

# List of Corrections and Changes to DIOXIN2019 Program Book (August 29, 2019)

## Changes of session chairs

p.41, Human Exposure 1

Chisato Mori, Kai Hsien Chi

p.92, Levels and Trends (Abiotic 2)

Jerzy Falandysz

p.96, PFAS: Removal and Degradation

Anna Kärroman, Kiwao Kadokami

p.97, Formation, Sources and Control 2

Minghui Zheng, Tong Chen

p.101, PFAS: Exposure and Toxicology

Biljana Škrbić, Anna Kärroman

## Changes in Summary Speakers

p.112, Risk Assessment and Exposure

Govindan Malarvannan

p.112, Emerging POPs

Anna Kärroman

## Changes in Authors

p.48, 1-PS-022

Rudolf Addink, Waleed Hassan, Hamid Shirkhan, Phil Germansderfer

p.63, 2A-PM1-02

Sam Adu-Kumi, Jindrich Petrlík, Eric Akortia, Martin Skalský, Jana Pulkrabová, Jakub Tomáško, Lee Bell, Jonathan N. Hogarh, Dmitryi Kalmykov, Abel Arkenbout

p.70, 2B2-PM2-03

Garry Codling, Veronika Schacht, Jana Klanova

p.73, 2-PS-023

Rudolf Addink, Hamid Shirkhan, Tom Hall, Phil Germansderfer

p.90, 4A-AM-02

Yitao Pan, Jingzhi Yao, Leo Yeung, Jiayin Dai

## Changes of Presenters

p.39, 1B2-PM1-05

Peter A. Behnisch

p.41, 1C2-PM1-01

Christina Pinkston

p.48, 1-PS-022

Phil Germansderfer

p.49, 1-PS-082

Wenting Wang

p.52, 1-PS-175

Ipek Imamoglu

p.52, 1-PS-196

Moo-Been Chang

p.53, 1-PS-223

Jennifer Braeunig

p.61, 2C1-AM-04

Pi Li

p.63, 2A-PM1-02

Jonathan Hogarh

p.67, 2C2-PM1-02

Wenbin Liu

p.70, 2B2-PM2-04

Pu Wang

p.71, 2C1-PM2-05

Ingrid Ericson Jogsten

p.73, 2-PS-023

Phil Germansderfer

p.77 2-PS-176

Daniele S Wikoff

p.77, 2-PS-194

An-Yue Wang

p.81, 2-PS-311

Ken Sajwan

p.85, 3B1-AM-03

Ge Yin

p.86, 3B2-AM-03

Jochen Mueller

p.88, 3C2-AM-01

Lars Lind

p.90, 4A-AM-02

Leo V.W. Yeung

p.91, 4B1-AM-01

Bogdan Dlugogorski

p.91, 4B1-AM-02

Guorui Liu

p.102, 4B2-PM2-01

Nguyen Duy Dat

p.104, 3-PS-033

Makoto Ohashi

p.106, 3-PS-114

Haruna Nagayoshi

## Cancelled Presentations

1C1-PM1-01      1C1-PM1-03  
1C1-PM1-05      1C2-PM1-02  
1B2-PM2-02      1B2-PM2-03  
2A-AM-03        2B2-AM-04  
2C2-PM1-04      4B1-PM1-04  
4C1-AM-03        4C2-AM-01  
1-PS-013 1-PS-019 1-PS-109 1-PS-208  
1-PS-229 1-PS-265 1-PS-283 1-PS-292  
1-PS-319 1-PS-328 2-PS-014 2-PS-068  
2-PS-074 2-PS-140 2-PS-191 2-PS-221  
2-PS-254 2-PS-326 3-PS-060 3-PS-078  
3-PS-168 3-PS-201 3-PS-216 3-PS-246  
3-PS-312 3-PS-324

## Changes in Presentation Schedules/Types

From	To
4A-PM2-03	1C1-PM1-03
2C2-PM1-02	2C2-PM1-04
2A-AM-05	2A-AM-03
2C2-PM1-03	3-PS-201
4B1-PM2-04	1-PS-208
4C1-PM1-04	3-PS-321
1-PS-094	2B2-AM-04
1-PS-205	4B1-PM2-04
1-PS-250	4A-PM2-03
1-PS-268	2A-AM-05
1-PS-289	4C2-AM-01
2-PS-044	1C1-PM1-01
2-PS-146	1C2-PM1-02
2-PS-170	1C1-PM1-05
2-PS-206	2C2-PM1-02 + 2-PS-206
2-PS-251	4C1-PM1-04
2-PS-281	4C1-AM-03
3-PS-204	4B1-PM1-04
3-PS-321	2C2-PM1-03

## No-show

2B2-PM1-06 2C2-PM1-01

## Errata

p.16, (the) size of poster should be A0 size (841 mm X 1189 mm), the size of poster board is 900 mm (width) X 1900 mm (height).

p.20, Supporting Organization  
Kurita Water and Environment Foundation  
This program is supported by a subsidy from Kyoto City and the Kyoto Convention & Visitors Bureau.

p.53, p.78, p.109  
PFAS: Levels and **Transfer Transport**

p.84, 3A-AM-02  
PCB Waste Management **of in** Japan

p.99, 4C1-PM1-05 and 4C1-PM1-06  
4C1-PM1-05  
Determination of neonicotinoid insecticides in urine using semi-automated solid phase extraction coupled to UHPLC-MS/MS  
*Tomohiko Isobe, Miyuki Iwai-Shimada, Yayoi Kobayashi, Mai Takagi, Shoji F Nakayama*

4C1-PM1-06  
Endocrine disrupting chemicals: a costly public health threat with opportunities for policy prevention  
*Leonardo Trasande*

p.110, 3-PS-246R  
**PFAS: Levels and Transport**  
**Investigating the fate and emissions of wastewater treatment plant derived per- and polyfluoroalkyl substances (PFAS) in the marine environment**  
*Timothy Luke Coggan, Damien Moodie, Drew Szabo, Nicholas Crosbie, Bradley Clark, Jeff Shimeta*

p.111, 3-PS-285  
diastereomeric (delete tr)  
hexabromocyclododecanes (add s)

p.40 Monday, 14:00-16:00 at Room C-1  
Risk Assessment

Chairs: Derek Muir, Thomas Webster

1C1-PM1-01 (2-PS-044)

An ultra-high performance liquid chromatographic tandem mass spectrometric method for the determination of per- and polyfluoroalkyl compounds in infant formula and dairy products  
Ovokeroye Akpojevwe Abafe, Linda Macheka-Tendenguwo

1C1-PM1-02

Comparison of PPCPs occurrence and human health risk in drinking water between the urban and rural area or different seasons-a case study of China  
Xinshu Jiang, Jun Huang, Yingxi Qu

1C1-PM1-03 (4A-PM2-03)

Per-and polyfluorinated substances (PFASs) in the follicular fluid of Australian women and different concentrations with infertility etiology (reproductive health) in Queensland Australia  
Young Ran Kim, Nicole White, Soumini Vijayasarathy, Jennifer Braeunig, Christine Knox, Fiona Anne Harden, Rosana E. Pacella, Leisa Maree L. Toms

1C1-PM1-04

Toxicity thresholds for PPCPs, PFCs and pesticides via species sensitivity distributions  
Wenxing Zhao, Gang Yu, Bin Wang

1C1-PM1-05 (2-PS-170)

The effect of three types of water accommodated fraction on mortality, fecundity and lipid distribution in the copepod *Acartia tonsa*  
Tamer Amr Hafez, Maren Ortiz Zarragoitia, Robert Duran

1C1-PM1-06

Screening for persistent and Bioaccumulative chemicals of global concern with a focus on Asian industrial chemical inventories  
Xianming Zhang, Derek Muir, Xiangfei Sun, Ruifen Jiang, Eddy Zeng

p.41 Monday, 14:00-16:00 at Room C-2  
Human Exposure 1

Chairs: Chisato Mori, Kai Hsien Chi

1C2-PM1-01

Total dioxin toxic equivalency and sex are associated with biomarkers of hepatic lipid metabolism, inflammation, fibrosis, and function in a subset of ACHS-II participants  
Banrida Wahlang, Christina Pinkston, Shesh Rai, Marian Pavuk, Matthew Cave, Linda Birnbaum

1C2-PM1-02 (2-PS-146)

Atmospheric PCDD/Fs, PM<sub>2.5</sub> and their health effect in Taiwan  
Tuan-Hung Ngo, Wei-Ting Hsu, Yi-Na Lee, Yu-Hsuan Yang, Pei-Chun Tsai, Yune-Fang Ueng, Siao Yi Jin, Kuang-Wei Liu, Kai-Hsien Chi

1C2-PM1-03

Polychlorinated dioxins, furans (PCDD/Fs) and dioxin-like polychlorinated biphenyls (dl-PCBs) in maternal blood and breast milk from mothers living in Beijing, China  
Yan Bao, Lei Zhang, Xin Liu, Lei Shi, Jingguang Li, Yunfeng Zhao, Yongning Wu

1C2-PM1-04

Congenital permanent teeth deficiency in children of the second and third generations of Kanemi Yusho patients  
Yasuichi Miyakawa, Yoshiyuki Hashizume, Tadashi Fujino

1C2-PM1-05

A case report of second and third generations of a Yusho family  
Reiko Takeda

1C2-PM1-06

In silico prediction of the metabolism of PCB congeners by cytochrome P450 isozymes in Yusho patients  
Shusaku Hirakawa, Takashi Miyawaki, Tsuguhide Hori, Jumboku Kajiwara, Susumu Katsuki, Masashi Hirano, Yuka Yoshinouchi, Hisato Iwata, Chikage Mitoma, Masutaka Furue

p.45 Monday, 16:30-18:30 at Room B-2  
The Biotic Exposome of Emerging Flame Retardants in the Global Environment

Chairs: Stuart Harrad, Robert Letcher

1B2-PM2-01

Nationwide monitoring of brominated flame retardants in soil collected from South Korea  
*Jin-Woo Jeon, Ho-Joong Kim, Chang-Ho Lee, Seung-Man Hwang, Sung-Deuk Choi*

1B2-PM2-02

Cancelled

1B2-PM2-03

Cancelled

1B2-PM2-04

Suspect screening and profile analysis of stormwater runoff following 2017 wildfires in Northern California  
*Miaomiao Wang, Juliet Kinyua, Ting Jiang, Rebecca Sutton, Meg Sedlak, Richard Fadness, June-Soo Park*

1B2-PM2-05

Contamination levels of PCBs and PBDEs in fresh water fish from Chennai and Bangalore cities in India and their toxicological risk  
*Vimalkumar Krishnamoorthi, Tue Minh Nguyen, Shinsuke Tanabe, Tatsuya Kunisue*

1B2-PM2-06

Polybrominated diphenylethers in birds foraging at a landfill site in Pretoria, South Africa  
*Chino Emereole, Ray Jansen, Okechukwu Jonathan Okonkwo*

p.58 Tuesday, 10:00-12:00 at Room A  
Toxicity and Risks of Chlorinated Paraffins

Chairs: Ake Bergman, Per Ola Darnerud

2A-AM-01

Chlorinated paraffin toxicity - early findings revisited  
*Per Ola Darnerud*

2A-AM-02

In vitro biotransformation and identification of potential transformation products of chlorinated paraffins  
*Chang He, Louise van Mourik, Shaoyu Tang, Phong Thai, Xianyu Wang, Pim E.G. Leonards, Kevin Thomas, Jochen Mueller*

2A-AM-03 (2A-AM-05)

The neurobehavioral effects of zebrafish induced by commercial chlorinated paraffin products  
*Ting Xu, Weihai Pang, Daqiang Yin*

2A-AM-04

Life history traits and lipid profile changes in *Daphnia magna* exposed to chlorinated paraffins  
*Mafalda Castro, Elena Gorokhova, Sandra Luecke-Johansson, Anna Sobek, Magnus Breitholtz*

2A-AM-05 (1-PS-268)

Transfer of ingested short-, medium-, and long-chain chlorinated paraffins to eggs in laying hens (*Gallus gallus domesticus*)  
*Marie Meziere, Ronan Cariou, Philippe Marchand, Elisabeth Baeza-campone, Céleste Le Bourhis, Gaud Dervilly-Pinel, Bruno Le Bizec*

2A-AM-06

EFSA's risk assessment on chlorinated paraffins in food and feed  
*Luisa R. Bordajandi, Elsa Nielsen*

p.60 Tuesday, 10:00-12:00 at Room B-2

## Fate and Transport 1

Chairs: Noriyuki Suzuki, Wenbin Liu

2B2-AM-01

Glycosylated tetrabromobisphenol A and its deglycosylation in a hydroponic exposure system for pumpkin plants

*Xingwang Hou, Jiyuan Liu, Guibin Jiang*

2B2-AM-02

Reduction of POP contamination in Cucurbitaceae family focusing on the transporting factors for POPs by the treatment of pesticides

*Kentaro Fujita, Yasumitsu Kondoh, Kaori Honda, Hiroyuki Osada, Hideyuki Inui*

2B2-AM-03

Emissions of 1325 chemicals from municipal wastewater treatment plants in Japan

*Kiwao Kadokami, Takashi Miyawaki, Sokichi Takagi, Fumie Adachi, Haruka Iida, Kimiyo Watanabe, Yuki Kosugi, Toshinari Suzuki, Katsumi Iwabuchi, Shinichiro Nagahora, Ruriko Tahara, Tomoaki Orihara*

2B2-AM-04 (1-PS-094)

Influence of ageing on the persistence of hexachlorocyclohexanes: Implications for environmental testing

*Dirk Loeffler, Annika Martin, Lennart Loerke, Thomas A Ternes*

2B2-AM-05

Fate of synthetic musk compounds in wastewater treatment plants

*Hayley Hung, Wenlong Li, Fiona Wong, Chubashini Shunthirasingham, Mehran Alaei, Tommy Bisbicos, Grazina Pacepavicius, Shirley Anne Smyth, Steven Teslic, Korey Broad, Chris Marvin, Julia Jia, Mitra Brown, Artur Pajda, Nick Alexandrou, Edmund Luk, Liisa Jantunen*

2B2-AM-06

An overlooked PFAS exposure pathway: transport of PFAS from water to riparian foodwebs via emerging insects

*Alina Koch, Micael Jonsson, Anna Kärrman, Thanh Wang*

p.67 Tuesday, 14:00-16:00 at Room C-2

## POPs in the Developing World 1

Chairs: Karla Pozo, Takeshi Nakano

2C2-PM1-01

No-show

2C2-PM1-02 (2-PS-206)

Synthesis of novel copper-based fenton-like catalyst and its application in removal of typical antibiotics in water

*Ting Chen, Zhiliang Zhu, Yanling Qiu, Daqiang Yin*

2C2-PM1-03 (3-PS-321)

Influences of fuel types on polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) emission profiles from industrial boilers

*Siwatt Pongpiachan, Teeraporn Wiriwutikorn, Phonethip Phetsomphou, Kwanchai Jieam, Khammanithip Vongxay, Ken Choviran, Andrea Sbrilli, Massimo Gobbi, Carmela Centeno*

2C2-PM1-04 (2C2-PM1-02)

Management and supervision of HBCD in EPS/XPS polymer foam products in China

*Chen Jiang, Haoyang Wang, Yangzhao Sun, Wenbin Liu*

2C2-PM1-05

Challenges and insights during the National Implementation Plan of the Stockholm Convention in Brazil

*Yago Guida, Raquel Capella, Gabriel Oliveira Carvalho, Claudio Eduardo Azevedo-Silva, Fabio Barbosa Machado Torres, Adan Santos Lino, Claudio Ernesto Taveira Parente, Rodrigo Ornellas Meire, João Paulo Machado Torres, Roland Weber*

2C2-PM1-06

Update of the Pakistan Stockholm Convention Implementation Plan

*Zaigham Abbas, Naeem Akhtar Abbasi, Jabir Syed, Imran Hussain, Mehreen Iqbal, Roland Weber*

p.93 Thursday, 10:00-12:00 at Room C-1  
From Good Science to Good Risk  
Management

Chairs: Lorraine Seed, Martin Rose

4C1-AM-01

Perfluorinated alkyl substances (PFAS) in food:  
the long and winding road to risk mitigation  
David Nicholas Mortimer

4C1-AM-02

Impact of EFSA and/or national risk assessments  
on persistent organic pollutants at member state  
level: examples from Ireland  
Christina Thustos

4C1-AM-03 (2-PS-281)

Emissions inventory of brominated flame  
retardants from vehicles management in Japan  
Heping Liu, Junya Yano, Natsuko Kajiwara,  
Shin-ichi Sakai

4C1-AM-04

From regulating toxic substances to producing  
sustainable chemicals and products  
Roland Weber, Peter Fantke

4C1-AM-05

On the effectiveness of multilateral  
environmental agreements on chemicals  
management: an inconvenient truth hidden in the  
FAOSTAT  
Takuto Minekawa, Itsuki C. Handoh

4C1-AM-06

Economic evaluation of a historic Dioxins food  
incident  
Antonio Bubbico, Susan MacDonald, Yongning  
Wu, Martin Rose

p.94 Thursday, 10:00-12:00 at Room C-2  
Ecotoxicology

Chairs: Michael Denison, Hisato Iwata

4C2-AM-01 (1-PS-289)

Neurotoxic effects of developmental exposure to  
DE-71 on forebrain social peptides, social  
behavior and olfaction in C57BL/6 mice  
Elena V. Kozlova, Valeria Carillo, Brigitte  
Vazquez, Heather Stapleton, Margarita C  
Curras-Collazo

4C2-AM-02

Health effects of naturally produced  
hydroxylated polybrominated diphenyl ethers on  
perch from the Baltic sea  
Johan Gustafsson, Jessica Legradi, Marja  
Lamoree, Pim Leonards, Lars Förlin, Henrik  
Dahlgren, Lillemor Asplund

4C2-AM-03

Are contaminants influencing the ability of  
Arctic seabirds to respond to climate change?  
Kim J Fernie, Robert J Letcher, Birgit M Braune,  
Jessica A Head, Kyle H Elliott

4C2-AM-04

2,7-Dibromocarbazole disturb vascular formation  
in HUVECs by altering Ang2 promoter DNA  
methylation status  
Chenyang Ji, Meirong Zhao

4C2-AM-05

Assessment of the effects of 1,3,7-TriBDD  
exposure on developing chicken embryos by  
hepatic transcriptome analysis  
Jae Gon Park, Hisato Iwata, Hoa Thanh Nguyen,  
Tatsuya Kunisue, Eun-Young Kim

4C2-AM-06

Isoform- and ligand-specific activities of AHR  
and ARNT pairs in the chicken  
Dong-Hee Koh, Ji-Hee Hwang, Jae-Gon Park,  
Woo-Seon Song, Hisato Iwata, Eun-Young Kim

p.97 Thursday, 14:00-16:00 at Room B-1  
Formation, Sources and Control 2

Chairs: Minghui Zheng, **Tong Chen**

4B1-PM1-01

Integrated adsorption and visible-light photocatalysis of diclofenac by defective MOFs

Yanxin Gao, Gang Yu

4B1-PM1-02

Effective adsorption of metronidazole antibiotic from water with Zr (IV) -MOFs

Sha Chen, Alamgir, Khalid Talhab, Feng Fan, Jian-Rong Li

4B1-PM1-03

Self-sensitization of tetracycline degradation with visible light catalyzed by Zr-based Metal-Organic Frameworks

Jing Xia, Gang Yu

**4B1-PM1-04 (3-PS-204)**

**Effect of water washing on POPs concentration during pyrolysis of MSWI fly ash**

**Man Minh Trinh, Been Moo Chang**

4B1-PM1-05

The distribution and source apportionment of stationary source flue gas and atmospheric PCDD/Fs in Taiwan

Shih-Yu Pan, Yi-Ting Liou, Hung-Wei Chen, Shih-Chieh Hsu, Chung-Kuang Chou, Siao-Yi Jin, Kuang-Wei Liu, Kai-Hsien Chi

4B1-PM1-06

Atmospheric polycyclic aromatic hydrocarbons in fine particulate matters: source apportionment and exposure risk assessment at different areas in Taiwan

Ya Syuan Wu, Hsin Yu Yang, Shih Yu Pan, Tuan Hung Ngo, Yi Siao Jin, Kuang Wei Liu, Moo Been Chang, Kai Hsien Chi

p.99 Thursday, 14:00-16:00 at Room C-1

Large Scale Biomonitoring and Cohort Study

Chairs: Shoji Nakayama, Linda Birnbaum  
Co-organizer: Tomohiko Isobe

4C1-PM1-01

Achievements and conclusions on children's development in relation to real life exposure to chemical mixtures - A report from the EDC-MixRisk EU project

Ake Bergman, Joëlle Rüegg, Carl-Gustav Bornehag, Barbara Demeneix, Jean-Baptiste Fini, Chris Gennings, Maria Jönsson, Wieland Kiess, Efthymia Kitraki, Hannu Kiviranta, Christian Lindh, Eewa Nånberg, Christina Rudén, Joachim Sturve, Olle Söder, Giuseppe Testa, Mattias Öberg

4C1-PM1-02

Effect of prenatal exposure to persistent organic pollutants on children's health in the Hokkaido study on environment and children's health

Chihiro Miyashita, Reiko Kishi

4C1-PM1-03

The Danish National Birth Cohort: potentials for studying impact of environmental exposures during pregnancy on child health

Sjurdur F Olsen

**4C1-PM1-04 (2-PS-251)**

**Serum concentrations of legacy and emerging per- and polyfluoroalkyl substances in the Anniston Community Health Surveys (ACHS I and ACHS II)**

**Mike Petriello, Linda Birnbaum, Marian Pavuk, Abdul Mottaleb, Andrew J Morris**

4C1-PM1-05

Determination of neonicotinoid insecticides in urine using semi-automated solid phase extraction coupled to UHPLC-MS/MS

Tomohiko Isobe, Miyuki Iwai-Shimada, Yayoi Kobayashi, Mai Takagi, Shoji F Nakayama

4C1-PM1-06

Endocrine disrupting chemicals: a costly public health threat with opportunities for policy prevention

Leonardo Trasande

p.101 Thursday, 16:30-17:50 at Room A

## PFAS: Exposure and Toxicology

Chairs: Biljana Skrbic, **Anna Kaerrman**

4A-PM2-01

The Norwegian POPs in food study: now including PFAS

*Helen Engelstad Kvaalem, Nanna Margrete Bruun Bremnes, Cathrine Thomsen, Line Småstuen Haug*

4A-PM2-02

The first nationwide survey of exposure to legacy and emerging per- and polyfluoroalkyl substances via hair in India

*Yuefei Ruan, Dipa Lalwani, Karen Ying Kwok, Eriko Yamazaki, Sachi Taniyasu, Nirmal JI Kumar, Paul Kwan Sing Lam, Nobuyoshi Yamashita*

**4A-PM2-03 (1-PS-250)**

**PFAS and fluorine mass balance analysis of whole blood samples from Sweden**

*Rudolf Aro, Jean Noël Uwayezu, Anna Kärrman, Leo W.Y. Yeung*

4A-PM2-04

PFOA induces liver and serum dyslipidemia in humanized PPAR $\alpha$  mice fed an American diet

Jennifer Schlezinger, Wendy Heiger-Bernays, Tuulia Hyötyläinen, Catherine Boston  
*Thomas F Webster*

p.101 Thursday, 16:30-17:50 at Room B-1

## Formation, Sources and Control 3

Chairs: Yifei Sun, Takashi Fujimori

4B1-PM2-01

Review of progress in PCB elimination under the Stockholm Convention on POPs - Status report 2019

*Heidelore Fiedler, Kei Ohno, Edwin Camelo*

4B1-PM2-02

The effect of desulfurization on the emissions of PCDD/Fs from coal-fired power plants

*Xiaolin Wu, Wenbin Liu*

4B1-PM2-03

Reducing polychlorinated naphthalenes (PCNs) emissions from municipal waste incinerator and secondary copper smelting plant

*Duy Dat Nguyen, Yong-Ji Huang, Weichun Wang, Moo Been Chang*

**4B1-PM2-04 (1-PS-205)**

**Dioxins biodegradation in Sydney harbor sediment**

*Gan Liang, Matthew Lee, Michael Manefield*

p.114 Friday, 10:45-12:15 at Room A

## Summary Session

Chair: Takashi Fujimori

Environmental Levels

*Leo W.Y. Yeung*

Toxicology and Health

*Hazuki Mizukawa*

Analytical Chemistry

*Lutz Ahrens*

Risk Assessment and Exposure

*Govindan Malarvannan*

Formation, Sources and Control

*Takashi Fujimori*

**Emerging POPs**

*Anna Kärrman*