Island, Philippines</p> <p>---</p> <p>Joven R. BARCELO Department of Science and Technology, Philippines</p>	<p>Biofuels from the fast pyrolysis of cassava pulp residue under a reductive atmosphere: Product yield and characterization</p> <p>---</p> <p>Dr. Maria Theresa I. CABARABAN Xavier University (Ateneo de Cagayan), Philippines</p>	<p>Assessment of microplastics in surface water of Navotas-Manila Bay area, Philippines</p> <p>---</p> <p>Jeff Ryan S. MAGALONG Polytechnic University of the Philippines</p>
11:15-12:00	<p>Analysis of the prevailing waste disposal and management practices in Boracay Island, Philippines</p> <p>---</p> <p>Maechele June G. BLANCA Ecosystems Research &amp; Development Bureau – Department of Environment &amp; Natural Resources</p>	<p>Extraction of bio-fuel from sugarcane (<i>Saccharum officinarum</i>) bagasse using fixed-bed pyrolysis</p> <p>---</p> <p>Ruemar L. DELIMA Philippine Science High School-SOCCSKARGEN Region Campus of the Department of Science and Technology</p>	<p>Degradation of polyethylene oxo plastics by <i>Pleurotus florida</i>, <i>Pleurotus pulmonarius</i>, and <i>Pleurotus djamor</i></p> <p>---</p> <p>Assoc. Prof. Maria Sheila K. RAMOS Mindanao State University-Iligan Institute of Technology, Philippines</p>
<b>12:00-1:00</b>	<b>Lunch &amp; Exhibition Visit</b>		

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1:00-1:45	<p>Cultural solidarity to Sultan Naga Dimaporo, Lanao del Norte, Philippines folks towards solid waste disposal and management</p> <p>---</p> <p>Dr. Indihra B. DIMAPORO-TAWATAWAN Mindanao State University-Lanao del Norte Agricultural College, Philippines</p>	<p>The industrial ecology and applications of Pili Tree (<i>canarium ovatum</i>)</p> <p>---</p> <p>Karl Khumo T. CALAGAN University of the Philippines, Diliman</p>	<p>The influence of demography of Filipino consumers towards their purchase preference for sachet products</p> <p>---</p> <p>Assoc. Prof. Maria Rosario Virginia S. COBAR-GARCIA University of Santo Tomas, Philippines</p>
1:45-2:30	<p>Ex-Ante impact evaluation for adoption of Re-Culture Technology: A socio-economic feasibility study for advanced solid waste management system</p> <p>---</p> <p>Asst. Prof. Lemuel PRECIADOS Visayas State University, Philippines</p>	<p>Jackfruit (<i>Artocarpus Heterophyllus</i>) peels adsorbents for the removal of heavy metals (Cr(VI), Cd(II), Mn(II), and Pb(II)) from water</p> <p>---</p> <p>Assoc. Prof. Felipa G. TENIDO Mindanao State University-Iligan Institute of Technology, Philippines</p>	<p>An assessment on the level of awareness of MUS-IIT's "No to single-use plastic policy" and current waste management practices</p> <p>---</p> <p>Marph Daryl O. PORRAS Mindanao State University – Iligan Institute of Technology, Philippines</p>
2:30-3:15	<p>Enforcement strategies on solid waste management</p> <p>---</p> <p>Leandro RAMOS, Retired State of California, USA</p>	<p>Watermelon rind: A potential and cost-effective biosorbent for the removal of trace concentrations of heavy metals from contaminated wastewater</p> <p>---</p> <p>Assoc. Prof. Ma. Cecilia V. ALMEDA Mindanao State University-Iligan Institute of Technology, Philippines</p>	<p>Wayste: A hybrid digitalized integrated solid waste management with social enterprise model guided by Good Governance Principles</p> <p>---</p> <p>Rejiel A. GONZALES Bridge360 IT Solutions, Philippines</p>
3:15-3:30	<p><b>PM Break</b></p> <p><b>We end early to allow participants to see the Closing Ceremonies of the SEA Games.</b></p>		

Thursday | 12 December 2019

	HALL A	HALL B	HALL C
	<p>Tracking plastic leakage into the ocean through the Marine Litter Assessment Tool</p> <p>---</p> <p>Katherine C. VIÑEGAS Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Philippines</p>	<p>Feasibility of a 3-megawatt Waste to Energy Project from a direct melting (thermal decomposition and gasification) process of solid wastes degradation coupled with a power generator system in Brgy. Mayon, Daraga, Albay, Philippines</p> <p>---</p> <p>Dr. Ma. Luisa P. MARTINEZ Verzontal Energy Corporation</p>	<p>Development of a new cementitious material from alkali activation of mine tailings from artisanal gold mine area in Mindanao, Philippines</p> <p>---</p> <p>Einstine M. OPISO Central Mindanao University, Philippines</p>

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8:00-8:45	Utilization of machine learning models in predicting and classifying waste generation in the Philippines --- Barry GUNDAYAO Quezon City Polytechnic University, Philippines	Comparative performance of lumbang activated carbon chitosan composite in the removal of chromium (VI) using different crosslinking agents --- Dr. Nelson R. VILLARANTE University of the Philippines, Manila	Pilot studies for reclaimed water project in Clark Water Corporation: Testing the effect of high Na concentration in soil and plant tissues --- Engr. Mark Franklin P. MANALANG Clark Water Corporation, Philippines
8:45-9:30	Assessment on the effectiveness of Information Education and Communication (IEC) campaign on solid waste management in Ozamiz City, Philippines --- Henzen D. TOMATAO Misamis University, Philippines	Operation of solid waste refuse fuel power plant with monitoring air pollutants and mercury mass balance --- Dr. Yong Chil SEO Yonsei University, Republic of Korea	Wastewater management and reuse of wastewater for agriculture in Diemthuy-PhubinhThainguyen-Vietnam --- DANG Hoang Ha Thai Nguyen University, Vietnam
9:30-10:15	Zero Waste Practices and its socio-economic benefits: The City of San Fernando, Pampanga, Philippines in context --- Assoc. Prof. Moises Norman Z. GARCIA University of Santo Tomas, Philippines	Rice husk conversion to hydrogen as fuel source: Comparison of environmental impact and energy demand of different production pathways --- Asst. Prof. Resmond Lat REAÑO University of the Philippines Los Baños	Struvite production from food processing wastewater and incinerated sewage sludge ash --- Prof. Dong-Jin KIM, Hallym University, Republic of Korea
<b>10:15-10:30</b>	<b>AM Break</b>		
10:30-11:15	Decentralized management of solid waste handling: Case study of San Fernando, Pampanga, Philippines --- Prof. Arlen A. ANCHETA University of Santo Tomas, Philippines	Geopolymer: Industry wastes to sustainable, innovative, and green construction material for civil infrastructure and disaster mitigation --- Dr. Eduardo J. GUADES Technical University of Denmark, Denmark	Decentralized wastewater management system --- Diana E. JUTBA Provincial Government of La Union, Philippines
11:15-12:00	Developing a ten-year Solid Waste Management Plan of Hinaplanon, Iligan City, Philippines --- Assoc. Prof. Maria Sheila K. RAMOS Mindanao State University-Iligan Institute of Technology	Heavy metal adsorption properties of geopolymers derived from gold mine tailings --- Maria Lora T. VENERACION University of the Philippines, Diliman	Compressive strength of concrete blocks with plastic bottles filled with shredded HDPE plastic containers and plastic wrappers used as alternative to conventional concrete hollow blocks --- Liza S. MANAYON LA Salle University, Ozamiz City, Philippines

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<b>12:00-1:00</b>	<b>Lunch &amp; Exhibition Visit</b>		
1:00-1:45	<p>Enhancing the implementation of the Solid Waste Management Program in Sta. Maria, Ilocos Sur, Philippines</p> <p>---</p> <p>Dr. Orlando A. BATARA Ilocos Sur Polytechnic State College</p>	<p>Utilization of soda cans as geocells for protection of soil loss in slopes</p> <p>---</p> <p>Joan M. LAYNA La Salle University, Ozamiz City, Philippines</p>	<p>Zero Waste Challenge: The Adventist Medical Center-Iligan (Philippines) Experience</p> <p>---</p> <p>Engr. Nestor V. MOLLEDA Adventist Medical Center-Iligan</p>
1:45-2:30	<p>Community participation on the implementation of Ecological Solid Waste Management in the cities of Cotabato and Kidapawan, Philippines</p> <p>---</p> <p>Dr. Noraida M. AKAD Cotabato City State Polytechnic College</p>	<p>Analysis of waste characterization, community waste management practices, SWM knowledge and perceptions, and local government action in the Southern Negros Marine Key Biodiversity Area</p> <p>---</p> <p>Kimberly P. CASIPE Philippine Reef and Rainforest Conservation Foundation, Inc., Philippines</p>	<p>E-Waste Awareness and Practices of Iligan City and academic institutions: Basis for the design of a sustainable E-Waste Management Program</p> <p>---</p> <p>John Alan D. LEE Mindanao State University – Iligan Institute of Technology, Philippines</p>
2:30-3:15	<p>Solid waste management practices of Mindanao State University, Marawi City, Philippines</p> <p>---</p> <p>Dr. Erlinda O. YAPE Mindanao State University-Marawi, Philippines</p>	<p>Phosphate adsorption/desorption of metal impregnated biochar from coffee waste</p> <p>---</p> <p>Prof. Dong-Jin KIM Hallym University, Republic of Korea</p>	<p>Perceptions on the risks and management of unused pharmaceuticals towards the creation of Guidelines on Handling and Disposal</p> <p>---</p> <p>Assoc. Prof. Jocelyn S. BAUTISTA-PALACPAC University of the Philippines, Manila</p>
<b>3:15-3:30</b>	<b>PM Break</b>		
3:30-4:15	<p>An Ecolinguistic analysis of Tagalog news headlines</p> <p>---</p> <p>Christine Grace Q. BAILON University of the Philippines, Diliman</p>	<p>Comparative assessment of choline-based deep eutectic solvents in the purification of lumbang-derived biodiesel</p> <p>---</p> <p>Dr. Nelson R. VILLARANTE University of the Philippines, Manila</p>	<p>Best practices of residents of Cacaoacan, Laoag City, Philippines in the preservation of the mangrove ecosystem</p> <p>---</p> <p>Loreto PAGUIRIGAN Northwestern University, Philippines</p>
4:15-5:00	<p>Adsorption of arsenic (III) and (V) using magnetite nanoparticles synthesized from lateritic sediments</p> <p>---</p> <p>Assoc. Prof. Einstine M. OPISO Central Mindanao University, Philippines</p>	<p>Replacement of bamboo-based activated carbon for supercapacitor electrode material</p> <p>---</p> <p>Engr. Amierson C. TILENDO University of the Philippines Rural High School</p>	<p>Hazard assessment of gamma irradiation as a method for <i>aspergillus niger</i> decontamination of aged cotton textiles</p> <p>---</p> <p>Donna Aguilar ULDO Philippine Textile Research Institute (DOST-PTRI)</p>

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5:00-5:45	Use of chemical alternatives in a testing laboratory: assessment of acetone as an alternative to ethanol-benzene for the determination of solvent extractives in natural fibers --- Charles Oliver C. AVENIDO Philippine Textile Research Institute	Mechanical properties and thermal stability of synthesized WPU/PANI-OA/ZnO protective coating --- Engr. Amierson C. TILENDO University of the Philippines Rural High School	Immobilization and adsorption study related to the mechanisms of Lead (II) and Cadmium (II) retention by phosphate rock in multi-metal system: Analysis via Differential Pulse Stripping Voltammetry Method --- Asst. Prof. Enjelyn C. GOMEZ Mindanao State University-Iligan Institute of Technology, Philippines
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## Friday | 13 December 2019

7:00-12:00	Technical Tours: (1) Capas Sanitary Landfill (2) Cleanway Hazardous Waste Processing Plant
<b>12:00-1:00</b>	<b>Lunch &amp; Exhibition Visit</b>
1:00-1:45	Plenary Lecture: <b>Policy Updates on Hazardous Waste Management in the Philippines</b> Geri-Geronimo R. Sañez Chief, Hazardous Waste Management Section, Environmental Quality Division, Environmental Management Bureau-DENR
1:45-3:30	Excellence Awards Presentation of PSHWM   CE-WM 2020 Closing Remarks  <b>PM Snacks</b>

~ End of Conference ~