# 19<sup>Th</sup> International Symposium on Persistent Toxic Substances and Health



# Detailed Programme

September 28th – October 1st

#### **Symposium Venue:**

Korea University – Hana Square

145 Anam-ro, Anam-dong, Seongbuk-gu, Seoul, Republic of Korea, 02841

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#### **Registration Desk is Open:**

Sunday afternoon (Sep 28): 15:00-18:00

Monday and Tuesday (Sep 29, 30): 08:00-12:00, 13:30-18:00

Wednesday (Oct 1): 08:00-13:00

(last update: September 22, 2025)

# **PROGRAM AT A GLANCE**

	13:00-18:00	Registra	ation	(KOREA UNIVERSITY - HANA	SQUARE)			
Sep 28	17:10-17:50	Plo	enar	y Speech 1 (Prof. Paul J. Van den chair: Prof. Jung-Hwan Kwon	Brink)			
(Sun)	18:00-19:30	Opening reception						
	Venue	Auditori	ium (	KOREA UNIVERSITY - HANA S	QUARE)			
	09:00-09:15			ng ceremony (chair: Prof. Jung-Hwa Dong-One Kim (President of KU), Pro				
	09:15-09:20			Group Photo				
	09:20-10:40	Plenary session 1 (chair: Prof. Tae-Young Kim)		enary Speech 2 (Prof. Xiang-Dong enary Speech 3 (Prof. Youn-Joo An)	Li)			
	10:40-11:00			Coffee Break				
Sep	Venue	Room B119		Room B120	Auditorium			
29 (Mon)	11:00-12:40	Session 1 (Eco)toxicity of PTS 1		Session 2 Fate of PTS in the environment	Session 3 Micro- and nanoplastics 1			
	12:40-14:00		Lun		Agilent Luncheon Session			
	14:00-16:00	Session 4 (Eco)toxicity of PTS 2		Session 5 Emerging PTS 1	Session 6 Micro- and nanoplastics 2			
	16:00-16:20	=		Coffee Break				
	16:20-18:00	Session 7 Bioaccumulation/biotransformation PTS	on of	Session 8 Emerging PTS 2	Session 9 Micro- and nanoplastics 3			
	18:00-19:00			Dinner				
	Venue Auditorium (KOREA UNIVERSITY - HANA SQUARE)							
		Plenary session 2		enary Speech 4 (Prof. Richard D. Ha				
	09:20-11:40	(chair: Prof. Jeong-Fun Oh)		enary Speech 5 (Dr. Nobuyoshi Yamashita) enary Speech 6 (Prof. Hyo-Bang Moon) sponsored by Agilent				
Son	11:40-13:00	Lu	Hall)					
Sep 30	Venue	Room B119		Room B120	Auditorium			
(Tue)	13:00-14:40	Session 10 Environmental monitoring of PTS 1		Session 11 Risk assessment of PTS 1	Session 12 Heavy metals and nanoparticles 1			
	14:40-16:00			Coffee Break & Poster social				
	16:00-17:50	Session 13 Environmental monitoring of PT	S 2	Session 14 Risk assessment of PTS 2	Session 15 Heavy metals and nanoparticles 1			
	18:00-20:00	(	ise)					
	Venue	Room B119		Room B120	Auditorium			
	9:20-11:00	Session 16 Decontamination of PTS		Session 17 Modeling and Machine learning in environmental sciences	Session 18 Analytical innovation for PTS			
	Venue	Auditori	ium (	KOREA UNIVERSITY - HANA S	QUARE)			
Oct 1	11:00-11:40	(chair: Prof. M	inghu	ui Zheng) Plenary Speech 7 (Prof. Pe	eter J. Vikesland)			
(Wed)	11:40-12:20	Cl	Yo St	g ceremony (chair: Prof. Yongseok H oung scientist awards oudents' awards (oral + poster) (confe troduction to ISPTS 2026 (Prof. Giul	erence organizers)			
	12:20-13:30			Lunch				
0-4-0	13:30-18:00			Group Discussion				
Oct 2 (Thu)	09:00-16:30			Facility Tour				

#### PLENARY SPEECH

- 1. Sunday (Sep 28), 17:10-17:50, Hana Square
- **Dr. Paul J. Van den Brink**, Personal professor at the Aquatic Ecology and Water Quality Management Group of Wageningen University (Netherlands)
- Title: What makes chemicals persistent in terms of their aquatic ecotoxicity?
- **Biosketch:** Paul J. Van den Brink is a personal professor at the Aquatic Ecology and Water Quality Management Group of Wageningen University and chairs the Chemical Stress Ecology subgroup comprising 17 PhD students, a Postdoc, several MSc students and himself. He supervises and
  - executes international projects assessing the ecological effects of contaminants, such as pesticides and pharmaceuticals, often in a multiple-stressor context that includes their interaction with climate change, drought, nutrients, and salinisation. Other research topics include the development of effect models (e.g., individual-based, metapopulation models, ecoinformatics, expert-based AI models), trait-based methods, and tropical ecotoxicology. Since 1995, Paul van den Brink has published over 300 ISI-listed papers (h-index = 68; Scopus). He is also a past president of SETAC (Society of Environmental Toxicology and Chemistry; www.setac.org) World and Europe, and a SETAC Fellow. Currently, he is a member of the Panel on Plant Protection Products and their Residues (PPR) of the European Food Safety Authority (EFSA).



• **Abstract:** During this talk, I will explain the aspects of the insecticide imidacloprid and the industrial chemical PFOS that make them persistent from an aquatic ecotoxicity perspective. Although imidacloprid is broken down by photolysis, it exerts high chronic toxicity. This is because its toxic metabolite, imidacloprid-olefin, is hardly eliminated by some aquatic arthropod species, most probably due to an irreversible binding to the receptor. This means that no incipient toxicity will be reached, resulting in cumulative effects over time. On the other hand, PFOS, one of the chemicals belonging to the industrial PFAS chemical group, show a relatively fast elimination rate for two aquatic arthropod species but is very persistent in the aquatic environment. Therefore, exposure to PFOS will be long-term and not align with the current guidelines on aquatic chronic toxicity testing. During this presentation, I will explain these mechanisms of long-term toxicity using examples from different levels of biological organisation (individual – communities).

- 2. Monday (Sep 29), 09:20-10:00, Hana Square
- **Dr. Xiang-Dong Li**, Chair Professor of Environmental Science and Technology at the Department of Civil & Environmental Engineering, Hong Kong Polytechnic University (China)
- **Title:** Beyond Mass Metrics: Advancing PM2.5 Research Toward Source-Specific Control in a Climate-Health Nexus
- **Biosketch:** Professor Xiang-dong Li is Chair Professor of Environmental Science and Technology at Department of Civil & Environmental Engineering, The Hong Kong Polytechnic University. Professor Li is a distinguished scholar in environmental science and sustainable urban development. In 2022, he received the prestigious Clair C. Patterson Award (Innovative Breakthrough in Environmental Biogeochemistry in the last decade) from the Geochemical Society for his pioneering research in regional contamination, urban air PM2.5 pollution, and the origin and dissemination of antimicrobial resistance



• **Abstract:** Fine particulate matter (PM<sub>2.5</sub>) pollution remains a critical global public health threat, contributing to millions of premature deaths annually, particularly in low- and middle-income regions such as Asia and Africa. Despite decades of progress in reducing PM<sub>2.5</sub> mass concentrations through emission controls, the disproportionate decline in health burdens challenges the efficacy of continued efforts under the traditional mass concentration-based governance framework. This issue is further complicated by the difficulty in implementing the revised annual PM<sub>2.5</sub> guideline of 5 µg/m³ recommended by the World Health Organization (WHO). The inadequate returns in health benefits and the short-term unattainable guidelines underscore the urgent priority in research and policy towards toxicity-driven solutions in the context of global climate change.

- 3. Monday (Sep 29), 10:00-10:30, Hana Square
  - Dr. Youn-Joo An, Professor of Environmental Science at Konkuk University, Seoul (Korea)
  - Title: Microplastics in Terrestrial and Aquatic Ecosystems: An Ecotoxicological Perspective"
  - Biosketch: Dr. Youn-Joo An is a Professor of Environmental Science at Konkuk University, Seoul. She received her Ph.D. in Environmental Engineering from Texas A&M University. Her research focuses on the ecological effects of emerging pollutants, including microplastics, using multi-bioassay approaches. She has served as Dean of the Sanghuh College of Life Sciences and as President of the Korean Society of Environmental Toxicology and Health. Dr. An is an Editor for the Journal of Hazardous Materials and a recipient of the Doosan Yonkang Environmental Academic Award.



• Abstract: Microplastics are now recognized as pervasive contaminants in both terrestrial and aquatic ecosystems, with increasing evidence pointing to their complex and potentially harmful ecological effects. Their interactions with organisms are influenced not only by intrinsic properties such as size, shape, and polymer type, but also by extrinsic factors including soil and water chemistry, biological community structure, and local environmental conditions. This study provides an integrative ecotoxicological analysis of microplastic impacts, focusing on differential exposure pathways, uptake mechanisms, and organismal responses across ecosystem types. Observed effects range from oxidative stress and immune dysfunction to altered feeding behavior and reproduction, with implications at both individual and population levels. By drawing on data from both laboratory-based bioassays and in situ field assessments, this study identifies key processes that mediate toxicity and highlights the challenges of extrapolating findings across species and habitats. These insights call for the development of more nuanced assessment tools and cross-system monitoring strategies to better understand and mitigate the ecological risks posed by microplastics in a changing environment.

#### 4. Tuesday (Sep 30), 09:20-10:00, Hana Square

- **Dr. Richard D. Handy**, Professor of Ecotoxicology at the School of Biological and Marine Sciences, University of Plymouth (UK)
- **Title:** The Bioaccumulation of Engineered Nanomaterials in Aquatic Organisms: Persistence, Bioavailability, Uptake Mechanisms and a Tiered Approach to

Testing

• Biosketch: Professor Richard D. Handy is an ecotoxicologist with 35 years of experience and has published over 200 scientific articles on the toxicology/pathology of chemicals, especially metals and nanomaterials/particulates; but also other substances and on the safety of nanomaterials for human health. He recently led a scoping review on the bioaccumulation testing strategy for nanomaterials at the OECD. He is an editor of several scientific journals on

ecotoxicity, and has acted as an expert witness for government departments and commercial clients.

**Abstract:** The bioaccumulation potential of engineered nanomaterials (ENMs) to aquatic organisms is poorly understood, especially the effects of aged or persistent nanomaterials. This presentation aims to describe the mechanisms of bioaccumulation of nanomaterials, and the effort at the OECD towards a tiered approach to rationalize bioaccumulation testing. The persistence and bioavailability in the gut lumen depends on the physico-chemical properties of the materials, the composition of the gut lumen fluids (ionic strength, pH, organic matter, etc.,) and the location and specificity of the transport pathways in the gut epithelium. In vivo studies with Ag NPs and Ag<sub>2</sub>S NPs show the bioavailability of ENMs in trout is a few percent of the dose, similar to dissolved metals. The target organs for nanomaterials include the gastrointestinal tract and the liver, with enterohepatic recirculation likely protecting the other internal organs, although most organs show some accumulation, and with limited clearance. The organ pathologies from these types of exposures include hyperplasia in the liver, changes in muscle fibres, and altered macrophage activity in the kidney. A tiered approach to the bioaccumulation testing of ENMs has been proposed that considers animal welfare; including in silico modelling, read across from earthworm bioaccumulation tests, an in chemico digestibility assay to assess bioavailable fractions and exvivo measurements on gut sacs of fish. Data on particle dissolution and settling rates in physiological saline are suggested as triggers in the first tier of the testing strategy. Tier 2 involves new data generation using in silico models developed during the NanoFase EU project, and read across from bioaccumulation studies in earthworms. In tier 3, the in chemico digestibility assay showed that the bioaccessible fractions in the gut are only a few percent of the dose for ENMs so far. Ex-vitro gut sacs from rainbow trout show that uptake can occur into the gut tissue and these findings correlate with in vivo dietary studies on TiO2 and Ag-containing ENMs in trout. A metaanalysis with other nanomaterials has enabled an OECD publication on the approach, with the next steps being to seek 'regulatory acceptance' of the approach, with inter-laboratory testing.

#### 5. Tuesday (Sep 30), 10:10-10:50, Hana Square

- **Dr. Nobuyoshi Yamashita**, Chief Senior Research Scientist at the Research Institute for Environmental Management, National Institute of Advanced Industrial Science and Technology (AIST) (Japan)
- Title: PFAS total as Asian standard and policy making role of CAR-PFAS Japan
- Scientist at the Research Institute for Environmental Management, National Institute of Advanced Industrial Science and Technology (AIST), Japan. He joined the National Institute for Resources and Environment, Agency for Industrial Science and Technology (current AIST) in 1992, has been involved in the development of new technologies and their applications to hazardous chemicals in the environmental analytical chemistry field. Has supervised various test and researches on international quality control to improve the reliability of analytical chemistry technologies both Japan and overseas, as well as being various standardizing committee member



and TC147/SC2/WG56 convener (2005-2015). Also contributed to the councils of chemical substance management policy such as the member of "New POPs Review Committee" in relation to the Stockholm Convention. ISO (International Organization of Standard) National Award in the Ministry of Economy, Trade and Industry, Japan (2015). Currently, he is responsible to organize the Consortium for analysis and remediation of per- and poly-fluoroalkyl substances (CAR-PFAS Japan) as president position. (https://www.campuscreate.com/pfas-office/)

• Abstract: AFFF incident occurred in Okinawa in April 2020, and PFAS problem was re-ignited after ten year's sleep in Japan. Currently monitoring surveys of only a few PFAS in ground water and drinking water are undergoing but both government and social action are very slow. From point of view to define the issue by PFAS experts, including academia, industry, government agreed to establish the Consortium for analysis and remediation of per- and poly-fluoroalkyl substances (CAR-PFAS Japan) in June 2021. More than 80-member body and 134 experts were joined until March 2025 and the consortium has been renewed to Technology Transfer Organization 2.0 (TLO2.0) in April 2025. Now CAR-PFAS is open for foreign countries and anybody in the world. In this talk, brief history of CAR-PFAS Japan and currently issue of PFAS problem in Japan and the world were overviewed

#### 6. Tuesday (Sep 30), 11:00-11:40, Hana Square

- Dr. Hyo-Bang Moon, Professor in the Department of Marine Science and Convergence Engineering at Hanyang University, Korea
- Title: Expanding the Frontier of PFAS: Neutral Precursors Revealed by GC-Q/TOF Analysis
- Biosketch: Dr. Hyo-Bang Moon is a Professor in the Department of Marine Science and Convergence Engineering at Hanyang University, Korea. His research focuses on persistent organic pollutants (POPs), endocrine disrupting chemicals (EDCs), and emerging contaminants, and he has published over 270 peer-reviewed papers on environmental pollution, fate, biomonitoring, and human exposure. He has advanced analytical methods with an emphasis on non-target screening, led national and polar monitoring projects, and contributed to ecological and human risk assessments. Dr. Moon served on the POP Review Committee under the Stockholm Convention (2020–2024) and is currently an Associate Editor of Ecotoxicology and Environmental Safety and others.



Abstract: Neutral per- and polyfluoroalkyl substances (nPFAS) are understudied but environmentally relevant precursors that link industrial sources to environmental sinks. Here, we established a comprehensive GC-based workflow integrating target, suspect, and non-target screening to characterize nPFAS in air, sediment, and industrial wastewater collected near fluorochemical-related facilities. Using high-resolution instrumentation and a refined dataprocessing approach, we characterized a broad spectrum of nPFAS and additional fluorinated substances. Matrix-dependent profiles revealed emission sources and transformation behaviors during wastewater treatment, while retention index filtering and spectral matching improved confidence in compound identification. This study demonstrates that workflows based on GC-MS/MS and GC-Q/TOF provide a robust analytical basis for uncovering hidden PFAS emissions and will be essential for advancing environmental monitoring and management strategies beyond conventional targets. By coupling industrial emission profiles with GC-based analytical workflows, our findings highlight the necessity of integrating precursor identification into regulatory monitoring frameworks. Ultimately, this work illustrates how technological advances can bridge knowledge gaps in PFAS contamination and inform effective environmental management.

#### 7. Wednesday (Oct 1st), 11:00-11:40, Hana Sqaure

- **Dr. Peter J. Vikesland**, Pryor Professor of Engineering in the Department of Civil and Environmental Engineering at Virginia Tech (USA)
- **Title:** The Role of Wastewater Treatment in the Environmental Dissemination of Antibiotic Resistance
- **Biosketch**: Dr. Peter J. Vikesland is the Pryor Professor of Engineering in the Department of Civil and Environmental Engineering at Virginia Tech. He received his B.A. in Chemistry from Grinnell College in 1993 and M.S. and Ph.D. degrees in Civil and Environmental Engineering from the University of Iowa in 1995 and 1998. Dr. Vikesland's research focuses on antibiotic resistance in the environment and the development of nanobiotechnology enabled sensors for detection of environmental contaminants. His group is



currently focused on spectroscopic approaches for detection of air- and water-borne bacteria and viruses. He is a past President of the Association of Environmental Engineering and Science Professors (AEESP), is a U.S. National Science Foundation CAREER awardee, the recipient of the 2018 Walter Weber Research Innovation Award from AEESP, and is the Editor-in-Chief of *Environmental Science: Nano*.

• Abstract: Over the past twenty years it has been shown that antibiotic resistance is readily spread through the environment. Antibiotic resistant bacteria (ARB) and antibiotic resistance genes (ARGs) are ubiquitous in air, water, and soil. Numerous studies have shown how anthropogenic activities contribute to their global spread. In this presentation, I will describe an extensive series of studies we have done to use bionanotechnology enabled approaches to quantify the global drivers of resistance dissemination. A particular focus will be on discussing the role of wastewater treatment as a critical node for potentially controlling dissemination. The presentation will conclude with consideration of local and international policy implications of these results.

# **THEMED SESSIONS**

\*student presentation

#### Session 1 (Eco)toxicity of PTS 1

Day and Location: Monday (Sep 29), Room B119
Session Chairs: Guangbo Qu & Bingsheng Zhou

Time	Presenter	Affiliation	Title
11:00-11:20	Yang Song (Keynote)	Research Center for Eco- Environmental Sciences, CAS	The harmful outcomes and molecular mechanisms of exposure to fine particulate matter
11:20-11:40	Guofang Xu	Zhejiang University	Integrative Solutions for the Detoxification of Co- existing Chlorinated Solvents
11:40-11:55	Jian Han	Institute of Hydrobiology, CAS	Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate promotes NASH progression through disrupting endoplasmic reticulum-mitochondria contacts
11:55-12:10	Jia Ye*	Anhui Agricultural University	Insights into a novel mechanism of enantioselective transformation of thioconazole fungicides: Power of trio from three new methyltransferases
12:10-12:25	Lin Peng*	Hong Kong Baptist University	Fluorinated Liquid Crystal Monomer (FLCM) Induces Kidney Dysfunction by Disrupting PPARα-mediated Fatty Acid Oxidation: In vivo, in vitro, and in silico assays
12:25-12:40	Bin Wang*	Nanjing University	Mechanism underlying responses of multilevel aquatic organisms to antibiotics in freshwater microsystem: The uniformity and specificity

#### Session 2 Fate of PTS in the environment

Day and Location: Monday (Sep 29), Room B120
 Session Chairs: Tae-Young Kim & Xiang-Dong Li

Time	Presenter	Affiliation	Title
11:00-11:20	Jianmin Chen (Keynote)	Fudan University	Gaseous C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub> spatiotemporal distribution revealed via CI-Orbitrap in the atmosphere
11:20-11:35	Gopi Narayanan	Shantou University	Effect of Hydrophobicity of Amine-Functionalized Nanoplastics on Antibiotic Accumulation and Toxicity in Microalgae, and the Mitigating Effects of Natural Organic Matter
11:35-11:50	Meng Liu	Zhejiang University	Chlorinated Organic Pollution Status and Isolation of Anaerobic Organochlorine-degrading Bacteria
11:50-12:05	Xueling Yang	Zhejiang University	Effects of microbial diversity on paddy soil multifunctionality under lindane stress
12:05-12:20	Lei Zou*	Huazhong Agricultural University	From Plasticizers to Pollutants: The Ecological Consequences of PAEs in Agricultural Soils

#### Session 3 Micro- and nanoplastics 1

Day and Location: Monday (Sep 29), Auditorium
Session Chairs: Rong Ji & Peter J. Vikesland

Time	Presenter	Affiliation	Title
11:00-11:20	Jung-Hwan Kwon (keynote)	Korea University	Suspended solids as a proxy for microplastics in river water samples
11:20-11:40	Min Zhan	Korea University	Biochar alleviates adverse effects of polystyrene microplastics on anaerobic digestion performance of food waste and antibiotic resistance gene propagation
11:40-11:55	Dan Xia	Beihang University	Release and Transformation of Chlorinated Paraffins during Thermal Treatment of Waste Plastics
11:55-12:10	Wenwen Song*	Southeast University	Mechanical aging process and mechanism of nanoplastics in the beach environments
12:10-12:25	Mengting Li*	Nanjing University	Effects of Various Natural Organic Matter on the Photochemical Behavior and Fate of Polystyrene nanoplastics

#### Session 4 (Eco)toxicity of PTS 2

Day and Location: Monday (Sep 29), Room B119
Session Chairs: Chunyang Liao & Hailin Wang

Time	Presenter	Affiliation	Title
14:00-14:20	Guangbo Qu (Keynote)	Research Center for Eco- Environmental Sciences, CAS	Pulmonary effect of 2D MXenes in mice: Immune cell responses and disrupted hematopoiesis
14:20-14:40	Ming Gao	Research Center for Eco- Environmental Sciences, CAS	Molecular Mechanisms of Environmental Pollutant- Induced Suppression of Host Innate Immunity Against Pathogens
14:40-15:00	Xiaoxi Yang	Research Center for Eco- Environmental Sciences, CAS	The Development and Application of Multi-Target Toxicity Screening Methods
15:00-15:15	Dana Fahad M.S. Mohamed*	Korea University	Oxidative Stress as a Mechanistic Indicator of Plasticizer Toxicity: Quantitative Biofilm Imaging on ATBC-Infused PVC
15:15-15:30	Linping Wang	Zhejiang University	Methylparaben Exposure Accelerates Pubertal Onset Through Activation of Hypothalamic Neuroendocrine Cells

#### **Session 5 Emerging PTS 1**

Day and Location: Monday (Sep 29), Room B120
 Session Chairs: Haiyan Zhang & Philippe Corvini

Time	Presenter	Affiliation	Title
14:00-14:20	Jay Gan (Keynote)	Zhejiang University	Tire Additives in Soils along Highways in Southern California
14:20-14:40	Qingzhe Zhang	Shandong University	Solar-light-driven PAFS removal from wastewater by Z-scheme heterojunctions
14:40-14:55	Hyunwoo Kim*	University of Seoul	Quantitative Adverse Outcome Pathway for Identifying Safer Physicochemical Properties in Per- and Polyfluoroalkyl Substances-Induced Developmental Neurotoxicity Using Bayesian Network Modeling
14:55-15:10	Jiyong Jeong*	University of Seoul	Genotoxicity and carcinogenicity screening of PFAS in consumer products using Al-based toxicity prediction models
15:10-15:25	Bingyu Shen*	Nanjing University	Bisphenol S Degrading Communities Enriched from Different Habitats: The Critical Role of the Genus Devosia
15:25-15:40	Yasar Arafath Sharfudeen	Pusan National University	Tracking Methamphetamine and Amphetamine Consumption Patterns in South Korea via Enantiometric Analysis of Wastewater

#### **Session 6 Micro- and nanoplastics 2**

Day and Location: Monday (Sep 29), Auditorium
Session Chairs: Giulio Zanaroli & Ai-Jun Miao

Time	Presenter	Affiliation	Title
14:00-14:20	Huong Mai (Keynote)	University of Science and Technology of Hanoi	Microplastic pollution and its interaction with benthic-fauna and biogeochemical factors in aquatic ecosystems
14:20-14:40	Li Xu	Beijing Academy of Agriculture and Forestry Sciences	The pollution characteristics and ecological effects of microplastics in facility agriculture
14:40-15:00	Wenfeng Wang	Northeast Institute of Geography and Agroecology, UCAS	Impacts of Microplastics on Biogeochemical Processes and Functioning of Soil Ecosystem
15:00-15:15	Ke Meng	Nanjing University	Exploring the Potential of Earthworms to Accelerate the Degradation of Biodegradable Plastics in Soils
15:15-15:30	Sanghyun Lee*	Korea University	Assessment of microplastic pollution from rubber flooring and sand-bed surfaces in urban playgrounds: Implications for child exposure
15:30-15:45	Jun Zhang*	Nanjing University	Extracellular Distribution of 14C-Labeled Nanoplastics and Oligomers in Bean Sprouts Causes High Release during Simulated Human Digestion

#### **Session 7 Bioaccumulation/biotransformation of PTS**

• Day and Location: Monday (Sep 29), Room B119

• Session Chairs: Jianmin Chen & Nobuyoshi Yamashita

Time	Presenter	Affiliation	Title
16:20-16:40	Qiaoyun Huang (Keynote)	Huazhong Agricultural University	Immobilization and modelling of heavy metals at soil interfaces
16:40-17:00	Yonghong Bi	Institute of Hydrobiology, CAS	SII1725 reveals as an ABC transporter in Synechocystis sp. PCC 6803 for the detoxification of cadmium ion stress
17:00-17:20	Deming Han	Hangzhou Institute for Advanced Study, Univ. CAS	Application of stable isotopes in revealing the tropic transfer, dietray source of mercury in the food web in Bohai Sea, China
17:20-17:35	Nihong Yao*	Huazhong Agricultural University	Degradation Characteristics and Bioremediation Potential of Methylaniline by Rhodococcus pyridinivorans YY802
17:35-17:50	Wenhui Zhang	Nanjing University	Study on the Molecular Biotransformation Mechanism of Bisphenol S in Bacterial Enrichment Based on DNA-SIP Coupled with Metagenomics

#### **Session 8 Emerging PTS 2**

Day and Location: Monday (Sep 29), Room B120
Session Chairs: Jung-Hwan Kwon & Min Zhan

Time	Presenter	Affiliation	Title
16:20-16:40	Philippe Corvini (Keynote)	The University of Applied Sciences and Arts Northwestern Switzerland	Microbial assemblies for pharmaceuticals biodegradation in Membrane Biofilm Reactors
16:40-17:00	Kimberly Etombi Muambo	Pusan National University	Pharmaceuticals in raw and treated water across 70 drinking water treatment plants: Insights into their sources and exposure risk assessment
17:00-17:15	Anh T. Ngoc Do	National Institute of Environmental Studies	Assessing the Sorption Properties of Per- and Polyfluoroalkyl Substances (PFASs) Using Soil Column Chromatography
17:15-17:30	Aiswarya Radhakrishnan*	Hanyang University	Placental transfer of per- and poly-fluorinated alkyl substance in Weddell seals (Leptonychotes weddellii) from Antarctica
17:30-17:45	Gaeul Yang*	University of Seoul	Integrating Toxicity Data from Refulatory to New Approach Methodologies (NAMs) to Evaluate Liver Toxicity of PFAS

#### **Session 9 Micro- and nanoplastics 3**

• Day and Location: Monday (Sep 29), Auditorium

• Session Chairs: Huong Mai & Xueyuan Gu

Time	Presenter	Affiliation	Title
16:20-16:40	Giulio Zanaroli (Keynote)	University of Bologna, Italy	Biodegradability of bioplastics at the sea bottom
16:40-17:00	Guotao Peng	Tongji University	Distinct Effects between Polystyrene Micro- and Nanoplastics: Exacerbation of Adverse Outcomes in Inflammatory Bowel Disease-like Zebrafish and Mice
17:00-17:15	Thanh–Dat Pham	Korea University	A TOC-Based Proxy for Estimating Total Microplastic Burden in Soils by Land Use
17:15-17:30	Shi Yao	Anhui Agricultural University	Soil DOM Impacts the Formation of the Eco- corona and Adsorption Processes on Microplastic Surfaces
17:30-17:45	Yadar Tadar*	Korea University	Biodegradable and Conventional Plastics in Urban Streams: Microbial Community Shifts and Isolate-Driven Transformation
17:45-18:00	Chenqi Yang*	Southeast University	Investigation of Novel Detection Methods and Formation Mechanisms for Melamine Microplastic Fibers Released from Cleaning Sponges

### **Session 10 Environmental monitoring of PTS 1**

• Day and Location: Tuesday (Sep 30), Room B119

• Session Chairs: Seunghee Han & Wei Wang

Time	Presenter	Affiliation	Title
13:00-13:20	Runzeng Liu (keynote)	Shandong University	Unveiling High Levels of Photoinitiators as Emerging Contaminants in Multiple Matrices
13:20-13:40	Bing Du	National Research Center for Environmental Analysis and Measurement	Occurrence and Fate of Emerging Pollutants in Chemical Industrial Parks
13:40-14:00	Linjun Qin	Hangzhou Institute for Advanced Study, Univ. CAS	Persistent Free Radicals in Dust Storm Particles
14:00-14:20	Rong Jin	Hangzhou Institute for Advanced Study, UCAS	Non-target analysis of Emerging Pollutants from Typical Industrial Processes and Establishment of a Priority List
14:20-14:35	Minghao Sun*	Capital Medical University	Organophosphate Esters and Their Metabolites in Pre-Cooked Packaged Foods: Occurrence and Exposure Assessment

#### Session 11 Risk assessment of PTS 1

• Day and Location: Tuesday (Sep 30), Room B120

• Session Chairs: Dan Xu & Zongwei Cai

Time	Presenter	Affiliation	Title
13:00-13:20	Chunyang Liao (Keynote)	Research Center for Eco- Environmental Sciences, CAS	Associations between Exposure to Endocrine Disrupting Chemicals and Spontaneous Abortion
13:20-13:40	Jing Liu	Zhejiang University	Pesticide Exposure and Female Reproductive Health
13:40-14:00	Li Mu	Ministry of Agriculture and Rural Affairs	Agricultural Environmental Risks and Effects of Microplastics Pollution
14:00-14:20	Dan Xu	Dalian Maritime University	Multi-organ Toxicity and Disease Risk Association Analysis of Emerging Pollutant PFOS and its Substitute OBS
14:20-14:35	Thomas J. McGrath	Seoul National University	Suspect Screening of Environmental Chemical Exposures in Korean Adults using HRMS Urinary Profiling
14:35-14:50	Chaein Chong*	University of Seoul	Prioritizing Leachable Plastic Additives as Emerging Endocrine Disruptors: In Silico Molecular Docking and In Vivo C. elegans Combined Approach

# Session 12 Heavy metals and nanoparticles 1

• Day and Location: Tuesday (Sep 30), Auditorium

Session Chairs: Yong Cai & Yang Song

Time	Presenter	Affiliation	Title
13:00-13:20	Ai-Jun Miao (Keynote)	Nanjing University	Effects of gut microbiota on the toxicity of nanoparticles
13:20-13:40	Yanbin Li Ocean University o		Primary productivity can enhance atmospheric mercury accumulation in marine sediments
13:40-14:00	Lihong Liu	Research Center for Eco-Environmental Sciences, CAS	Comprehensive chracterization of lead in biological samples reveals respiration as a direct exposure way
14:00-14:15	Yonghui Xing Huazhong Agricultural University		Bacterial activation level determines Cd(II) immobilization efficiency by calcium-phosphate minerals in soil
14:15-14:30	Yi Jiang*	Huazhong Agricultural University	Microbial Synergistic Interactions Shape the Heavy Metal Speciation Preferences Between Paddy and Upland Soils

#### **Session 13 Environmental monitoring of PTS 2**

• Day and Location: Tuesday (Sep 30), Room B119

• Session Chairs: Jeong-Eun Oh & Runzeng Liu

Time	Presenter	Affiliation	Title
16:00-16:20	Seunghee Han (Keynote)	GIST	The air-sea exchange of mercury: reduction mechanisms and evasion flux in the Arctic Ocean.
16:20-16:40	Haiyan Zhang	Hangzhou Institute for Advanced Study, Univ. CAS	Photoinitiators in water from a light industrial area in China: Occurrence, phototransformation, risk assessment
16:40-17:00	Jianjie Fu	Research Center for Eco- Environmental Sciences, CAS	First Investigation into Occurrence, Trophodynamics Mechanism, and Risk Implication of Polychlorinated Naphthalenes and Polychlorinated Biphenyls in a Terrestrial Food Chain from Tibetan Plateau
17:00-17:20	Xiaona Shang	Shanghai Institute of Technology	Identification and Characterization of Persistent Organic Pollutants in Atmospheric Particulate Matter
17:20-17:35	Dongju Han*	Hanyang University	Spatial and temporal trends of PBDEs in sediment and bivalves along the Korean coasts during 2013-2024
17:35-17:50	Ji-Hyeon Lee*	Hanyang University	Occurrence, time trends, and human exposure of legacy and alternative plasticizers in indoor dust from Korean homes during 2011-2021

#### Session 14 Risk assessment of PTS 2

• Day and Location: Tuesday (Sep 30), Room B120

• Session Chairs: Jay Gan & Pil-Gon Kim

Time	Presenter	Affiliation	Title
16:00-16:20	Hailin Wang (Keynote)	Research Center for Eco- Environmental Sciences, CAS	Environmental pollution and Epigenetics
16:20-16:40	Qingqing Zhu	Research Center for Eco-Environmental Sciences, CAS	Human Exposure to Plasticizers Through Drinking Tea: A Nationwide Study
16:40-16:55	Yubing Ma*	Zhejiang University	Prenatal Insecticide Exposure and Adverse Birth Outcomes: Mediated by Amino Acid and Acylcarnitine Alterations
16:55-17:10	Xinyan Lu*	Nanjing University	Agent-Enabled Nontarget Analysis Reveals Widespread Distribution and Latent Risks of Emerging Organic Pollutants in Airborne Particulate Matter
17:10-17:25	Yanting Xiao*	Nanjing University	A framework for assessing the health effects of oligomers based on virtual screening of the human surface proteome: a case study of PLA

#### Session 15 Heavy metals and nanoparticles 2

• Day and Location: Tuesday (Sep 30), Auditorium

• Session Chairs: Jing Liu & Huan Zhong

Time	Presenter	Affiliation	Title
16:00-16:20	Yong Cai (Keynote)	Florida International University	Mercury reduction in aquatic environments: Photochemical, dark abiotic, and microbial processes
16:20-16:40	Huan Zhong	Nanjing University	Mercury transformation in nature: Progress and future direction
16:40-17:00	Guorui Liu	Zhejiang Normal University	Rare earth element-containing nanoparticles from multiple industrial emissions
17:00-17:15	Xin-Lei Wang	Nanjing University	Study on the Effects of Nano- and Micron-Sized Particles on Biological Metabolism and Gut Microbiota Composition
17:15-17:30	Fang Ma*	Huazhong Agricultural University	Phylogenetic distance drives rare cooperation in a competition-dominated cadmium stress environment

#### **Session 16 Decontamination of PTS**

• Day and Location: Wednesday (Oct 1), Room B119

• Session Chairs: Ming Gao & Yongseok Hong

Time	Presenter	Affiliation	Title
9:20-9:40	Yan He (Keynote)	Zhejiang University	Integrated Assessment and Microbial Bioremediation of Chlorinated Organic Pollutants in Soils: From National Scale Pollution Patterns to One Health Solutions
9:40-10:00	Bingcheng Lin	Hangzhou Institute for Advanced Study	Free radical-mediated formation and inhibition mechanisms of POPs during industrial thermal process
10:00-10:20	Lili Yang	Research Center for Eco- Environmental Sciences, CAS	Formation mechanisms of persistent organic pollutants intermediated by organic free radicals
10:20-10:35	Jiacheng Wang*	Nanjing University	Construction of highly effective sulfamethoxazole- degrading consortium for bioaugmentation of artificial floating island
10:35-10:50	Shanshan Xu*	Nanjing University	Enhanced Removal of Organic Contaminants: Performance and Mechanism of Biological Magnetic Ion Exchange Resin

#### Session 17 Modeling and Machine learning in environmental sciences

• Day and Location: Wednesday (Oct 1), Room B120

Moderator: Yan He & Chunguang Liu

Time	Presenter	Affiliation	Title
9:20-9:40	Xueyuan Gu (Keynote)	Nanjing University	Geochemical Modeling of Arsenic Partition in Soil Mineral/Water Phases
9:40-10:00	Wei Wang	Zhejiang University	Predicting Acute Toxicity of Organic Compounds Using Graph Neural Networks
10:00-10:20	Yongseok Hong	Korea University	Determining Soil Remediation Methods for Phthalate Contamination in a Watershed Using SWAT and LCA
10:20-10:40	Chunguang Liu	Nankai University	Exploring the impact of microplastics on terrestrial plants based on machine learning
10:40-10:55	Fang Li	Beijing Academy of Agriculture and Forestry Sciences	Development of a Machine Learning Method for Environmental Microplastics Identification

#### **Session 18 Analytical innovation for PTS**

• Day and Location: Wednesday (Oct 1), Auditorium

• Moderator: Qiaoyun Huang & Hyo-Bang Moon

Time	Presenter	Affiliation	Title
9:20-9:40	Zongwei Cai (Keynote)	Hong Kong Baptist University	Ion mobility mass spectrometry imaging for breast tumor investigation with TCS exposure
9:40-10:00	Xianbo Lu	Dalian Institute of Chemical Physics, CAS	Electrochemical sensing identification and rapid detection of environmental pollutants
10:00-10:20	Pil-Gon Kim	Mokpo National University	Determination of personal exposure to volatile organic compounds and their health risks after the use of mosquito repellents in residential environments
10:20-10:40	Qiang Zhao	Research Center for Eco- Environmental Sciences, CAS	Aptamer based Fluorescence Sensors for Chloramphenicol
10:40-10:55	Mangong Shin*	Hanyang University	Automated workflow for non-target screening and source-specific chemical fingerprinting in sediments from industrialized coastal regions

# **Agilent Luncheon Session**

Day and Location: Monday (Sep 29), Auditorium
Session Chairs: Sarah Lee

Time	Presenter	Affiliation	Title
11:40-12:10	Na-Young, Choi	Agilent LCMS Application Engineer	Comprehensive PFAS Workflow for Cosmetic Analysis with Agilent LC/MS
12:10-12:40	Huiyong Lian	Agilent Marketing Program Manager	Comprehensive Solution for microplastic analysis with Agilent diverse techniques

# **Posters**

# Hana Square

No.	Presenter	Affiliation	Title
1	Futian Ren*	Nanjing University	Which pollutants should be prioritized for control in multi- pollutants complex contaminated groundwater of chemical industrial parks?
2	Syed Wasim Sardar	Korea Institute of Science and Technology	Evaluating human and ecological risks of neonicotinoids in honey and pollen: A probabilistic approach
3	Cheng Sun	Nanjing University	The source apportionment and health risk assessment for PAHs and their derivatives in indoor dust of a megacity in China
4	Qian Sun	Institute of Urban Environment, CAS	A high-efficiency nanofiltration osmotic pump - coupled solid phase extraction sampler for in situ sampling and enrichment of pharmaceuticals and personal care products in wastewater
5	Dong Wan	Institute of Hydrobiology, CAS	Photodegradation mechanism of organic contaminants mediated by chlorinated algal organic matter
6	Yuxiu Zhang	China University of Mining and Technology	Remediation of Cr (VI)-contaminated soil mixed with chromite ore processing residue by ferrous sulfate and enzyme residue
7	Dan-bing Mei*	Nanjing University	Advancing Water Pollution Source Identification Through Fingerprint Spectroscopy: Methods, Challenges, and Al-Driven Innovations
8	Si Wei	Nanjing University	Machine learning–enhanced molecular network reveals global exposure to hundreds of unknown PFAS
9	Shuying Zhang	Hainan University	Multimodal Model to Predict Tissue-to-Blood Partition Coefficients of Chemicals in Mammals and Fish
10	Zuojun Liu	Hainan University	Common Mechanisms and Synergistic Effects of Organic Pollutants
11	Yingming Li	Research Center for Eco-Environmental Sciences, CAS	Occurrence, bioaccumulation and trophodynamics of per- and polyfluoroalkyl substances (PFAS) in terrestrial and marine ecosystems of Svalbard, Arctic
12	Xue Zhao	Hainan University	The Source of Parabens in Urban River Water: The Evidence From Outdoor Multimedia Environment in Six Metropolitan Cities, China
13	Changhae Kim	Korea University	Population-scale effect of conventional and biodegradable microplastics on Daphnia magna
14	Hanzeng Li	Hainan University	Polyhalogenated carbazole impairs dopaminergic neurons through dysregulation of liquid-liquid phase separation in Caenorhabditis elegans
15	Ruiying Pan*	Research Center for Eco-Environmental Sciences, CAS	BDE-47 elicits disorders of cholesterol metabolism in macrophages
16	Xinni Xie	Research Center for Eco-Environmental Sciences, CAS	Brominated flame retardant BDE-99 stimulates generation of aberrant brown/beige adipocytes
17	Bingwei Yang	Research Center for Eco-Environmental Sciences, CAS	Study on the effects of bisphenol compounds on atherosclerosis and its mechanisms
18	Jingping Yang	Nanjing University	Analysis of environmental contaminants exposure and potential pathogenicity of primary membranous nephropathy

		Congratung	The in vive and male cular to visity of triphonyl phoephote
19	Je-Won Yoo	Sangmyung University	The in vivo and molecular toxicity of triphenyl phosphate on brackish water flea
20	Bingsheng Zhou	Institute of Hydrobiology, CAS	The thyroid endocrine disrupting effects of novel brominated flame retardants on zebrafish
21	Hyeonjeon Cha	Gwangju Institute of Science and Technology	pH-Dependent Solid-Phase Extraction for Enhanced Detection of Persistent Toxic Substances in Consumer Products by High-Resolution Mass Spectrometry
22	Xiaoxia Feng	Shandong University	First Evidence of Novel Organothiophosphate Esters as Prevalent New Pollutants in Dust from Automotive Repair Shops Discovered byHigh-Resolution Mass Spectrometry
23	Seungwoo Seo	Gwangju Institute of Science and Technology	Untargeted Analysis of Plastic Additives in Organic and Aqueous Extracts of Road Marking Paint Microplastics for Screening of Leachable Toxicants
24	Shanjun Song	National Institute of Metrology	Preparation and Characterization Techniques for Microplastic Reference Materials
25	Shixiang Gao	Nanjing University	Characteristics of Biofilms on the Surface of Different Waste Polypropylene Plastic Products: Comparison Between Disposable Masks and Takeaway Boxes
26	Leijian Chen	Hong Kong Baptist University	Size-Dependent Pulmonary Toxicity and Whole-Body Distribution of Inhaled Micro/nano Plastic Particles in Male Mice From Chronic Exposure
27	Hanseong Kim	Korea University	Transgenerational epigenetic effects of polylactic acid microplastic fragments and antibiotic ciprofloxacin on Daphnia magna
28	Nik Nurhidayu Nik Mut	Korea University	Biodegradable PLA Versus Conventional PET Microplastics: Linking Early Molecular Stress to Long- Term Population-Level Toxicity in Daphnia magna
29	Dy Phearum	Gwangju Institute of Science and Technology	Comparative Toxicity of Leachates From Menthol and Charcoal Cigarette Filter Micoplastics on Caenorhabditis Elegans
30	Hang Sun	Research Center for Eco-Environmental Sciences, CAS	Polystyrene nanoparticles trigger aberrant condensation of TDP-43 and amyotrophic lateral sclerosis-like symptoms
31	Yuzhu Zhang	National Institute of Metrology	Study on the cardiovascular toxicity effects of microplastics in simulated real-world environments
32	Tuanyao Chai	University of Chinese Academy of Sciences	Chlorella pyrenoidosa as a potential bioremediator: Its tolerance and molecular responses to cadmium and lead
33	Dong Li	Hainan University	The Potential of Phytoremediation: Enhancing Phytoextraction Using Microbes or Bioactivators
34	Hailong Li*	Nanjing University	Fluoroquinolone antibiotics stimulate methylmercury synthesis by sulfate-reducing bacteria in paddy soils
35	Wenli Chen	Huazhong Agricultural University	Species-specific and physiological states of rhizosphere bacteria drive heavy metal remediation move to poster
36	Xiaolin Ding*	Dalian Maritime University	Exposure to Novel PFOS Substitute OBS induces neurotoxicity via PMK-1 mediated pathway in Caenorhabditis elegans
37	Mi-Na Do	Korea Institute of Science and Technology	Atmospheric PFAS Partitioning and Source Attribution Using a Trajectory-Informed Non-Targeted Approach: Insights from Seoul
38	Yuna Li	Shandong University	The pollution characteristics of per- and polyfluoroalkyl substances in source water: A case study in Tianjin (China)
39	Wonsik Shin	Korea University	Concentration and distribution of per- and polyfluoroalkyl substances (PFAS) in water and sediments of a tributary stream (Jungnang Stream, South Korea)
40	Lijun Wu	Anhui University	Assessment of the impact of PFAS on Liver Functions Using Organoids

41	Ruijia Zhang	Hainan University	TimeCourse Strategy Reveals a Dual Potential of Perfluorooctanoic Acid and Its Alternative in Adipocyte Differentiation
42	Liying Zhu	Zhejiang University	Organic Amine Molecular Cage for PFAS Efficient Adsorption in Groundwater
43	Giang Ha Van	Pusan National University	Determination of 6PPD and 6PPD-Quinone in Tire Wear Particles and Road Dust Using LC-MS/MS
44	Dong-Geun Song	Gwangju Institute of Science and Technology	Sorption of perfluorooctane sulfonate (PFOS) on kaolinite coated with humic acid and its Toxicity changes to Daphnia magna
45	Yuguo Du	Research Center for Eco-Environmental Sciences, CAS	BDE-99 stimulates generation of aberrant brown/beige adipocytes
46	Weilong Yang *	Korea University	New insights into the transformation of marine algal extracellular organic matter and mechanisms of halogenated DBPs production during ozonation
47	Hanbyul Park	Kangwon National University	Prioritization of Organic Micropollutants Using a Machine Learning-Enhanced ToxPi Approach: A Case Study of The Geum River, Korea
48	Minsu Shin	Kangwon National University	Dietary exposure to polycyclic aromatic hydrocarbons in pets: Evidence from urinary biomonitoring
49	So-Hwi Park	Kangwon National University	Organophosphate flame retardants and their metabolites in paired dog food and urine: Pet exposure through food consumption
50	Cheng Li	Beijing Academy of Agriculture and Forestry Sciences	Occurrence and potential sources of ultraviolet absorbers in agriculture soils
51	Lirong Gao	Research Center for Eco-Environmental Sciences, CAS	Identification of Significantly Different Organic Compounds in Breast Milk between Healthy Individuals and Those with Pregnancy Complications
52	Yan Gao	National Institute of Metrology	Microplastics Mass Concentration in Environmental Matrices: Progress, Challenges, and Prospects

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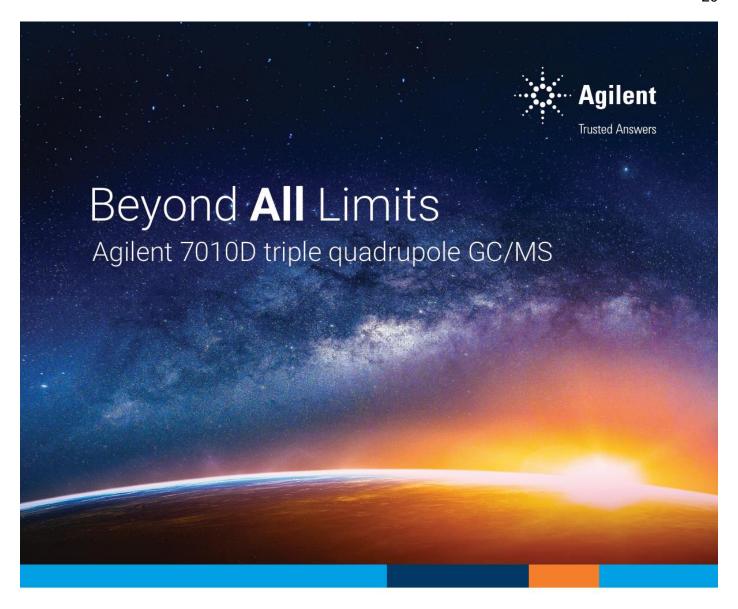


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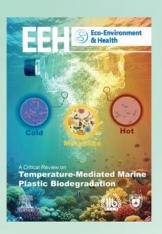
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