



YES 2018

Yellow Sea Ecosystem Symposium

The 4th Korea-China Symposium on Environmental Health and Ecological Safety

DATE

July 18-21, 2018

VENUE

Hoam Faculty House in Seoul Natl. Univ.
Seoul, Republic of Korea

HOST



SPONSORS



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SECRETARY Myung Gyun Na (d.ocean.seoul@gmail.com)

JULY 18-21, 2018
SEOUL, KOREA

HOAM FACULTY HOUSE
SEOUL NATL. UNIV.

Keynote

9:30~10:30

Magnolia Hall

From macro- to microplastic pollution: A paradigm shift

Won Joon Shim
(KIOST)

Trawling ban drives the recovery of benthic ecosystem and associated fisheries resources in the marine environment of Hong Kong

Kenneth M. Y. Leung
(U of HK)

Hall A : Magnolia

Part 1 Chemistry 10:40~12:10

C1	Visualized Networking of Co-regulated Lipids in Human Blood Based on High-Throughput Screening Data	Yi Wan (PKU)
C2	Occurrence, mass flux, and risk ranking of emerging and traditional pollutants in municipal wastewater treatment plants	Yunqiao Zhou (CAS)
C3	Organic carbon transfer across the river-sea interfaces in two contrasting Geum and Sumjin river systems in South Korea	Sujin Kang (HYU)
C4	Understanding impact of aquaculture on estuarine and coastal ecosystems in China: A paleoecotoxicology approach	Edmond Sanganyado (STU)
C5	Tracing perfluoroalkyl substances (PFASs) in China based on life cycle analysis	Jing Meng (CAS)
C6	Distribution Characteristics of Toxic Microcystins Following a Discharge in Geum River Estuary, Korea	Dokyun Kim (HYU)

Part 2 Toxicology 13:30~15:00

T1	Dynamic interplay between microbial denitrification and antibiotic resistance under enhanced anoxic denitrification condition in soil	Yuanhao Zhao (CAS)
T2	How Physicists approach a problem of biotoxicity	Gap Soo Chang (UofS)
T3	Dynamic interplay between microbial denitrification and antibiotic resistance under enhanced anoxic denitrification condition in soil	Mao Ye (NJU)
T4	Phthalate pollution in plastic greenhouse agriculture and its human exposure in China	Biao Huang (CAS)
T5	Omics advances in Ecotoxicology	Xiaowei Zhang (NJU)
T6	Potential Influence of PBDEs indicates Cytokines Response Modulation: A Novel Approach on Fibroblast Cell Line	Yajing Sun (STU)

Part 3 Policy 15:30~17:00

P1	China's farmland soil pollution: status, remediation and management	Wenyou Hu (CAS)
P2	Ecotourism system planning for community resilience on the Yellow Sea	Yun Eui Choi (KU)
P3	Seasonal and interannual variations of colored dissolved organic matter (CDOM) in coastal waters of the eastern Yellow Sea	Seunghyun Son (NOAA)
P4	The selection of suitable sites for coastal green infrastructure for enhancing resilience to nuisance flooding	Min Kim (KU)
P5	Establishing new Landscape on Transboundary Cooperation Mechanism for Sustainable Yellow Sea Marine Ecosystems	Jungho Nam (KMI)
P6	An application of network analysis on social-ecological system for sustainable ecotourism destination	Daeyoung Jeong (KU)

Hall B: Camellia

Part 1 Ecology 10:40~12:10

E1	Monitoring and Analysis on Agro-ecological Environment in Typical Regions of the Three Gorges Reservoir area, China	Li Ma (CAS)
E2	Chemical-specific benthic community responses and integrated sediment quality assessment in coastal areas of the Bohai Sea and the northern Yellow Sea	Jinsoon Park (KMOU)
E3	Structural and functional responses of leaf-associated microbial communities to anthropogenic pollutants in rivers	Feilong Li (NJU)
E4	Distribution of macrobenthos communities in areas dominated by <i>Ruditapes philippinarum</i> on the west coast of Korea	Sang Lyeol Kim (KMOU)
E5	Environmental DNA metabarcoding reveals fish biodiversity in Lake Tai, China	Gao Xu (NJU)
E6	Architecting DPSIR framework for managing impact on marine environment and ecosystem in Saemangeum Coastal Waters, Korea	Semi Jeong (KMI)

Part 2 Ecology 13:30~15:00

E7	Identifying key drivers of the magnitude and trend of Cyanobacteria blooms in Tai Lake	Yan Zhang (NJU)
E8	Analysis of the Social-Ecological Trade-off System for the Resilient Ecosystem Services in Coastal Area: Focusing on the Han-River Estuary	Kihwan Song (KU)
E9	Fibroblast cell an estimation model to evaluate the impact of marine pollutants on dolphin reproduction	Ying Huang (STU)
E10	Landing and transport of floating plastic debris from major rivers around Korea: A Lagrangian particle model	Young-Gyu Park (KIOST)
E11	DNA Metabarcoding of Zooplankton in Freshwater Ecosystem Improve the Ecological Assessment of Environmental Quality	Jianghua Yang (NJU)

Hall C : Water lily

Part 1 BlueCarbon [special session] 10:40~12:10

B1	Forty years long changes in coastal land use and ecosystem services in the Yellow Sea	Bong-Oh Kwon (SNU)
B2	Seeing the Yellow Sea tidal flats from an Anthropocene perspective	Young Rae Choi (FIU)
B3	Study on the National Greenhouse Gas Removal by Blue Carbon -In The Western Coast of the South Korea	Jong Seok Song (KOEM)
B4	Seagrass blue carbon estimation in the coastal waters of Korea	Seung Hyeon Kim (PNU)
B5	The grass is greener on the other side – Effects of invasive plants on CH4 emission in coastal wetlands	Hojeong Kang (YU)
B6	Carbon storage in estuarine tidal flat and salt marsh of the west and south coasts of Korea	Junsung Noh (SNU)

Part 2 Estuary [special session] 13:30~15:00

S1	An integrated approach to facilitate the conflicts on the Keum River Estuary Restoration Project	Chang-Hee Lee (MJU)
S2	Toward a DPSIR-based Scenario Analysis	Daehwan Kim (KU)
S3	Assessment of ecosystem integrity status in the Keum River estuary	Sang Jun Park (MMU)
S4	Designing Decision-support System for Facilitating Stakeholder Dialogue on Geun Rever Estuarine Management	Young Ho Shin (MJU)
S5	Designing an optimized estuarine monitoring system	Nam-Hoon Kim (SNU)
S6	Changes in estuarine sediment flux mechanisms during the transition from the Holocene to the Anthropocene	Steven Figueroa (IU)

Part 3 Estuary [special session] 15:30~15:00

S7	Weekly variations of phytoplankton community outside Saemankeum area, located west coast of Korea	Jae Seong Kim (WEB)
S8	Application of satellite remote sensing in monitoring dissolved oxygen variabilities: A case study for Saemangeum coast and Geum River estuary, South Korea	Yong Hoon Kim (WCU)
S9	A case study for Saemangeum coast and Geum River estuary, South Korea	Young Sik Kim (KNU)
S10	State of Water Quality and Scenario Projection in the Geum River Estuary	Jeagab Cho (Geo)
S11	Estimation of pollution loads to the Geum-River Estuary for precipitation conditions using a semi-distributed watershed model STREAM	Eui-sang Jeong (Hydro)

Poster Session

Po-1	Dioxin-like and endocrine disrupting potencies of fractions of sediment determined by use of microalgae and cell-based assays	Junghyun Lee (SNU)
Po-2	Effective bioremediation techniques of oil contaminated sediments for the PAHs degrading bacterial community: An outdoor mesocosm experiment	Changkeun Lee (SNU)
Po-3	Convergence cluster for human and environmental safety research of microplastics	Yunwi Heo (KIT)
Po-4	PAHs-bioremediation potential of indigenous halophilic/halotolerant bacteria from tidal flats	Yeonjae Yoo (KU)
Po-5	Desorption and solubilization of anthracene by a rhamnolipid biosurfactant from Rhodococcus fascians	Dong Wan Lee (KU)
Po-6	Bacterial community structures and their predicted functions on PAHs degradation in Sinduri sediments, Korea	Hanbyul Lee (KU)
Po-7	Landscape planning for improving coastal ecosystem service : Focused on Seaside Park on Yeongjong Island	Heeyoung Roh (KU)
Po-8	Response of phytoplankton community to seasonal variation of tidal mixing front in the eastern Yellow Sea from numerical simulation	Jae-Sung Choi (KNU)
Po-9	Variations in sediment resuspension and water quality controlled by hydrodynamics in a micro-tidal estuary	Jun Young Seo (IU)
Po-10	Isotopic determination of dietary sources for marine invertebrate in tidal flats of West Coast, Korea	Seo Joon Yoon (SNU)
Po-11	Comparison of microphytobenthic primary productivity between vegetated and unvegetated tidal flat	Hosang Kim (SNU)
Po-12	Influence of temperature on reproduction, and growth of the brown shrimp, Crangon hakodatei (Caridea, Crangonidae) in the East Sea of Korea	In Ok Lee (SNU)
Po-13	Reducing Cd As Concentration in Grains Cultivated in Contaminated Paddy Soil Using Combined Rice Variety Screening, Water Management, and Stabilizer Application	Xiulan Yan (CAS)
Po-14	Spectral characteristics and prediction of soil moisture in coastal saline soil with a controlled salt gradient	Xiaoguang Zhang (QAU)
Po-15	Study on different microorganism compound combinations on high efficient decomposition effect of spent mushroom compost	Zhikun Chen (IBSP)
Po-16	Soil nitrate transfer characteristics and environmental risk of typical greenhouse vegetable production in north west China	Zhikun Chen (IBSP)
Po-17	Risk assessment of heavy metals in rapidly urbanized area of Zhongshan City, China	Bo He (CAS)
Po-18	Impacts of different industries on the distribution of heavy metals in Zhongshan City, China	Hui Zhao (CAS)
Po-19	Identification of Oxygen Source for the Photo-Oxidation of Spilled Oils using Water-18O and Ultrahigh Resolution Mass Spectrometry	Donghwi Kim (KNU)
Po-20	Effect-directed analysis for identification of major AhR and ER agonists in sediments of Ulsan Bay, Korea	Jaeseong Kim (CNU)
Po-21	Distributions and characteristics of polycyclic aromatic hydrocarbons, styrene oligomers, and alkylphenols in sediments of Ulsan Bay, Korea	Yoon Young An (CNU)
Po-22	Development of rare earth elements and neodymium isotope analysis of organic materials in sediments	Hyeongseok Song (CNU)
Po-23	Stabilization Performance on Arsenic Contaminated Soils of a Novel Starch-modified Fe-Mn Binary Oxide Colloid	Yang Fei (CAS)
Po-24	Coastal Landscape Planning for Improving Resilience using System Dynamics: Focused on Shinduri, Korea	Soojin You (KU)



July 18 REGISTRATION & WELCOME DINNER

July 19 CONFERENCE DAY

09:00 – 09:15	Opening	Opening Remarks Welcoming Address Congratulatory Address
09:15 – 09:30	Group Photo & Break	
09:30 – 10:00	Keynote Speech 1	Dr. Won Joon Shim Director General, South Sea Research Institute, KIOST
10:00 – 10:30	Keynote Speech 2	Dr. Kenneth Mei Yee Leung Professor, University of Hong Kong
10:30 – 10:40	Break	
10:40 – 12:10	Session Part 1	
12:10 – 13:30	Lunch	
13:30 – 15:00	Session Part 2	
15:00 – 15:30	Break & Poster Session	
15:30 – 17:00	Session Part 3	
17:00 – 17:15	Break & Poster Session	
17:15 – 17:30	Closing	Award Ceremony Closing Remarks
18:00 – 19:30	Dinner	

July 20 FIELD TRIP (GangHwa Island)

July 21 MEETING & FAREWELL LUNCH

SYMPOSIUM VENUE

Hoam Faculty House

Address 239-1 Nakseongdae-dong, Gwanak-gu, Seoul, Korea

Tel +82-2-871-4053 | Fax +82-2-871-4056

Website <http://www.hoam.ac.kr/eng/>

REGISTRATION FEE

Registration fees include the expense of symposium and field trip. The transporter fees, accommodation fees and other fees will be paid by participants themselves.

Regular 400,000 KRW / Student 350,000 KRW