

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-001	Diamond2	June 11 (Mon.)	11:50-13:00	The possibility of using bioenergy from municipal solid waste	Djamshed Saidov	Bioresources	Samarkand Agricultural Institute	Uzbekistan	AK0804
PP01	PP01-002	Diamond2	June 11 (Mon.)	11:50-13:00	Reuse of lipid-extracted algal residue based on volatile fatty acids platform as nutrients for microalgal cultivation: effects of	Donghyun Kim	Bioresources	KAIST	Korea	AK0966
PP01	PP01-003	Diamond2	June 11 (Mon.)	11:50-13:00	Biodegradation Treatment of Miscanthus Compared to Sawdust for the Livestock Bedding Material	Dongseong Shin	Bioresources	Kangwon National University	Korea	AK0840
PP01	PP01-004	Diamond2	June 11 (Mon.)	11:50-13:00	Physiological, Genomic and Transcriptomic Analyses for Understanding Feather-degradation Mechanism by	Dong-Woo Lee	Bioresources	Yonsei University	Korea	AK0741
PP01	PP01-005	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of biochar and biochar with compost amendment on the soil water content	Dusan Igaz	Bioresources	Slovak University of Agriculture in Nitra	Slovakia	AF0913
PP01	PP01-006	Diamond2	June 11 (Mon.)	11:50-13:00	Evaluation of Agricultural byproduct utilization as WEF Nexus element Resources	Eunhee Choi	Bioresources	Korea Rural Community Corporation	Korea	AK0624
PP01	PP01-007	Diamond2	June 11 (Mon.)	11:50-13:00	Composting of algae sludge collected from dissolved air flotation in treating algae-laden pond water	Eunkyung Lee	Bioresources	KCC Central Research Institute	Korea	AK0482
PP01	PP01-008	Diamond2	June 11 (Mon.)	11:50-13:00	Preparation, characterization and application of forage grass-derived biochar for recovery of phosphate in water	Eunsung Kan	Bioresources	Texas A&M AgrLife Research Center	USA	AF0251
PP01	PP01-009	Diamond2	June 11 (Mon.)	11:50-13:00	Adsorption of copper and lead by pinecone biochars produced at different pyrolysis condition	Geunyoung Kim	Bioresources	Seoul National University	Korea	AK0484
PP01	PP01-010	Diamond2	June 11 (Mon.)	11:50-13:00	A role on carbon source of food waste leachate in the anaerobic digestion of sewage	Heesung Moon	Bioresources	National Institute of Environmental Research	Korea	AK0650
PP01	PP01-011	Diamond2	June 11 (Mon.)	11:50-13:00	Insect monitoring by unmanned aerial vehicle above a rice field	Hong Geun Kim	Bioresources	Gachon University	Korea	AK0694
PP01	PP01-012	Diamond2	June 11 (Mon.)	11:50-13:00	Methane production from food waste in a psychrophilic bio-electrochemical anaerobic digester with rotating impeller	Hyejeong Kwon	Bioresources	Chungbuk National University	Korea	AK0315
PP01	PP01-013	Diamond2	June 11 (Mon.)	11:50-13:00	Application of side stream bio-electrochemical module for recovering performance of anaerobic digestion reactor at high	Hyejin Park	Bioresources	Chungbuk National University	Korea	AK0962
PP01	PP01-014	Diamond2	June 11 (Mon.)	11:50-13:00	Biochar-Based Solid Acid as a Novel Catalyst for Biorefinery	Iris Km Yu	Bioresources	Hong Kong Polytechnic University	Hong Kong	AF0289
PP01	PP01-015	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of biochar application to slightly acidic Haplic Luvisol	Jan Horak	Bioresources	Slovak University of Agriculture in Nitra	Slovakia	AF0912
PP01	PP01-016	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of vermicompost application on soil properties and ginseng (Panax ginseng) production in a paddy-converted field	Jinu Eo	Bioresources	RDA	Korea	AK0157
PP01	PP01-017	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of organic waste treatment on soil organisms and food web	Jinu Eo	Bioresources	RDA	Korea	AK0257
PP01	PP01-018	Diamond2	June 11 (Mon.)	11:50-13:00	A Study on Distribution and Seasonal Abundance of Tick Species as a Vector of Severe Fever with Thrombocytopenia	Minhyung Jung	Bioresources	Gachon University	Korea	AK0808
PP01	PP01-019	Diamond2	June 11 (Mon.)	11:50-13:00	Investigation on nutritional aspects of wheat as substrate for Neurospora intermedia	Pedro Souza Filho	Bioresources	University of Boras	Sweden	AF0811
PP01	PP01-020	Diamond2	June 11 (Mon.)	11:50-13:00	Groundnut shell Biochar-Production, Characterization and study of its interactive mechanism with crop fertilizer	Priyanka Sathe	Bioresources	Institute of chemical technology	India	AF0351
PP01	PP01-021	Diamond2	June 11 (Mon.)	11:50-13:00	Increasing lipid production with N-limitation and UV illumination in a continuous culture of Etilia sp.	Seong-Hyun Seo	Bioresources	Korea Research Institute of Bioscience & Biotechnology	Korea	AK0828
PP01	PP01-022	Diamond2	June 11 (Mon.)	11:50-13:00	Preparation of activated carbon using Bamboo through phosphoric acid pretreatment and steam activation	Seung-Soo Kim	Bioresources	Kangwon National University	Korea	AK0726
PP01	PP01-023	Diamond2	June 11 (Mon.)	11:50-13:00	Effects of biochar on urban roadside soil structure and plant water use efficiency under extreme water condition	Sin Yee Yoo	Bioresources	Kyung Hee university	Korea	AK0492
PP01	PP01-024	Diamond2	June 11 (Mon.)	11:50-13:00	Struvite reutilization to remove the ammonia nitrogen in livestock manure	Soomin Shim	Bioresources	Kangwon National University	Korea	AK0836
PP01	PP01-025	Diamond2	June 11 (Mon.)	11:50-13:00	The role of soil microorganisms in the improved aggregation of biochar-added soil	You Jin Kim	Bioresources	Kyung Hee University	Korea	AK0490
PP01	PP01-026	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of potential and electron mediator variation for methane bio-conversion using carbon dioxide (CO2) based on	Young Eun Song	Bioresources	Pusan National University	Korea	AK0897
PP01	PP01-027	Diamond2	June 11 (Mon.)	11:50-13:00	Upgrading Food Wastes as Feeds for Inland Fish Culture in South China	Yu Bon Man	Bioresources	The Education University of Hong Kong	Hong Kong	AF0101

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-028	Diamond2	June 11 (Mon.)	11:50-13:00	Utilization of rice bran as carbon source for enhancement of biomass and lipid content of microalgae	Hee-Jeong Choi	Bioresources	Catholic Kwandong University	Korea	AK0261
PP01	PP01-029	Diamond2	June 11 (Mon.)	11:50-13:00	Furfural Production from Livestock Wastes: A Case Study of Goat Excreta	Youkwon Kim	Bioresources	Sejong University	Korea	AK0923
PP01	PP01-030	Diamond2	June 11 (Mon.)	11:50-13:00	Influence of Interfacial Charge Carrier Dynamics on photoelectrochemical performance of In ₂ O ₃ /TiO ₂	Gil Woo An	Energy	Chonbuk National University	Korea	AK0240
PP01	PP01-031	Diamond2	June 11 (Mon.)	11:50-13:00	Water-saving methodology for the large industrial hydrogen production	Haarkho Yi	Energy	Research of Institute of Industrial Science & Technology	Korea	AK0938
PP01	PP01-032	Diamond2	June 11 (Mon.)	11:50-13:00	Improvement for the salt accumulation during the hydrogen production with sodium formate by Thermococcus onnurineus	Haarkho Yi	Energy	Research of Institute of Industrial Science & Technology	Korea	AK0939
PP01	PP01-033	Diamond2	June 11 (Mon.)	11:50-13:00	Transfer hydrogenation of bio-oil using supported transition metal catalysts	Hoda Shafaghat	Energy	University of Seoul	Korea	AK0617
PP01	PP01-034	Diamond2	June 11 (Mon.)	11:50-13:00	The electrochemical carbon dioxide reduction on the copper catalyst	Hyeilin Park	Energy	Chungbuk	Korea	AK0963
PP01	PP01-035	Diamond2	June 11 (Mon.)	11:50-13:00	Advanced Freezing Rain Forecast Model on Korea Expressway	In Soo Kim	Energy	Korea Expressway Corporation Research Institute	Korea	AK0434
PP01	PP01-036	Diamond2	June 11 (Mon.)	11:50-13:00	Biochar based solid acid catalyst for biodiesel production	Jae-Kon Kim	Energy	Korea Petroleum Quality & Distribution Authority(K-Petro)	Korea	AK0542
PP01	PP01-037	Diamond2	June 11 (Mon.)	11:50-13:00	The effects of porous and non-porous fluidized media on biofouling control, microbial distribution and biofilm development	Jeonghwan Kim	Energy	Inha University	Korea	AK0198
PP01	PP01-038	Diamond2	June 11 (Mon.)	11:50-13:00	Influence of fluidized GAC dosage on removal performance, fouling control and energy recovery in anaerobic fluidized	Jeonghwan Kim	Energy	Inha University	Korea	AK0200
PP01	PP01-039	Diamond2	June 11 (Mon.)	11:50-13:00	Graphene Quantum Dots-embedded Graphitic Nanosheets Derived from Microcrystalline Cellulose as High Performance	Jianqiang Chen	Energy	Laboratory of Advanced Environmental & Energy Storage Materials, Department of	China	AF0356
PP01	PP01-040	Diamond2	June 11 (Mon.)	11:50-13:00	Effects of mechanical and thermal pretreatment on biochemical methane potential of crop residue	Jongkeun Lee	Energy	Konkuk University	Korea	AK0132
PP01	PP01-041	Diamond2	June 11 (Mon.)	11:50-13:00	Co-hydrothermal carbonization of digested sludge and C. vulgaris to improve hydrochar properties as clean fuel	Jongkeun Lee	Energy	Konkuk University	Korea	AK0135
PP01	PP01-042	Diamond2	June 11 (Mon.)	11:50-13:00	Effects of electrode properties on capacitive deionization (CDI) using various structure porous carbons	Joon Hyuk Bang	Energy	Korea Institute of Carbon Convergence Technology	Korea	AK0588
PP01	PP01-043	Diamond2	June 11 (Mon.)	11:50-13:00	Harnessing Bioelectricity from Exoelectrogenically Active Green Microalgae, Scenedesmus quadricauda, in a Bio-photovoltaic	Jooyoun Nam	Energy	Korea Institute of Energy Research	Korea	AK0133
PP01	PP01-044	Diamond2	June 11 (Mon.)	11:50-13:00	Domestic wastewater treatment in a tubular microbial electrolysis cell with a membrane electrode assembly cathode	Jooyoun Nam	Energy	Korea Institute of Energy Research	Korea	AK0847
PP01	PP01-045	Diamond2	June 11 (Mon.)	11:50-13:00	Production and characterization of fast pyrolysis bio-oil on 1BPD CFB reactor in Korea	Joyong Park	Energy	K-Petro	Korea	AK0514
PP01	PP01-046	Diamond2	June 11 (Mon.)	11:50-13:00	Prediction of long-term climate change by highway region	Jugoang Lee	Energy	Korea expressway corporation research institute	Korea	IK0205
PP01	PP01-047	Diamond2	June 11 (Mon.)	11:50-13:00	Analysis of the damage of climate change impact on the highway in Korea	Jugoang Lee	Energy	Korea expressway corporation research institute	Korea	IK0206
PP01	PP01-048	Diamond2	June 11 (Mon.)	11:50-13:00	Assessing and measuring the risk of climate change on highway	Jugoang Lee	Energy	Korea expressway corporation research institute	Korea	IK0208
PP01	PP01-049	Diamond2	June 11 (Mon.)	11:50-13:00	Performance of a Reverse Electrodialysis Stack at Pilot Plant Scale	Kyo Sik Hwang	Energy	Korea Institute of Energy Research	Korea	AK0987
PP01	PP01-050	Diamond2	June 11 (Mon.)	11:50-13:00	Highly efficient Bi ₂ S ₃ @BiVO ₄ hybrid nanostructures via Photoelectrochemical transformation of BiVO ₄ for solar	Mahadeo A. Mahadik Mahadik	Energy	Chonbuk National University	India	AK0243
PP01	PP01-051	Diamond2	June 11 (Mon.)	11:50-13:00	KINETIC STUDY AND CATALYTIC PYROLYSIS PROCESS OF PONGAMIA RESIDUAL CAKE VIA TGA AND PY-GC/MS	Natchanok Masawat	Energy	Chulalongkorn university	Thailand	AF0776
PP01	PP01-052	Diamond2	June 11 (Mon.)	11:50-13:00	Selective production of BTX aromatics by mild hydrodeoxygenation of phenolic lignin model compounds	Pouya Sirous Rezaei	Energy	University of Seoul	Korea	AK0733
PP01	PP01-053	Diamond2	June 11 (Mon.)	11:50-13:00	Catalytic pyrolysis of polypropylene over Ni/sand or Mn/sand	Roosee Lee	Energy	Chonbuk National University	Korea	AK0805
PP01	PP01-054	Diamond2	June 11 (Mon.)	11:50-13:00	Bioethanol production from oil palm empty fruit bunch pretreated with alkaline hydrogen peroxide using a xylose	Rupali Manglekar	Energy	Ngee Ann Polytechnic	Singapore	AF0034

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-055	Diamond2	June 11 (Mon.)	11:50-13:00	Ultrathin corrugated graphene nanosheets from red rice husk for supercapacitor electrodes	S Sankar	Energy	Dongguk University	Korea	AK0672
PP01	PP01-056	Diamond2	June 11 (Mon.)	11:50-13:00	Green Tea Waste Derived Activated Carbon Nanoflakes for High Performance Lithium-ion Batteries and Supercapacitors	S Sankar	Energy	Dongguk University	Korea	AK0960
PP01	PP01-057	Diamond2	June 11 (Mon.)	11:50-13:00	Augmentation of Clostridium beijerinckii in the continuous hydrogen production along with inhibitor (5-HMF) toxicity	Sang-Hyoun Kim	Energy	Yonsei University	Korea	AF0340
PP01	PP01-058	Diamond2	June 11 (Mon.)	11:50-13:00	Analysis of Thermal Performance of Phase Change Materials (PCM) Cool Roof System to Mitigate Urban Heat Island	Seong Jin Chang	Energy	Soongsil University	Korea	IK0540
PP01	PP01-059	Diamond2	June 11 (Mon.)	11:50-13:00	Development of energy efficient novel plaster panel using phase change material/xGnP composites	Seunghwan Wi	Energy	Soongsil University	Korea	AK0535
PP01	PP01-060	Diamond2	June 11 (Mon.)	11:50-13:00	Mild hydrodeoxygenation of bio-oil with HZSM-5 and dolomite from the fast pyrolysis of spent coffee	Seung-Soo Kim	Energy	Kangwon National University	Korea	AK0729
PP01	PP01-061	Diamond2	June 11 (Mon.)	11:50-13:00	Hydrodeoxygenation of bio-oils produced from fast pyrolysis of Saccharina Japonica Alga for bio-oil upgrading	Seung-Soo Kim	Energy	Kangwon National University	Korea	AK0731
PP01	PP01-062	Diamond2	June 11 (Mon.)	11:50-13:00	Catalytic pyrolysis of bamboo with HZSM-5 in a bubbling fluidized-bed reactor	Seung-Soo Kim	Energy	Kangwon National University	Korea	AK0734
PP01	PP01-063	Diamond2	June 11 (Mon.)	11:50-13:00	Development of stability of bio-oil and diesel fuel emulsions	Young-Kwon Park	Energy	University of Seoul	Korea	AK0981
PP01	PP01-064	Diamond2	June 11 (Mon.)	11:50-13:00	Study of Power Generation Efficiency Increase and GHG Reduction Effect by Application of Low Temperature Catalyst	Youngsam Yoon	Energy	NIER	Korea	AK0826
PP01	PP01-065	Diamond2	June 11 (Mon.)	11:50-13:00	Study on Efficiency Increase Effect of Incineration Facilities using High-Temperature and High-Pressure Boiler	Youngsam Yoon	Energy	NIER	Korea	AK0829
PP01	PP01-066	Diamond2	June 11 (Mon.)	11:50-13:00	Energy Density Enhancement via Pyrolyzing Brown Coal Using CO ₂	Dongho Choi	Energy	Sejong University	Korea	AK0926
PP01	PP01-067	Diamond2	June 11 (Mon.)	11:50-13:00	Synthesis of C4-C5 Bioalcohols via Hydrogenation of Volatile Fatty Acid Methyl Esters with Bimetallic Catalysts	Seong-Heon Cho	Energy	Sejong University	Korea	AK0925
PP01	PP01-068	Diamond2	June 11 (Mon.)	11:50-13:00	Biodiesel Production via Pseudo-Catalytic Transesterification using biochar Derived from Pyrolysis of chicken manure in CO ₂	Jongmin Jung	Energy	Sejong University	Korea	AK0927
PP01	PP01-069	Diamond2	June 11 (Mon.)	11:50-13:00	Applicability of Interpolation Approaches for High Resolution Spatial Mapping of Climate data	A Yeong Jo	Environment	Korea university	Korea	AK0785
PP01	PP01-070	Diamond2	June 11 (Mon.)	11:50-13:00	Co-assessment of Soil Carbon Stock and Biomass in the Hydroelectric Catchment of Uttarakhand Himalayas, India	Amit Kumar	Environment	Hohai University	China	AF0039
PP01	PP01-071	Diamond2	June 11 (Mon.)	11:50-13:00	Oxidative stress markers as a reflection on the presence of selected trace metals in freshwater fish common carp (Cyprinus	Anton Kovacik	Environment	Slovak University of Agriculture in Nitra	Slovakia	AF0310
PP01	PP01-072	Diamond2	June 11 (Mon.)	11:50-13:00	Enhanced accumulation of cesium by a novel strain of a microalga, Desmodesmus armatus SCK, by potassium-	Byung-Gon Ryu	Environment	Nakdonggang National Institute of Biological Resources	Korea	AK0965
PP01	PP01-073	Diamond2	June 11 (Mon.)	11:50-13:00	Gas-Liquid Interfacial Fluidic Cavitation in Superhydrophobic Silicon Nanowires for Ultra Efficient Organic Pollutant	Chang-Ho Choi	Environment	Pohang University of Science and Technology	Korea	AK0187
PP01	PP01-074	Diamond2	June 11 (Mon.)	11:50-13:00	Polymers based on 2,4,8,10-tetraoxaspiro [5.5] undecane as an efficient adsorbents for the removal of heavy metals, Cu ²⁺ ,	Chen-Yi Chou	Environment	Feng Chia University	Taiwan	AF0545
PP01	PP01-075	Diamond2	June 11 (Mon.)	11:50-13:00	Preparation of humidity control materials by recycling inorganic sludge	Chi Hong Kuok	Environment	National Cheng Kung University	Taiwan	AF0598
PP01	PP01-076	Diamond2	June 11 (Mon.)	11:50-13:00	Pilot plant demonstration of an advanced aqueous ammonia based post combustion capture of greenhouse gases	Chien Ying Yang	Environment	Global Centre for Environmental Remediation (GCER)	Australia	AF0402
PP01	PP01-077	Diamond2	June 11 (Mon.)	11:50-13:00	Remediation of TPH-contaminated groundwater using an emulsified polycolloid substrate barrier system	Chih-Ming Kao	Environment	National Sun Yat-Sen University	Taiwan	AF0538
PP01	PP01-078	Diamond2	June 11 (Mon.)	11:50-13:00	Graphene quantum dot membranes as fluorescent sensing platforms for Rhenium detection	Chuanqi Tang	Environment	Nanjing Forestry University	China	AF0284
PP01	PP01-079	Diamond2	June 11 (Mon.)	11:50-13:00	Considerations for Reasonable Measuring Method on the Road Traffic Noise in Korea	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0386
PP01	PP01-080	Diamond2	June 11 (Mon.)	11:50-13:00	Tunnel Ventilation Design for Air Quality Management on Korea Expressway	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0390
PP01	PP01-081	Diamond2	June 11 (Mon.)	11:50-13:00	A Study on Noise Performance Evaluation of Air Ventilating Noise Barrier	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0391

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-082	Diamond2	June 11 (Mon.)	11:50-13:00	A Study on Road Traffic Noise Calculation Model Comparison used in Korea	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0392
PP01	PP01-083	Diamond2	June 11 (Mon.)	11:50-13:00	Efforts on Road Traffic Noise Mitigation in Korea Expressway	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0393
PP01	PP01-084	Diamond2	June 11 (Mon.)	11:50-13:00	Effect Analysis of Reflection Noise by Normally used in Korea Expressway	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0458
PP01	PP01-085	Diamond2	June 11 (Mon.)	11:50-13:00	Road Traffic Noise Calculation Models used in Korea Environment Assessment	Chulhwan Kim	Environment	Korea Expressway Corporation Research Institute	Korea	AK0645
PP01	PP01-086	Diamond2	June 11 (Mon.)	11:50-13:00	Investigation of the effects of nitrogen addition on plant-microorganism competition in a temperate forest in northern	Chunmei Wang	Environment	Beijing Forestry University	China	AF0596
PP01	PP01-087	Diamond2	June 11 (Mon.)	11:50-13:00	Investigation of Distribution Characteristics of Petroleum Hydrocarbons in Groundwater	Deokhyun Kim	Environment	NIER	Korea	AK0459
PP01	PP01-088	Diamond2	June 11 (Mon.)	11:50-13:00	Long-term Leaching of Metals from Road Deposit Sediments on Expressways in Synthetic Precipitation	Do-Gun Kim	Environment	Kyung Hee University	Korea	AK0425
PP01	PP01-089	Diamond2	June 11 (Mon.)	11:50-13:00	Assessment of Soil Quality on Remediated Soil as Affected by Different Soil Amendments	Dong-Jin Kim	Environment	National Institute of Agricultural Sciences	Korea	AK0318
PP01	PP01-090	Diamond2	June 11 (Mon.)	11:50-13:00	Optimization of polyethersulfone membrane modification for direct contact membrane distillation using response surface	Chansoo Park	Environment	Hanyang University	Korea	AK0222
PP01	PP01-091	Diamond2	June 11 (Mon.)	11:50-13:00	An insight into membrane materials for membrane distillation in industrial and textile wastewater treatments with combined	Chansoo Park	Environment	Hanyang University	Korea	AK0227
PP01	PP01-092	Diamond2	June 11 (Mon.)	11:50-13:00	Electro-Conversion of CO2 and NO into Valuable Products	Dongyeon Kim	Environment	Korea Research Institute of Chemical Technology	Korea	AK0975
PP01	PP01-093	Diamond2	June 11 (Mon.)	11:50-13:00	Removal of heavy metals in mine drainages using indigenous bacterial culture	Eun Hea Jho	Environment	Hankuk University of Foreign Studies	Korea	AK0717
PP01	PP01-094	Diamond2	June 11 (Mon.)	11:50-13:00	Removal of Algae by Magnesium hydroxide: Simulated experiment and Field performance test	Eun Ju Hyun	Environment	Korea Institute of Limestone and Advanced Materials	Korea	AK0165
PP01	PP01-095	Diamond2	June 11 (Mon.)	11:50-13:00	Development of photo sensor based respirometer system	Fida Hussain	Environment	Kangwon National University	Korea	AK0813
PP01	PP01-096	Diamond2	June 11 (Mon.)	11:50-13:00	BTEX assessment in soil using sulfur-oxidizing bacterial bioassay	Fida Hussain	Environment	Kangwon National University	Korea	AK0898
PP01	PP01-097	Diamond2	June 11 (Mon.)	11:50-13:00	Comparison of Nitrogen and Phosphorus Removal Capabilities in Flocculent and Granular sludge	Geumhee Yun	Environment	Korea University	Korea	AK0287
PP01	PP01-098	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of anions, heavy metals and organic matter on phosphate adsorption from wastewater using Iron oxide nanoflowers	Gi-Beom Han	Environment	Hanyang University	Korea	AF0056
PP01	PP01-099	Diamond2	June 11 (Mon.)	11:50-13:00	Comparison of ecotoxicological effects of PPCPs on different luminescent bacteria in automated and manual systems.	Giuseppina Masciongo	Environment	Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise 'G. Caporale'	Italy	AF0221
PP01	PP01-100	Diamond2	June 11 (Mon.)	11:50-13:00	Electrochemical resource recovery for ammonia accumulation from ammonia-rich livestock wastewater	Gwangtaek Lee	Environment	KAIST	Korea	AK0978
PP01	PP01-101	Diamond2	June 11 (Mon.)	11:50-13:00	Influence of nitrogen-contamination source to groundwater quality near livestock farming regions(Chungcheong-do).	Gyeong-Mi Lee	Environment	National institute of environmental research	Korea	AK0326
PP01	PP01-102	Diamond2	June 11 (Mon.)	11:50-13:00	Evaluation of the Effect of Membrane Integrity on MF Membrane by Chemical Cleaning	Ha-Young Kang	Environment	Hanyang University	Korea	AK0641
PP01	PP01-103	Diamond2	June 11 (Mon.)	11:50-13:00	Establishing irrigation management standard for lettuce and young radish under greenhouse	Heerae Cho	Environment	RDA(Rural Development Administration)	Korea	AK0368
PP01	PP01-104	Diamond2	June 11 (Mon.)	11:50-13:00	Surfactant-enhanced Air Sparging with Viscosity Control for Heterogeneous Aquifers	Heonki Kim	Environment	Hallym University	Korea	AK0703
PP01	PP01-105	Diamond2	June 11 (Mon.)	11:50-13:00	Trace analysis of 61 natural and synthetic progestins in river water and sewage effluents by UPLC-MS/MS	Hong Chang	Environment	Beijing Forestry University	China	AF0276
PP01	PP01-106	Diamond2	June 11 (Mon.)	11:50-13:00	A study of Improved Model Development Based on QUAL2E for the Application of TMDL of Stream Including Stagnant Sections	Yong Seok Lee	Environment	Hallym Polytechnic University	Korea	AF0823
PP01	PP01-107	Diamond2	June 11 (Mon.)	11:50-13:00	A Novel Metal-Biochar Derived from Red Mud/Lignin Mixture and Its Potential Environmental Applications	Hocheol Song	Environment	Sejong University	Korea	AK0852
PP01	PP01-108	Diamond2	June 11 (Mon.)	11:50-13:00	Fabrication of Co9S8-impregnated carbon composites via phase transformation of cobalt oxide (Co3O4) in the presence	Gihoon Kwon	Environment	Sejong University	Korea	AK0865

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**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-110	Diamond2	June 11 (Mon.)	11:50-13:00	Design of Sustainable Pd-Salen Complex Infused Carbon Nanocages for Catalytic Degradation of Perilous Water	Gun Gyun Kim	Material Technology	Dongguk University	Korea	AF0441
PP01	PP01-111	Diamond2	June 11 (Mon.)	11:50-13:00	Synthesis and characterization of multifunctional copper/ceramic core-shell structure as a bactericidal and	Arash Badakhsh	Material Technology	Korea Institute of Carbon Convergence Technology KCTCC	Korea	AK0472
PP01	PP01-112	Diamond2	June 11 (Mon.)	11:50-13:00	Development of an Electrochemically Active Platform of HKUST-1 For Sensitive Biosensing of Water Borne Pathogens	Arushi Gupta	Material Technology	CSIR-CSIO Chandigarh	India	IF0290
PP01	PP01-113	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of electrolysis corrosion reduction and GHG mitigation by the anti-deterioration agent for railway concrete structure	Cheul Kyu Lee	Material Technology	Korea Railroad Research Institute	Korea	AK0705
PP01	PP01-114	Diamond2	June 11 (Mon.)	11:50-13:00	Characterization of MOF through a combination of pulse chemisorption and temperature programmed desorption	Christia Jabbour	Material Technology	Ghent University GLObal Campus	Korea	AK0191
PP01	PP01-115	Diamond2	June 11 (Mon.)	11:50-13:00	Reusability and photocatalytic activity of bismuth-TiO ₂ nanocomposites for industrial wastewater treatment	Gi-Beom Han	Material Technology	Hanyang university	Korea	AF0297
PP01	PP01-116	Diamond2	June 11 (Mon.)	11:50-13:00	Adsorption and Desorption of Boron-TiO ₂ Nanocomposite to enhance reusability for methylene blue Treatment	Gi-Beom Han	Material Technology	Hanyang university	Korea	AK0211
PP01	PP01-117	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of FGD gypsum quality on the transformation to α -calcium sulfate hemihydrate	Hailu Fu	Material Technology	China Jiliang University	China	AF0961
PP01	PP01-118	Diamond2	June 11 (Mon.)	11:50-13:00	Facile synthesis of copper hexacyanoferrates-embedded magnetic hydrogel beads for the selective removal of cesium	Hee-Man Yang	Material Technology	Korea Atomic Energy Research Institute	Korea	AK0701
PP01	PP01-119	Diamond2	June 11 (Mon.)	11:50-13:00	Large-scale Peptide Nanotube Array through Meniscus-driven Self-Assembly Process	In Woo Park	Material Technology	Sejong University	Korea	AK0561
PP01	PP01-120	Diamond2	June 11 (Mon.)	11:50-13:00	Potential Alkali Reactivity of Concrete for Recycled Silica-based Powders	Jaewon Shim	Material Technology	Korea Expressway Corporation	Korea	IK0278
PP01	PP01-121	Diamond2	June 11 (Mon.)	11:50-13:00	Fire Resistance of Fireproof Materials for Structural Members under RABT Fire Loading	Jaewon Shim	Material Technology	Korea Expressway Corporation	Korea	IK0380
PP01	PP01-122	Diamond2	June 11 (Mon.)	11:50-13:00	Immobilization of zinc sulfide (ZnS) nanoparticles on poly(vinylidene fluoride) (PVDF) pellets for photocatalytic	Jeonghwan Kim	Material Technology	Inha University	Korea	AK0800
PP01	PP01-123	Diamond2	June 11 (Mon.)	11:50-13:00	Application of Bare Concrete Bridge Deck for Improving the Durability Life of Korea Expressway	Ji-Young Rhee	Material Technology	Korea Expressway Corporation	Korea	IK0447
PP01	PP01-124	Diamond2	June 11 (Mon.)	11:50-13:00	Lithium Titanium Oxide Ion-Sieves: Preparation and Performance Evaluation for the Recovery of Li ⁺ from Seawater	Jungho Ryu	Material Technology	Korea Institute of Geoscience and Mineral Resources	Korea	AK0950
PP01	PP01-125	Diamond2	June 11 (Mon.)	11:50-13:00	Thermal and mechanical properties of polyethylene-based carbon fibers using a wet-dry hybrid cross-linking system	Kwan-Woo Kim	Material Technology	Korea Institute of Carbon Convergence Technology KCTCC	Korea	AK0589
PP01	PP01-126	Diamond2	June 11 (Mon.)	11:50-13:00	Large-scale Assembly of Cadmium Chalcogenide Hierarchical Nanostructures for Photoconductive Applications	Minji Gwak	Material Technology	Sejong University	Korea	AK0551
PP01	PP01-127	Diamond2	June 11 (Mon.)	11:50-13:00	Hydrotalcite-Stabilized MgO-NaNO ₃ with Improved Cyclic Stability for High-Temperature CO ₂ Capture	Monica Louise Trivino	Material Technology	Myongji University	Korea	AK0643
PP01	PP01-128	Diamond2	June 11 (Mon.)	11:50-13:00	Surface charge effects of manganese oxide octahedral molecular sieve-coated ceramic balls on arsenite oxidation	Nichapa Supannafai	Material Technology	Chulalongkorn University	Thailand	AF0884
PP01	PP01-129	Diamond2	June 11 (Mon.)	11:50-13:00	Surface modification of mesoporous magnesium carbonate for drug delivery	Ocean Cheung	Material Technology	Uppsala University	Sweden	AF0474
PP01	PP01-130	Diamond2	June 11 (Mon.)	11:50-13:00	Cation distribution govern photocatalytic degradation of herbicide 2, 4-D by nanocrystalline cobalt chromite ferrites	Pooja Raval	Material Technology	Saurashtra University	India	AF0463
PP01	PP01-131	Diamond2	June 11 (Mon.)	11:50-13:00	Degradation of Dimethyl Phthalate using Liquid Phase Plasma Process with TiO ₂ photocatalysts	Won-June Lee	Material Technology	Sunchon National University	Korea	AK0163
PP01	PP01-132	Diamond2	June 11 (Mon.)	11:50-13:00	Marine Macroalgae based Carbon Electrode Materials for Supercapacitors	Seung Jae Lee	Material Technology	Suncheon National University	Korea	AK0510
PP01	PP01-133	Diamond2	June 11 (Mon.)	11:50-13:00	ZnO embedded porous carbon/CNT composite derived from Zn-based metal organic framework (MOF-5) for supercapacitor	Songgwe Choi	Material Technology	Yonsei University	Korea	AK0283
PP01	PP01-134	Diamond2	June 11 (Mon.)	11:50-13:00	Carbamazepine removal from water by carbon dots modified magnetic carbon nanotube	Xiaomin Dou	Material Technology	Beijing Forestry University	China	AF0488
PP01	PP01-135	Diamond2	June 11 (Mon.)	11:50-13:00	Organic Acid Leaching from Spent Lithium-Ion Battery Cathode Material	Xin-Ye Lin	Material Technology	Technological and Higher Education Institute of Hong Kong	Hong Kong	AF0910
PP01	PP01-136	Diamond2	June 11 (Mon.)	11:50-13:00	Hierarchical Nano- and Micro-Patterning through Self-Templating Assembly	Yonghun Lee	Material Technology	Sejong University	Korea	AK0549

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**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-137	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of Nitrogen Fertilization Level on the Growth and Yield of Small-Medium Sized Watermelons for Vertical Growing at	Young Sang Kim	Material Technology	Chungcheongbuk-do Agriculture Research Extension Services	Korea	AK0210
PP01	PP01-138	Diamond2	June 11 (Mon.)	11:50-13:00	Incorporation of Cu(II) and Selective Reduction to Cu(I) within Confined Spaces: Efficient Active Sites for CO Adsorption	Yu-Xia Li	Material Technology	Nanjing Tech University	China	AF0058
PP01	PP01-139	Diamond2	June 11 (Mon.)	11:50-13:00	Metal-organic frameworks as efficient catalytic systems for the cyclization reactions of synthesis of oxygen- and nitrogen-	Maria Timofeeva	Material Technology	Boreskov Institute of Catalysis SB RAS	Russia	AF0006
PP01	PP01-140	Diamond2	June 11 (Mon.)	11:50-13:00	Removal of Ciprofloxacin using novel montmorillonite- biochar composite in aquatic environments	Ahamed Abdul Rahiman	Special Symposium-4th KBRC International Biochar Conference: SMART	National Institute of Fundamental Studies	Sri Lanka	AF0743
PP01	PP01-141	Diamond2	June 11 (Mon.)	11:50-13:00	Application of biochar to low fertile soils: A review of current status, strategies for increasing use efficiency, and future	Ali El-Naggar	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	IK0750
PP01	PP01-142	Diamond2	June 11 (Mon.)	11:50-13:00	Biochar induced-changes in carbon dynamics and soil quality associated with fluorescent dissolved organic matter and	Ali El-Naggar	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	IK0903
PP01	PP01-143	Diamond2	June 11 (Mon.)	11:50-13:00	Effectiveness of biochar to reduce soluble Cd concentrations in a smelter impacted sandy soil	Caleb Egene	Special Symposium-4th KBRC International Biochar Conference: SMART	Ghent University	Belgium	AF0248
PP01	PP01-144	Diamond2	June 11 (Mon.)	11:50-13:00	Arsenite sorption and toxicity reduction of Fe-biochar composite powder and beads	Jinyoung Song	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	AK0279
PP01	PP01-145	Diamond2	June 11 (Mon.)	11:50-13:00	Nutrient Enrichment of Biochar for Potential Soil Conditioner and Fertiliser	Nanthi Bolan	Special Symposium-4th KBRC International Biochar Conference: SMART	University of Newcastle	Australia	AF0410
PP01	PP01-146	Diamond2	June 11 (Mon.)	11:50-13:00	Biochar application reduces ammonia volatilization from a soil-plant system	Sanchita Mandal	Special Symposium-4th KBRC International Biochar Conference: SMART	University of South Australia	Australia	AF0752
PP01	PP01-147	Diamond2	June 11 (Mon.)	11:50-13:00	Biomass derived N-doped carbon with high porosity and N content for energy storage	Shicheng Zhang	Special Symposium-4th KBRC International Biochar Conference: SMART	Fudan University	China	AF0073
PP01	PP01-148	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of biochar and organic amendments on acid saline soil	Viraj Gunarathne	Special Symposium-4th KBRC International Biochar Conference: SMART	National Institute for Fundamental Studies	Sri Lanka	AF0746
PP01	PP01-149	Diamond2	June 11 (Mon.)	11:50-13:00	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: effect of feedstock composition	Xiao Yang	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	AK0112
PP01	PP01-150	Diamond2	June 11 (Mon.)	11:50-13:00	Enhancing the Removal of Methylene Blue by Using Biochar Engineered by a Combination of H3PO4 Chemical Activation	Xiao Yang	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	AK0363
PP01	PP01-151	Diamond2	June 11 (Mon.)	11:50-13:00	Preparation of Magnetic Separation Biochar Via a Facile Slow Pyrolysis of Paper Mill Sludge and its Application in Recovery of	Xiao Yang	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	AK0591
PP01	PP01-152	Diamond2	June 11 (Mon.)	11:50-13:00	SMART biochar technology: A shifting paradigm towards advanced materials and healthcare research	Yong Sik Ok	Special Symposium-4th KBRC International Biochar Conference: SMART	Korea University	Korea	IF0084
PP01	PP01-153	Diamond2	June 11 (Mon.)	11:50-13:00	Uncertainty analysis for CH4 emission factor of thermal power plant by fuel type based on Monte Carlo Simulation	Changsang Cho	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	AK0652
PP01	PP01-154	Diamond2	June 11 (Mon.)	11:50-13:00	Implications for PV waste management at the crossroad of circular economy and energy transition: Case study of South	Hana Kim	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	AK0649
PP01	PP01-155	Diamond2	June 11 (Mon.)	11:50-13:00	Economic value analysis of the multipurpose dam in South Korea: A choice experiment study	Ju-Hee Kim	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Seoul National University of Science & Technology	Korea	AK0544
PP01	PP01-156	Diamond2	June 11 (Mon.)	11:50-13:00	An Influence of the Benefit Sharing Mechanism to the Local Acceptance and Environmental Awareness: Focusing on the	Kyungmin Lee	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Seoul National University of Science & Technology	Korea	IK0466
PP01	PP01-157	Diamond2	June 11 (Mon.)	11:50-13:00	Refinement of air pollutant inventory for agricultural residue	Minwook Kim	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	AK0679
PP01	PP01-158	Diamond2	June 11 (Mon.)	11:50-13:00	The Analysis of the Key Issues on Corporate Sustainability Management by business characteristics	Seehyung Lee	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Business Institute for Sustainable Development	Korea	AK0881
PP01	PP01-159	Diamond2	June 11 (Mon.)	11:50-13:00	Fossil Carbon Fraction and Measuring Cycle for Sewage Sludge Waste Incineration	Seongmin Kang	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	AK0623
PP01	PP01-160	Diamond2	June 11 (Mon.)	11:50-13:00	A system dynamics analysis of Korea's renewable energy policies focusing on feed-in tariff and renewable portfolio	Seungmoon Kwon	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	IK0738
PP01	PP01-161	Diamond2	June 11 (Mon.)	11:50-13:00	Optimal energy mix for an eco-friendly and safe society - The case of the South Korean electricity sector -	Sungheum Cho	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and	Sejong University	Korea	AK0653
PP01	PP01-162	Diamond2	June 11 (Mon.)	11:50-13:00	Composites based on natural clays for catalytic applications	Maria Timofeeva	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Boreskov Institute of Catalysis SB RAS	Russia	AF0870
PP01	PP01-163	Diamond2	June 11 (Mon.)	11:50-13:00	Removal of lead by modified palygorskite adsorbents from contaminated lake water	Binoy Sarkar	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	The University of Sheffield	UK	AF0486

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-164	Diamond2	June 11 (Mon.)	11:50-13:00	Nanoclay/Polyphenol/Polymer Nanocomposites for Hybrid Transistor Sensors to Detect Hazardous Radical Species in	Chulyeon Lee	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Kyungpook National University	Korea	AK0767
PP01	PP01-165	Diamond2	June 11 (Mon.)	11:50-13:00	Dynamism of rock types and soils on cocoa (Theobroma cacao) yields in ten villages in Meme Division, South West Region,	Gideon Taka	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	University of Ulsan	Korea	AK0550
PP01	PP01-166	Diamond2	June 11 (Mon.)	11:50-13:00	Cu/Fly ash heterostructures as a recyclable catalyst for enhanced catalytic reduction of p-nitrophenol	Jaehyeong Park	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Konkuk University	Korea	AK0477
PP01	PP01-167	Diamond2	June 11 (Mon.)	11:50-13:00	Microwave activation of red mud with ammonium chloride for enhancing alkali metal extraction	JinSeok Kim	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Korea University	Korea	AK0812
PP01	PP01-168	Diamond2	June 11 (Mon.)	11:50-13:00	Sepiolite a natural mineral with high adsorption capacity for phosphate: Its use for removing phosphate from water and	Seong-Jik Park	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Hankyong National University	Korea	AK0920
PP01	PP01-169	Diamond2	June 11 (Mon.)	11:50-13:00	Simultaneous removal of SO2 and NOX by combination of red mud and mine drainage	Yanqing Sheng	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Tanlar Institute of Coastal Zone Research, Chinese Academy of Sciences	China	AF0949
PP01	PP01-170	Diamond2	June 11 (Mon.)	11:50-13:00	Removal Br in PCBs by Catalytic Co-pyrolysis of PCBs and Waste Plastic using Clay	Young-Min Kim	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	Hallym University	Korea	AK0618
PP01	PP01-171	Diamond2	June 11 (Mon.)	11:50-13:00	Enhanced release of potassium and micronutrients from waste mineral powder through organic amendments	Biraj Basak	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	ICAR-Directorate of Medicinal and Aromatic Plants Research	India	AF0333
PP01	PP01-172	Diamond2	June 11 (Mon.)	11:50-13:00	Valorization of low-grade Indian rock phosphate as fertilizer phosphorus source through bio-interventions	Biraj Basak	Special Symposium-Clays and Waste Rock Minerals for Agricultural and	ICAR-Directorate of Medicinal and Aromatic Plants Research	India	AF0735
PP01	PP01-173	Diamond2	June 11 (Mon.)	11:50-13:00	ssDNA aptamer screening to detect the Nonylphenol ethoxylate	A-Ru Kim	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0644
PP01	PP01-174	Diamond2	June 11 (Mon.)	11:50-13:00	Improving accuracy of a virus-based color sensor in discrimination among similar phthalate and chlorobenzene	Daun Seol	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0500
PP01	PP01-175	Diamond2	June 11 (Mon.)	11:50-13:00	A mechanical pencil lead supported by Nickel Sulfide/Reduced Graphene Oxide as an electrochemical sensor for Bisphenol-A	Duy Tung Vu	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0265
PP01	PP01-176	Diamond2	June 11 (Mon.)	11:50-13:00	Mixture effects at environmental relevant levels of bisphenol A and butylparaben in zebrafish embryo	Eui-Jin Lee	Special Symposium-Endocrine Disruptors	Incheon St. Mary's Hospital	Korea	AK0631
PP01	PP01-177	Diamond2	June 11 (Mon.)	11:50-13:00	Fates and Profiles of Antibiotics and Hormones in Two Different Types of Sewage Treatment Works in Hong Kong	Ka Lai Chow	Special Symposium-Endocrine Disruptors	Hong Kong Baptist University	Hong Kong	AF0100
PP01	PP01-178	Diamond2	June 11 (Mon.)	11:50-13:00	Occurrence and exposure assessment of phthalates in childcare facilities, house and workplace dusts	Ki-Tae Kim	Special Symposium-Endocrine Disruptors	Seoul National University of Science and Technology	Korea	AK0990
PP01	PP01-179	Diamond2	June 11 (Mon.)	11:50-13:00	OECD TG407 evaluation of general toxicity of citrate esters and phthalate in rodents	Myung Chan Gye	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0219
PP01	PP01-180	Diamond2	June 11 (Mon.)	11:50-13:00	Effects of Nonylphenol on Amphibian Metamorphosis Toxicity Test (OECD TG 231)	Myung Chan Gye	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0417
PP01	PP01-181	Diamond2	June 11 (Mon.)	11:50-13:00	Developmental toxicity of dibutyl phthalate and citrate ester plasticizers in Xenopus laevis embryos	Myung Chan Gye	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0423
PP01	PP01-182	Diamond2	June 11 (Mon.)	11:50-13:00	Dose-dependent effects of alkylphenols on the steroidogenesis, mitochondrial functions and ROS production in Leydig TM3	Tomas Jambor	Special Symposium-Endocrine Disruptors	Slovak University of Agriculture in Nitra	Slovakia	AF0136
PP01	PP01-183	Diamond2	June 11 (Mon.)	11:50-13:00	Toxicological assessment of phthalates and their alternatives using human keratinocytes	Hyungjoo Kim	Special Symposium-Endocrine Disruptors	Hanyang University	Korea	AK0654
PP01	PP01-184	Diamond2	June 11 (Mon.)	11:50-13:00	Developmental toxicities of three endocrine disrupting chemicals on embryos of zebrafish (Danio rerio)	Hwang-Ju Jeon	Special Symposium-Endocrine Disruptors	Kyungpook National University	Korea	IK0783
PP01	PP01-185	Diamond2	June 11 (Mon.)	11:50-13:00	Assessment of human estrogen receptor agonistic effects on veterinary drugs by OECD in vitro stably transfected	Youngsun Song	Special Symposium-Endocrine Disruptors	National Institute of Food & Drug Safety Evaluation	Korea	AK0439
PP01	PP01-186	Diamond2	June 11 (Mon.)	11:50-13:00	Assessment of Androgen receptor agonistic/antagonistic effects on veterinary drugs by OECD in vitro assays	Eun-Yi Ko	Special Symposium-Endocrine Disruptors	Ministry of Food and Drug Safety	Korea	AK0440
PP01	PP01-187	Diamond2	June 11 (Mon.)	11:50-13:00	p38 MAP kinase modulate human estrogen receptor agonistic effects on pesticides	Na-Yeon Kim	Special Symposium-Endocrine Disruptors	Ministry of Food and Drug safety	Korea	AK0444
PP01	PP01-188	Diamond2	June 11 (Mon.)	11:50-13:00	Evaluation of human estrogen receptor agonistic/antagonistic effects on pesticides and its metabolites using S9 fraction	Dawoon Jung	Special Symposium-Endocrine Disruptors	Ministry of Food and Drug Safety	Korea	AK0446
PP01	PP01-189	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of plasticizers, acetyl triethyl citrate and di(2-ethylhexyl) phthalate on blood glucose level and genotoxicity	Eun Yi Moon	Special Symposium-Endocrine Disruptors	Sejong University	Korea	AK0921
PP01	PP01-190	Diamond2	June 11 (Mon.)	11:50-13:00	Effect of Nonylphenol on the Reproductive System in Adult Male Mice: 4 weeks treatment model	Sung-Ho Lee	Special Symposium-Endocrine Disruptors	Sangmyung University	Korea	AK0995

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP01	PP01-191	Diamond2	June 11 (Mon.)	11:50-13:00	Estimation of Human Exposure Sources for Urinary BPA and Phthalates - Based on Questionnaire Survey	Youngwook Lim	Special Symposium-Endocrine Disruptors	Yonsei University	Korea	AK0946
PP01	PP01-192	Diamond2	June 11 (Mon.)	11:50-13:00	Comparison of EDCs risk perception between the general population and the expert	Yong-Jin Lee	Special Symposium-Endocrine Disruptors	Yonsei University	Korea	AK0992
PP01	PP01-193	Diamond2	June 11 (Mon.)	11:50-13:00	Biodegradation of triclosan in sludge by aerated static pile composting system	Guodi Zheng	Special Symposium-Sediment Pollution Assessment and	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	China	AF0682
PP01	PP01-194	Diamond2	June 11 (Mon.)	11:50-13:00	Fractionation and Mineralogy of Heavy Metals-Contaminated Marine Sediment During Pyrolysis	Jeong Hwan Choi	Special Symposium-Sediment Pollution Assessment and	Chonbuk National University	Korea	AK0316
PP01	PP01-195	Diamond2	June 11 (Mon.)	11:50-13:00	Effects of temperature, dissolved oxygen and pH on phosphorus release at the sediment-water interface in eutrophic	Jingfu Wang	Special Symposium-Sediment Pollution Assessment and	Institute of Geochemistry, Chinese Academy of Sciences	China	AF0021
PP01	PP01-196	Diamond2	June 11 (Mon.)	11:50-13:00	Pollution Characteristics and Phytoremediation of Polycyclic Aromatic Hydrocarbons in Rural Dumpsites in North China	Junwei Ma	Special Symposium-Sediment Pollution Assessment and	Beijing Normal University	China	AF0915
PP01	PP01-197	Diamond2	June 11 (Mon.)	11:50-13:00	Concentration Characteristics of Nitrogen in the Paddy-Wheat Rotation Soil of the Yellow River Irrigation Area in Jinan, China	Lirong Xu	Special Symposium-Sediment Pollution Assessment and	University of Jinan	China	AF0848
PP01	PP01-198	Diamond2	June 11 (Mon.)	11:50-13:00	Novel CNT-based hollow-fiber membrane incorporated with iron oxide nanoparticles to overcome the mass transport limitation of	Seoktae Kang	Special Symposium-Sediment Pollution Assessment and	KAIST	Korea	AK0958
PP01	PP01-199	Diamond2	June 11 (Mon.)	11:50-13:00	New insight into sediment phosphorus immobilization amended with lanthanum modified bentonite (Phoslock®)	Shiming Ding	Special Symposium-Sediment Pollution Assessment and	Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences	China	AF0661
PP01	PP01-200	Diamond2	June 11 (Mon.)	11:50-13:00	Spatial distribution in sediment phosphorus forms and alkaline phosphatase activity in freshwater estuaries	Tingxi Zhang	Special Symposium-Sediment Pollution Assessment and	Nanjing Normal University	China	AF0866
PP01	PP01-201	Diamond2	June 11 (Mon.)	11:50-13:00	Mercury and methylmercury in sediment of the Nansi Lake, China	Wei Zhang	Special Symposium-Sediment Pollution Assessment and	University of Jinan	China	AF0745
PP01	PP01-202	Diamond2	June 11 (Mon.)	11:50-13:00	Investigating effects of environmental factors on the dissolved organic matter photoreleased from sediment using excitation-	Bin Hu	Special Symposium-Sediment Pollution Assessment and	Hoai University	China	AF0662
PP01	PP01-203	Diamond2	June 11 (Mon.)	11:50-13:00	Radium isotopes - suspended sediment relationships in a muddy river	Disong Yang	Special Symposium-Sediment Pollution Assessment and	Ocean University of China	China	IF0678
PP01	PP01-204	Diamond2	June 11 (Mon.)	11:50-13:00	Liquidity Evaluation of the Horizontal Branch Pipe according to the Motor Rotation Speed of the Food Waste Disposer	Sang-Moon Lee	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart Technology	Korea Institute of Civil Engineering and Building Technology	Korea	AK0849
PP01	PP01-205	Diamond2	June 11 (Mon.)	11:50-13:00	Comparison studies of aerobic and anaerobic food waste treatment methods for communities	Siewhui Chong	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart	University of Nottingham Malaysia Campus	Malaysia	AF0971
PP01	PP01-206	Diamond2	June 11 (Mon.)	11:50-13:00	A Case Study on the Recycling Community of Resources in Housing Complex Using Food Waste Smart Recycling System	Wooseon Jeon	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart	Land & Housing Institute	Korea	AK0759
PP01	PP01-207	Diamond2	June 11 (Mon.)	11:50-13:00	Bio-decolourization of mixed reactive azo dyes and reduction of chromate from wastewater by Pseudomonas aeruginosa 23N1	Abhijit Maiti	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart	Indian Institute of Technology	India	AF0841
PP01	PP01-208	Diamond2	June 11 (Mon.)	11:50-13:00	Evaluation of Suitability of Compost Produced by High Rate Fermentation Technology Using Food Waste in Housing	Ire Park	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart	Land & Housing Institute	Korea	IK0787
PP01	PP01-209	Diamond2	June 11 (Mon.)	11:50-13:00	Characteristics of carbonization and availability of excess food waste composting.	Jun-Ho Jo	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart	Korea Institute of Civil engineering and building Technology	Korea	IK0820
PP02	PP02-001	Diamond2	June 12 (Tue.)	12:10-13:20	Toxicological evaluation of titanium dioxide nanoparticles using human breast cancer cell lines	Hyungjoo Kim	Environment	Hanyang University	Korea	AK0655
PP02	PP02-002	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on the Distribution of Air Pollutants in Tunnels Using CFD Analysis	Hye Jin Kang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0516
PP02	PP02-003	Diamond2	June 12 (Tue.)	12:10-13:20	Correlation between Traffic Volume and Air Pollutants in Expressway Tunnel	Hye Jin Kang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0517
PP02	PP02-004	Diamond2	June 12 (Tue.)	12:10-13:20	Investigation of Change in Air pollution Concentrations by Roadside on Expressway	Hye Jin Kang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0518
PP02	PP02-005	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of organic amendments on the speciation and phytoavailability of heavy metals in soil	Hye Jin Park	Environment	Pusan National University	Korea	AK0855
PP02	PP02-006	Diamond2	June 12 (Tue.)	12:10-13:20	The Effect of Microbial Electrolysis Cells with Primary and Wasted Activated Sludge as substrates on Bulk Sludge: An	Hyejeong Kwon	Environment	Chungbuk National University	Korea	AK0964
PP02	PP02-007	Diamond2	June 12 (Tue.)	12:10-13:20	Selective adsorption recovery of platinum (Pt) by cellulose nano-materials modified with polyethylene imine (PEI)	Hye-Jin Hong	Environment	Korea Institute of Geoscience and Mineral resources	Korea	AK0969
PP02	PP02-008	Diamond2	June 12 (Tue.)	12:10-13:20	Methanol metabolisms and archaeal community changes in a bio-electrochemical anaerobic digestion sequencing batch	Hyelin Park	Environment	Chungbuk National University	Korea	AK0301

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-009	Diamond2	June 12 (Tue.)	12:10-13:20	Evaporative emissions adsorption and desorption behaviors in micro/mesopores of activated carbons	Hye-Min Lee	Environment	Korea Institute of Carbon Convergence Technology	Korea	AK0587
PP02	PP02-010	Diamond2	June 12 (Tue.)	12:10-13:20	Assessment of heavy metal concentrations in the upland soils of Gyeongnam Province, South Korea	Hyeon Ji Cho	Environment	Gyeongsangnam-do Agricultural Research and Extension Services	Korea	AK0329
PP02	PP02-011	Diamond2	June 12 (Tue.)	12:10-13:20	Changes in soil chemical properties under greenhouse condition in Gyeongnam Province, South Korea	Hyeon Ji Cho	Environment	Gyeongsangnam-do Agricultural Research and Extension Services	Korea	AK0331
PP02	PP02-012	Diamond2	June 12 (Tue.)	12:10-13:20	Monitoring of the reactive oxygen species generation by the changes in the environment	Hyojik Yoon	Environment	Korea University	Korea	AK0173
PP02	PP02-013	Diamond2	June 12 (Tue.)	12:10-13:20	Management of contaminants by hierarchical cluster analysis in drinking ground water at agricultural area	Hyun-Koo Kim	Environment	National Institute of Environmental Research	Korea	AK0842
PP02	PP02-014	Diamond2	June 12 (Tue.)	12:10-13:20	Removal of hydrogen sulfide using amorphous iron-containing sludge	Sanghyun Park	Environment	Korea Institute of Science and Technology	Korea	AK0930
PP02	PP02-015	Diamond2	June 12 (Tue.)	12:10-13:20	Comparison of removal rates of assimilable organic carbon according to soil characteristics in artificial recharge aquifers	Miyeon Lee	Environment	Korea Institute of Science and Technology	Korea	AK0934
PP02	PP02-016	Diamond2	June 12 (Tue.)	12:10-13:20	Determination of the size-dependent emission flux equation of nanoparticles generated from commercial cooking oil heating	Hyunwook Cho	Environment	Inha University	Korea	AK0532
PP02	PP02-017	Diamond2	June 12 (Tue.)	12:10-13:20	Radioactive cesium removal from aqueous solution by bioaccumulation of microalgae with magnetic separation	Ilgook Kim	Environment	Korea Atomic Energy Research Institute	Korea	AK0959
PP02	PP02-018	Diamond2	June 12 (Tue.)	12:10-13:20	Optimization of extremely low sulfuric acid pretreatment and post-treatment for the production of fermentable sugar from	Ilgyu Lee	Environment	Korea Research Institute of Chemical Technology	Korea	AK0976
PP02	PP02-019	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on Contribution Ratios of Particulate Matter Emissions in differential Provinces Concerning Condensable Particulate	Im Hack Lee	Environment	University of Seoul	Korea	AK0296
PP02	PP02-020	Diamond2	June 12 (Tue.)	12:10-13:20	Extended Theory Of Planned Behaviour For Promoting Food Waste Recycling In Hong Kong	Man Wah Tiffany Mak	Environment	The Hong Kong Polytechnic University	Hong Kong	AF0608
PP02	PP02-022	Diamond2	June 12 (Tue.)	12:10-13:20	Contingent valuation of soundproof walls installation projects	In-Chul Bae	Environment	Korea Expressway Corporation Research Institute	Korea	IK0967
PP02	PP02-023	Diamond2	June 12 (Tue.)	12:10-13:20	Willingness to pay for eco-corridors to prevent road-kill on expressways	In-Chul Bae	Environment	Korea Expressway Corporation Research Institute	Korea	IK0968
PP02	PP02-024	Diamond2	June 12 (Tue.)	12:10-13:20	The copper bioaccumulation and distribution in the different soils contaminated with CuO nanoparticles	Izabela Josko	Environment	University of Maria Curie Skłodowska	Poland	AF0859
PP02	PP02-025	Diamond2	June 12 (Tue.)	12:10-13:20	Adsorption characteristics of Lead and Copper by TMA-birnessite	Jae-Min Choi	Environment	The University of Suwon	Korea	AK0399
PP02	PP02-026	Diamond2	June 12 (Tue.)	12:10-13:20	Export of Organic Carbon From Agricultural Land and a Forested Watershed During Storm Events	Jaesung Eum	Environment	Kangwon National University	Korea	AK0792
PP02	PP02-027	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluation of best management practices in agricultural watershed	Jaesung Eum	Environment	Kangwon National University	Korea	AK0799
PP02	PP02-028	Diamond2	June 12 (Tue.)	12:10-13:20	Membrane distillation integrated with staged anaerobic fluidized bed membrane bioreactor treating low-strength wastewater	Jeonghwan Kim	Environment	Inha University	Korea	AF0756
PP02	PP02-029	Diamond2	June 12 (Tue.)	12:10-13:20	Boron removal from seawater by biochar	Jeongyeop You	Environment	UNIST(Ulsan National Institute of Science and Technology)	Korea	AK0462
PP02	PP02-030	Diamond2	June 12 (Tue.)	12:10-13:20	Reducing Capacities in Low Molecular Weight Fractions Released Continuously from Humic Acids	Jie Jiang	Environment	Beijing Forestry University, China	China	AF0154
PP02	PP02-031	Diamond2	June 12 (Tue.)	12:10-13:20	Metagenomics-based Multiple Locus Sequence Typing Novel Technique to Identify Multidrug Resistant and Pathogenic	Jihoon Yang	Environment	Yonsei University	Korea	AK0766
PP02	PP02-032	Diamond2	June 12 (Tue.)	12:10-13:20	Estimation of the Green House Gas (GHG) effects from the Waste Electrical and Electronic Equipment (WEEE) in recycling	Jihwan Park	Environment	Korea Electronics Recycling Cooperative	Korea	AK0727
PP02	PP02-033	Diamond2	June 12 (Tue.)	12:10-13:20	Shifting activated sludge microbial communities and their functions using audible sound wave	Jihyun Kim	Environment	Yonsei University	Korea	AK0814
PP02	PP02-034	Diamond2	June 12 (Tue.)	12:10-13:20	multi-generational reproductive toxicity of Oryzias latipes in response to waterborne metformin exposure	Jin Wuk Lee	Environment	National Institute of Environmental Research	Korea	AK0786
PP02	PP02-035	Diamond2	June 12 (Tue.)	12:10-13:20	Potential effect and bioaccumulation of nanoparticles on seed germination	Jiyong Heo	Environment	Korea Army Academy at Young-Cheon	Korea	AK0508
PP02	PP02-036	Diamond2	June 12 (Tue.)	12:10-13:20	CFD Analysis on Fire Intensity and Heat Transfer Characteristics of Concrete Pier in Vehicle Fire	Ji-Young Rhee	Environment	Korea Expressway Corporation	Korea	IK0445

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**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-037	Diamond2	June 12 (Tue.)	12:10-13:20	The development of LID effects analysis technique according to installation of a road LID facilities	Jongpyo Park	Environment	HECOREA. INC	Korea	AK0246
PP02	PP02-038	Diamond2	June 12 (Tue.)	12:10-13:20	On-Site Algae Harvesting System Using Tailored Bubble Flotation	Jooho Chung	Environment	Seoul National University	Korea	AK0225
PP02	PP02-039	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of biochar derived from agricultural wastes on growth of hot pepper and uptake of heavy metals in contaminated soil	Ju Sik Cho	Environment	Sunchon National University	Korea	AK0427
PP02	PP02-040	Diamond2	June 12 (Tue.)	12:10-13:20	Case Study for Prevention of Road Environmental Disputes	Jugoang Lee	Environment	Korea Expressway Corporation Research Institute	Korea	IK0702
PP02	PP02-041	Diamond2	June 12 (Tue.)	12:10-13:20	Mechanistic understanding of biochar effect on nitrite accumulation and nitrous oxide emission in agricultural soil.	Jun Ge Hyun	Environment	Kyunghee University	Korea	AK0266
PP02	PP02-042	Diamond2	June 12 (Tue.)	12:10-13:20	Prediction of Cd toxicity to Daphnia magna in the mixture of multi-walled carbon nanotubes and kaolinite	Jun Yub Kim	Environment	Gwangju Institute of Science and Technology	Korea	AK0280
PP02	PP02-043	Diamond2	June 12 (Tue.)	12:10-13:20	A framework for system dynamics model for resilient hydrological systems: Based on diagnosis of aquatic ecosystem	Junga Lee	Environment	Konkuk University	Korea	AK0880
PP02	PP02-044	Diamond2	June 12 (Tue.)	12:10-13:20	A novel approach to recycle ammonium, phosphate and potassium from urine to slow-release fertilizer using garden-	Kangning Xu	Environment	Beijing Forestry University	China	AF0274
PP02	PP02-045	Diamond2	June 12 (Tue.)	12:10-13:20	A comprehensive analysis of storm water pollutants generation	Kangwoo Cho	Environment	Pohang University of Science and Technology	Korea	AK0094
PP02	PP02-046	Diamond2	June 12 (Tue.)	12:10-13:20	Measurements of energy, water and carbon Exchanges over an urban park with heterogeneous urban landscape in Seoul	Keunmin Lee	Environment	Yonsei University	Korea	AK0537
PP02	PP02-047	Diamond2	June 12 (Tue.)	12:10-13:20	Uptake of radioactive cesium from contaminated water by bioaccumulation of photo-induced microalgae	Keun-Young Lee	Environment	Korea Atomic Energy Research Institute	Korea	AK0677
PP02	PP02-048	Diamond2	June 12 (Tue.)	12:10-13:20	Alteration of hydrocarbon components in diesel contaminated soil during volatilization	Kihyeon Kim	Environment	Korea University	Korea	IK0832
PP02	PP02-049	Diamond2	June 12 (Tue.)	12:10-13:20	Multivariate analysis of microbial community structure in anaerobic process fed by fluctuated organic wastewater	Seong-Sik Kim	Environment	Kyungpook National University	Korea	AK0974
PP02	PP02-050	Diamond2	June 12 (Tue.)	12:10-13:20	Study on Remediation of Cr(VI)-Contaminated Soil with Polyvinylpyrrolidone-Stabilized Fe ₀ Nanoparticles	Kokyo Oh	Environment	Center for environmental Science in Saitama	Japan	AF0940
PP02	PP02-051	Diamond2	June 12 (Tue.)	12:10-13:20	Long-term Observation of Air Quality from Satellites over East Asia	Kwonho Lee	Environment	Gangneung-Wonju National University	Korea	AK0809
PP02	PP02-052	Diamond2	June 12 (Tue.)	12:10-13:20	Removal and Recovery of Copper and Nickel in Plating Wastewater by Electrodialysis	Kyung Jin Min	Environment	AinChemTech Co., Ltd.	Korea	AK0367
PP02	PP02-053	Diamond2	June 12 (Tue.)	12:10-13:20	Nutrient removal in secondary effluent from a wastewater treatment plant by filamentous algae	Kyung Jin Min	Environment	AinChemTech Co., Ltd.	Korea	AK0369
PP02	PP02-054	Diamond2	June 12 (Tue.)	12:10-13:20	Impact of climate change on water resources of Tehran	Masoumeh Moghbel	Environment	University of Tehran	Iran	AF0035
PP02	PP02-055	Diamond2	June 12 (Tue.)	12:10-13:20	Application of multi-functional polymer derived from waste materials for water security	Min Woo Kang	Environment	Yonsei University	Korea	AK0763
PP02	PP02-056	Diamond2	June 12 (Tue.)	12:10-13:20	Changes in bacterial population in pig slurry based on the storage periods	Min Woong Jung	Environment	National Institute of Animal Science, Rural Development Administration	Korea	AK0527
PP02	PP02-057	Diamond2	June 12 (Tue.)	12:10-13:20	Recycling of waste concrete as an aggregate resource by using the supercritical carbon dioxide treatment	Minhee Lee	Environment	Pukyong National University	Korea	AK0708
PP02	PP02-058	Diamond2	June 12 (Tue.)	12:10-13:20	Responses of planktonic micro-algae between eutrophic inshore and oligotrophic offshore waters in the East Sea, Korea	Minji Lee	Environment	Korea Institute of Ocean Science and Technology (KIOST)	Korea	AK0395
PP02	PP02-059	Diamond2	June 12 (Tue.)	12:10-13:20	Metaproteomic analysis of harmful algal bloom in Daechung lake	Minseo Jeon	Environment	Korea University	Korea	AK0607
PP02	PP02-060	Diamond2	June 12 (Tue.)	12:10-13:20	Removal of microcystin-LR by recyclable graphene bases aerogel: Inclusion of TiO ₂ nanoparticles to improve the	Mokrema Moztahida	Environment	Kyungpook National University	Korea	AF0450
PP02	PP02-061	Diamond2	June 12 (Tue.)	12:10-13:20	Photocatalytic degradation of carbamazepine with reduced graphene oxide-loaded-magnetite composite under solar light	Mokrema Moztahida	Environment	Kyungpook National University	Korea	AK0818
PP02	PP02-062	Diamond2	June 12 (Tue.)	12:10-13:20	Utilization of metal organic frameworks for efficient removal of phosphate	Monika Nehra	Environment	Guru Jambheshwar University of Science & Technology, Hisar	India	AF0553
PP02	PP02-063	Diamond2	June 12 (Tue.)	12:10-13:20	Conversion of plastic wastes to carbon-based electrode for salinity gradient power generation using reverse electrodialysis	Namjo Jeong	Environment	Korea Institute of Energy Research	Korea	AK0988

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**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-064	Diamond2	June 12 (Tue.)	12:10-13:20	Threatened status of the giant water bug, <i>Lethocerus indicus</i> (Hemiptera: Belostomatidae), in Thailand in association with	Nattawut Sareein	Environment	Korea University	Thailand	AK0534
PP02	PP02-065	Diamond2	June 12 (Tue.)	12:10-13:20	Effects of Nickel-containing Activated Carbon on Food Waste Anaerobic Digestion	Ning Wang	Environment	Peking University	China	AF0438
PP02	PP02-066	Diamond2	June 12 (Tue.)	12:10-13:20	Development of Survey System to build Big Data of Water Pipeline	Pilljae Kwak	Environment	Korea Institute of Civil Engineering and Building Technology	Korea	AK0203
PP02	PP02-067	Diamond2	June 12 (Tue.)	12:10-13:20	Nonmetric dimensional analysis of microbial community structure at each response surface of anaerobic acidogenic	Chang Hyun Jeon	Environment	Kyungpook National University	Korea	AK0973
PP02	PP02-068	Diamond2	June 12 (Tue.)	12:10-13:20	Genes for enzymes degrading poly-β-acetyl glucosamine in <i>Staphylococcus aureus</i> environmental biofilms	Ruhui Wen	Environment	University of Helsinki	Finland	AF0626
PP02	PP02-069	Diamond2	June 12 (Tue.)	12:10-13:20	Mechanism of nitrogen removal catalyzed by the ferrous of hemoglobin contained in slaughterhouse wastewater	RuMi Park	Environment	Chonbuk National University	Korea	AK0396
PP02	PP02-070	Diamond2	June 12 (Tue.)	12:10-13:20	Characterization of the Background Content of 3 metals(Ba, Mg and B) in Selected Groundwater Considering Geology in South	Sang-Ho Jeon	Environment	NIER	Korea	AK0465
PP02	PP02-071	Diamond2	June 12 (Tue.)	12:10-13:20	Estimation and evaluation of rainfall erosivity factor against climate change	Seo Jun Kim	Environment	Yonsei University	Korea	AK0790
PP02	PP02-072	Diamond2	June 12 (Tue.)	12:10-13:20	Development of androgen-sensing indicator Arabidopsis which synthesizes anthocyanin in response to DHT in leaves	Seongbin Hwang	Environment	Sejong University	Korea	AF0985
PP02	PP02-073	Diamond2	June 12 (Tue.)	12:10-13:20	Establish countermeasures against animals, plants and human bodies impact evaluation according to the fate of harmful	Seong-Gyu Kang	Environment	Daegu Haany University	Korea	AK0769
PP02	PP02-074	Diamond2	June 12 (Tue.)	12:10-13:20	Modeling of atmospheric and surface migration of harmful substances after chemical accidents	Seong-Gyu Kang	Environment	Daegu Haany University	Korea	AK0773
PP02	PP02-075	Diamond2	June 12 (Tue.)	12:10-13:20	Predictive modeling of human impacts on acute and chronic according to fatal chemical factors after chemical accident	Seong-Gyu Kang	Environment	Daegu Haany University	Korea	AK0774
PP02	PP02-076	Diamond2	June 12 (Tue.)	12:10-13:20	Technique management and establishment of safety standards for handling chemical substances to prevent chemical accidents	Seong-Gyu Kang	Environment	Daegu Haany University	Korea	AK0775
PP02	PP02-077	Diamond2	June 12 (Tue.)	12:10-13:20	Nitric oxide removal system with iron chelates	Seonjeong Cheon	Environment	KAIST	Korea	AK0762
PP02	PP02-078	Diamond2	June 12 (Tue.)	12:10-13:20	A simplified method to determine bioavailable As and Pb concentrations in aquatic and terrestrial systems with the	Seulki Jeong	Environment	Korea Basic Science Institute	Korea	AK0370
PP02	PP02-079	Diamond2	June 12 (Tue.)	12:10-13:20	Adsorption of Benzoic Acid on Cross-linked Chitosan Beads	Seung Jae Lee	Environment	Suncheon National University	Korea	AK0512
PP02	PP02-080	Diamond2	June 12 (Tue.)	12:10-13:20	Potential assessment of target alga <i>Chattonella marina</i> (Raphidophyceae) and non-target marine plankton to yellow	Seungho Baek	Environment	Korea Institute of Ocean Science and Technology (KIOST)	Korea	AK0307
PP02	PP02-081	Diamond2	June 12 (Tue.)	12:10-13:20	Assessment of change in biotic and abiotic factors after addition of algicide (the thiazolidinedione derivative TD49): a	Seungho Baek	Environment	Korea Institute of Ocean Science and Technology (KIOST)	Korea	AK0713
PP02	PP02-082	Diamond2	June 12 (Tue.)	12:10-13:20	The ammonia reduction of pig housing through liquid composter-slurry pit circulation	Seungsoo Kim	Environment	Kangwon National University	Korea	AK0835
PP02	PP02-083	Diamond2	June 12 (Tue.)	12:10-13:20	Phosphorus Loss in Paddy Wetland Soils	Shao-Xian Wang	Environment	Jiangxi Academy of Agricultural Sciences	China	AF0529
PP02	PP02-084	Diamond2	June 12 (Tue.)	12:10-13:20	Microbial mediated arsenic transformation in wetland sediments	So-Jeong Kim	Environment	Korea Institute of Geoscience and Mineral Resources	Korea	AK0954
PP02	PP02-085	Diamond2	June 12 (Tue.)	12:10-13:20	Phosphorus removal using adsorbents containing polyethylenimine from aqueous solution	Sok Kim	Environment	Korea University	Korea	AK0364
PP02	PP02-086	Diamond2	June 12 (Tue.)	12:10-13:20	Sorption-based removal of sulfonamide group antibiotics from livestock wastewater during mixotrophic microalgal growth	Sooyoung Sung	Environment	Chonbuk National University	Korea	AK0483
PP02	PP02-087	Diamond2	June 12 (Tue.)	12:10-13:20	Enhanced Removal of Recalcitrant Contamination in Diesel Contaminated Soil by Adding Pristane Degrading Bacteria	Suchan Park	Environment	Yonsei University	Korea	AK0908
PP02	PP02-088	Diamond2	June 12 (Tue.)	12:10-13:20	Co-Pyrolysis of Palm Kernel Shell with Sludge ? Effect on Bio-oil Yield and Properties	Suchithra Thangalazhy-Gopakumar	Environment	The University of Nottingham	Malaysia	AF0956
PP02	PP02-089	Diamond2	June 12 (Tue.)	12:10-13:20	Soil Washing and Bioaccessibility in Arsenic-Contaminated Soil	Sujin Min	Environment	Chonbuk National University	Korea	AK0317
PP02	PP02-090	Diamond2	June 12 (Tue.)	12:10-13:20	Long-term recovery of benthic macroinvertebrate communities in the Han River, Seoul, Korea after channelization in the 1980s	Sung Hwan Park	Environment	Korea University	Korea	AK0531

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-091	Diamond2	June 12 (Tue.)	12:10-13:20	Extraction of K and Cs from non-expandable Clay interlayers through artificial weathering and acid treatment	Sung Man Kim	Environment	Korea Atomic Energy Research Institute, KAERI	Korea	AK0771
PP02	PP02-092	Diamond2	June 12 (Tue.)	12:10-13:20	Assessing the Feasibility of Heterotrophic Denitrifying Processes for Reducing High-Strength Nitrate Flux Originated	Sunhwa Park	Environment	National Institute of Environmental Research	Korea	AK0110
PP02	PP02-093	Diamond2	June 12 (Tue.)	12:10-13:20	HEXAVALENT CHROMIUM REMOVAL FROM TANNERY INDUSTRIAL EFFLUENT USING SILVER NANOCOMPOSITE	Sunita Varjani	Environment	Gujarat Pollution Control Board	India	AF0989
PP02	PP02-094	Diamond2	June 12 (Tue.)	12:10-13:20	Decomposition analysis of the greenhouse gas emissions in Korea's Transportation sector	Suyi Kim	Environment	Hongik University	Korea	AK0846
PP02	PP02-095	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on the Smoke Generation Properties of Plastic Sheets used as a Transparent Noise Barrier	Taesun Chang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0405
PP02	PP02-096	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on the Evaluation of Bearing Capacity of a Noise Barrier Panel under Vertical Loads	Taesun Chang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0467
PP02	PP02-097	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on the Fire Propagation Characteristics in a Transparent Noise Barrier using the Fire Dynamics Simulator	Taesun Chang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0498
PP02	PP02-098	Diamond2	June 12 (Tue.)	12:10-13:20	Safeguarding Public interest of Chinese Oversea Investment in Myanmar: The evaluation of public participation in the EIA	Thiri Shwesin Aung	Environment	Peking University	Myanmar(Burma)	AF0321
PP02	PP02-099	Diamond2	June 12 (Tue.)	12:10-13:20	Use of hydrothermal carbonization for pathogen and microbially-derived DNA reduction with concomitant value-	Thomas Ducey	Environment	Agricultural Research Service, USDA	USA	AF0169
PP02	PP02-100	Diamond2	June 12 (Tue.)	12:10-13:20	Phosphorus recovery potential of tertiary treated wastewater sludge	Umair Ali Toor	Environment	Hallym University	Korea	AK0932
PP02	PP02-101	Diamond2	June 12 (Tue.)	12:10-13:20	Additive effects on the dissipation of herbicides in surface soil	Vilhelmiina Harju	Environment	University of Helsinki	Finland	AF0309
PP02	PP02-102	Diamond2	June 12 (Tue.)	12:10-13:20	The payment systems in municipal waste management in Slovakia	Viliam Berek	Environment	Slovak University of Agriculture in Nitra	Slovakia	AF0914
PP02	PP02-103	Diamond2	June 12 (Tue.)	12:10-13:20	Hydrometallurgical process for recovery of metals from two industrial sludge types	Viraj Gunarathne	Environment	National Institute for Fundamental Studies	Sri Lanka	AF0554
PP02	PP02-104	Diamond2	June 12 (Tue.)	12:10-13:20	Photo-catalytic degradation of volatile organic compounds via the hybrid structure of Ga2O3 nanorods and reduced graphene	Wansik Hwang	Environment	Korea Aerospace University	Korea	IK0970
PP02	PP02-105	Diamond2	June 12 (Tue.)	12:10-13:20	A simple method to prepare the g-C3N4/ TiO2 for photocatalytic degradation of formaldehyde in air under visible light	Wei-Xing Lin	Environment	National Cheng Kung University	Taiwan	AF0748
PP02	PP02-106	Diamond2	June 12 (Tue.)	12:10-13:20	Microwave-assisted synthesis of g-C3N4/ Bi2WO6/ GO for photocatalytic degradation of ibuprofen under visible light	Wen Ting Tang	Environment	National Cheng Kung University	Taiwan	AF0599
PP02	PP02-107	Diamond2	June 12 (Tue.)	12:10-13:20	Slow-release persulfate candle assisted electrochemical oxidation of PAHs in groundwater	Won Sik Shin	Environment	Kyungpook National University	Korea	AK0983
PP02	PP02-108	Diamond2	June 12 (Tue.)	12:10-13:20	Ballasted Flocculation using Lamellar Plates in Drinking Water Treatment	Won-Hee Lee	Environment	Hanyang University	Korea	AK0209
PP02	PP02-109	Diamond2	June 12 (Tue.)	12:10-13:20	Phosphate Adsorption using MIO (Magnetic Iron Oxide) for Sewage Leachate in Pilot Scale	Won-Hee Lee	Environment	Hanyang University	Korea	AK0213
PP02	PP02-110	Diamond2	June 12 (Tue.)	12:10-13:20	Effects of climate change scenario (RCP 4.5 and 8.5) on greenhouse gases emission from upland (Corn and Chinese	Wonjae Hwang	Environment	Korea University	Korea	AK0158
PP02	PP02-111	Diamond2	June 12 (Tue.)	12:10-13:20	Factors affecting the sustainability of common-pool resource system against globalization: the case of Jeju common ranch in	Wonjae Hwang	Environment	Korea University	Korea	AK0159
PP02	PP02-112	Diamond2	June 12 (Tue.)	12:10-13:20	Use of a pilot-scale hybrid constructed wetland for polishing secondary wastewater effluent	Woo-Hyuck Bang	Environment	Sejong University	Korea	AK0495
PP02	PP02-113	Diamond2	June 12 (Tue.)	12:10-13:20	Methane Potential from organic wastes in South Korea	Woong Kim	Environment	Kyungpook National University	Korea	AK0575
PP02	PP02-114	Diamond2	June 12 (Tue.)	12:10-13:20	A Design of Modified Horizontal Anaerobic Digester Treating Food Wastes and Its Process Interpretation	Woong Kim	Environment	Kyungpook National University	Korea	AK0576
PP02	PP02-115	Diamond2	June 12 (Tue.)	12:10-13:20	Effects of Genetic Variation and Soil Water Levels on Radial Oxygen Loss from Rice Roots and Cd Uptake by Rice Grains	Xiuqin Mei	Environment	Foshan University	China	AF0837
PP02	PP02-116	Diamond2	June 12 (Tue.)	12:10-13:20	Bioremediation of gasoline-contaminated soils and degradation preference of gasoline aromatics	Yan Sun	Environment	University of Helsinki	Finland	AF0350
PP02	PP02-117	Diamond2	June 12 (Tue.)	12:10-13:20	Hierarchical structure carbon from sugarcane bagasse by microwave- assisted KOH activation under N 2 and CO 2 gas	Yi-Hsin Tang	Environment	National Cheng Kung University	Taiwan	AF0684

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(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-118	Diamond2	June 12 (Tue.)	12:10-13:20	Contribution of reactive oxygen species to toxicity in atrazine-degrading bacteria and non-atrazine-degrading bacteria	Ying Zhang	Environment	Northeast Agricultural University	China	AF0699
PP02	PP02-119	Diamond2	June 12 (Tue.)	12:10-13:20	Metal wire-mesh/ Ag doped flower-like Bi2WO6 photocatalysts with enhanced activity for the wastewater treatment	Yi-Shao Chen	Environment	Feng Chia University	Taiwan	AF0548
PP02	PP02-120	Diamond2	June 12 (Tue.)	12:10-13:20	Optimization of the analytical method for volatile organic compounds using headspace-gas chromatography with mass	Yoon-Seo Lee	Environment	Hanyang university	Korea	AK0429
PP02	PP02-121	Diamond2	June 12 (Tue.)	12:10-13:20	Using Microbial Population Networking Identification of Bacterial Indicators for Safe Operation of Drinking Water Supply System	Yoorae Noh	Environment	Yonsei University	Korea	IK0777
PP02	PP02-122	Diamond2	June 12 (Tue.)	12:10-13:20	Investigation of the Organic Cultivation and Soil Properties of the Organic Culture Watermelon in Republic of Korea	Young Sang Kim	Environment	Chungcheongbuk-do Agriculture Research Extension Services	Korea	AK0109
PP02	PP02-123	Diamond2	June 12 (Tue.)	12:10-13:20	Analyzing Reliability of Local Governments' Greenhouse Gas Emission Data in Korea	Young-Kwon Park	Environment	University of Seoul	Korea	AK0980
PP02	PP02-124	Diamond2	June 12 (Tue.)	12:10-13:20	Antimony distribution and speciation in the unsaturated and saturated zone of an antimony-contaminated soil column	Young-Soo Han	Environment	Korea Institute of Geoscience and Mineral Resources	Korea	AK0953
PP02	PP02-125	Diamond2	June 12 (Tue.)	12:10-13:20	Effective Phosphorus removal from aqueous solution using chitosan/Ca organo-modified montmorillonite beads	Jiho Kim	Environment	Kyungpook National University	Korea	AK0129
PP02	PP02-126	Diamond2	June 12 (Tue.)	12:10-13:20	Magnetic rice straw-based biochar for adsorptive removal of mercuric ions from aqueous solution: optimization using	Young-Su Lim	Environment	Kyungpook National University	Korea	AK0160
PP02	PP02-127	Diamond2	June 12 (Tue.)	12:10-13:20	Changes in odorant concentration generated pig slurry based on the storage periods	Yu Na Jang	Environment	National Institute of Animal Science, Rural Development Administration	Korea	AK0521
PP02	PP02-128	Diamond2	June 12 (Tue.)	12:10-13:20	Concomitant redox reaction of chromium and manganese in soil	Jin Hee Park	Environment	Chungbuk National University	Korea	AK0945
PP02	PP02-129	Diamond2	June 12 (Tue.)	12:10-13:20	A Hydrodynamic Modeling Study to Analyze the Hydrological Impact by shared river regulation in the Euiam Lake, South	Hye Won Lee	Environment	Ewha Womans University	Korea	AK0404
PP02	PP02-130	Diamond2	June 12 (Tue.)	12:10-13:20	Study on the Transport Characteristics of Pollutants in Doam Lake	Hye Won Lee	Environment	Ewha Womans University	Korea	AK0406
PP02	PP02-131	Diamond2	June 12 (Tue.)	12:10-13:20	Study on the integrated modeling for pollutant movement analysis in Doam watershed	Hye Won Lee	Environment	Ewha Womans University	Korea	AK0408
PP02	PP02-132	Diamond2	June 12 (Tue.)	12:10-13:20	Performance of biochars for adsorption of low pressure gaseous benzene	Azmat Khan	Environment	Hanyang University	Korea	AF0162
PP02	PP02-133	Diamond2	June 12 (Tue.)	12:10-13:20	Compositional Modification of Pyrogenic Products Using CaCO3 and CO2 from the Thermolysis of Polyvinyl Chloride	Taewoo Lee	Environment	Sejong University	Korea	AK0922
PP02	PP02-134	Diamond2	June 12 (Tue.)	12:10-13:20	Analysis of PM Concentration Distribution in Long Tunnels	Hye Jin Kang	Environment	Korea Expressway Corporation Research Institute	Korea	AK0515
PP02	PP02-135	Diamond2	June 12 (Tue.)	12:10-13:20	Efficiency of tannin-chitosan composite hybrid bead for treatment of heavy metal ion from aqueous solution	Hee-Jeong Choi	Environment	Catholic Kwandong University	Korea	AK0262
PP02	PP02-136	Diamond2	June 12 (Tue.)	12:10-13:20	Dynamic response of biofilm to different current densities in a biofilm electrode reactor related to NOX removal	Yinfeng Xia	Environment	Zhejiang University of Water Resources and Electric Power	China	AF0078
PP02	PP02-137	Diamond2	June 12 (Tue.)	12:10-13:20	Preparation of TiO2 nanotube pillared graphene-based monoliths and its mechanisms for continuous removal of	Zheng Fang	Environment	Foshan University	China	AF0955
PP02	PP02-138	Diamond2	June 12 (Tue.)	12:10-13:20	Insights into adsorption capacity of various sorbents against benzene gas at subppm conditions	Chae-Jin Na	Material Technology	Hanyang University	Korea	AK0389
PP02	PP02-139	Diamond2	June 12 (Tue.)	12:10-13:20	Investigation of dynamic characteristics for fuel cell vehicle	Sangkeun Ahn	Material Technology	Hanyang University	Korea	AK0798
PP02	PP02-140	Diamond2	June 12 (Tue.)	12:10-13:20	Characterization of breakthrough properties for volatile organic compound gases against Tenax TA	Jae-Won Shin	Material Technology	Hanyang University	Korea	IK0394
PP02	PP02-141	Diamond2	June 12 (Tue.)	12:10-13:20	Fe3O4@rGO-poly-N-phenylglycine ternary nanocomposite for aqueous Cu(II) ion adsorption	Hyeong Jin Kim	Material Technology	Sejong University	Korea	AK0937
PP02	PP02-142	Diamond2	June 12 (Tue.)	12:10-13:20	A co-association network from a genome-wide association derived variants of sow reproductive traits	Jun-Mo Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Chung-Ang University	Korea	AK0724
PP02	PP02-143	Diamond2	June 12 (Tue.)	12:10-13:20	Anthropogenic Styrene Oligomers Leached from Polystyrene Plastic Polymer in the Aqueous Phase	Bum Gun Kwon	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Chosun College of Science and Technology	Korea	AK0141
PP02	PP02-144	Diamond2	June 12 (Tue.)	12:10-13:20	Application Strategy of equine manure compost for improving soil characteristics and forage production	Dong Jun Lee	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science(NIAS), RDA	Korea	AK0869

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**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-145	Diamond2	June 12 (Tue.)	12:10-13:20	Removal of Antiseptic Chlorhexidine in Activated Sludge: mechanism and microbial community structure	Donggeon Choi	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Kyung Hee University	Korea	AK0712
PP02	PP02-146	Diamond2	June 12 (Tue.)	12:10-13:20	Fate of tetracycline and sulfathiazole in water	Eun Hea Jho	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Hankuk University of Foreign Studies	Korea	AK0407
PP02	PP02-147	Diamond2	June 12 (Tue.)	12:10-13:20	Modulation of contaminant toxicity by particulate plastics in relation to microbial activity in biosolids amended soil	Hasintha Wijesekara	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	The University of Newcastle	Australia	AF0063
PP02	PP02-148	Diamond2	June 12 (Tue.)	12:10-13:20	Trends in the Occurrence of Perfluoroalkyl Substances in the Aquatic Systems of Northern Taiwan	Jheng-Jie Jiang	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Chung Yuan Christian University	Taiwan	AF0935
PP02	PP02-149	Diamond2	June 12 (Tue.)	12:10-13:20	Occurrence of emerging pollutants in aquatic environment	Jongmun Cha	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Dong-A University	Korea	AK0140
PP02	PP02-150	Diamond2	June 12 (Tue.)	12:10-13:20	Occurrence of emerging pollutants in agricultural environment	Jongmun Cha	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Dong-A University	Korea	AK0142
PP02	PP02-151	Diamond2	June 12 (Tue.)	12:10-13:20	Fate of emerging pollutants in lagoon waters	Jongmun Cha	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Dong-A University	Korea	AK0143
PP02	PP02-152	Diamond2	June 12 (Tue.)	12:10-13:20	Changes of nutrients, carbon sequestration and its profit analysis for biochar pellet application during rice cultivation	Joungdu Shin	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Agricultural Sciences	Korea	AK0120
PP02	PP02-153	Diamond2	June 12 (Tue.)	12:10-13:20	Adsorption Characteristics of Ammonium Nitrogen and Plant Responses to Biochar Pellet	Joungdu Shin	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Agricultural Sciences	Korea	AK0415
PP02	PP02-154	Diamond2	June 12 (Tue.)	12:10-13:20	Assessing the efficacy of portable harmonic radar system and fluorescent marking method for detecting insect pest, Riptortus	Jung-Wook Kho	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Gachon University	Korea	AK0853
PP02	PP02-155	Diamond2	June 12 (Tue.)	12:10-13:20	Developing process-based model by synthesizing ancillary information: NH3 emission, animal inventory, nutrient inputs,	ki-Yong Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science, Rural Development Administration	Korea	IK0666
PP02	PP02-156	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of biochar on nutrient dynamics and gaseous emissions during swine manure in-vessel composting	Ravindran Balasubramani	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Kyonggi university	Korea	AF0834
PP02	PP02-157	Diamond2	June 12 (Tue.)	12:10-13:20	Comparison of inactivation effect of H9N2 in poultry manure and EMCV in pig manure during composting period	Kwang-Hwa Jeong	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science, Rural Development Administration	Korea	AK0665
PP02	PP02-158	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluating the efficiency of methane generation through semi-dry anaerobic digestion in organic matter loading rate	Kwang-Hwa Jeong	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science, RDA	Korea	AK0770
PP02	PP02-159	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluating emission reduction of ammonia, methane, nitrous oxide from the application of swine manure based liquid	Kwang-Hwa Jeong	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science, Rural Development Administration	Korea	AK0868
PP02	PP02-160	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of storage temperature on methane emission from cow manure	Min-Gyun Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Inha University	Korea	AF0602
PP02	PP02-161	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluating Quality of Different Types of Poultry Manure Use for Coconut (Cocos nucifera L.) Cultivations in Sri Lanka	Pavani Dissanayake	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Coconut Research Institute of Sri Lanka	Sri Lanka	AF0464
PP02	PP02-162	Diamond2	June 12 (Tue.)	12:10-13:20	Soil Fertility Status of Non-traditionally Coconut Growing Soils in Sri Lanka	Pavani Dissanayake	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Coconut Research Institute of Sri Lanka	Sri Lanka	AF0674
PP02	PP02-163	Diamond2	June 12 (Tue.)	12:10-13:20	Vulnerability assessment of livestock on exposure to heat condition	Seung Hak Yang	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	National Institute of Animal Science	Korea	AK0788
PP02	PP02-164	Diamond2	June 12 (Tue.)	12:10-13:20	CH ₄ and H ₂ by reducing PET waste water using the electrochemical method	Taeoh Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Kumoh National Institute of Technology	Korea	AK0720
PP02	PP02-165	Diamond2	June 12 (Tue.)	12:10-13:20	high efficiency reduction of CO ₂ and alkaline electrolyte in electrochemical system at low applied voltage	Taeoh Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Kumoh National Institute of Technology	Korea	AK0721
PP02	PP02-166	Diamond2	June 12 (Tue.)	12:10-13:20	Advanced treatment of biologically treated coking wastewater by persulfate oxidation with activated carbon as a catalyst	Tsz Yau Mak	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Technological and Higher Education Institute of Hong Kong	Hong Kong	AF0625
PP02	PP02-167	Diamond2	June 12 (Tue.)	12:10-13:20	Occurrence, sources and ecotoxicological risks of polychlorinated biphenyls (PCBs) in sediment cores from urban,	Wei Wang	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Beijing Normal University	China	AF0807
PP02	PP02-168	Diamond2	June 12 (Tue.)	12:10-13:20	Acute toxicities of hydrogen peroxide, phenol, HCl, and ammonium hydroxide against Eisenia fetida	Yong-Chan Kim	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Kyungpook National University	Korea	IK0781
PP02	PP02-169	Diamond2	June 12 (Tue.)	12:10-13:20	Identifying livestock medicinal materials, pesticides, and artificial sweeteners in groundwater in an agricultural area,	Chung-Mo Lee	Special Symposium-Best Management Strategy for Environmental Management of	Pusan National University	Korea	AK0180
PP02	PP02-170	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of carbon and nitrogen mobilization from livestock mortalities on nitrogen dynamics in soil	Geonha Kim	Special Symposium-Best Management Strategy for Environmental Management of	Hannam University	Korea	AF0119
PP02	PP02-171	Diamond2	June 12 (Tue.)	12:10-13:20	Proposal for Carcass Recycle Center to Improve Agricultural Environment	Geonha Kim	Special Symposium-Best Management Strategy for Environmental Management of	Hannam University	Korea	IF0080

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-172	Diamond2	June 12 (Tue.)	12:10-13:20	Hazardous Management in Carcasses Burial Sites	Geonha Kim	Special Symposium-Best Management Strategy for Environmental Management of	Hannam University	Korea	IF0118
PP02	PP02-173	Diamond2	June 12 (Tue.)	12:10-13:20	Discriminant analysis as a decision making tool for evaluating the impact of leachate from carcass burial sites on groundwater	Ho-Rim Kim	Special Symposium-Best Management Strategy for Environmental Management of	Korea University	Korea	AK0378
PP02	PP02-174	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluation of contaminant migration from a carcass burial site: a case study using MODFLOW/MT3DMS	Hyangsig Ahn	Special Symposium-Best Management Strategy for Environmental Management of	Korea University	Korea	AK0269
PP02	PP02-175	Diamond2	June 12 (Tue.)	12:10-13:20	Performance modeling of hydraulic barriers at carcass burial site	Hyangsig Ahn	Special Symposium-Best Management Strategy for Environmental Management of	Korea University	Korea	AK0271
PP02	PP02-176	Diamond2	June 12 (Tue.)	12:10-13:20	Effects of different initial conditions on the degradation efficiency and microbial community in simulated lysimeters for	Jae-Min Choi	Special Symposium-Best Management Strategy for Environmental Management of	The University of Suwon	Korea	AK0583
PP02	PP02-177	Diamond2	June 12 (Tue.)	12:10-13:20	Hydrogeochemical and microbiological characteristics of a contaminated groundwater plume around a swine carcass	Jeong-Ho Lee	Special Symposium-Best Management Strategy for Environmental Management of	Department of Earth and Environmental Sciences, Korea University	Korea	AK0387
PP02	PP02-178	Diamond2	June 12 (Tue.)	12:10-13:20	Groundwater chemistry: A case study of groundwater in Korea	Jong Yeon Hwang	Special Symposium-Best Management Strategy for Environmental Management of	National Institute of Environmental Research (NIER)	Korea	AK0124
PP02	PP02-179	Diamond2	June 12 (Tue.)	12:10-13:20	Remediation of Soil from Animal Carcass Disposal Sites Using Herbaceous Plants and Biochar	Jung-Hwan Yoon	Special Symposium-Best Management Strategy for Environmental Management of	University of Seoul	Korea	IK0557
PP02	PP02-180	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluation of groundwater quality impacts by leachate from poultry burial: the use of multivariate statistical interpretation of	Junseop Oh	Special Symposium-Best Management Strategy for Environmental Management of	Korea University	Korea	AK0379
PP02	PP02-181	Diamond2	June 12 (Tue.)	12:10-13:20	Social Impacts of Carcass Burial in Korea; Focusing on the Gap between Stakeholders	Kongjang Cho	Special Symposium-Best Management Strategy for Environmental Management of	Korea Environmental Institute	Korea	AK0506
PP02	PP02-182	Diamond2	June 12 (Tue.)	12:10-13:20	Environmental Risks and Mitigation Strategies for Emergency Animal Carcass Management	Lori Miller	Special Symposium-Best Management Strategy for Environmental Management of	United States Department of Agriculture, Animal and Plant Health Inspection Service	USA	IF0092
PP02	PP02-183	Diamond2	June 12 (Tue.)	12:10-13:20	Establishing policy issues to wards sustainable management of carcass disposal area in South Korea	Sang-Il Hwang	Special Symposium-Best Management Strategy for Environmental Management of	Korea Environment Institute	Korea	AK0556
PP02	PP02-184	Diamond2	June 12 (Tue.)	12:10-13:20	Improved biodiesel production from wet microalgal biomass by removing inhibitory organics	Sol Yang	Special Symposium-Best Management Strategy for Environmental Management of	Chonbuk national university	Korea	AK0481
PP02	PP02-185	Diamond2	June 12 (Tue.)	12:10-13:20	Evaluation of Specific Gene Tracking Method to Monitor Carcass Leachate	Sunhwa Park	Special Symposium-Best Management Strategy for Environmental Management of	National Institute of Environmental Research	Korea	AK0144
PP02	PP02-186	Diamond2	June 12 (Tue.)	12:10-13:20	Potential human health effects associated with carcass disposal after animal disease outbreak	Yunjung Yang	Special Symposium-Best Management Strategy for Environmental Management of	Catholic Kwandong University International St. Mary's Hospital	Korea	AK0190
PP02	PP02-187	Diamond2	June 12 (Tue.)	12:10-13:20	DYNAMICS OF CARBON STOCKS IN BIOSOLID AMENDED SOIL: A GLOBAL META ANALYSIS	Hasintha Wijesekara	Special Symposium-Biosolids Land Application Risk Assessment - Evaluation	The University of Newcastle	Australia	AF0736
PP02	PP02-188	Diamond2	June 12 (Tue.)	12:10-13:20	Short- and Long-Term Composted Biosolids Land Applications Affect Grassland Soils and Plants	Jim Ippolito	Special Symposium-Biosolids Land Application Risk Assessment - Evaluation	Colorado State University	USA	AF0636
PP02	PP02-189	Diamond2	June 12 (Tue.)	12:10-13:20	Microbial community degradation of chloroxyleneol disinfectant: degradation kinetics and community phylogenetic structure	Donggeon Choi	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Kyung Hee University	Korea	AK0668
PP02	PP02-190	Diamond2	June 12 (Tue.)	12:10-13:20	Mercury Recovery for Hg Waste by Thermal Process	Eunsong Lee	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	IK0400
PP02	PP02-191	Diamond2	June 12 (Tue.)	12:10-13:20	Integration of thermochemical and biological approaches for efficient biomethanation of organic wastes	Gang Luo	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Fudan University	China	AF0085
PP02	PP02-192	Diamond2	June 12 (Tue.)	12:10-13:20	Pyrolysis Characteristics for Efficient Recycling of Sewage Sludge in Korea	Gun-Ho Han	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei university	Korea	AK0320
PP02	PP02-193	Diamond2	June 12 (Tue.)	12:10-13:20	A study on the pyrolysis oil gasification process for a high quality syngas	Jae Gyu Hwang	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0239
PP02	PP02-194	Diamond2	June 12 (Tue.)	12:10-13:20	The removal of arsenic in water by metal oxide-embedded alginate beads	Joowan Lim	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0732
PP02	PP02-195	Diamond2	June 12 (Tue.)	12:10-13:20	Optimization of Ba loading on BaCo/CeO ₂ catalyst for high temperature water-gas shift reaction using waste derived	Kyoung-Jin Kim	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0709
PP02	PP02-196	Diamond2	June 12 (Tue.)	12:10-13:20	High quality syngas produced by direct pyrolysis of wet sewage sludge with sawdust in a moving bed reactor	Li Yang	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Nanjing Tech University	China	AF0359
PP02	PP02-197	Diamond2	June 12 (Tue.)	12:10-13:20	Process Analysis of Biomass Fast Pyrolysis Using Multistep Reaction Mechanism	Myung Kyu Choi	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0323
PP02	PP02-198	Diamond2	June 12 (Tue.)	12:10-13:20	Recycling of Bottom Ash Generated from Incineration of Solid Refuse Fuel Residue by Manufacturing Bricks	Sang Yeop Lee	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0029

**BEEM 2018 PROGRAM
(POSTER PRESENTATION)**

Code1	Code2	Session Room	Date	Time	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PP02	PP02-199	Diamond2	June 12 (Tue.)	12:10-13:20	Fluctuations in full-scale anaerobic digesters treating food waste at marginal organic loading rates: a case study	Seung Gu Shin	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Gyeongnam National University of Science and Technology	Korea	AK0764
PP02	PP02-200	Diamond2	June 12 (Tue.)	12:10-13:20	A Study on Characteristics of Biomass Gasification and Tar Emission with Oxygen Enrichment	Se-Won Park	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0235
PP02	PP02-201	Diamond2	June 12 (Tue.)	12:10-13:20	Syngas Yield and Agglomeration Reduction Affected by Removal of Alkali & Alkaline Earth Metallic and Ash in	Se-Won Park	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0242
PP02	PP02-202	Diamond2	June 12 (Tue.)	12:10-13:20	The effects of pH and temperature on the acetate production and microbial community compositions by syngas fermentation	Wen Wang	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Beijing University of Chemical Technology	China	AF0525
PP02	PP02-203	Diamond2	June 12 (Tue.)	12:10-13:20	Gasification Characteristics of Coffee Residue in a Downdraft Fixed Bed Reactor	Yean-Ouk Jeong	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Yonsei University	Korea	AK0259
PP02	PP02-204	Diamond2	June 12 (Tue.)	12:10-13:20	Effect of Feeding Rate on the yield and characteristics of coffee ground bio-crude oil in a tilted slide type pyrolyzer	YeonSeok Choi	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Korea Institute of Machinery & Materials	Korea	AK0098
PP02	PP02-205	Diamond2	June 12 (Tue.)	12:10-13:20	Simulation of fast pyrolysis of coffee ground in a tilted-slide reactor	Yong Su Kwon	Special Symposium-Thermochemical and Biological Conversions of Wastes on	University of Science and Technology	Korea	AK0285
PP02	PP02-206	Diamond2	June 12 (Tue.)	12:10-13:20	Catalytic pyrolysis of waste polyethylene terephthalate over CaO assisted HY catalyst	Young-Min Kim	Special Symposium-Thermochemical and Biological Conversions of Wastes on	Hallym University	Korea	AK0850
PP02	PP02-207	Diamond2	June 12 (Tue.)	12:10-13:20	Cell flocculation enhances industrial robustness of <i>Zymomonas mobilis</i> for lignocellulosic ethanol production	Young Jae Jeon	Energy	Pukyong National University	Korea	AK0758