

2018 International Symposium for Persistent Bioaccumulating and Toxic Substances



Harbin Institute of Technology

Harbin, China

January 8-12, 2018

ORGANIZED BY

International Joint Research Center for Persistent Toxic Pollutants (IJRC-PTS),
State Key Laboratory of Urban Water Resource and Environment (SKLUWRE),
Harbin Institute of Technology (HIT), China

Dept. Environment & Health, Faculty of Earth and Life Sciences, Vrije University
Amsterdam, the Netherlands



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SKLUWRE, HIT, China



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Dr. James Li, IJRC-PTS, Ryerson University, Canada

OBJECTIVE

Persistent bioaccumulating toxic substances (PBTs), including persistent organic pollutants (POPs), is a common name of a group of pollutants that are persistent, bioaccumulating, and toxic, and have a tendency for long-range transport. Due to its acute, chronic and endocrine disrupting toxicity to humans and producing long-term effects on our environment, PBTs are now receiving world-wide public attention. Therefore, we propose to organize **the 2018 International Symposium for Persistent Bioaccumulating and Toxic Substances** to provide a major interdisciplinary forum for presenting new approaches and new ideas for scientists. We are pleased to announce the call for attendees for the symposium. The symposium will provide a forum for international experts to exchange up-to-date knowledge on their research areas.

Topics include, but are not limited to

- Environmental chemistry
- Long-range transport of semi-volatile organic compounds (SVOCs)
- Flame retardants (BFRs, CFRs, PFRs)
- Marine litter and micro-plastics
- Effect-directed analysis
- Advice on highly toxic substances
- Food safety (chemical)
- Proficiency tests and inter-laboratory studies
- Quality assurance

SUBMISSION OF ABSTRACT

This symposium will consist of invited keynote speakers and oral presentations. One full A4 page of abstract including author's names, their affiliations and the abstract should be submitted in Word format by e-mails to: ijrc_pts_paper@yahoo.com

DEADLINE

Submission of abstracts for oral presentation: before December 25, 2017.

INVITED SPEECH (Until 12/08/2017)

1) Jacob de Boer: Non-target and suspect screening of flame retardants and other compounds in indoor dust from five countries

Introduction of speaker: Dr. Jacob de Boer is a professor in Environmental Chemistry and Toxicology, the head of the Dep. Environmental and Health, Vrije University Amsterdam, the Netherlands. He is also Editor-in-Chief of Chemosphere (Elsevier). In 2013 he was appointed by the Chinese government as National Expert for China for the period 2013-2018. He is a member of the CEFIC LRI Scientific Advisory Panel (ESAP), the Board of the International BFR symposia series, and the QUASIMEME Scientific Advisory Board. He has coordinated a number of European Research projects and a large number of research projects for international organizations and industrial organizations. He has published over 200 peer reviewed articles, 20 book chapters and one book on the analysis and monitoring of environmental contaminants. He has organized many workshops, is a regular contributor to radio and television documentaries and news programs on chemical substances, and he is a regularly invited speaker at international symposia. Dr. de Boer is also an advisor for UNEP and various other international organizations. He is member of the editorial board of the Handbook of Environmental Chemistry (Springer), and was guest-editor of special issues for Trends in Analytical Chemistry (2006, 2013), Chemosphere (2008, 2010, 2013, 2016), Molecular Nutrition and Food Research (2008), and Journal of Chromatography A (2009).

2) Wei-Ping Liu: Enantioselectivity in Environmental Processing and Ecotoxicology of Chiral Contaminates

Introduction of speaker: Dr. Weiping Liu received his B.Sc. and M.Sc. degrees in Chemistry from Zhejiang University. He got his Ph.D. degree in Applied Biochemistry at Tokyo University of Agriculture, Japan. He spent almost three years as a visiting scholar in University of Sassari, Italy from 1990 to 1992. And then he returned to Zhejiang University in the end of 1992 and became Professor of and Associate Chairman of the Department of Chemistry in 1994. From 1999 to 2002, he served as Associate Dean of College of Environmental and Resource Sciences, Zhejiang University. He also devoted several years to do environmental chemistry research at U.S. Salinity Laboratory (1998–1999), and University of California-Riverside, U.S.A. (2002–2005). He is currently

Dean and “Qiushi Scholar” Honor Professor at the College of Environmental and resource Sciences, Zhejiang University, China, and Principal Investigator of “Environmental Chemistry and Toxicology” Innovative Research Team in Chinese University. His research interests are in chiral separation and ecotoxicology of chiral pesticides and other POPs with modern chromatographic and molecule biological techniques. Dr. Liu has about 300 publications in peer reviewed journals in the above research areas. He was elected as a fellow of the American Association for the Advancement Science (AAAS) in 2012.

3) **Yi-Fan Li: Primary and secondary fractionation of POPs observed in global surface soil**

Introduction of speaker: Dr. Yi-Fan Li is a professor of the School of Environment, Harbin Institute of Technology, China, and also the Chief Scientist of the IJRC-PTS. Before 2013 he was a Senior Research Scientist in Environment Canada. Prof. Li’s research interests include environmental modeling and monitoring. During working in Environment Canada, he received the Four Season Award in 2010-2012 for his research work on sources, occurrence and pathways of POPs to Arctic. He has authored/co-authored more than 200 peer-reviewed papers and 5 Canadian National Reports, and has been one of the Most Cited Chinese Researchers for the past three years by Elsevier. Dr. Li serves on editorial advisory board of Ecotoxicology and Environmental Safety. He served as a member of the expert group to revise the “Climate Change and Persistent Organic Pollutants (POPs)”, Stockholm Convention on POPs (2011), Director of Database for Population and Cropland, Global Emissions Inventory Activities (GEIA) (1998-2005), and the Committee member, POPs and Heavy Metals Program, GEIA (1998-2005).

4) **Heather Leslie: Plastic, the Environment and Us - an in-depth introduction to plastic in the environment**

Introduction of speaker: Dr. Heather Leslie is a leading expert in international research on plastic waste, plastic litter and microplastics and plastics additives. She has a strong interest in studying how plastic waste streams, marine litter, and certain plastics and industrial chemicals can impact our ecosystems, health and society and what can be done about it through technology, eco-design, the circular economy etc. She has a background in environmental analytical chemistry and ecotoxicology and joined the Vrije Universiteit

in 2006. She coordinated the first European research project on marine litter, 'CleanSea'. She co-chaired WG40 of Gesamp Joint Group of Experts for the Protection of the Marine Environment from Pollution and co-led the writing of a global assessment report on marine microplastic pollution (2012-2015). She is a member of EU Technical Subgroup Marine Litter working group (since 2013). She is a regular invited (keynote) speaker at European Parliament and at various scientific conferences. Together with collaborator Cheng Guo, she won the BioArtDesign Award (2017) for a new joint project at the interface of design, art and environmental science.

5) Marja Lamoree: High-Throughput Effect-Directed Analysis: a novel platform for rapid and sensitive identification of toxic compounds in the aquatic environment

Introduction of speaker: Dr. Marja Lamoree is a senior environmental analytical chemist with over 20 years of experience. The main focus of her work is Effect-Directed Analysis: the combination of up-to-date analytical-chemical and toxicological techniques and their application in an iterative mode in order to identify novel and "unknown" substances, to contribute to the evaluation of their biological relevance and estimation of their total toxic potency. In addition, she works on the development of target analytical methods for the determination of emerging pollutants at very low concentrations in matrices such as water, sediment, fish but also human matrices such as breast milk and cord blood for human biomonitoring in cohort studies. Complementary to target analysis she works on the compilation and implementation of chemical databases to facilitate suspect screening and to support non-target analysis using high resolution mass spectrometric techniques in both environmental and human samples. The work is carried out within the scope of contract research for government and industry as well as various European Framework projects. She is co-chair of the EU-wide working group on EDA of the NORMAN network of reference laboratories, research centres and related organisations for monitoring of emerging environmental substances. In addition, she is a board member of the section Environmental Chemistry and Toxicology (MCT) of the Royal Netherlands Chemical Society (KNCV).

6) Deirdre Dunne: The Environmental Sciences Publishing Landscape

Introduction of speaker: Deirdre Dunne has been working with Elsevier since 2002 in various Publishing roles within Life, Social and Physical Sciences. Currently she is the

Senior Publisher responsible for the Environmental Science and Health flagship journals including Science of the Total Environment and Environment International. Deirdre graduated from the University of Limerick, Ireland with a degree in European Studies.

7) James Li: An Emerging Analytical Technique for Analyzing Dioxins in the Environment: Enzyme-Linked Immunosorbent Assay (ELISA)

Introduction of speaker: Dr. James Li is professor in Dept. of Civil Engineering, Ryerson University, Canada. He serves as Senior Editor of Journal of Water Management Modeling, Computational Hydraulic International. His major research areas include Hydraulics and Hydrology, and analytic techniques for persistent toxic pollutants.

8) Jing You: Identifying sediment-bound toxicants in urban waterways of Guangzhou, China using an integrated method of TIE and EDA

Introduction of speaker: Dr. Jing You is currently a professor in the School of Environment, Jinan University (youjing@jnu.edu.cn). She also serves as an editor of Environmental Toxicology and Chemistry and the vice president of SETAC Asia/Pacific Board of Directors. Her general research interests are in interdisciplinary areas linking chemistry and toxicology techniques to their environmental applications with the objective of understand ecological risk of environmental contaminants in aquatic ecosystem. She is primarily interested in addressing research questions about environmental fate and adverse effects of organic contaminants, with a particular focus on the bioavailability and toxicity of current-use pesticides, e.g. pyrethroid, organophosphate and neonicotinoid insecticides. Identifying the principal cause of toxicity in the presence of multiple stressors using toxicity identification evaluation and effect directed analysis techniques is also of her special interest. Her current projects include evaluation of bioavailability and toxicity of pesticides in aquatic ecosystem using biomimetic techniques, investigating joint toxicity of sediment-associated contaminants, and diagnosing the key toxicants in aquatic system.

9) Wenbin Liu: Sources of Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls to Chinese Mitten Crabs

Introduction of speaker: Dr. Wenbin Liu is a Professor and Ph.D. Supervisor in State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center For

Eco-Environmental Sciences, Chinese Academy of Sciences. He focuses on environment health effect, environmental policy and control technology of POPs in industrial processes.

LANGUAGE

English will be the official language for the entire symposium.

REGISTRATION FEE

\$ 200 or ¥ 1200 registration fee will be charged for full delegate. \$ 100 or ¥ 600 registration fee will be charged for student. **Register and Pay on Site.**

SYMPOSIUM VENUE

State Key Laboratory of Urban Water Resource and Environment (SKLUWRE), Harbin Institute of Technology (Sceond Campus), Harbin, China.

PRELIMINARY SYMPOSIUM PROGRAMME

State Key Laboratory of Urban Water Resource and Environment (SKLUWRE), Harbin Institute of Technology (Sceond Campus), Harbin, China.

Date	Symposium Programme
January 08, 2018	Registation
January 09, 2018	Oral Presentation
January 10, 2018	Oral Presentation
January 11, 2018	Oral Presentation
January 12, 2018	Social Programme

SOCIAL PROGRAMME

At the Symposium, besides the science lectures and expert discussions, other social events will be arranged, including visiting several historical sites of beautiful Harbin and the world wonder, Harbin Ice Sculptures. It is also about networking, making new friends and catching up with old mates and simply having a great time!

HOTEL INFORMATION

- (1) Huaqi Hotel, No.301 Hongqi Street , Nangang District, Harbin, 150090, China, tel: 86-451-8186-8888 (黑龙江省哈尔滨市南岗区红旗大街 301 号, 华旗酒店)
- (2) Longhai Century Hotel, No.88 Songshan Road, Nangang District, Harbin, 150090, China, tel: 86-451-8597-5999 (黑龙江省哈尔滨市南岗区嵩山路 88 号, 龙海世纪大酒店)
- (3) Minfang Business Hotel, No.270 Hongqi Street, Nangang District, Harbin, 150090, China, tel: 86-451-8227-9888 (黑龙江省哈尔滨市南岗区红旗大街 270 号, 民防商务酒店)
- (4) Spring Hotel, No.128 Huanghe Road , Nangang District, Harbin, 150090, China, tel: 86-451-8796-4111 (黑龙江省哈尔滨市南岗区黄河路 128 号, 春天宾馆)
- (5) 7 Days Hotel, No.117 Songshan Road, Nangang District, Harbin, 150090, China, tel: 86-451-8717-0777 (黑龙江省哈尔滨市南岗区嵩山路 117 号, 7 天连锁酒店)

CORRESPONDENCE

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We look forward to welcoming you to the symposium and we wish you an amazing stay in Harbin.