



DIOXIN 2021 TIANJIN

41st International Symposium on
Halogenated Persistent Organic Pollutants

PROGRAM BOOK

NOVEMBER 08-11, 2021



www.dioxin2021.org

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JEOL has developed and launched a number of mass spectrometers, which are used by many customers worldwide, particularly in dioxins and POPs analysis. We will continue to provide analytical solutions that meet the needs of the times, and will continue to be the leader in dioxins and POPs analysis equipment.

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"Medical Equipment Business" Medical Equipment

DIOXIN **2021** **TIANJIN**

**41st International Symposium on
Halogenated Persistent Organic Pollutants**

NOVEMBER 08-11, 2021

DIOXIN 2021 TIANJIN



41st International Symposium on
Halogenated Persistent Organic Pollutants

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INFORMATION



Welcome Message

It is our great pleasure to invite you to attend and contribute to the 41st International Symposium on Halogenated Persistent Organic Pollutants (DIOXIN 2021 TIANJIN) on November 08-11, 2021 at Society Hill International Convention Center Hotel, Tianjin, China.

The conference will be held in a hybrid format with a 3 days duration, combining on-site events with an online platform for remote attendees. The streaming of live sessions online will ensure as many participations as possible in this year's DIOXIN meeting. For those who will participate remotely, state-of-the-art broadcasting technologies will be implemented for an efficient attendance to the sessions. As the on-site meeting will take place in China (UTC +8), the meeting program will be constructed in a way to facilitate the participants from around the world.

Don't miss DIOXIN 2021 where you will interact with experts to solve practical issues and learn about the latest innovations on research of POPs. Join us for this exciting program where prominent scientists in the field of POPs research will gather from around the world.

Prof. Guibin Jiang

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences





Conference Organization

Honorary Chair:

Prof. Guibin Jiang

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Executive Chairman:

Prof. Minghui Zheng

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Prof. Zongwei Cai

Hong Kong Baptist University

International Advisory Board:

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Jae-Ho Yang

Catholic University of Daegu / Republic of Korea

Bruno Le Bizec

National College of Veterinary Medicine, Food Science and Engineering (Oniris) /
France

Georg Becher

University of Oslo / Norway

Jerzy Falandysz

University of Gdańsk / Poland

Stuart Harrad

University of Birmingham / United Kingdom

Stephen H. Safe

Texas A&M University / USA

Minghui Zheng

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences /
People's Republic of China

Local Organization Committee:

Baoliang Chen, Zhejiang University

Da Chen, Jinan University

Jingwen Chen, Dalian University of Technology

Jiping Chen, Dalian Institute of Chemical Physics, CAS



Jiayin Dai, Shanghai Jiao Tong University

Jianxin Hu, Peking University

Yeru Huang, National Research Center for Environmental Analysis and Measurement

Rong Ji, Nanjing University

Jingguang Li, China National Center for Food Safety Risk Assessment

Jinhui Li, Tsinghua University

Xiaodong Li, Zhejiang University

Yong Liang, Jiangnan University

Chunyang Liao, Research Center for Eco-Environmental Sciences, CAS

Guorui Liu, Research Center for Eco-Environmental Sciences, CAS

Yajun Liu, Shaanxi Provincial Health Commission

Jianmin Ma, Peking University

Bixian Mai, Guangzhou Institute of Geochemistry, CAS

Bo Pan, Kunming University of Science and Technology

Zheng Peng, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment

Ting Ruan, Research Center for Eco-Environmental Sciences, CAS

Maoyong Song, Research Center for Eco-Environmental Sciences, CAS

Hongwen Sun, Nankai University

Yifei Sun, Beihang University

Yongning Wu, China National Center for Food Safety Risk Assessment

Daqiang Yin, Tongji University

Gang Yu, Tsinghua University

Xiaoping Wang, Institute of Tibetan Plateau Research, CAS

Yawei Wang, Research Center for Eco-Environmental Sciences, CAS

Eddy Zeng, Jinan University

Bin Zhao, Research Center for Eco-Environmental Sciences, CAS

Aiqian Zhang, Research Center for Eco-Environmental Sciences, CAS

Gan Zhang, Guangzhou Institute of Geochemistry, CAS

Jianqing Zhang, Shenzhen CDC

Qinghua Zhang, Research Center for Eco-Environmental Sciences, CAS

Lingyan Zhu, Nankai University



Sessions and Chairs

Session	Session Chairs
Sampling and Analysis	Prof. Yeru Huang, National Research Center for Environmental Analysis and Measurement
	Prof. Qinghua Zhang, Research Center for Eco-Environmental Sciences, CAS
	Prof. Jingguang Li, China National Center for Food Safety Risk Assessment
Formation and Emissions	Prof. Jiping Chen, Dalian Institute of Chemical Physics, CAS
	Prof. Xiaodong Li, Zhejiang University
	Prof. Yifei Sun, Beihang University
Environmental Persistent Free Radicals	Prof. Bo Pan, Kunming University of Science and Technology
	Prof. Guorui Liu, Research Center for Eco-Environmental Sciences, CAS
Distribution, Transport and Fate	Prof. Eddy Zeng, Jinan University
	Prof. Jianmin Ma, Peking University
	Prof. Da Chen, Jinan University
Exposure and Risk Assessment	Prof. Yongning Wu, China National Center for Food Safety Risk Assessment
	Prof. Daqiang Yin, Tongji University
	Prof. Bixian Mai, Guangzhou Institute of Geochemistry, CAS
	Prof. Lingyan Zhu, Nankai University

Session	Session Chairs
Toxicology and Epidemiology	Prof. Jiayin Dai, Shanghai Jiao Tong University
	Prof. Aiqian Zhang, Research Center for Eco-Environmental Sciences, CAS
	Prof. Bin Zhao, Research Center for Eco-Environmental Sciences, CAS
	Prof. Yong Liang, Jiangnan University
Control Strategies and Technologies	Prof. Hongwen Sun, Nankai University
	Prof. Jingwen Chen, Dalian University of Technology
	Prof. Baoliang Chen, Zhejiang University
	Prof. Rong Ji, Nanjing University
Implementation of the Stockholm Convention	Prof. Jianxin Hu, Peking University
	Prof. Jinhui Li, Tsinghua University
	Prof. Yawei Wang, Research Center for Eco-Environmental Sciences, CAS
	Prof. Roland Weber, POPs Environmental Consulting
	Prof. Zheng Peng, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment
POPs in Polar Regions: Arctic, Antarctic, and the Tibetan Plateau	Prof. Xiaoping Wang, Institute of Tibetan Plateau Research, CAS
	Prof. Jianjie Fu, Research Center for Eco-Environmental Sciences, CAS
	Prof. Ruiqiang Yang, Research Center for Eco-Environmental Sciences, CAS
Screening and Recognition of Novel Contaminants	Prof. Gan Zhang, Guangzhou Institute of Geochemistry, CAS
	Prof. Chunyang Liao, Research Center for Eco-Environmental Sciences, CAS
	Prof. Ting Ruan, Research Center for Eco-Environmental Sciences, CAS



Plenary Speakers

Professor Yongning Wu

Professor Dr. Yongning Wu is Chief Technical Officer of the China National Center for Food Safety Risk Assessment (CFSA), and Chief Scientist of China National Expert Committee on Food Safety Risk Assessment. Dr. Wu graduated from Nanjing Medical College in 1983, then from Chinese Academy of Preventive Medicine for Ph. D. degree in Public Health in 1997. He is Director of Food Safety Research Unit of Chinese Academy of Medical Science (2019RU014), the Director of NHC Key Laboratory of Food Safety Risk Assessment, head of WHO Collaborating Center of Food Contamination Monitoring (China), fellow of International Academy of Food Science and Technology, vice-president of Chinese Society of Toxicology.

Dr. Wu served as members of WHO Technical Advisory Group for Food Safety, FAO/WHO Joint Expert Committee on Food Additives (JECFA), and Roster of Dietary Exposure Assessment of Chemical in Food. He was members of Scientific Committee of Food Safety Commission of the State Council of China, National Food Safety Risk Assessment Committee of China. As the director of food contaminate subcommittee of the China Reviewing Committee on National Food Safety Standards and the head of Chinese delegate of Codex Committee on Contaminants in Food, he is involved in drafting the food safety standards for food contaminants.

Professor Zongwei Cai

Prof. Zongwei Cai graduated from Xiamen University, China in 1982 with a B.Sc. degree and University of Marburg, Germany in 1990 with a Ph.D. degree in Analytical Chemistry. He worked in University of Nebraska, USA as a post-doc from 1991-1993 and Research Assistant Professor from 1994-1996. He was appointed as an Associate Professor from 2001-2005; Professor from 2005-2010; and Chair Professor since 2010 in the Department of Chemistry, Hong Kong Baptist University. Currently he is Kwok Yat-Wai Endowed Chair of Environmental & Biological Analysis, Director of Dioxin Analysis Laboratory, and Director of State Key Laboratory of Environmental and Biological Analysis.

The major research interest of Prof. Cai is method development and applications of mass spectrometry for trace analysis of environmental and biological compounds in complex matrices.

Professor Timothy Richard Zacharewski

Timothy Richard Zacharewski is a Professor in the Department of Biochemistry & Molecular Biology and member of the Institute for Integrative at Michigan State University. He graduated with a Ph.D. in Toxicology in 1990 from Texas A&M University in the laboratory of Dr. Stephen Safe. He has been pursuing research interests in the areas of mechanistic toxicology. More recently, his research has focused on aryl hydrocarbon receptor (AhR)-mediated metabolic reprogramming related to hepatotoxicity and the progression of steatosis to steatohepatitis with fibrosis, which closely parallels the development of non-alcoholic fatty liver disease (NAFLD). He has published more than 150 peer-reviewed research papers. He was a member of the National Academies of Science's Emerging Issues in Environmental Health Sciences, and Identifying and Assessing Unintended Effects of Genetically Engineered Foods on Human Health committees, and has served as a consultant to the National Centers for Toxicogenomics, the Science Advisory Board for the US Environmental Protection Agency, the International Life Sciences Institute/Health & Environmental Sciences Institute Technical Committee on the Application of Genomics to Mechanism-Based Risk Assessment, and the Science Advisory Panel for CIIT Centers for Health Research.

Professor Ting Ruan

Ting Ruan is a professor in the State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. He graduated from the University of Science and Technology of China in 2006 and received the Ph.D. degree in Environmental Science in 2011 from the Graduate School of Chinese Academy of Sciences in the laboratory of Prof. Guibin Jiang. The research interest focuses on identification of novel environmental organic pollutants by using advanced analytical methodologies, including non-target screening by high resolution mass spectrometry, and prediction by quantitative structure-property relationship models. Experiences have been gained on presence, partitioning, transport behaviors, and transformation mechanisms of emerging halogenated chemicals. He was a member of the expert group to finalize the UNEP guideline document "PFAS analysis in water for the global monitoring plan of the Stockholm Convention: Set-up and guidelines for monitoring" and serves as the guest editors to organize the special issues in TrAC-Trend. Anal. Chem. and Environ. Sci. Technol. journals.



General Information

Date and Location

Key Dates:

- ◆ Conference Date: November 08-11, 2021
- ◆ Plenary and Sessions: November 09-11, 2021

Location:

Society Hill International Convention Center Hotel

Add: No.198 Zhijing Street, Xiqing DIST, Tianjin

On-site Registration Opening Hours

Monday- Thursday, November 08-11, 2021 08:00-18:00

Registration Fee

Onsite Delegates	Regular Early Bird (Until May 31, 2021)	USD320 (CNY2000)
	Regular	USD400 (CNY2800)
	Student Early Bird (Until May 31, 2021)	USD240 (CNY1600)
	Student	USD280 (CNY1900)
Online Delegates	Regular Early Bird (Until May 31, 2021)	USD100
	Regular	USD150(CNY1000)
	Student Early Bird (Until May 31, 2021)	USD50
	Student	USD70(CNY500)

* All Delegates must register for the Conference.

Name Badge

All attendees are required to enter the conference center with their name badges.
Color of name badge lanyard: blue for delegate, green for exhibitor, yellow for staff.

Friendly Reminders

- A. Please wear masks, measure body temperature when entering the conference center, keep social distance according to epidemic prevention requirements.
- B. The DIOXIN2021 Secretariat has the copyright of all the contents of the conference. It is strictly prohibited to record video of conference speech slides without permission.
- C. It is strictly prohibited to distribute or place any academic or product materials without the permission.

Speaker Ready Room

All speakers are suggested to submit your presentation file at speaker ready room **FOUR** hours prior to the allocated schedule.

Posters Exhibition

Schedule:

14:00-15:00, November 09

14:00-15:00, November 10

Location:

Grand Ballroom 6



Presentation Guidelines

Online oral presentation guidelines

Online Platform

Please note that you do not need any special software to join the online platform. It is recommended to use Edge, Firefox or other but not Google Chrome to enter the online platform. DIOXIN2021 Secretariat will open the live conference on November 09 (Beijing Time).

Presentation Guidelines

We support all common PowerPoint presentation formats up to and including version 2019. The recommended aspect ratio for your presentation is 16:9 format.

Keynote presentations should not exceed **20 min**, including Q&A.

Oral presentations should not exceed **15 min**, including Q&A.

Student oral presentations should not exceed **10 min**, including Q&A.

Please be referred to * [ten simple rules](#) for making good oral presentations.

Presentation by Pre-Recorded Video Lecture

If it is not possible for you to give a live presentation of your lecture during the conference, you can instead pre-record your lecture and send it to DIOXIN2021 Secretariat (Email: dioxinsecretariat@163.com) as a finished video file.

All online speakers are suggested to prepare a pre-record video and send it to DIOXIN2021 Secretariat as a backup in case of any live broadcasting problems. The recommended video format is MP4 (H.264 codec), the video of presentation screen can be recorded by ZOOM or other recording software.

Online presentation will be streamed in 16:9 image format and in full HD resolution. Please prepare your lecture with 1920*1080 resolution.

Live Presentation via Zoom

Instructions of online presentation:

- A. Download ZOOM at <https://www.zoom.us/download>
- B. Prepare a laptop or a desktop computer with a web cam.
- C. Make sure the camera, loudspeaker and microphone are in good condition.
- D. Network requirements: the network needs to be stable for more than 20M.

- E. Join the ZOOM live room 15 minutes before the schedule time.
- F. Turn off the microphone when enter the ZOOM live room. Keep only the live room and conference website on the computer to avoid sound interference.
- G. Don't block your camera while speaking. Keep the camera on.
- H. Please finish your presentation within 20/15/10 minutes.

Test Meeting Zoom

Zoom test meeting for all online speakers in preparation for the conference will be arranged shortly before the DIOXIN2021. The date and the exact schedule will be sent to you in due time.

*All Presentation (PPT or recorded video) could be browsed at the conference website for TWO more weeks after the conference. Please kindly contact us if you DO NOT wish your presentation to be listed or browsed on the website.

Onsite oral presentation guidelines

Presentation Guidelines

Keynote presentations should not exceed **20 min**, including Q&A.

Oral presentations should not exceed **15 min**, including Q&A.

Student oral presentations should not exceed **10 min**, including Q&A.

If you cannot give your oral presentation for any reason, please nominate, if possible, a co-author as a substitute. Please be referred to * [ten simple rules](#) for making good oral presentations.

Instructions on the presentation session:

- A. The conference will be streamed in 16:9 image format and in full HD resolution, prepare the PPT in 16:9 format.
- B. Submit it to the speaker ready room half a day before the schedule time at least.
- C. Enter the conference hall 30 minutes before the schedule time.
- D. Due to the tight schedule of DIOXIN2021, all speakers are requested to strictly abide by the schedule.



*All Presentation (PPT or recoded video) could be browsed at the conference website for TWO more weeks after the meeting. Please kindly contact us if you DO NOT wish your presentation to be listed or browsed on the website.

Poster presentation guidelines

These guidelines apply to all authors presenting an e-poster. All posters will be displayed in the Electronic Poster Exhibition of the conference website. All Chinese posters will be printed by DIOXIN2021 Secretariat and displayed in Conference Room. TWO poster sessions are scheduled from 14:00-15:00 on November 9 and 10. All e-posters need to be handed in with the following specifications:

- A. Download the E-poster template from the website.
- B. Upload the E-poster in the personal center of the conference website.
- C. E-poster should be uploaded in JPG file (one page, portrait format).
- D. Include all co-authors and their contact details on the poster.
- E. Include contact details of the lead author for publication in the poster, especially email address in case of questions from the viewers.
- F. Please be referred to * [ten simple rules](#) for a good e-poster.

Deadline for upload: November 05. The E-Poster Exhibition will be available very soon in October.

* [ten simple rules](#) Please visit <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1857815/>

Program at a Glance

November 08				
08:00-19:00	Registration			
17:30-18:30	Welcome Reception			
Program at a glance on November 09				
	Grand Ballroom 6	Meeting Room 15	Meeting Room 16	Meeting Room 17
08:30-10:30 EST(-1) 19:30-21:30 CET 01:30-03:30	Opening Ceremony Plenary Speech			
10:30-10:50	Coffee Break			
10:50-12:00 EST(-1) 21:50-23:00 CET 03:50-05:00	Exposure and Risk Assessment	Environmentally Persistent Free Radicals	Control Strategies and Technology	Screening and Recognition of Novel Contaminants
12:00-14:00	Lunch			
14:00-15:00 EST(-1) 01:00-02:00 CET 07:00-08:00	Poster			
15:00-16:15 EST(-1) 02:00-03:15 CET 08:00-09:15	Exposure and Risk Assessment	Environmentally Persistent Free Radicals	Control Strategies and Technology	Screening and Recognition of Novel Contaminants
16:15-16:30	Coffee Break			
16:30-18:00 EST(-1) 03:30-05:00 CET 09:30-11:00	Exposure and Risk Assessment	Implementation of the Stockholm Convention	Control Strategies and Technology	Screening and Recognition of Novel Contaminants

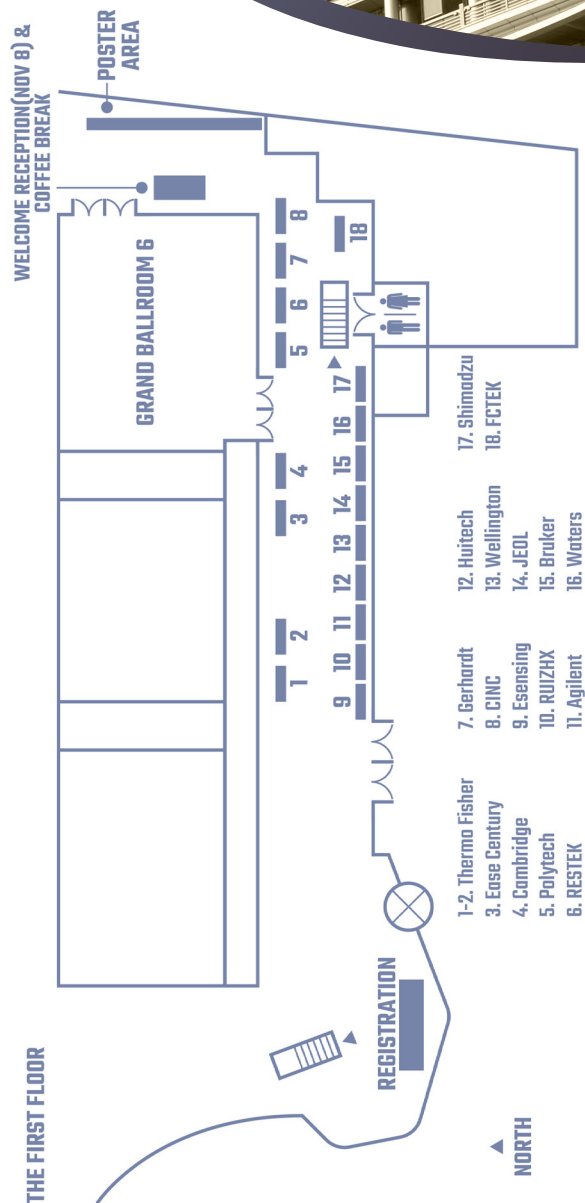


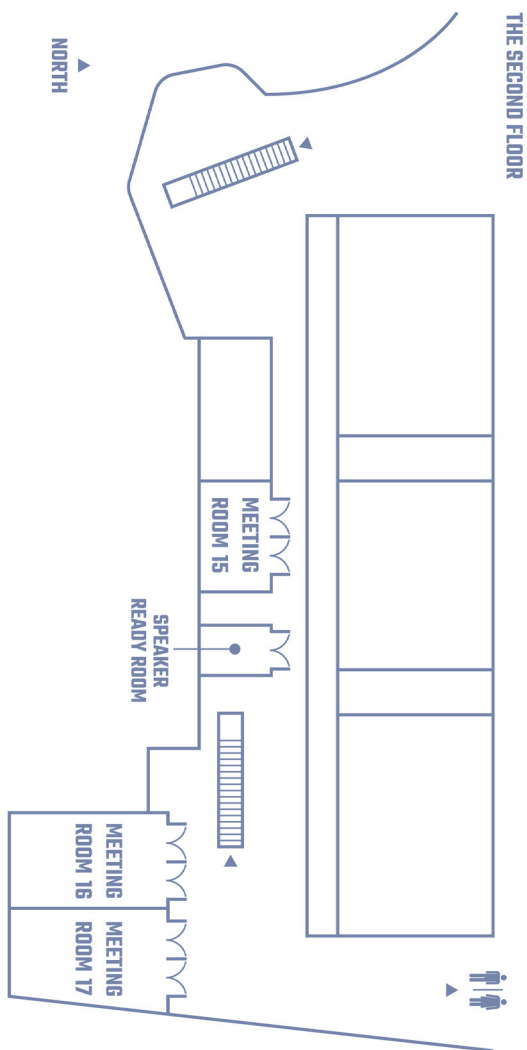
Program at a glance on November 10

	Grand Ballroom 6	Meeting Room 15	Meeting Room 16	Meeting Room 17
09:00-10:30 EST(-1) 20:00-21:30 CET 02:00-03:30	Plenary Speech			
10:30-10:50	Coffee Break			
10:50-12:00 EST(-1) 21:50-23:00 CET 03:50-05:00	Exposure and Risk Assessment	POPs in Polar Regions: Arctic, Antarctic, and the Tibetan Plateau	Control Strategies and Technology	Screening and Recognition of Novel Contaminants
12:00-14:00	Lunch			
14:00-15:00 EST(-1) 01:00-02:00 CET 07:00-08:00	Poster			
15:00-16:15 EST(-1) 02:00-03:15 CET 08:00-09:15	Exposure and Risk Assessment	Implementation of the Stockholm Convention	Control Strategies and Technology	Screening and Recognition of Novel Contaminants
16:15-16:30	Coffee Break			
16:30-18:00 EST(-1) 03:30-05:00 CET 09:30-11:00	Exposure and Risk Assessment	Implementation of the Stockholm Convention	Control Strategies and Technology	Distribution, Transport and Fate

Program at a glance on November 11

	Grand Ballroom 6	Meeting Room 15	Meeting Room 16	Meeting Room 17
09:00-10:30 EST(-1) 20:00-21:30 CET 02:00-03:30	Toxicology and Epidemiology	Sampling and Analysis	Formation and Emissions	Distribution, Transport and Fate
10:30-10:50	Coffee Break			
10:50-12:00 EST(-1) 21:50-23:00 CET 03:50-05:00	Toxicology and Epidemiology	Sampling and Analysis	Formation and Emissions	Distribution, Transport and Fate
12:00-14:00	Lunch			
14:00-15:00 EST(-1) 01:00-02:00 CET 07:00-08:00	Toxicology and Epidemiology	Sampling and Analysis	Formation and Emissions	Distribution, Transport and Fate
15:00-16:15 EST(-1) 02:00-03:15 CET 08:00-09:15		Implementation of the Stockholm Convention		
16:15-16:30	Coffee Break			
16:45-18:00 EST(-1) 03:45-05:00 CET 09:45-11:00	Closing Ceremony & Awards Ceremony			







STANDARDS FOR ENVIRONMENTAL TESTING & RESEARCH

PCDDs / PCDFs / PCBs
HALOGENATED FLAME RETARDANTS
PER- AND POLYFLUOROALKYL SUBSTANCES
POLYAROMATIC HYDROCARBONS
POLYCHLORINATED NAPHTHALENES
OC PESTICIDES

ISO 9001:2015 - ISO/IEC 17025:2017 - ISO 17034:2016



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**PROGRAM
ON NOVEMBER 09**



November 09

Grand Ballroom 6 (First Floor)

08:30-08:35	Opening Ceremony-Welcome from IAB Members
08:35-08:45	Opening Ceremony-Performances
08:45-09:00	Opening Ceremony-Welcome from Chairs
09:00-10:30	Plenary Speech
EST 20:00-21:30	Chair: Yongping Zeng
CET 02:00-03:30	
09:00-09:45	Exposure Assessment to Chemical Cocktails Present in Food and Human <i>Yongning Wu, China National Center for Food Safety Risk Assessment (CFSA)</i>
09:45-10:30	Metabolomics and Lipidomics Investigation on Adverse Effects of Dioxin Exposure: from Rat to Human <i>Zongwei Cai, Hong Kong Baptist University</i>
10:30-10:50	Coffee Break
10:50-12:00	Session: Exposure and Risk Assessment
EST 21:50-23:00	Session Chairs: Daqiang Yin, Yawei Wang
CET 03:50-05:00	
10:50-11:10	The Exposure and Health Effects of Per- and Polyfluoroalkyl Substances <i>Yawei Wang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>

TUESDAY



11:10-11:30	Machine Learning Studies of Complicated Toxicity <i>Xiangang Hu, Nankai University</i>
11:30-11:45	Percutaneous Penetration of Chlorinated Paraffins, the Bio-availability and the Dermal Exposure Assessment <i>Wei Gao, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
11:45-12:00	Association Between Type 2 Diabetes and Exposure to Chlorinated Persistent Organic Pollutants in Algeria: a Case-Control Study <i>El Hadia Mansouri, Algiers Faculty of Medicine</i>
12:00-14:00	Lunch
14:00-15:00	Poster (Grand Ballroom 6)
15:00-16:05	Session: Exposure and Risk Assessment
EST 02:00-03:05	Session Chairs: Xinyi Cui
CET 08:00-09:05	
15:00-15:20	Visualized Metabolic Disorder and Its Chemical Inducer in Wild Crucian Carp from Taihu Lake, China <i>Yi Wan, Peking University</i>
15:20-15:40	The Influence of Food on the in Vivo Bioavailability of DDT and Its Metabolites in Soil <i>Xinyi Cui, Nanjing University</i>
15:40-15:55	Medium-Chain Chlorinated Paraffins Dominate Over Short-Chain Chlorinated Paraffins in Belgian Foods <i>Thomas McGrath, University of Antwerp</i>
15:55-16:05	Kinetic Modeling of the Transfer of NDL-PCBs from Mother Cow to Calf - a Case Study <i>Jan-Louis Moenning, German Federal Institute for Risk Assessment (BfR)</i>

16:05-16:30 Coffee Break
16:30-18:00 Session: Exposure and Risk Assessment
EST 03:30-05:00 Session Chairs: Da Chen, Xiangang Hu
CET 09:30-11:00

16:30-16:50 The Organic Flame Retardant Story: Knowns and Unknowns
Stuart Harrad, University of Birmingham

16:50-17:10 Prenatal Exposure to Contaminants of Emerging Concern and Potential Health Risks
Da Chen, School of Environment, Jinan University

17:10-17:30 Dietary Intake of Dioxins Like Compounds and Per/Polyfluoro-alkyl Substances in China: Occurrence and Temporal Trend
Jingguang Li, China National Center for Food Safety Risk Assessment

17:30-17:40 Human Risk Assessment For 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) Based Toxicity Testing in the 21 Century Approach Involving Aryl Hydrocarbon Receptor (AhR) Signaling Pathways
Man Hu, Fudan University

17:40-17:50 Structural Insights into Major Latex-Like Proteins Responsible for the Contamination with POPs in Zucchini
Kentaro Fujita, Kobe University

17:50-18:00 Persistent Organic Pollutants (POPs) in Chicken Eggs and Camel Milk from Southwestern Kazakhstan
Valeriya Grechko, Arnika - Toxics and Waste Programme

Meeting Room 15 (Second Floor)

10:50-12:10 Session: Environmentally Persistent Free Radicals
EST 21:50-23:10 Session Chairs: Guorui Liu, Jing Chen
CET 03:50-05:10



10:50-11:10 The Components and Persistent Free Radicals in the Volatiles during Pyrolysis of Lignocellulose Biomass
Bo Pan, Kunming University of Science and Technology

11:10-11:30 Multiphase Chemistry of Atmospheric Environmentally Persistent Free Radicals
Haijie Tong, The Hong Kong Polytechnic University

11:30-11:50 Formations and Stability of Environmentally Persistent Free Radicals in Airborne Particulate Matters
Lili Yang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

11:50-12:00 Formation of Environmentally Persistent Free Radicals during the Thermal Treatment of Soils Contaminated by Polycyclic Aromatic Hydrocarbons
Jinbo Liu, Northwest A & F University

12:00-12:10 Formation Mechanism of Unintentional Persistent Organic Pollutants Mediated by Organic Free Radicals during Thermal Related Processes
Xiaoyun Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

12:10-14:00 Lunch

14:00-15:00 Poster (Grand Ballroom 6)

15:00-16:20 Session: Environmentally Persistent Free Radicals

EST 02:00-03:20 Session Chairs: Bo Pan, Lili Yang

CET 08:00-09:20

15:00-15:20 In Vitro Toxicological Effects of PM_{2.5} Containing Environmental Persistent Free Radicals Human Lung Epithelial Cells
Xiaosan Luo, Nanjing University of Information Science & Technology

- | | |
|-----------------|--|
| 15:20-15:40 | Formation of Environmentally Persistent Free Radicals Micro-plastics under Light Irradiation
<i>Hanzhong Jia, Northwest A&F University</i> |
| 15:40-16:00 | Free Radical Mediated Mechanisms of Unintentional POPs Formation
<i>Guorui Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> |
| 16:00-16:10 | Transformation of Environmentally Persistent Free Radicals during the Formation of UOPs from Anthracene
<i>Bingcheng Lin, Hangzhou Institute for Advanced Study, UCAS</i> |
| 16:10-16:20 | Size Distribution, Source Identification and Exposure Risks of Environmentally Persistent Free Radicals in Typical Urban-Rural Atmospheric Particulates in Northern China: Impact of Heating
<i>Weihua Qin, Beijing Normal University</i> |
| 16:20-16:30 | Coffee Break |
| 16:30-17:50 | Session: Implementation of the Stockholm Convention |
| EST 03:30-04:50 | Session Chairs: Jianxin Hu, Roland Weber |
| CET 09:30-10:50 | |
| 16:30-16:50 | Updates the Scientific and Technical Activities Under the Stockholm Convention POPs
<i>Kei Ohno, Secretariat of the Basel, Rotterdam and Stockholm Conventions</i> |
| 16:50-17:05 | UNIDO's Program Chemicals and Wastes: A Response to Chemicals and Wastes Environmental Conventions
<i>Centeno Carmela, United Nations Industrial Development Organization</i> |



- 17:05-17:20 UNEP's Role in Knowledge Sharing and Capacity Building for the Implementation of the Stockholm Convention
Sandra Averous-Monnery, United Nations Environment Programme
- 17:20-17:35 Sound Management of Chemicals and Waste Beyond 2020: Towards a Holistic Management of Persistent Organic Pollutants (POPs) in Africa
Adu-Kumi Sam, Chemicals Control and Management Centre, Environmental Protection Agency
- 17:35-17:50 Stockholm Convention Guidance Documents for POPs Assessment and Management and Some Related Research Needs
Roland Weber, POPs Environmental Consulting

Meeting Room 16 (Second Floor)

10:50-12:00 Session: Control Strategies and Technologies
EST 21:50-23:00 Session Chairs: Jingwen Chen, Baoliang Chen
CET 03:50-05:00

- 10:50-11:10 Toward Single Atom Catalysis for Environmental Application
Jaehong Kim, Yale University, USA
- 11:10-11:30 Photocatalytic Self-Fenton High-throughput Mineralization of Organic Pollutants in Water
Yongfa Zhu, Tsinghua University
- 11:30-11:50 Efficient and Durable Photocatalysts for Removing Volatile Organic Compounds
Wonyong Choi, Pohang University of Science and Technology

11:50-12:00	Photochemistry of Dissolved Organic Matter Extracted from Coastal Seawater: Excited-triplet States and Contents of Phenolic Moieties <i>Zhongyu Guo, Tokyo Institute of Technology, Japan</i>
12:00-14:00	Lunch
14:00-15:00	Poster (Grand Ballroom 6)
15:00-16:15	Session: Control Strategies and Technologies
EST 02:00-03:15	Session Chairs: Jingwen Chen, Baoliang Chen
CET 08:00-09:15	
15:00-15:20	Two Novel Automated Identification and Quantification Database Systems for Target Screening of Organic Micro-pollutants <i>Kiwao Kadokami, The University of Kitakyushu, Japan</i>
15:20-15:40	Strategy of Anaerobic Bioremediation: Design of Artificial Microbial Community and Bioelectrochemical System <i>Arata Katayama, Nagoya University</i>
15:40-16:00	Enhanced Reductive Dichlorination for Bioremediation of cVOCs Contaminated Groundwater: Laboratory and Field-scale Studies <i>Xin Song, Institute of Soil Science, CAS</i>
16:00-16:15	Degradation of Chlorinated Hydrocarbons in Groundwater by Combination of Biochar-Based Composite and Microorganisms <i>Jingchun Tang, Nankai University</i>
16:15-16:30	Coffee Break
16:30-17:45	Session: Control Strategies and Technologies
EST 03:30-04:45	Session Chairs: Jingwen Chen, Baoliang Chen
CET 09:30-10:45	



- 16:30-16:50 Regulation of Hazardous Chemicals: the Shift from Hydrophobic POPs to Hydrophilic Persistent, Mobile and Toxic (PMT) Substances?
Willie J.G.M. Peijnenburg, Leiden University, the Netherlands
- 16:50-17:10 Progress POPs Convention Implementation in Asia & Pacific Region
Yuan Chen, Tsinghua University
- 17:10-17:30 The Pollution Profiles and Human Exposure Risks of Chlorinated and Brominated PAHs from Different E-waste Dismantling Workshops
Taicheng An, Guangdong University of Technology
- 17:30-17:45 Synergistic Elimination of NO_x and Dioxin on a Commercial V₂O₅-WO₃/TiO₂ Catalyst: Reaction Characteristics and the Interference Effects
Xiaole Weng, Zhejiang University

Meeting Room 17 (Second Floor)

10:50-11:55 Session: Screening and Recognition of Novel Contaminants
EST 21:50-22:55 Session Chairs: Ting Ruan, Chunyang Liao
CET 03:50-04:55

- 10:50-11:10 Risk Directed and Chemical Modification Assisted Identification of the Known and Unknown in Human Exposome
Mingliang Fang, Nanyang Technological University
- 11:10-11:25 Synthetic Antioxidants: from Environmental Occurrence to Human Exposure
Runzeng Liu, University of Toronto
- 11:25-11:40 Melamine, the Novel Nitrogenous Flame Retardants, and Its Derivatives in Indoor Dust
Hongkai Zhu, College of Environmental Science & Engineering at Nankai University

11:40-11:55 New Chemicals and Environmental Health
Jing Li, South China Agricultural University

12:00-14:00 Lunch

14:00-15:00 Poster (Grand Ballroom 6)

15:00-16:10 Session: Screening and Recognition of Novel Contaminants

EST 02:00-03:10 Session Chairs: Ting Ruan, Xue Li

CET 08:00-09:10

15:00-15:20 Discovery of Emerging Contaminants with High-Throughput
Nontarget Screening
Si Wei, Nanjing University

15:20-15:35 Unexpectedly High Number of Organic Compounds Detected
during the Gas-Phase Reaction of Ozone with Exhaled Human
Breath
Xue Li, Jinan University

15:35-15:50 Identification of Novel Halogenated Naturally Occurring Com-
pounds in Sea Sponge by High-Resolution Mass Spectrometry
and Combined Screening Approaches
Lidia Belova, Univesity of Antwerp

15:50-16:00 Target, Suspect, and Non-target Analysis with GC-TOF and
MS/MS for Per- and Polyfluoroalkyl Substances Surrounding
Fluorine-producing or Consuming Industrial Facilities in Korea
Sori Mok, Hanyang University

16:00-16:10 Non-Target Screening of Organic Pollutants in Soil in a Con-
taminated Area by GC×GC-TOFMS
*Di Huang, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences*

16:10-16:30 Coffee Break



16:30-18:00 Session: Screening and Recognition of Novel Contaminants
EST 03:30-05:00 Session Chairs: Ting Ruan, Jing You
CET 09:30-11:00

- 16:30-16:50 The Use of Event-Driven Taxonomy (EDT) in Effect-Directed Analysis (EDA)
Jing You, Jinan University
- 16:50-17:05 Polycyclic Aromatic Hydrocarbons Exposure, Oxidative Potential in Dust, and Their Relationships to Oxidative Stress in Human Body, a Case Study in Indoor Environment of Guangzhou, South China
Ying Guo, Jinan University
- 17:05-17:20 The Bioavailability of Perfluorinated Compounds in Soil
Xinyi Cui, Nanjing University
- 17:20-17:35 Dioxin Emissions from Mismanaged Solid Fuel Burning and Their Exposure Risks
Qing Li, Fudan University
- 17:35-17:50 Occurrence of Neonicotinoid Insecticides and Their Metabolites in Human Urine, Foodstuff, and the Environment
Tao Zhang, Sun Yat-sen University
- 17:50-18:00 Screening of 4 Newly Identified Compounds in Residential Dust and Assessment of Human Exposure
Christina Christia, University of Antwerp



**POSTER
ON NOVEMBER 09**



Poster Session

Sampling and Analysis

92976

Simultaneous Sample-Preparation Method for the Determination of Endocrine Disruptors (Chlorinated Paraffins, Phthalates and Bisphenols) in Textile

Jakub Tomasko, University of Chemistry and Technology Prague

93056

Interlaboratory Comparison on Short Chain Chlorinated Paraffin Using a Candidate Reference Material as Standards for Quantification: Preliminary Findings

Nobuyasu Hanari, National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technology (NMIJ/AIST)

93428

Automated Sample Processing of Persistent Organic Pollutants without Dichloromethane and Low Volume Solvent Use

Rudolf Addink, Fluid Management Systems

93639

Assessment of Atmospheric Coplanar PCBs Concentration Levels and Pollution Characteristics in Shanghai Background Area Using Passive Air Sampler

Walian Mao, Bioassay and Safety Assessment Laboratory, Shanghai Academy of Public Measurement

93744

Study on Key Influencing Factors of Indirect Thermal Desorption of Petroleum Hydrocarbon Contaminated Soil

Rong Wang, Zhejiang University

93756

Development of Dedicated Dioxins/PCBs Analysis Software (1) Dioxins Analysis Application With GC/MS/MS

Koji Okuda, JEOL Ltd.



93758

Development of Dedicated Dioxins/PCBs Analysis Software (2): PCBs Analysis Application with GC/MS/MS

Koji Okuda, JEOL Ltd.

93795

Determination of Dioxins in Fish Samples Using an Automatic Sample Preparation System

Tomoaki Tsutsumi, National Institute of Health Sciences

93819

The Potential of Soft Ionizations for Analyzing Chlorinated Paraffins

Yun Zou, Liege University

93861

Atmospheric Concentrations of Polybrominated Diphenyl Ethers (PBDEs) in Urban and Background Areas from South Korea

Kwang Su Park, National Institute of Environmental Research

93866

Monitoring of Perfluoroalkylated Substances in Tap Drinking Water in the Czech Republic

Darina Dvorakova, University of Chemistry and Technology Prague

93914

Atmospheric PCBs, PCNs, SCCPs, and MCCPs In Kyoto, Japan: Gas/Particle Partitioning

Junichiro Koshiba, Kyoto University

93994

Behaviour and Removal of Volatile Methyl Siloxanes In WWTPs

Nuno Ratola, LEPABE - Faculty of Engineering of the University of Porto

94391

Reassessment on Kinetics of Accumulation and Depletion of Dioxins in Eggs of Laying Hens
Chu Wang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

95174

Short- and Medium-Chain Chlorinated Paraffins in Polyvinyl Chloride-Based Consumer Products on the Japanese Market
Hidenori Matsukami, National Institute for Environmental Studies, Japan

98011

Dioxins (PCDD/Fs) and Dioxin-Like-Like PCBs (dl-PCBs) in Free-Ranged Chicken Eggs from Toxic Hotspots of Java
Yuyun Ismawati, Nexus3 Foundation

98076

Study on Dioxin Emission Reduction Technology and Mass Balance in Municipal Solid Waste Incineration System
Yunchen He, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98293

Investigative Monitoring and Preliminary Risk Assessment of Persistent Organic Pollutants in Baiyangdian Lake
Li Qi, National Research Center for Environmental Analysis and Measurement

98544

Development of a Selective-Purification Procedure Using Solubility Parameter as Indicator for the Analysis of Microplastics in Sediments
Li-Mei Cai, National Institute of Metrology

99037

Occurrence and Source Implications of PM_{2.5}-Bound Polyhalogenated Carbazoles(PHCZs) in Beijing, China
Peijie Zuo, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

A decorative header image showing a row of terracotta warrior statues from the Qin Dynasty, arranged in a line and facing forward. They are wearing traditional armor and helmets.

99191

Determination of Polyhalogenated Carbazoles in Soil Using Gas Chromatography-Triple Quadrupole Tandem Mass Spectrometry

Zhiguang Zhou, National Research Center for Environmental Analysis and Measurement

99193

PFAS in Synthetic Outdoor Wear from China, Indonesia and Russia

Jitka Straková, International Pollutants Elimination Network (IPEN)

99212

Optimization of Determining Method for PFOA and PFOS in Soil and Sediment

Wenlong Yang, National Research Center for Environmental Analysis and Measurement

Formation and Emissions

93348

The Pollutants Emission during Ketamine Thermal Degradation

Song Hou, State Key Laboratory of Environmental Criteria and Risk Assessment, Chinese Research Academy of Environmental Sciences

93727

Low Temperature Catalytic Oxidation of Polychlorodiphenyls in Waste Incineration Flue Gas

Xingshuang Liu, Beihang University

93787

The Generation and Interaction of Combustion Pollutants during Co-Incineration of Industrial Organic Solid Waste

Pengtao Cai, Zhejiang University

93788

Suppressing the Formation of POPs by N/S-Containing Polymer Inhibitors during the Iron Sintering

Congcong Zhang, School of Space and Environment, Beihang University

93844

Airborne Emission of PBDEs and Microplastics from the Waste Treatment Facilities

Takashi Yamamoto, National Institute for Environmental Studies

93918

Scenario Analysis of PCB Emission Reduction Effects of Countermeasures in Japan

Junichiro Koshiba, Kyoto University

98826

Formation of Hexachlorobutadiene in Polystyrene Combustion

Yanting Shen, Zhejiang University of Technology

99083

Emission of Perfluoroalkyl Acids and Volatile Methyl Siloxanes from Commercial-Scale Biogas Plant Handling Food Waste

Hidenori Matsukami, National Institute for Environmental Studies, Japan

Environmental Persistent Free Radicals

95010

Organic Pollutants in Saudi Environment, Research and Data Gaps

Nadeem Ali, Centre of Excellence in Environmental Studies, King Abdulaziz University

96153

Efficient Removal of Bisphenol S by Non-Radical Activation of Peroxydisulfate in the Presence of Nano-Graphite

Ziyu Zhang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



97262

Important Effects of Metal Oxides on the Formation and Stabilization of Environmentally Persistent Free Radicals

Shuting Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

97442

Study on Pollution Characteristics of Environmentally Persistent Free Radicals of PM_{2.5} in Xian

Hao Li, Shaanxi University of Science & Technology

98323

The Effect of CaO in the Formation of Environmentally Persistent Free Radicals from Photo- and Thermo- Chemical Reactions of Catechol

Linjun Qin, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98348

Formation Mechanisms of Chlorinated Polycyclic Aromatic Hydrocarbons

Rong Jin, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences

98897

Study on the Formation Mechanism of Secondary EPRs in Atmospheric Particulate Matter Exposed to Sunlight

Jing Ai, School of Environment, Beijing Normal University

98963

Environmental Persistent Free Radicals in PM_{2.5} from Typical Combustion Emissions: Oxidative Stress and Health Risks

Zhen Zhao, Nanjing University of Information Science & Technology

POPs in Polar Regions: Arctic, Antarctic, and the Tibetan Plateau

93104

Occurrence and Distribution of PHCZs in Tibetan Plateaus Soils Along The Eastern Slope of Mt. Qionglai

Mingkai Liu, College of Environmental Science and Engineering, Qingdao University

94273

Occurrence and Characteristics of Chlorinated Paraffins in Atmosphere Samples from Antarctic Regions

Lu Jiang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

96090

Accumulation and Influencing Factors of Novel Brominated Flame Retardants in Soil and Vegetation from Fildes Peninsula, Antarctica

Siyuan Xiong, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

97058

Occurrences, Sources and Transport of Organophosphate Esters in the Sediment of Ny-Ålesund and Kongsfjorden, the Arctic

Jie Fu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98484

Trophic Magnification of PFASs in a Terrestrial Food Chain from the Tibetan Plateau

Kai Huang, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences

100099

Temporal Trend, Gas/Particle Partitioning and Source Implication of Atmospheric Organophosphate Esters In The Western Antarctic Peninsula Over 2014-2018

Chu Wang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



100159

Occurrence, Transport, Partitioning and Historical Record of Per-and Polyfluoroalkyl Substances in a Glacier-Lake System in the Tibetan Plateau

Mengke Chen, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

100172

Spatiotemporal Variations of Surface Ozone and Its Influencing Factors Across the Tibetan Plateau: a Geodetector-Based Study

Yunqiao Zhou, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

Toxicology and Epidemiology

93066

Effect of TCDD Exposure in Feed on Blood Metabolomics in Cows

Xiaoxu Hu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93076

2, 3, 7, 8-Tetrachlorodibenzo-p-Dioxin Exposure Influenced the Differentiation and Function of Type 3 Innate Lymphoid Cells

Yunping Li, School of environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences

93078

2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) Inhibits the Migration of Glioblastoma Via AhR-IL24 Axis

Yiyun Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93079

Effects of 1,3,6,8-Tetrabromo-9H-Carbazole on the Hypoxia Inducible Factor 1 Pathway

Tong Xu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93080

Impact of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin on Acetylcholinesterase Based on Contractile Rat Primary Skeletal Muscle Cells

Ruihong Zhu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93081

Interference and Mechanisms of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin on Migratory of Human Neuroblastoma Cells

Siqi Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93082

Gestational and Lactational Exposure To 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Mice: Neurobehavioral Effects on Female offspring

Guanglei Yang, Research Center for Eco-Environment Sciences, Chinese Academy of Sciences

93083

Effects of Perinatal Dioxin Exposure on Gut Microbiota in offspring and Mother Mice

Jiao Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93392

Effect of Serum Dioxins and Polychlorinated Biphenyls on Semen Parameters Among Chinese Men with Childbearing Age

Wencheng Cao, Hubei Provincial Center for Disease Control and Prevention

93761

Association of Serum Concentration of PCDD/Fs With Thyroid Hormones In Pregnant Women

Xiao Liu, Hubei Provincial Center for Disease Control and Prevention

93775

2,3,7,8-Tetrachlorodibenzo-p-Dioxin Exposure Leads to Abnormal Expression of Neurofilament Light in Neuronal Cells Via AhR/MAPK Pathways

Yangsheng Chen, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



94225

Evaluation of Early Biomarkers of Atherosclerosis Associated with Polychlorinated Biphenyl Exposure: an in Vitro and in Vivo Study

Yang Song, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

94575

Novel Per- and Polyfluoroalkyl Substances (PFASs) Alternatives Induce Diverse Effects on Differentiation of Human Bone Marrow Mesenchymal Stem Cells by Disturbing PPARs

Hui Qin, Dalian University of Technology

94752

Assessment of the Effects of TBBPA and Its Substitutes/Derivatives on the Wnt Pathway with a Human Cardiac Differentiation Model

Miaomiao Zhao, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

94767

TBBPA and Its Commonly Used Analogs Do Not Disrupt Human Embryonic Stem Cell Liver Development at Nanomolar Levels

Shichang Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

95130

Assessment of the Developmental Embryo Toxicity of Neonicotinoids and Their Metabolites

Shuxian Zhang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

95740

A Case-Control Study on the Association of Mineral Elements Exposure and Thyroid Tumor and Goiter

Mei Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98093

Regulation of Aryl Hydrocarbon Receptor Signaling Pathway and Dioxin Toxicity by Novel Agonists and Antagonists

Yin Liu, Hangzhou Institute for Advance Study, UCAS

98214

Effects of Particulate Matter with Different Sizes on Lung Epidermal Cell in Fog-Haze Weather in Beijing

Lei Zheng, National Research Center of Environmental Analysis and Measurement, Sino-Japan Friendship Center for Environmental Protection

98627

Nanotoxicity of Black Phosphorus Quantum Dots in Zebrafish Embryo-Larvae

Xiaoxi Yang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

100452

Effects of 3-Tert-Butyl-Hydroxyanisole Exposure on Glucose Metabolism in HK-2 Cells

Xiaoyun Wang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

92721

Inflammatory Response and Immunotoxicity of Lung Tissue in Rats Induced by Low Dose Hydrogen Sulfide Exposure

Jingjing Fang, Navy Medical Centre

93731

Organochlorinated Compounds in Brazil - UHT Milk Samples from Rio De Janeiro City Supermarkets

João Paulo Machado Torres, UFRJ



94624

Data Integration Analyses of Transcriptomics Data From Toxicogenomic Studies as Tools for Toxicity Mechanism Insights

Yuanping Lu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98416

A Chemo-Centric View of Molecular Recognition of G Protein-Coupled Estrogen Receptor by Selected Bisphenols

Xiuchang Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98523

The Adverse Effects of Low-Dose Exposure to 3, 3', 4, 4', 5-Pentachlorobiphenyl on Cardio-vascular System and the Underlying Mechanisms

Yanhong Wei, Sun Yat-sen University

Implementation of the Stockholm Convention

108282

Performance Support Mechanism for DIOXIN Reduction

Danlie Jiang, Xi'an Technological University



**PROGRAM
ON NOVEMBER 10**



November 10

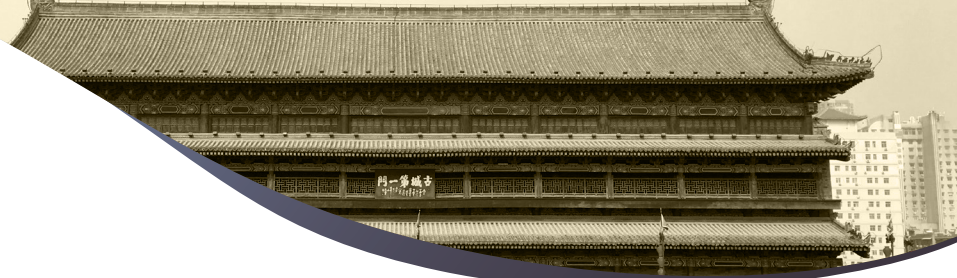
Grand Ballroom 6 (First Floor)

09:00-10:30	Plenary Speech
EST 21:00-22:30	Chair: Daqiang Yin
CET 02:00-03:30	

09:00-09:45	Metabolic Reprograming in 2,3,7,8-Tetrachlorodibenzo-p-Dioxin-Induced Hepatotoxicity <i>Timothy Richard Zacharewski, Michigan State University</i>
09:45-10:30	Theory and Methodology Identification of Emerging Organic Pollutants <i>Ting Ruan, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>

10:30-10:50	Coffee Break
10:50-12:00	Exposure and Risk Assessment
EST 21:50-23:00	Session Chairs: Bixian Mai, Lei Wang
CET 03:50-05:00	

10:50-11:10	Microplastics as a Carrier for POPs in Bioaccumulation: True or False? <i>Jay Gan, University of California Riverside</i>
11:10-11:30	E-Waste Driven Pollution of Liquid Crystal Monomers: Environmental Occurrence and Human Exposure in Recycling Industry Park <i>Lei Wang, Nankai University</i>



11:30-11:45	Microplastic Effects the Mobility of Organic Pollutants and Their Combined Toxicity <i>Qiqing Chen, East China Normal University</i>
11:45-12:00	PFOS Induced Developmental Toxicity and Lipid Metabolism Dysregulation in Zebrafish Embryos <i>Qian Luo, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences</i>
12:00-14:00	Lunch
14:00-15:00	Poster (Grand Ballroom 6)
15:00-16:15	Exposure and Risk Assessment
EST 02:00-03:15 CET 08:00-09:15	Session Chairs: Qian Luo, Jingguang Li
15:00-15:20	Per- and Polyfluoroalkyl Substances, Thyroid Hormones, Estrogens and Infant Growth <i>Yuanyuan Li, Huazhong University of Science and Technology</i>
15:20-15:40	Serum Concentrations of Emerging and Legacy Per/Polyfluoroalkyl Substances in Relation to Thyroid Function and Lipid Profiles <i>Jiaying Liu, China Agricultural University</i>
15:40-15:55	Temporal Trend of PCDD/Fs and dl-PCBs in Human Breast Milk from China during the Period of 2007-2019 <i>Lei Zhang, National Center for Food Safety Risk Assessment</i>
15:55-16:05	Bayesian Optimization of Physiologically Based Pharmacokinetic Models of Dioxin Exposure in Chinese Population <i>Tao Ying, Fudan University</i>

16:05-16:15 Mechanisms for Tissue-Specific Accumulation and Phase I/
II Transformation of 6:2 Fluorotelomer Phosphate Diester in
Earthworm (*M. Guillelmi*)
Yumin Zhu, Nankai University

16:15-16:30 Coffee Break

16:30-18:00 Exposure and Risk Assessment
EST 03:30-05:00 Session Chairs: Yuanyuan Li, Jiaying Liu
CET 09:30-11:00

16:30-16:45 Influence of Our Daily Routine in the Concentrations and
Exposure to Volatile Methyl Siloxanes (VMSs) Indoors
Francisco Sanchez Soberon, University of Porto

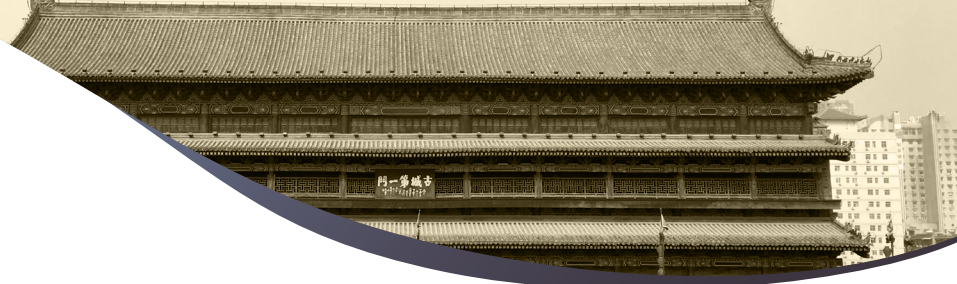
16:45-17:00 Occurrence, Distribution and Human Exposure of Several Endo-
crine Disrupting Chemicals in Indoor Dust: a Nationwide Study
*Qingqing Zhu, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences*

17:00-17:15 Endocrine Disrupting Toxicity of Triphenyltin from the Per-
spective of Species Evolution: Aquatic, Amphibious and Mam-
malian
Zhihua Li, Shandong University

17:15-17:30 Feminine Hygiene Products—a Neglected Source of Phthalate
Exposure in Women
Chong-Jing Gao, Zhejiang Wanli University

17:30-17:40 Chemical Exposure Profile in Human Blood, Are We at Risk?
Josefin Engelhardt, Stockholm University, ACES

17:40-17:50 Probabilistic Health Risk Assessment for Ingestion of Polybro-
minated Diphenyl Ethers Bound to House Dust
Mesut Genisoglu, Izmir Institute of Technology



- 17:50-18:00 Occurrences and Estimated Dietary Intakes of Polychlorinated Naphthalenes in Aquatic Foods
Cui Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Meeting Room 15 (Second Floor)

- | | |
|---|---|
| 10:50-12:45
EST 21:50-23:45
CET 03:50-05:45 | Session: POPs in Polar Regions: Arctic, Antarctic, and the Tibetan Plateau
Session Chairs: Ruiqiang Yang, Xiaoping Wang |
| 10:50-11:05 | Probing the Thermodynamics of Biomagnification in Captive Polar Bears by Equilibrium Sampling of Dietary and Fecal Samples
<i>Frank Wania, University of Toronto</i> |
| 11:05-11:20 | Investigating the Atlantic to Arctic transfer of POPs
<i>Rainer Lohmann, University of Rhode Island</i> |
| 11:20-11:35 | Time Trends of Persistent Organic Pollutants (POPs) and Chemicals of Emerging Arctic Concern (CEAC) in Arctic Air from 25 Years of Monitoring
<i>Haley Hung, Environmental and Climate Change Canada</i> |
| 11:35-11:50 | The Application of Steady-State Partitioning Theory in the Arctic Research
<i>Yifan Li, Harbin Institute of Technology</i> |
| 11:50-12:05 | Recent Progresses and Activities in AMAP/HTAP with Regard to Emission and Atmospheric Transport POPs for Arctic Concern
<i>Jianmin Ma, Peking University</i> |
| 12:05-12:15 | Fate of PAHs and the Oceanic Modulation in the Changing Arctic
<i>Minggang Cai, Xiamen University</i> |

12:15-12:25 *Novel Brominated Flame Retardants (NBFRs) in Soil and Moss of the Two Slopes in MT. Shergyla, Southeast Tibetan Plateau*
Ruiqiang Yang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

12:25-12:35 Regional Cycling of Microplastics in a Remote Lake Basin of the Tibetan Plateau: Impacts of Atmospheric Transport and Glacial Melting
Huikang Dong, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

12:45-14:00 Lunch

14:00-15:00 Poster (Grand Ballroom 6)

15:00-15:45 Session: Implementation of the Stockholm Convention

EST 02:00-02:45 Session Chairs: Yawei Wang, Roland Weber

CET 08:00-08:45

15:00-15:15 China's Role in Reducing Emission of Dioxin in The World
Rongrong Lei, Hangzhou Institute for Advanced Study, UCAS

15:15-15:30 Global Control of Dioxin in Wastes Is Inadequate: a Waste Incineration Case Study
Petrlik J, International Pollutants Elimination Network (IPEN)

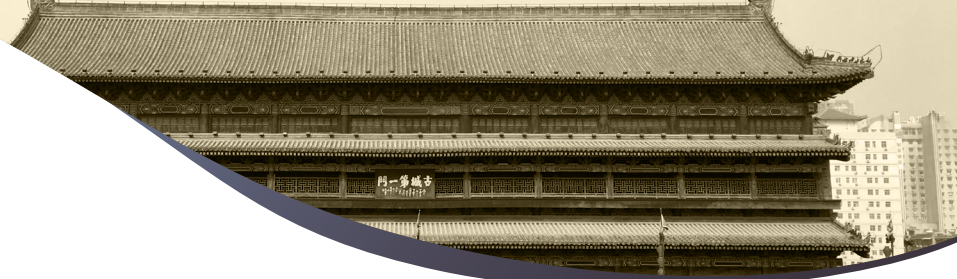
15:30-15:45 Distribution and Risk Assessment of the Stockholm Convention Pesticide POPs Endosulfan in Soils from Cotton Fields of the Yangtze River Basin, China
Yang Zhang, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment

16:00-16:30 Coffee Break

16:30-18:00 Session: Implementation of the Stockholm Convention

EST 03:30-05:00 Session Chairs: Jinhui Li

CET 09:30-11:00



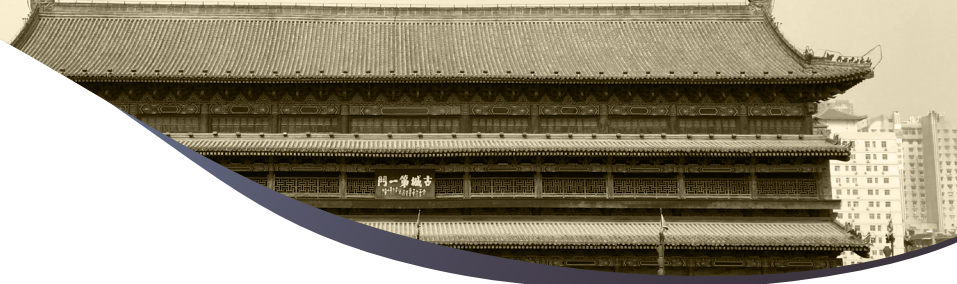
- 16:30-16:50 Mapping Needs for Scientific Evidence for Enhancing the Implementation of The Stockholm Convention
Zhanyun Wang, ETH Zürich
- 16:50-17:05 Steps Toward a Global Science-Policy Body Chemicals and Waste
Martin Scheringer, ETH Zürich
- 17:05-17:20 Monitoring of PFAS in Core Matrices of the Stockholm Convention
Heidelore Fiedler, Örebro University
- 17:20-17:35 A Web-based Database Exposure to Persistent Organic Pollutants in China
Zhaomin Dong, Beijing University of Aeronautics and Astronautics
- 17:35-17:50 The Progress and Challenge of POPs Waste Management in China
Zheng Peng, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment

Meeting Room 16 (Second Floor)

10:50-12:00 Session: Control Strategies and Technologies
EST 21:50-23:00 Session Chairs: Hongwen Sun, Rong Ji
CET 03:50-05:00

- 10:50-11:10 Synergistic Removal of 1,4-Dioxane and Chlorinated Organic Compounds in Water
Youneng Tang, Florida State University
- 11:10-11:30 cVOCs Remediation from the Perspective of Hydrogeology and Engineered Applications
Scott T. Potter, Arcadis, USA

11:30-11:50	Software Tools for Facilitating Detection of Persistent Organic Pollutants Contamination in Human and Animal Food <i>Huixiao Hong, Food & Drug Administration</i>
11:50-12:00	The Influence Gas-phase Dioxin Adsorption from Pore Parameters of Activated Carbon: Characteristics and Efficiency <i>Peiyue Wang, Zhejiang University</i>
12:05-14:00	Lunch
14:00-15:00	Poster (Grand Ballroom 6)
15:00-16:05	Session: Control Strategies and Technologies
EST 02:00-03:05 CET 08:00-09:05	Session Chairs: Hongwen Sun, Rong Ji
15:00-15:20	Anaerobic and Aerobic Biodegradation of Chloroethenes: Processes, Monitoring Methods, and Field Application <i>Andreas Tiehm, Karlsruhe Institute of Technology</i>
15:20-15:40	Degradation of Perfluorinated Compounds by Advanced Reduction Reaction <i>Cheng Gu, Nanjing University</i>
15:40-15:55	Performances of a Membrane-less Microbial Electrolysis Cell For CAHs Removal Operated with Synthetic and Real Groundwaters <i>Marco Zeppilli, Univerity of Rome Sapienza</i>
15:55-16:05	Complete Debromination of Polybrominated Diphenyl Ethers by Bioaugmentation with Dehalococcoides in a Sediment Microcosm <i>Guofang Xu, National University of Singapore</i>
16:05-16:30	Coffee Break



16:30-17:55 Session: Control Strategies and Technologies
EST 03:30-04:55 Session Chairs: Hongwen Sun, Rong Ji
CET 09:30-10:55

16:30-16:50 Formation and Nature of Non-extractable Residues: Implications for Removal of Emerging Organic Contaminants from Soil
Rong Ji, Nanjing University

16:50-17:10 Performance and Mechanism of Hexachlorocyclohexane Degradation by Persulfate Catalyzed by Nano Zero Valent Iron Enhanced by N/P Doped Carbon
Hongwen Sun, Nankai University

17:10-17:25 Inhibition of Fine Particle and Dioxin Emissions from the Hazardous Waste Treatment by a Multi- Flameless-thermal Processes and an Advanced End-of-pipe System
Shenglun Lin, Beijing Institute of Technology

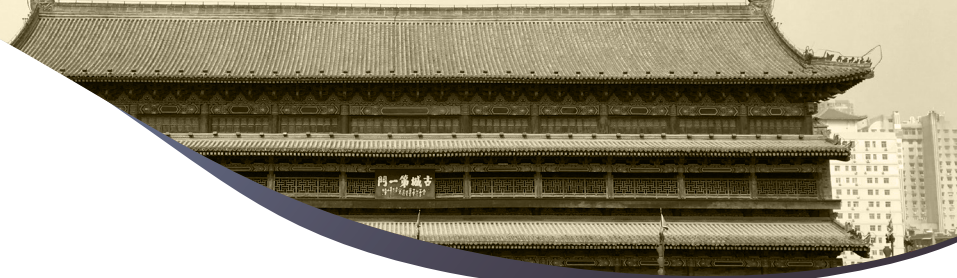
17:25-17:35 Field Investigation and Laboratory Development of VOx/TiO₂ Catalyst at Low Temperature: Decomposition and Kinetics Analysis of PCDD/Fs and 1,2-DCBz
Yunfeng Ma, Zhejiang University

17:35-17:45 Adsorption of PCDD/F on Nitrogen-doped Biochar: a DFT-D Study
Shijian Xiong, ZheJiang Univiersity

Meeting Room 17 (Second Floor)

10:50-11:55 Session: Screening and Recognition of Novel Contaminants
EST 21:50-22:55 Session Chairs: Chunyang Liao, Xinyi Cui
CET 03:50-04:55

10:50-11:10	Establishment of a Target, Suspect, and Functional Group-Dependent Screening Strategy for Organophosphate Esters (OPEs), and Its Applications in Real Environmental Samples <i>Guanyong Su, Nanjing University of Science and Technology</i>
11:10-11:25	Spatial Pattern Analysis Reveals Multiple Sources of Organophosphorus Flame Retardants in Coastal Water <i>Juying Li, Shenzhen University</i>
11:25-11:40	Multimedia Distribution of PFASs in Dagang Oilfield: TOP Assay and Non-target Analysis <i>Yiming Yao, Nankai University</i>
11:40-11:55	Screening of Organic Pollutants with Significant Differences in the Gas Phase and Size-fractioned Particulate Matters in Ambient Air <i>Lin Qiao, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
12:00-14:00	Lunch
14:00-15:00	Poster (Grand Ballroom 6)
15:00-16:10	Session: Screening and Recognition of Novel Contaminants
EST 02:00-03:10	Session Chairs: Chunyang Liao, Jingchuan Xue
CET 08:00-09:10	
15:00-15:20	Enhanced In-source Fragmentation Annotation (EISA) Based Endogenous Exposome Mapping <i>Jingchuan Xue, GuangDong University of Technology</i>
15:20-15:35	Semi-Volatile POPs Non-Targeted Screening by GC-APCI-HRMS Trapped Ion Mobility Spectrometry <i>Fan Yang, the Institute of Analytical Sciences and Physico-Chemistry for Environment and Materials (IPREM)</i>



15:35-15:50	Non-Target Screening of Organic Contaminants in Top Predator Fish from The Western Indian Ocean <i>Randolph Singh, Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)</i>
15:50-16:00	Organic Iodine Compounds in Fine Particulate Matter from a Continental Urban Region: Insights Into Secondary Formation in the Atmosphere <i>Xiaodi Shi, Peking University</i>
16:00-16:10	Triclosan Degradation Employing Advanced Oxidation Processes: Assessment of Dioxins and Furans (PCDD/Fs) Formation <i>Sophie Schröder, University of Cantabria</i>
16:15-16:30	Coffee Break
16:30-18:00	Session: Distribution, Transport and Fate
EST 03:30-05:00	Session Chair: Yongping Zeng
CET 09:30-11:00	
16:30-16:50	Mechanisms of Uptake, Translocation and Biotransformation of Organophosphate Esters in Wheat <i>Lingyan Zhu, Nankai University</i>
16:50-17:05	Probing Legacy and Alternative Flame Retardants in the Air of Chinese Cities <i>Shizhen Zhao, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences</i>

- 17:05-17:20 An Overview of Spatio-Temporal Trends of Per- and Polyfluoro-alkyl Substances (PFAS) in Belgian Wastewater Using Suspect and Non-Target Screening Approaches
Yunsun Jeong, University of Antwerp
- 17:20-17:30 Ambient Air PBDE Concentrations Along an East-West Transect in Turkey
Ilknur Ayri, Izmir Institute of Technology
- 17:30-17:40 House Dust PBDE Levels and Estimated Gas Phase Concentrations in Schools
Özge Edebali, Izmir Institute of Technology
- 17:40-18:00 Assessment of Patterns of Toxic Equivalents in National Samples from Monitoring in Developing Countries
Heidelore Fiedler, Örebro University

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**POSTER
ON NOVEMBER 10**



Poster Session

Distribution, Transport and Fate

93552

Accumulation Profiles and Interspecies Comparison of Organohalogen Compounds in Eleven Whale Species Stranded at Japanese Coastal Waters

Tomoya Sunouchi, Center for Marine Environmental Studies, Ehime University

93692

Occurrence and Distribution of Per- and Polyfluoroalkyl Substances (PFAS) in Sea Sediment and Seawater from Bohai Sea

Lingyi Meng, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

93711

Seasonal Characteristics of Different Types of PAHs in Particle Phase of Air Around the Laizhou Bay, North China

Xinyuan Kang, School of Light Industry and Chemical Engineering

93773

Source Identification of PCDD/Fs in Soils Samples Around the MSWI in Shanghai, China

Lijuan Jia, Bioassay and Safety Assessment Laboratory, Shanghai Academy of Public Measurement

93774

Occurrence, Removal and Mass Balance of Substituted Diphenylamine Antioxidants in Wastewater Treatment Plants in Northeast China

Xue Zhang, Harbin Institute of Technology

93785

On the Identification of PCDD/F Sources in Free-Range Chicken Eggs

Anastasia Kudryavtseva, IPEE RAS



93821

Distribution Characteristics of Methylsiloxanes in Atmospheric Environment of Kanto Region, Japan: the Emission Source Apportionment

Yuichi Horii, Center for Environmental Science in Saitama

93824

Occurrence and Partitioning of Polyhalogenated Carbazoles in Dagu River, China

Yuxi Jia, College of Environmental Science and Engineering, Qingdao University

93959

Polyfluorinated Phosphate Diesters (diPAPs): Evaluation of the Transfer into Maize Plants

René Lämmer, Fraunhofer Institute for Molecular Biology and Applied Ecology IME

93980

Volatile Methylsiloxanes Distribution in the Water Line of A Wastewater Treatment Plant in Portugal

Gabriel Figueiredo Pantuzza , LEPABE - Laboratory for Process Engineering, Environment, Biotechnology and Energy, Faculty of Engineering, University of Porto

94244

Phosphorus Deficiency Promoted Hydrolysis of Organophosphate Esters in Plants

Qing Liu, Nankai University

94522

Study on the Migration and Transformation of Brominated Dioxins in the Soil-Plant System

Pinchuan Yang, Shanghai Academy of Public Measurement

95411

Assessment of Natural Attenuation of Polychlorinated Biphenyls in Harbors

Haruko Sakurama, Faculty of Bioenvironmental Sciences, Kyoto University of Advanced Science

96169

Modelling of Flame Retardants in Typical Urban Indoor Environments in China during 2010-2030
Zengwei Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

97402

Mechanistic Aspects Regarding the Ultraviolet Degradation of Polychlorinated Biphenyls
in Different Media: Insights from Carbon and Chlorine Isotope Fractionation
Yan-hong Zeng, Guangzhou Institute of Geochemistry

97887

Land-Use-Based Sources and Trends of Dissolved PCBs and OCPs in an Urbanized Water-
shed Using Passive Polyethylene Samplers
Wenlu Zhao, Zhejiang Gongshang University

98410

Aggregation Kinetics of Soot Particles Influenced by UV Irradiation in Wet Environment
Zhihui Duan, Research Center for Eco-Environmental Sciences, Chinese Academy of Science

99346

Occurrence and Source Apportionment of Novel and Legacy Poly/ Perfluoroalkyl Sub-
stances in Hai River Basin in China Using Receptor Models and Isomeric Fingerprints
Yao Li, College of Environmental Science and Engineering, Nankai University

100493

Biotransformation of Bisphenol AF in Pumpkin Seedlings after Hydroponic Exposure
Xingwang Hou, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



Exposure and Risk Assessment

94526

Contamination and Ecological Risk Assessment of Polybrominated Diphenyl Ethers in the North Pacific Ocean

Ling Tao, Shanghai Ocean University

93712

Perfluoroalkyl Substances in Greenhouse Vegetables with Long-Term Groundwater Irrigation Near Fluorochemical Plants in Fuxin, China

Jia Bao, Shenyang University of Technology

92235

Occurrence of Polychlorinated Naphtalenes in Food Products in Latvia and Dietary Exposure of the General Population

Dzintars Zacs, Institute of Food Safety, Animal Health and Environment "BIOR"

93010

Chlorinated Paraffins in Fish Oil-Based Food Supplements

Jakub Tomasko, University of Chemistry and Technology Prague

93133

Visual Toxicity of BDE-99 in Larval Zebrafish: an Adverse Outcome Mediated by Thyroid Hormone Signaling

Sheng Wei, Tongji University

93233

DIOXIN Exposure and Pulse Pressure in Early Pregnancy

Xiaofang Liu, Hubei Provincial Center for Disease Control and Prevention

93606

Dietary Intake of Dioxins by the Japanese Population in a Total Diet Study (1998–2020)

Yusuke Okamoto, National Institute of Health Sciences

93671

Multigenerational Mixture Effects of Lindane and PFOA on Lipid Metabolism of *Caenorhabditis Elegans*

Zhuo Li, Tongji University

93743

Levels and Profiles of Perfluoroalkyl Substances in Human Milk from Different Provinces of China

Yuxin Wang, China National Center for Food Safety Risk Assessment

93791

Polybrominated Diphenyl Ethers in Croatian Human Milk Samples

Marija Dvorščak, Institute for Medical Research and Occupational Health

93810

Assesment of 75 Persistent Organic Pollutants in Breast Milk from Two Urban Areas of the Czech Republic

Ondřej Pařízek, University of Chemistry and Technology Prague

93814

Effects of Algae Organic Matter on the Release of Polycyclic Aromatic Hydrocarbons from Microplastics

Zhiwei Li, Tongji University

93853

Hydroxylation of Polychlorinated Naphthalenes in Halowax by Mammalian Cytochrome P450 Monooxygenases

Harunobu Tsuduki, Kobe University

93872

Passive Sampling for Determining the Levels of Ambient PCDD/Fs and Their Source and Inhalation Risk in Shanghai, China

Xiaoyu Shen, Shanghai academy of public measurement



93896

Monitoring of Organophosphorus Flame Retardants and Halogenated Norbornenes in Black Plastic Toys, Kitchen Utensils and Other Objects of Everyday Use

Tomáš Gramblička, University of Chemistry and Technology Prague

93903

Police officer Exposure to Polycyclic Aromatic Hydrocarbons in Three Locations of the Czech Republic

Veronika Vondraskova, University of Chemistry and Technology, Prague, Faculty of Food and Biochemical Technology, Department of Food Analysis and Nutrition

93907

Transport of Polybrominated Diphenyl Ethers Across the Blood Brain Barrier in Vitro

Yaxian Zhao, Institute for Environmental Reference Materials, Environmental Development Centre of the Ministry of Ecology and Environment

93908

Benzo[a]Pyrene Exposure Impacts Anxiety-Like Behaviors and Lipid Metabolism in C57BL/6 Mice Brain

Fang Li, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences

93935

Exposure to Polybrominated Diphenyl Ethers through Boxed Sushi

Kazuhiro Tobiishi, Fukuoka Institute of Health & Environmental Sciences

93938

Exposure to Hexabromocyclododecanes from Boxed Sushi

Tamaki Sato, Fukuoka Institute of Health and Environmental Sciences

93942

Developmental Neurotoxicity and Related Mechanisms of Short-Chain Chlorinated Paraffins on Zebrafish Larvae(Danio Rerio)

Xinyue Yang, Tongji University

93992

Indoor Exposure to Environmental Contaminants from Household Dust in the Czech Republic

Martina Buresova, Department of Food Analysis and Nutrition, University of Chemistry and Technology Prague

94099

The Effects and Mechanisms of TPHP and TDCIPP on the Proliferation of MCF-7 Cell

Yajie Zhang, College of Environmental Science and Engineering, Tongji University

94518

Verification and in Silico Analysis of TOX21 PPAR γ HTS Data Using an Orthogonal Assay

Woo-Seon Song, Kyung-Hee University

94654

Phthalates in Indoor of Saudi Microenvironments Are a Cause of Concern for Long Term Exposure

Nadeem Ali, Centre of Excellence in Environmental Studies, King Abdulaziz University

95217

Transplacental Behaviors of Organophosphate Tri-esters and Their Metabolites Based on Paired Human Maternal and Cord Whole Blood

Xiaolei Wang, Chinese Research Academy of Environmental Sciences

96171

The Distribution Characteristics of Organophosphate Esters in One Typical Drinking Water Treatment Plant

Yuhao Bi, Shanghai University

96411

Plasma Concentrations of Chlorinated Persistent Organic Pollutants and Their Predictors in the General Population of Algiers, Algeria

El Hadia Mansouri, Algiers faculty of medicine



96423

External and Internal Human Exposure to PFOA and HFPOs Around a Mega Fluorochemical Industrial Park, China: Differences and Implications

Xuemin Feng, College of Environmental Science and Engineering, Nankai University

96549

Probing Mechanisms for the Tissue-Specific Distribution and Biotransformation of Perfluoroalkyl Phosphinic Acids in Common Carp (*Cyprinus Carpio*)

Menglin Liu, College of Environmental Science and Engineering, Nankai University

96978

Highly Elevated Levels of Medium-Chain Chlorinated Paraffins in Breast Milk from China

Lirong Gao, School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences

97216

Legacy and Emerging Organophosphorus Flame Retardants and Plasticizers in Frogs: Sex Difference and Parental Transfer

Bixian Mai, Guangzhou Institute of Geochemistry

97519

Concentrations of 2,3,4,7,8-Pentachlorodibenzofuran in the Blood of Yusho Patients Half a Century After the Incident

Tsuguhide Hori, Fukuoka Institute of Health and Environmental Sciences

97561

Predicting Per- and Polyfluoroalkyl Substances Concentrations in Liver Based on the Insights into Their Competitive Partition Between Liver and Serum

Yibo Jia, Nankai University

97576

Association Between Serum Levels of TSH and Free T4 and Per- and Polyfluoroalkyl Compounds Concentrations in Pregnant Women in Beijing, China

Aijing Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Science

97790

Bioaccumulation and Biotransformation of Emerging Per- and Polyfluoroalkyl Substances in Vertebrates and Mammals

Shujun Yi, Nankai University

98345

Presence of Chlorinated Paraffins in Different Function Areas in Residential Homes in Beijing, China

Lu Bai, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

98570

Analysis of the Difference Between Real-Time Dynamic Collection of Plastic Leachables and Traditional Plastic Additive Leaching Experiments

Pu Wang, Shenzhen International Graduate School, Tsinghua University

98870

Adolescent and Child Exposure to 22 Congeners of Polybrominated Diphenyl Ethers (PBDEs) in Serum

Jae-Eun Lim, Department of Marine Science and Convergence Engineering, Hanyang University

98986

Exposure to Short-, Medium-, and Long-Chain Chlorinated Paraffins *via* Formula Milk and Baby Food

Yadan Luo, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



100029

Accumulation Levels of Dioxins, Furans, and Polychlorinated Biphenyls in Foodstuffs from Chinese Markets: Estimation of Human Dietary Intakes

Shuai Sun, Dalian Institute of Chemical Physics, CAS

Control Strategies and Technologies

93077

New Mechanistic Insights into the Transformation of Reactive Oxidizing Species in UV/Sulfite System: Modeling and the Impact of MN(II)

Xiaohong Guan, Tongji University

93739

Degradation of Perfluoroalkyl Acids by Bacteria

Chisa Tanaka, Kobe University

93816

Dioxins in Waste from Chlor-Alkali Plant: a Case Study

Lee Bell, International Pollutants Elimination Network (IPEN)

93990

Preparation of Magnetic Metal Organic Framework $\text{Fe}_3\text{O}_4/\text{GO}@\text{ZIF-67}$ and its Adsorption Performance for Tetrabromobisphenol A

Sumei Li, Beijing University of Technology

94676

Pesticide in Flower Production: Are We Safe?

Patrícia Christina G Pereira, Universidade Federal do Rio de Janeiro

99344

Enhanced Nonradical Catalytic Oxidation by Encapsulating Cobalt into Nitrogen Doped Graphene: Highlight on Interfacial Interactions

Xiaoyong Yu, Nankai University

101243

Determination of Dioxins and Their Analogues in Hairy Crabs by Isotope Dilution High Resolution Gas Chromatography and High Resolution Mass Spectrometry (HRGC/HRMS)

Weijian Shen, Animal, Plant and Food Inspection Center (APFIC) of NanJing Customs

Screening and Recognition of Novel Contaminants

92736

Development of Novel Environmental Bioanalysis and Their Applications

Zhen Zhang, School of the Environment and Safety Engineering, Jiangsu University

93641

Prioritization Strategy for the Identification of New and Emerging Risk Chemicals on the Swedish Market

Jana Weiss, Stockholm University

93652

Benzophenone and Camphor UV-Filters in Human Urine

Katerina Urbancova, University of Chemistry and Technology in Prague, Faculty of Food and Biochemical Technology, Department of Food Analysis and Nutrition

93760

An Inter-Laboratory Study for the Determination of POP-BFR in Plastic Waste

Atsushi Takahashi, IDEA Consultants, Inc.



93805

Are Legacy PFAAs Being Replaced in Spain? Occurrence of Genx and Adona in Spanish Surface Water.

Alba Casillas, Group of Persistent Organic Pollutants, Department of Environment, CIEMAT

93833

Evaluation of Biota-Sediment Accumulation Factors (BSAFs) for Known and Unknown Organohalogen Compounds in Japanese Mussels

Akitoshi Goto, Center for Marine Environmental Studies (CMES), Ehime University

93852

Specific Accumulation of C₁₅-Based Chlordane-Related Compounds in the Liver of Wild Birds from Japan

Tue Nguyen, Center for Marine Environmental Studies, Ehime University

94905

Brominated Dioxins (PBDD/Fs) in Free Range Chicken Eggs from Sites Affected by Plastic Waste

Akarapon Teebthaisong, EARTH

98430

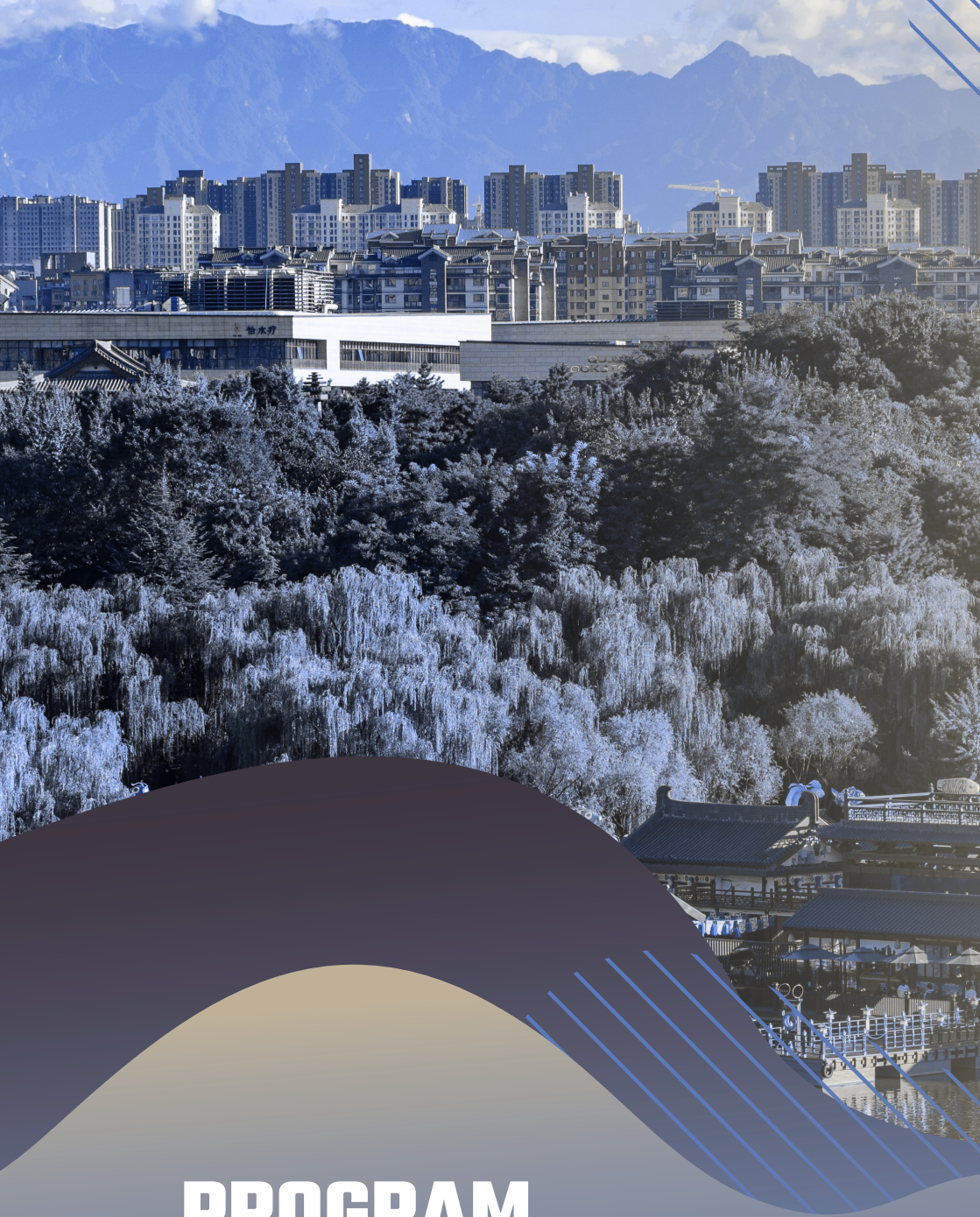
Non-Target Screening and Semi-Quantitative Analysis of Organic Pollutants in Dust from Internet Cafe Based on GC-QTOF/MS

Zichen Wu, College of Resource Environment and Tourism, Capital Normal University

99504

Environmental Health Risk Assessment Targeting on Rar Alpha

Jiahui Su, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



**PROGRAM
ON NOVEMBER 11**



November 11

Grand Ballroom 6 (First Floor)

09:00-10:40	Session: Toxicology and Epidemiology
EST 21:00-22:40	Session Chairs: Bin Zhao, Jiayin Dai
CET 02:00-03:40	
09:00-09:20	Models to Mechanisms: How Research in Diverse Species Has Informed Our Understanding of AhR Biology and Dioxin Toxicity <i>Mark Hahn, Woods Hole Oceanographic Institution</i>
09:20-09:40	Developmental Toxicology in a Dish: When Stem Cell Biology Meets Environmental Health Sciences <i>Guang Hu, National Institute of Environmental Health Sciences (NIEHS)</i>
09:40-10:00	Toxicity of Bisphenol Analogues the Reproductive, Nervous, and Immune Systems, and Their Relationships to Gut Microbiome and Metabolism <i>Tai Guo, University of Georgia</i>
10:00-10:20	Strategies for Grouping PFAS to Protect Human and Environmental Health <i>Ian Cousins, Stockholm University</i>
10:20-10:40	Persistent Organic Pollutants and Cardiometabolic Risk: From Toxicology to Systems Epidemiology <i>Qi Sun, Harvard School of Public Health</i>
10:40-10:50	Coffee Break



10:50-12:30
EST 21:50-23:30
CET 03:50-05:30

Session: Toxicology and Epidemiology

Session Chairs: Bin Zhao, Jiayin Dai

- 10:50-11:10 Current Understanding of PFAS Toxicology with Animal Models and Corresponding Findings in Epidemiological Surveys
Christopher Lau, United States Environmental Protection Agency
- 11:10-11:30 In Vitro and in Silico Assessment of the Interaction of PCBs and PBDEs with the Constitutive Androstane Receptor (CAR): Comparisons Across Species and Congeners
Hisato Iwata, Ehime University
- 11:30-11:50 Molecular Toxicological Effects of TCDD and Naturally Occurring Dioxin in Avian Embryo: AhR Isoform-Specific Immune Regulation
Eun-Young Kim, Kyung Hee University
- 11:50-12:00 Developmental Exposure of C57BL/6 Mice to DE-71 Interferes with Brain Thyroid Hormones in a Sex-Dependent Manner
Kozlova EV, University of California Riverside
- 12:00-12:10 Associations of Cardiovascular Disease Biomarkers with PFAS and Mixtures of Halogenated Pollutants in the Anniston Community Health Survey II (ACHS II)
Stephanie Morgan, Wayne State University School of Medicine
- 12:10-12:20 Global Metabolomic Reveal Metabolite Perturbations Associated with Dioxin Exposure in a Chinese Male Worker Cohort
Yanshan Liang, Beijing Normal University & Hong Kong Baptist University United International College

- 12:20-12:30 PFECAs as Novel PFAS Alternatives: Occurrence in Breast Milk and Exposure Risk for Infants in China Workers
Jingzhi Yao, Shanghai Jiao Tong University
- 12:00-14:00 Lunch
- 14:00-16:25 Session: Toxicology and Epidemiology
EST 02:00-04:25 Session Chairs: Aiqian Zhang
CET 04:00-09:25
- 14:00-14:20 The Impact of a Novel Brominated Flame Retardant TBPH Lipid Metabolism and Development of Nonalcoholic Fatty Liver Disease in Zebrafish
Bingsheng Zhou, Institute of Hydrobiology, Chinese Academy of Sciences
- 14:20-14:40 Disinfection By-Products in Different Waters during the Covid-19 Period and Their Impact Plankton
Yonghong Bi, Institute of Hydrobiology, Chinese Academy of Sciences
- 14:40-15:00 Cytotoxicity and Metabolism of Nanoparticles
Bin Hu, Wuhan University
- 15:00-15:20 Mass Spectrometry-Based Lipidomics Reveal Lipid Metabolism Disorders Associated with Dioxin Exposure in a Cohort of Chinese Male Workers
Jianqing Zhang, Shenzhen Center for Disease Control and Prevention
- 15:20-15:40 Lipid Dysmetabolism, a New Aspect for Studing Endocrine Disrupting Effects of Emerging Chemicals of Concern
Qunfang Zhou, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences



- 15:40-15:55 Probiotic Modulation of Lipid Metabolism Disorders Caused by Perfluorobutanesulfonate Pollution in Zebrafish
LianGuo Chen, Institute of Hydrobiology, Chinese Academy of Sciences
- 15:55-16:10 Toxicological Targets and Pathways of Per- and Polyfluorinated Compounds Identified by in Vitro Multipotent Differentiation of Human Mesenchymal Stem Cells
Liu Wei, Dalian University of Technology
- 16:10-16:25 Polyfluorinated Iodine Alkanes Mediate Secretion of Cytokines in Rat Cerebral Astrocytes
Qian Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

16:25-16:45 Coffee Break

16:45-17:52 Closing Ceremony & Awards Ceremony

16:45-17:33 Session Summary Chaired by Aiqian Zhang

16:45-16:53 Sampling and Analysis

Yeru Huang

16:53-17:01 Distribution, Transport and Fate

Jianmin Ma

17:01-17:09 Toxicology and Epidemiology

Jiayin Dai

17:09-17:17 Exposure and Risk Assessment

Lingyan Zhu

17:17-17:25 Implementation of the Stockholm Convention

Roland Weber

THURSDAY

17:25-17:37	Awards Ceremony Chaired by Yawei Wang
17:37-17:52	Closing Ceremony Chaired by Zongwei Cai
	DIOXIN2022 Promotion Video

Meeting Room 15 (Second Floor)

09:00-10:25	Session: Sampling and Analysis
EST 21:00-22:25	Session Chairs: Chunyang Liao, Bing Lv
CET 02:00-03:25	

09:00-09:20	Online Monitoring of PCDD/Fs Based on TD-GC-REMPI-TOFMS System <i>Xiaodong Li, Zhejiang University</i>
09:20-09:40	Preliminary Validation of Continuous Dioxin Sampling System in China <i>Zhiguang Zhou, National Research Center for Environmental Analysis and Measurement</i>
09:40-10:00	Understanding the Effects of Environmental Factors the Sampling Efficiency / Systematical Error of Monitoring of Trace Atmospheric Pollutants <i>Hang Xiao, Institute of Urban Environment, Chinese Academy of Sciences</i>
10:00-10:15	High Throughput Semi-Automated Sample Clean Up for PCDD/Fs and PCBs Analysis <i>Rudolf Addink, Fluid Management Systems</i>
10:15-10:25	Mass Balance Trend of Organobromine Compounds in a Sediment Core from Beppu Bay, Japan <i>Ito Kento, Kyoto University</i>



10:30-10:50	Coffee Break
10:50-12:00	Session: Sampling and Analysis
EST 21:50-23:00	Session Chairs: Yeru Huang, Xiaodong Li
CET 03:50-05:00	
10:50-11:05	<p>Trends and Perspectives in Per-and Polyfluorinated Alkyl Substances (PFASs) Determination: Faster and Broader</p> <p><i>Jianjie Fu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i></p>
11:05-11:20	<p>Advances of Diffusive Gradients of Thin-Films Technique (DGT) for Measuring Organic and Inorganic Pollutants</p> <p><i>Jun Luo, Nanjing University</i></p>
11:20-11:35	<p>Experimental Development for Extraction and Characterization of Microplastics in Commercial Seafood Species from China</p> <p><i>Ying Wang, National Marine Environmental Monitoring Center, Ministry of Ecology and Environment</i></p>
11:35-11:50	<p>Validation of a Gas Chromatography-Triple Quadrupole Mass Spectrometry Method for Confirmatory Analysis of Dioxins and Dioxin-Like Polychlorobiphenyls in Food Comparing with GC-HRMS</p> <p><i>Bing Lv, China National Center for Food Safety Risk Assessment</i></p>
11:50-12:00	<p>Development and Validation of a Method for the Analysis of Thirteen Organophosphorus Flame Retardants in Milk Using High Performance Liquid Chromatography Coupled with Triple Quadrupole Tandem Mass Spectrometry</p> <p><i>Xuelei Chen, Capital Medical University</i></p>
12:00-14:00	Lunch

14:00-15:00
EST 02:00-03:00
CET 07:00-08:00

Session: Sampling and Analysis
Session Chairs: Jingguang Li, Lirong Gao

14:00-14:15

The Fingerprints of Cytostatics on Hospital Surfaces over a Working Journey

M. Francisca Portilha-Cunha, LEPABE, FEUP

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Setting up RL2020: Interlaboratory Study of GC-MS/MS Analysis of Dioxins in Foods

Sean Panton, Fera Science Ltd

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PFAS in Soil Samples from Several Locations in Austria Tested by Chemical Analysis and Bioassay Using TTR TR-CALUX®

Peter Behnisch, BioDetection Systems

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Occurrence and Composition Profiles of Organic UV Filters in Human Breast Milk in China

Yang Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

15:00-16:05
EST 03:00-04:05
CET 08:00-09:05

Session: Implementation of the Stockholm Convention
Session Chairs: Yawei Wang

15:00-15:20

Toward a Scientific Alliance for Plastic and Related Chemical Pollution in Latin American Countries (LAC): Current Research Situation, International Conventions and the Recycling Informal Sector

Pozo K, RECETOX, Masaryk University

15:20-15:35

BFRs in Consumer Products Made of Recycled Plastic from Seven African Countries - Stockholm Convention Consequences

Petrlik J, International Pollutants Elimination Network (IPEN)



- 15:35-15:50 Make An Inventory Based Adjusted Dioxins Emission Factors to Better Evaluate the Effectiveness in China
Zhiyuan Ren, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment
- 15:50-16:05 Comparison of the Dioxins Air Release Inventories of China and Other Developed Countries
Peng Gao, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment

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Meeting Room 16 (Second Floor)

09:00-10:30 Session: Formation and Emissions
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- 09:00-09:30 Polyhalogenated Dibenzo-p-Dioxins and Polyhalogenated Furans (PXDD/Fs) – Not So New Concerns
Slawo Lomnicki, Louisiana State University
- 09:30-09:50 Electrophilic Chlorination of Aromatics in Combustion Flue Gas and Its Suppression Mechanism
Haijun Zhang, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
- 09:50-10:10 Environmental Emission of POPs and Microplastics from Controlled Final Disposal Sites in Japan
Natsuko Kajiwara, National Institute for Environmental Studies

10:10-10:30 Dioxins and Mercury in a Cement Plant: A Case Study in Anhui Province, China

Lifei Zhang, National Research Center for Environmental Analysis and Measurement

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10:50-12:00 Session: Formation and Emissions

EST 21:50-23:00 Session Chairs: Jiping Chen, Yifei Sun

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10:50-11:20 The Use of XAFS to Investigate the *de novo* Formation of Dioxins

Masaki Takaoka, Kyoto University

11:20-11:40 Detection of HBCD Contaminants in Haihe River Sediments and Its Photocatalytic Control by Pd Anchored Hollow-Rod-Like G-C₃N₄

Guijin Su, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

11:40-12:00 Investigation Chlorine-Poisoning Mechanism of O-Dcbz Catalytic Decomposition Over MnO_x/TiO₂ and MnO_x-CeO₂/TiO₂ Catalysts: Experiment and First-Principles Calculation

Qiulin Wang, University of Shanghai for Science and Technology

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14:00-14:30	Formation and Control of PCDD/Fs from Waste Incineration <i>Moobeen Chang, National Central University</i>
14:30-15:00	UPOPs Formation Mechanism and Control Technology for Industrial Thermal Process <i>Yifei Sun, Beihang University</i>
15:00-15:15	Inhibition Study <i>de novo</i> Synthesis of PCDD/Fs by One N-P-Containing Compound: Isomer Distribution, Carbon Gasification and Kinetics <i>Xiaoxiao Wang, Zhejiang University</i>
15:15-15:30	Role of Hypobromous Acid in the Transformation of Polycyclic Aromatic Hydrocarbons during Chlorination <i>Quanzhen Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
15:30-15:45	Evaluation of the Formation of Chlorinated Dioxins from the Incineration of Various Types of Plastic. <i>Ayano Terada, Kyoto University</i>
15:45-16:00	Emission Characteristics and Formation Pathways of Dioxins from Co-Combustion of Municipal Solid Waste in a Coal-Fired Power Plant <i>Yuxuan Ying, Zhejiang University</i>
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Yunyun Deng, Shanghai Academy of Public Measurement
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Xiaomin Li, Institute of Quality Standard & Testing Technology for Agro-Products, the Chinese Academy of Agricultural Sciences
- 09:50-10:05 Mass Balance of Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans (PCDD/Fs) during the Kraft Pulp Making Process in a Wood Chip Paper Mill
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- 10:05-10:20 Occurrence and Partitioning of Brominated Flame Retardants (BFRs) in Indoor Air and Dust
Liyan Liu, Harbin Institute of Technology
- 10:20-10:35 Occurrence and Fate of Diphenylamine Antioxidants in Various Canadian Wastewater Treatment Processes
Zifeng Zhang, Harbin Institute of Technology

- 10:35-10:50 Coffee Break
- 10:50-12:00 Session: Distribution, Transport and Fate
- EST 21:50-23:00 Session Chair: Da Chen
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10:50-11:05	High-throughput Measurements of Contaminants of Emerging Concern in Ambient PM _{2.5} from South China <i>Xiaotu Liu, Jinan University</i>
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Quan Zhou, Donghua University
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Lin Lin, Shenzhen International Graduate School, Tsinghua University

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Xinyi Cui	94108	Tuesday	15:20	Grand Ballroom 6
Xinyi Cui	100380	Tuesday	17:05	Meeting Room 17
Xinyuan Kang	93711	Wednesday	-	Poster
Xinyue Yang	93942	Wednesday	-	Poster
Xiuchang Liu	98416	Tuesday	-	Poster
Xue Li	100443	Tuesday	15:20	Meeting Room 17
Xue Zhang	93774	Wednesday	-	Poster
Xuele Chen	93778	Thursday	11:50	Meeting Room 15
Xuemin Feng	96423	Wednesday	-	Poster
Yadan Luo	98986	Wednesday	-	Poster
Yajie Zhang	94099	Wednesday	-	Poster

Name	Abstract No.	DAY	Time	Room
Yan Lin	98909	Thursday	11:05	Meeting Room 17
Yang Liu	99042	Thursday	14:45	Meeting Room 15
Yang Song	94225	Tuesday	-	Poster
Yangsheng Chen	93775	Tuesday	-	Poster
Yang Zhang	93898	Wednesday	15:30	Meeting Room 15
Yanhong Wei	98523	Tuesday	-	Poster
Yan-hong Zeng	97402	Wednesday	-	Poster
Yanshan Liang	97982	Thursday	12:10	Grand Ballroom 6
Yanting Shen	98826	Tuesday	-	Poster
Yao Li	99346	Wednesday	-	Poster
Yawei Wang	99630	Tuesday	10:50	Grand Ballroom 6
Yaxian Zhao	93907	Wednesday	-	Poster
Yi Wan	97889	Tuesday	15:00	Grand Ballroom 6
Yibo Jia	97561	Wednesday	-	Poster
Yifan Li		Wednesday	11:35	Meeting Room 15
Yifan Li	93983	Thursday	09:00	Meeting Room 17
Yifei Sun	102342	Thursday	14:30	Meeting Room 16
Yiming Yao	94122	Wednesday	11:25	Meeting Room 17
Yin Liu	98093	Tuesday	-	Poster
Ying Guo	100388	Tuesday	16:50	Meeting Room 17
Ying Wang	100703	Thursday	11:20	Meeting Room 15
Yiyun Liu	93078	Tuesday	-	Poster
Yongfa Zhu	99618	Tuesday	11:10	Meeting Room 16
Yonghong Bi	99190	Thursday	14:20	Grand Ballroom 6



Name	Abstract No.	DAY	Time	Room
Youneng Tang	94834	Wednesday	10:50	Meeting Room 16
Yu Sun	93693	Thursday	14:50	Meeting Room 17
Yuan Chen	98558	Tuesday	16:50	Meeting Room 16
Yuanping Lu	94624	Tuesday	-	Poster
Yuanyuan Li	98995	Wednesday	15:00	Grand Ballroom 6
Yuhao Bi	96171	Wednesday	-	Poster
Yuichi Horii	93821	Wednesday	-	Poster
Yumin Zhu	97547	Wednesday	16:05	Grand Ballroom 6
Yun Zou	93819	Tuesday	-	Poster
Yunchen He	98076	Tuesday	-	Poster
Yunfeng Ma	93740	Wednesday	17:25	Meeting Room 16
Yunping Li	93076	Tuesday	-	Poster
Yunqiao Zhou	100172	Tuesday	-	poster
Yunsun Jeong	97417	Wednesday	17:05	Meeting Room 17
Yunyun Deng	93732	Thursday	09:20	Meeting Room 17
Yusuke Okamoto	93606	Wednesday	-	Poster
Yuxi Jia	93824	Wednesday	-	Poster
Yuxin Wang	93743	Wednesday	-	Poster
Yuxuan Ying	97211	Thursday	15:45	Meeting Room 16
Yuyun Ismawati	98011	Tuesday	-	Poster
Zengwei Li	96169	Wednesday	-	Poster
Zhanyun Wang	94533	Wednesday	16:30	Meeting Room 15
Zhaomin Dong	94506	Wednesday	17:20	Meeting Room 15

Name	Abstract No.	DAY	Time	Room
Zhen Zhang	92736	Wednesday	-	Poster
Zhen Zhao	98963	Tuesday	-	Poster
Zheng Peng	100366	Wednesday	17:35	Meeting Room 15
Zhiguang Zhou	100645	Thursday	09:20	Meeting Room 15
Zhiguang Zhou	99191	Tuesday	-	poster
Zhihua Li	93645	Wednesday	17:00	Grand Ballroom 6
Zhihui Duan	98410	Wednesday	-	Poster
Zhiwei Li	93814	Wednesday	-	Poster
Zhiyuan Ren	99084	Thursday	15:35	Meeting Room 15
Zhongyu Guo	93742	Tuesday	11:50	Meeting Room 16
Zhuo Li	93671	Wednesday	-	Poster
Zichen Wu	98430	Wednesday	-	poster
Zifeng Zhang	93344	Thursday	10:20	Meeting Room 17
Ziyu Zhang	96153	Tuesday	-	Poster



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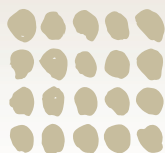
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