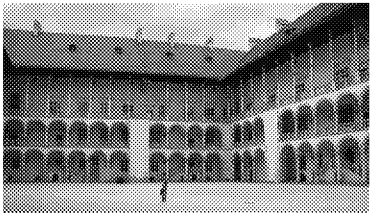
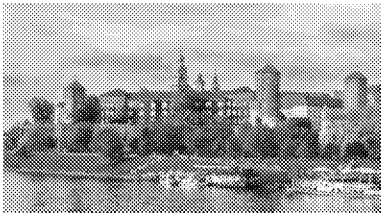
100th Anniversary of the Regaining Independence by Poland





38th International Symposium on Halogenated Persistent Organic Pollutants

DioXin 2018

& 10th International PCB Workshop

26 – 31 August 2018, Kraków, Poland

PROGRAMME

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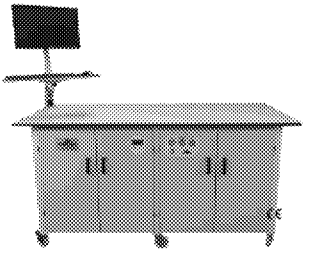

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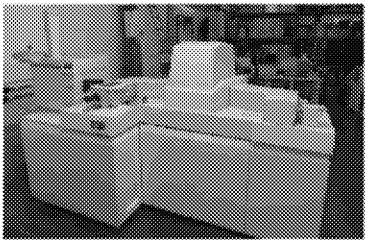

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DioXin 2018

38th International Symposium on Halogenated Persistent Organic Pollutants

10th International PCB Workshop

26-31 August, 2018
Kraków, Poland

PROGRAMME

Date of publication: July 16, 2018

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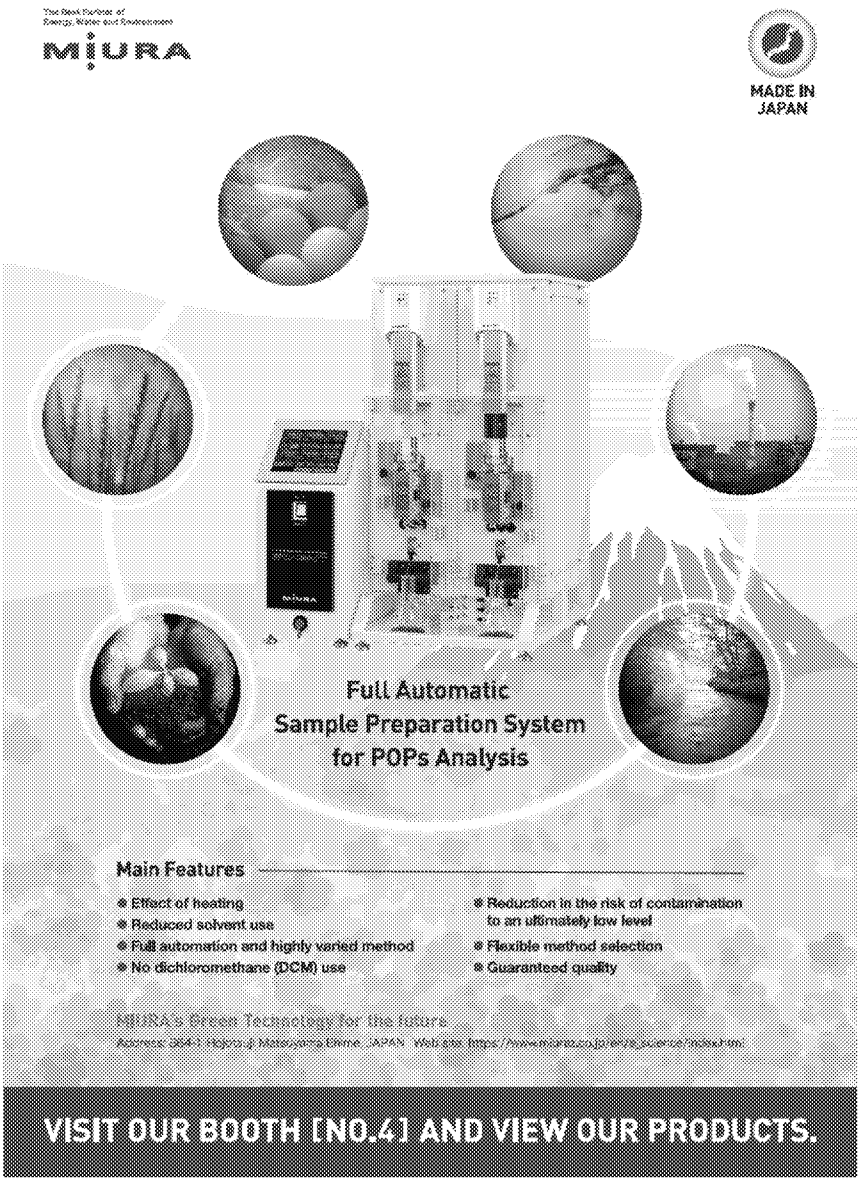
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Welcome

On behalf of the Organizing Committee, Scientific Committee, and the Dioxin Symposia and PCB Workshop International Advisory Boards, it is with great pleasure that we welcome you to Kraków for the 38th International Symposium on Halogenated Persistent Organic Pollutants (POPs) & 10th International PCB Workshop : DIOXIN 2018.

The year 2018 marks the 100th anniversary of the regaining of independence by Poland. Dreams of freedom have become a reality.

The Dioxin Symposium and International PCB Workshop are recognized as the leading international POPs meetings for scientists and regulators. This year, apart from the International PCB Workshop, the Dioxin Symposium also host the Pre- Dioxin 2018 Students' Symposium "All POPs & Pseudo-POPs" and five Special Sessions (*Biodetection Methods for POPs and Related Food and Environmental Contaminants; European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed; Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals that can act as pseudo-POPs; Legacy and Emerging Fluorinated Organic Compounds – Update; and Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs*).

Dioxin 2018 highlights inspiring visions on emerging persistent organic pollutants of food, humans and the environment and highly promotes the involvement of industry in fighting POP pollution and interaction of industry representatives with potential and existing customers and clients in all areas of investigation: analytical, regulatory, exposure assessment, and toxicological aspects relating to Persistent Organic Pollutants. Therefore, the message of the DIOXIN 2018 is: **No boundaries in POPs pollution, research and control**.

Symposium is held in the heart of downtown Kraków. The site for the Students' Symposium and for DIOXIN 2018 closing day is the Auditorium Maximum unit of the Jagiellonian University, and the core Symposium is held at the International Congresses and Entrainment (ICE) Kraków Congress Centre and at the Q Hotel Plus Kraków.

Kraków is historical city with the Royal castle Wawel and perfectly preserved the Old City that is alive cultural heritage. There are numerous restaurants, museums, historical jewels, the old Jewish suburb Kazimierz, theatres, and other attractions within walking distance. Generally, Kraków and the region are highly attractive for tourists and a spacious Kraków historical downtown is crowded in the summer time. We hope that you participate in Dioxin 2018 and look forward to welcoming you to Kraków.

We would like to express our heartiest thanks for all colleagues for great help in organizing the Students Session and Special Sessions and their contributions to the technical and scientific program.

We welcome you to Dioxin 2018 in Kraków

Jerzy Falandysz
Chair

Larry Robertson
Co-Chair

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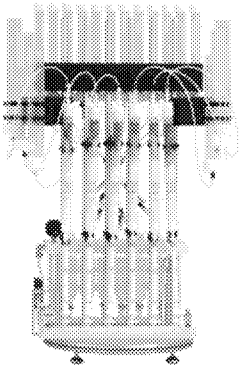
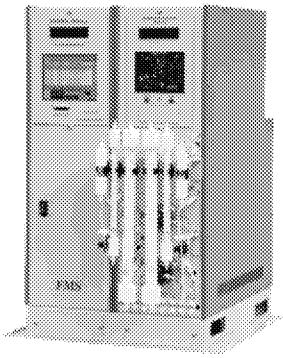
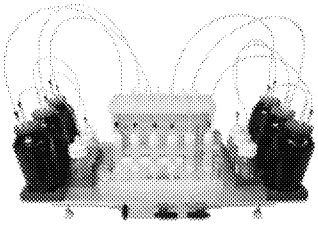
"Visit us at the Dioxin Conference"



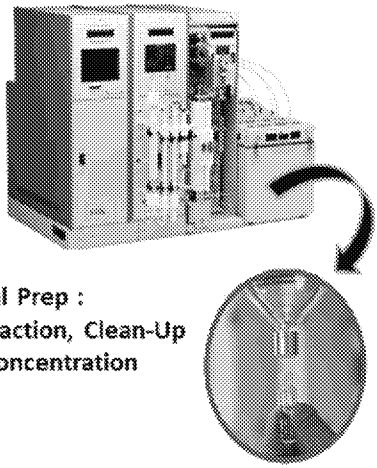
Simple, Quick, Low cost Clean-Up



Automated Sample Clean-Up



Simple Quick, SPE
Solid Phase Extraction



Total Prep :
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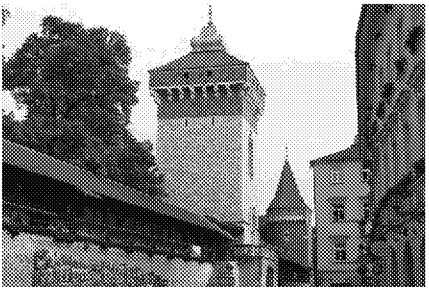
Kraków is not only an historic and visual gem, it's Poland's second largest city. At the foot of the Carpathian Mountains, Kraków is the capital city of Lesser Poland Voivodship in the southern region of Poland and has a population of around 760,000 and 250,000 are students (1.4 million in the metropolitan area).

Kraków is one of the oldest cities in Poland, with evidence showing settlements there since 20,000 BC. Legend has it that it was built on the cave of a dragon that the mythical King Krak had slain. However, the first official mention of the name was in 966 by a Jewish merchant from Spain, who described it as an important centre of trade in Slavonic Europe.

In 1241, the city was almost entirely destroyed by Tatars. It was rebuilt to a design that remains largely unchanged to the present day. However, after more successful attacks by the Mongols in the late 13th century, Kazimierz the Great set about defending the city. Walls, fortifications, and the original Wawel Castle were added. The University was also established.



Floriańska Gate and Tower

Main Market Square

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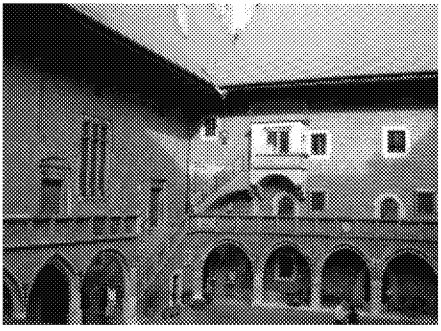
The 16th century was Kraków's golden age. Under the influence of the joint Polish-Lithuanian Jagiellonian dynasty, Kraków became a centre of science and the arts. In 1569, Poland was officially united with Lithuania and as a result government activity started to move to Warsaw. King Zygmunt III officially moved the capital in 1609. However, the 17th century was a return to troubled times for Kraków and Poland. After being invaded by Russians, Prussians, Austrians, Transylvanians, Swedes, and the French, it went through a phase of various forms of political control. These included being part of the Duchy of Warsaw, established by Napoleon, and becoming an "independent city". However, it mostly fell under the sphere of influence of the Austrian Habsburg Empire, in the province of Galicia.

In the First World War, Józef Piłsudski set out to liberate Poland and the Treaty of Versailles (1919) established an independent sovereign Polish state for the first time in more than 100 years. This lasted until the Second World War, when Germany and the USSR partitioned the country, with German forces entering Kraków in September 1939. Many academics were killed and historic relics and monuments were destroyed or looted.

In 1978, UNESCO placed Krakow on the World Heritage Sites list.

Main Market Square



Collegium Maius, Jagiellonian University

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St. Mary's Trumpet Call (*hejnał*)

St. Mary's Trumpet Call, is a traditional, five-note Polish anthem closely bound to the history and traditions of Kraków. Every full hour a golden trumpet shows above Krakow's central Grand Square in the west window just below the spire of the higher tower of the Basilica of the Virgin Mary's. Next the same bugle call is played towards the east, the south and the north. At noon the whole ritual has been broadcast on the Polish national radio since 1927.

The earliest written mention of "hejnał" it appears in civic pay records of 1392. The word hejnał comes from hejnal, the Hungarian word for "dawn". These two facts fit well with a putative origin under King Louis I "the Hungarian" (r. in Poland 1370–82) or his daughter Jadwiga, Queen of Poland (r. 1384–99). Trumpet calls were used in many European cities to signal the opening and closing of city gates at dawn and dusk. The four directions in which the St. Mary's Trumpet Call is currently sounded correspond roughly to the four main Kraków gates before 3 out of 4 of the gates were demolished in the 19th century. In historic times, trumpet calls on the St. Mary's Church tower were also used to warn of fires and other dangers.

According to a legend, during a Mongol invasion of Poland (the invasion usually cited is that of 1241), Mongol troops led by General Subutai approached Kraków. A sentry on a tower of St Mary's Church sounded the alarm by playing the Hejnał, and the city gates were closed before the Tatars could ambush the city. The trumpeter, however, was shot in the throat and did not complete the anthem, and this is the legendary reason as to why performances end abruptly before completion.

By Jadwiga at the Polish language Wikipedia, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=131372

St. Mary's Basilica and Floriańska Street

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Monday, August 27

Beate Escher (Helmholtz Centre for Environmental Research – UFZ, Leipzig): "Bioanalytical tools for the assessment of mixtures of organic micropollutants in water, sediment, biota and people".

Tuesday, August 28

Kurunthachalam Kannan & Nobuyoshi Yamashita
(State University of New York, Albany & National Institute of Advanced Industrial Science and Technology, AIST, Tsukuba): "An update on legacy and emerging perfluoroalkyl substances".

Wednesday, August 29

Keri Hornbuckle (The University of Iowa, Iowa City): "Emissions of Legacy and non-Legacy PCB congeners to air of homes and schools";

Larry Robertson (The University of Iowa, Iowa City): "Hepatic effects of halogenated biphenyls".

Thursday, August 30

Richard Hull
University of Central Lancashire (Preston): "The effect of fire retardants on smoke toxicity".

Friday, August 31

Martin Rose (Manchester University, Manchester): "Dietary exposure, risk assessment and regulation for legacy and emerging POPs".

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10th International PCB Workshop Sessions

• Stockholm Convention, Sources, Exposures, Inventories and Actions to Reduce Exposures • Niklas Johansson, Keri Hornbuckle
• Evolving approaches to assessing exposures and health risks from environmental chemical mixtures • Geniece Lehmann, Mattias Öberg
• Novel Studies on PCB Toxicity and Mechanisms Action • Mirek Machala, Michael Duffel
• PCB Regulations for Health Protection: Recent Actions, Ongoing Initiatives, and Future Perspectives • Helen Håkansson, Vince Cogliano

38th International Symposium on Halogenated Persistent Organic Pollutants Sessions

Sessions: Special

• Biodetection Methods for POPs and Related Food and Environmental Contaminants • Daniela Meloni, Kenneth Sajwan
• European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed • Ron L Hoogenboom, Tanja Schwerdtle
• Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals that can act as pseudo-POPs • Beate Escher, Jolanta Kumirska
• Legacy and Emerging Fluorinated Organic Compounds - Update • Nobuyoshi Yamashita, Kurunthachalam Kannan, Leo WY Yeung
• Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs • Roland Weber, Allan A Jensen

Sessions:

• Abiotic Environmental Compartments • Magdalena Urbaniak, Takashi Nakano
• Advances in Environmental Forensics • Stephen Mudge, David Megson
• An Analytical Update for Dioxins and Related Halogenated Compounds • Jean F Focant, Paweł Rostkowski
• Biochemistry and Toxicology of POPs • Jae-Ho Yang, Anna Kilanowicz-Sapota
• Biomonitoring and Levels: An Update and Obesogens • Bruno Le Bizec, Heesoo Eun
• Contaminated Sites – Cases, Remediation, Risk and Management • Barbara Wyrzykowska-Ceradini, Ivan Holoubek
• Dioxins and other POPs in Vietnam and Humans after Agent Orange • Teruhiko Kido, Arnold Schecter

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* Ecotoxicology and Environmental Toxicology of POPs * Hisato Iwata, Minghui Zheng, Jesus Olivero-Verbel
* Emission, Control and Cleanup * Shin-ichi Sakai, Marianna Czaplicka
* Endocrine Disruption: Biochemical and Molecular Mechanisms * Ewa Gregoraszczuk, Michael S Denison
* Endocrine Disruption: Tyroidogenicity, Exposure and Health * Åke Bergman, Patrik Andersson
* Endocrine Disruption: Multi-models, Mixtures, and Translation * Tom Muir, Marike M Leijs
* Environmentally Persistent Free Radicals * Bogdan Długogorski, Sławo Lomnicki
* Epidemiology * Paul KS Lam, Jesus Olivero-Verbel
* Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental * Stuart Harrad, Paolo Brambilla
* Exposure – POPs in Pets and their applicability as Models for Human Health
* Jana Weiss, Hazuki Mizukawa
* Fate and Behavior of Volatile Methylsiloxanes in the Environment * Yuichi Horii, Nicholas Warner
* Halogenated PAHs and PAHs * Guorui Liu, Yuichi Miyake
* Legacy and Emerging Flame Retardants: Environmental Levels and Human Exposure * Gang Yu, Adrian Covaci
* Legacy and Emerging Flame Retardants: Metabolism and Toxicokinetics * Mohamed Abdallah, Malarvannan Govindan
* Legacy and Emerging Flame Retardants: Identification, New Analytical Methods and Application * Mehran Alaee, Georg Becher
* Levels in Human Foods and Animal Feeds * Rainer Malisch, Barbara Gworek
* Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds * Olie Kees, Mohammednoor Altarawneh
* Non-target Screening – Multimedia Analysis * Si Wei, Hyo-Bang Moon
Organometallic Contaminants * Danuta Barałkiewicz, Wociech Wąsowicz
* Persistent Biocides and Pesticides * Bommanna G Loganathan, Monika Michel
* Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs) * Alwyn Fernandes, Vladimir Nikiforov
* POPs and Emerging Contaminants in Developing Countries * Karla Pozo, Bondi Gevao
* POPs and Emerging Contaminants in Urban Environment * Hayley Hung, Zheng Peng

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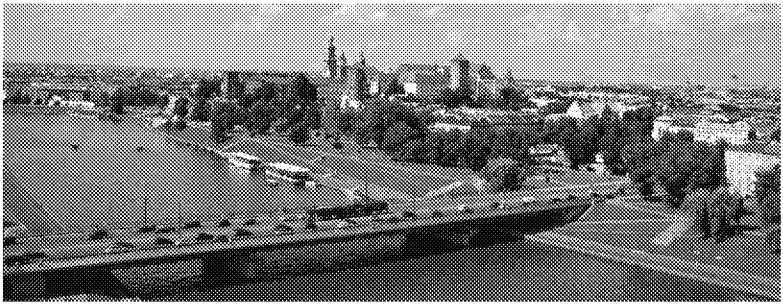
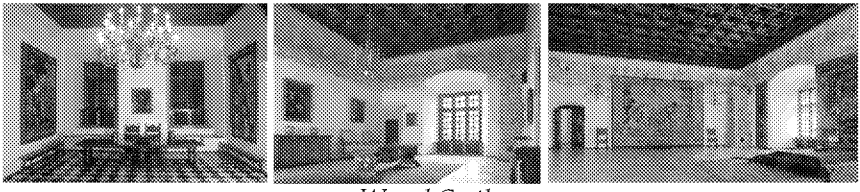
• POPs in Polar, Circumpolar and Alpine Regions • Begoña Jiménez, Tomasz Ciesielski, Simonetta Corsolini, Igor Eulaers
• QAQC of POPs Analysis – Recent ISO and National Standards • Sachi Taniyasu, Bommanna G Loganathan
• Risk Assessment and Risk Management • Martin Rose, Jan Ludwicki
• Sampling, Preparation and Determination • Anna Stec, Takumi Takasuga
• Sources, Fate, Transport, Modelling and Inventories • Heidi Fiedler, Jiang Guibin
• Strategy for a Non-Toxic Environment: Addressing Persistence • Xenia Trier, Peter Fantke



Vistula River: Grunwaldzki Bridge Kraków



Wawel Castle

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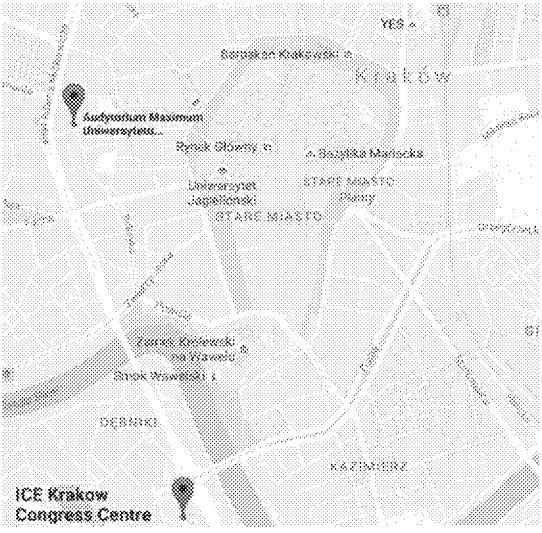
The **Students Session "All POPs & Pseudo-POPs"** will be held on Saturday, 25 August, at the Auditorium Maximum, Jagiellonian University. Address: 33 Krupnicza Street, 31-123 Kraków.
Coordinates: 50°03'49,8"N 19°55'35,7"E

The **38th International Symposium on Halogenated Persistent Organic Pollutants** will be held on Sunday 26 August to Thursday 30 August, at the International Congresses & Entrainment (ICE) Kraków Congress Centre. Address: 17 Marii Konopnickiej Street, Kraków.
Coordinates: 50°02'52"N 19°55'52"E

The **10th International PCB Workshop** will be held at 14:00 to 18:00 from Monday, 29 August to Thursday 30 August, at the Q Hotel Plus.
Address: 6 Wygrana Street, Kraków.
Coordinates: 50°02'49.92"N 19°55'52.32"E

The Dioxin 2018 closing ceremony will be held on Friday, 31 August, at the Auditorium Maximum, Jagiellonian University
Address: 33 Krupnicza Street, 31-123 Kraków.
Coordinates: 50°03'49,8"N 19°55'35,7"E



Google maps

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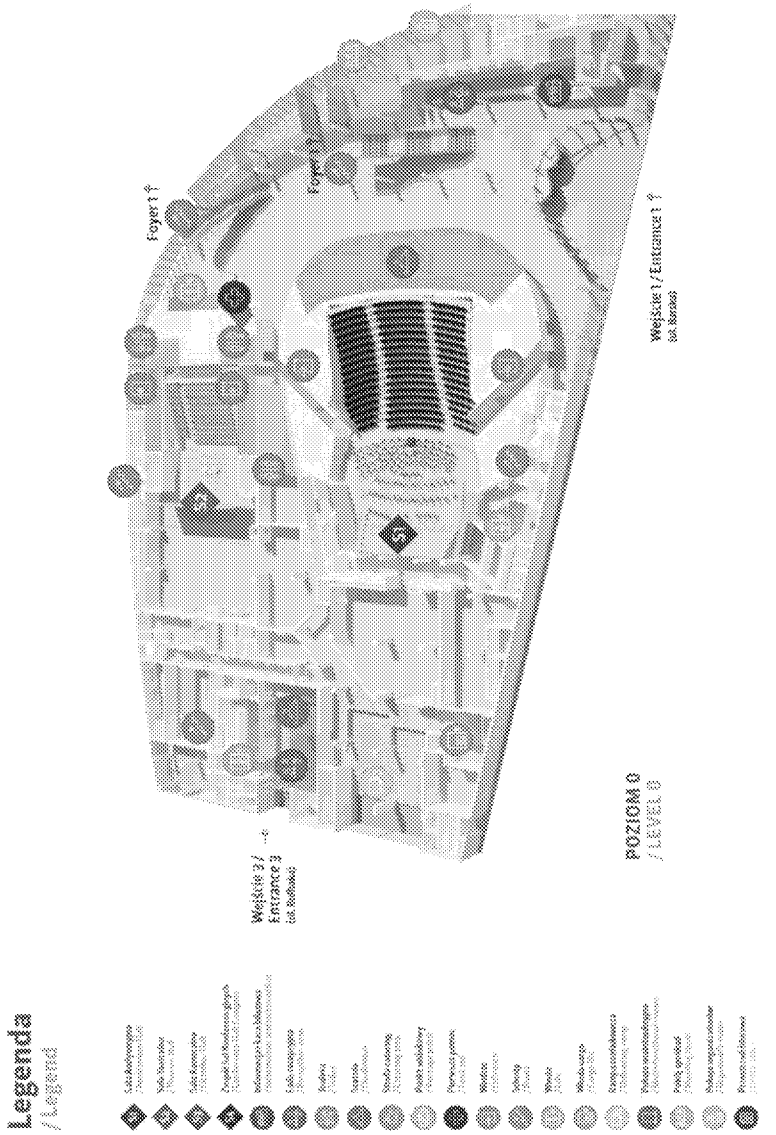

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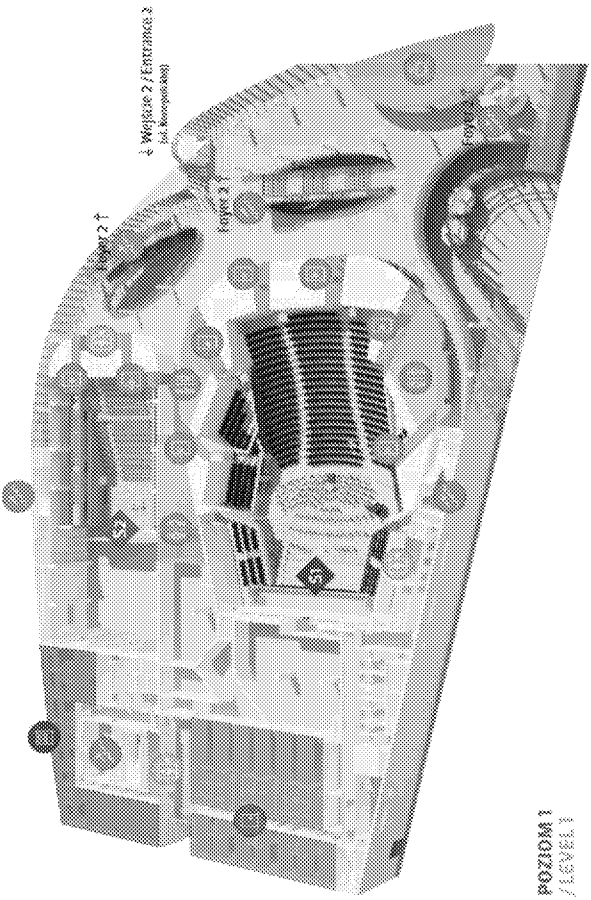

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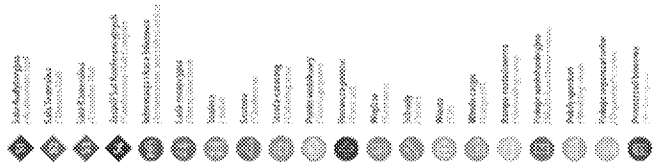

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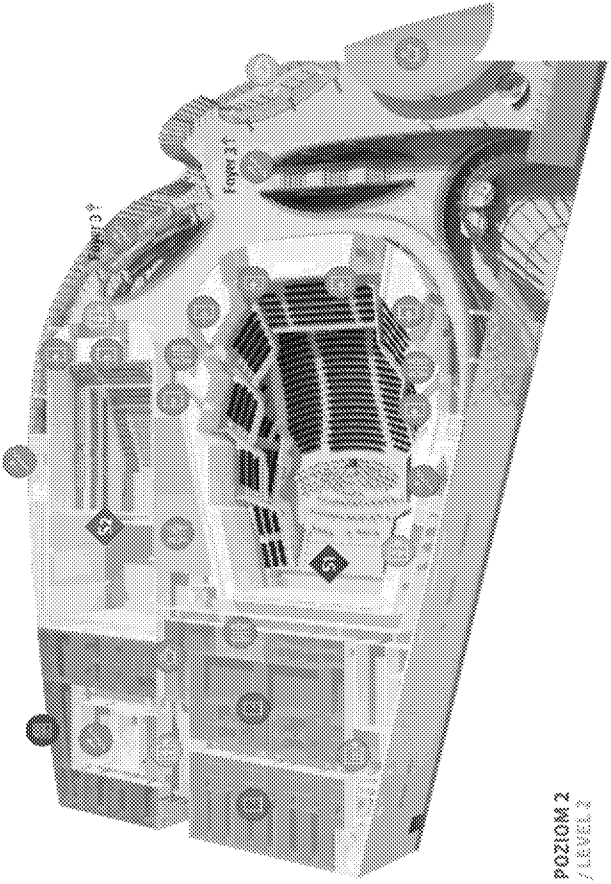

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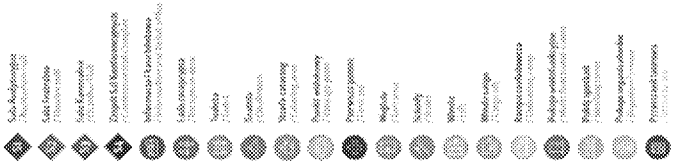

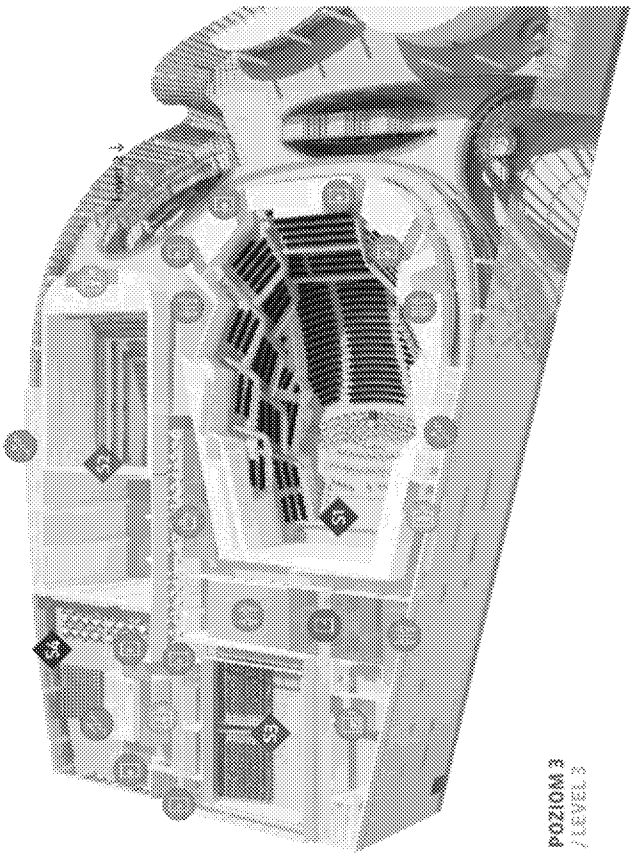

Legenda
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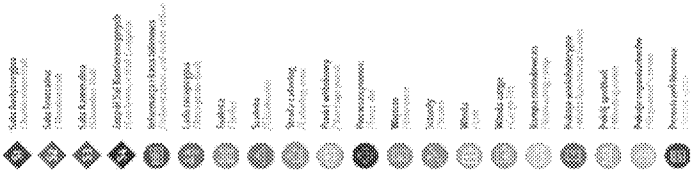

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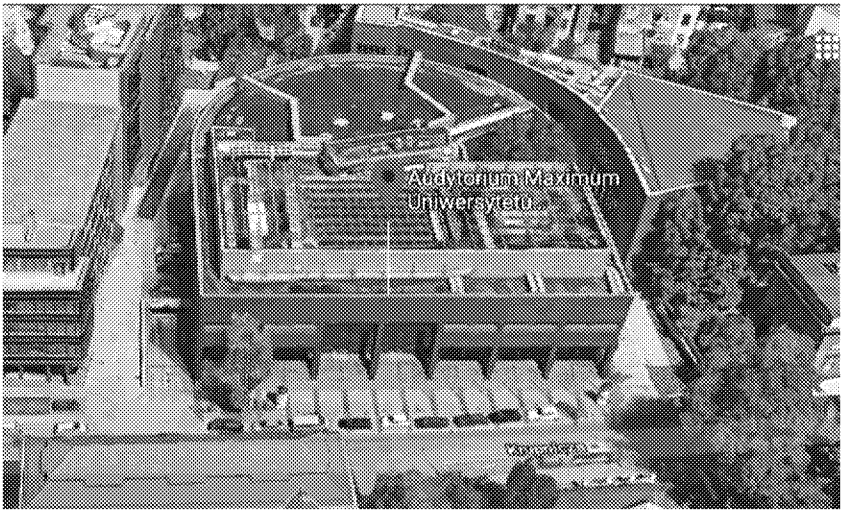
Saturday, 25 August Students Symposium "All POPs & Pseudo-POPs"
Friday, 31 August Dioxin 2018 Closing Day
Auditorium Maximum, Jagiellonian University



Google maps

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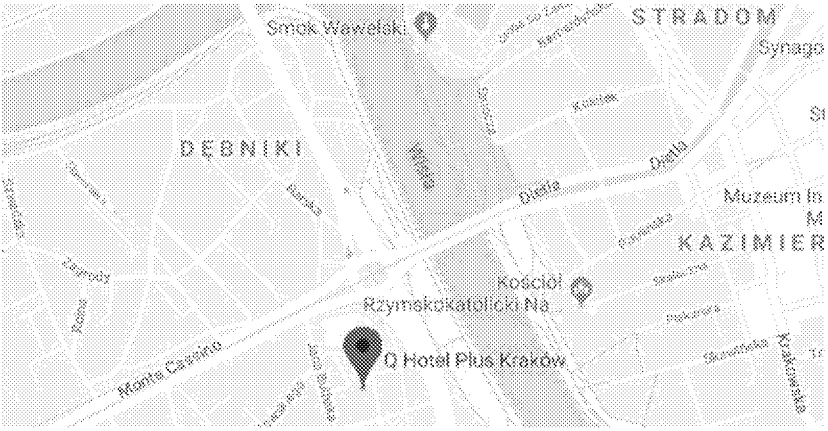
Monday – Thursday, 26-30 August
10th International PCB Workshop afternoon sessions
Q Hotel Plus Kraków



Google maps

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Symposium Chairman

Prof. Jerzy Falandysz, PhD, DSc
Laboratory of Environmental Chemistry & Ecotoxicology
University of Gdańsk
63 Wita Stwosza Str.
80-308 Gdańsk, Poland
E-mail: jerzy.falandysz@gmail.com

Symposium Secretariat

AGH- UST Foundation
Address: 50b Czarnowiejska Street, 30-059 Kraków, Poland
Office phone: +48 12 617 46 04
Fax: +48 12 617 46 05
E-mail: kf@agh.edu.pl
Contact person: Anna Inglot - Conference Manager
Phone during the Symposium at the venue: +48 606 523 217

Official language

English is the official language of the Symposium. Simultaneous translation will not be available on site.

Exhibition

Concurrently with the symposium a commercial and non-commercial exhibition is organized in the ICE Kraków Congress Centre*. Exhibition space is available in the foyer space of the Centre – levels: F0, F1 and F2. Companies and organizations having links with the world scientific community will display their services, products and literature.

*Note: Exhibition (banner, printing materials) at the Students Symposium (venue; Auditorium Maximum – Jagiellonian University) can be possible only by active sponsors for this students' event.

Opening hours

Monday (27 August); 08:30-18:30 (ICE)
Tuesday (28 August); 08:30-18:30 (ICE)
Wednesday (29 August); 08:30-18:00 (ICE)
Thursday (30 August); 08:30-18:30 (ICE)

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Registration

Symposium staff will be available at the registration desk for all registered participants to collect their symposium dossier and access badges. Student registration applies to full time students and must be accomplished by a letter certifying student status from the University or Faculty/Institute in which the student is registered. This documentation must be mailed and/or faxed to the Symposium Secretariat. The registration desk along with the technical secretariat will be located at the unrestricted access zone of the ICE at the Foyer 0 level (on Friday at the Auditorium Maximum – Jagiellonian University). The registration and symposium help desk will be at your service at the opening hours:

Saturday (25 August); 08:00-12:00 (Auditorium Maximum • Jagiellonian University)
Sunday (26 August); 08:00-18:30 (ICE)
Monday (27 August); 07:00-18:30 (ICE)
Tuesday (28 August); 07:30-18:30 (ICE)
Wednesday (29 August); 08:00-18:00 (ICE)
Thursday (30 August); 08:00-18:30 (ICE)

All participants must register for the symposium. On-site registration will be possible during the opening hours. All registration fees are quoted in Euro (€) and include VAT (23%).

Registration type	Registration fee
Regular participant	900
Full time student	450
Accompanying person	350
Single day registration	350
On-site registration (regular)	950
On-site registration (student)	450
Gala dinner ticket (onsite purchase)	105

Note: *Pre-Dioxin Students Symposium on Saturday, 25 August , is free for the students with a presentation and registered at Dioxin 2018 (one person per submission); for students without presentation fee is 25 € (for coffee and lunch).

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Registration fee for participants and students includes:

Symposium bag and dossier
Admission to all sessions through the symposium
Admission to exhibition area
Coffee, tea, refreshments and lunches during the breaks
Possibility to submit abstracts
Collection of abstracts (USB)
Certificate of attendance and/or presentation (on request)
Informal Get-together on Sunday and Concert and City Hall Reception on Monday

Daily fee includes:

Symposium bag and dossier
Admission to all sessions through the Symposium
Admission to exhibition area through the Symposium
Coffee, tea, refreshments and lunches during breaks for the day of the registration
Possibility to submit abstracts
Book of Abstracts & Collection of Extended Abstracts - short papers (USB)
Certificate of attendance for the day of registration

Accompanying person's fee includes:

Symposium bag and dossier
Admission to exhibition area
Coffee, tea, refreshments and lunches during the breaks
Informal Get-together on Sunday; Concert and City Hall Reception on Monday, and excursion on Tuesday

Badges and tickets

Your personal badge is your entrance ticket to the symposium centre and all scientific arrangements. Please wear your badge at all times. Due to strict security rules at the ICE Center or the Q Hotel Plus a lack of a badge at any time will result in a ban of free access to the area accessible only for registered participants. Tickets for any event must be presented upon notice.

Messages

Messages for participants will be posted on the message board near the registration desk and displayed on the monitors available in the foyers area.

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Speakers

Presenters will be allotted 20 minutes total presentation time (15 minutes for the lecture and 5 minutes for questions and discussion). In order to synchronize the parallel sessions, session chairs have been instructed to maintain strict control over the time schedule. This is to allow participants to move from one session to another without missing anything of each presentation.

The official format of an oral presentation is via projector using Microsoft PowerPoint (see template). Other formats will not be accepted. Due to time restrictions, presenters will not be allowed to connect their own computers to the data projectors at the Symposium.

All presenters must load and test their presentations in the Audio Visual Preview Room the day prior their session (it can be sent also in advance by e-mail to presentations@dioxin2018.org that will be active from July 16). Rehearsals and editing will not be allowed on the Symposium computers.

Monday speakers should test their presentations on Sunday (afternoon between 13:00 and 16:00 at the latest), while others a day before presentation. It is the responsibility of the individual presenters (not the organizers) to ensure their presentation is uploaded and checked. An audio-visual technician will be available to assist.

Poster presentations

The posters can be displayed in one sessions from Monday to Thursday. Please, set up your poster before Monday 09:30 and remove by Thursday 18:00. The set up areas on the poster board is 95 cm x 135 cm (portrait).

Each poster will be assigned a number which will appear in the Program Book, Abstracts Book as well as on the poster board.

Please make sure that you place your poster on the correct poster board at the correct session. Presenters are responsible for setting up and removing their posters. The Registration Desk will provide materials to affix the poster to the boards. Please use only those materials.

Collegium Maius, Jagiellonian University

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Student Awards

Otto Hutzinger Award

Award Description

The Otto Hutzinger Student Award is presented for outstanding student presentations at the annual Dioxin Symposium to acknowledge scientific contribution to the field of halogenated persistent organic pollutants. This award honors Professor Otto Hutzinger as the founder of the Dioxin Symposia and his continuing interest as a teacher and researcher committed to moving science forward and to stimulating young students and the next generation of researchers. Six awards will be granted to two students in each of the following three categories addressing legacy and emerging halogenated persistent organic pollutants:

A. Sources and analysis.

B. Environmental occurrence, including fate, transport and remediation.

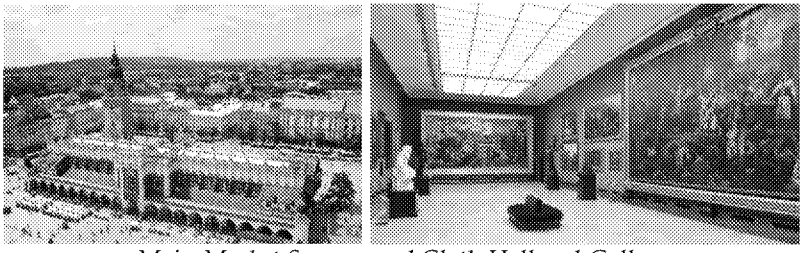
C. Human exposure, toxicology and risk assessment of persistent organic pollutants.

Application Guidelines

To be eligible for a Hutzinger Award, a student must meet all of the following criteria:

1. The applicant must be either a current or recently graduated student (undergraduate or graduate). Documentation of student status must be provided (i.e. statement from supervising professor or department chairperson to confirm student status or other official documentation).

2. The student must submit a full 4-page paper using the guidelines established by the meeting organizers and described on the meeting website. The short paper must include the following sections: Title, Authors and Affiliations, Introduction, Methods and Materials, Results and Discussion (or a combined Results and Discussion Section), References, Figures and/or Tables. Students whose short paper do not meet these guidelines will not be considered.



Main Market Square, and Cloth Hall and Gallery

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3. The student applicant must be the first author (identified by an asterisk or underlined) of the submitted research paper and must be the one who presents the work as an oral or poster presentation at the Symposium. Since this award is specifically directed toward assessment of the contributions and work of the student applicant, the paper cannot contain more than four additional co-authors.

All of the above must be provided when submitting the 4-page paper. Scanned copies of the documentation for student status can be sent by e-mail with reference to the paper submission number.

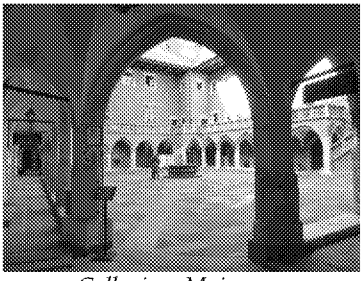
Evaluation Criteria

The Otto Hutzinger Student Award is provided by the International Advisory Board of the Dioxin Symposia. A committee consisting of internationally recognized researchers will be appointed as judges. The committee will assess the papers submitted by all applicants and will prepare a short-list of candidates. Criteria for evaluation of the student oral or poster presentations will include originality and completeness of the work presented as well as the quality of the paper submitted. The judges will attend the student's presentation and are also encouraged to interview the students to evaluate the student's ability to communicate the objectives, methods, results and impact of their research as well as their ability to interact with the scientific audience. Based on the above, the judges will nominate two students from each of the above three categories to receive the Otto Hutzinger Student Award.

Other Dioxin 2018 Kraków Student Awards

Pre-Dioxin Symposium Students Session ⁕ Dioxin 2018 Kraków Student Award
The 10th International PCB Workshop ⁕ Dioxin 2018 Kraków Student Award
Special (Biodetection) Session ⁕ Dioxin 2018 Kraków Student Award
Special (Fluorinated Compounds) Session ⁕ Dioxin 2018 Kraków Student Award
Special (Industrial Technologies) Session ⁕ Dioxin 2018 Kraków Student Award
Special (Pharmaceuticals as pseudo-POPs) Session ⁕ Dioxin 2018 Kraków Student Award.

Main Market Square



Collegium Maius

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Side Meetings at Foyer level 3

All side meetings will be held at the venue, the ICE Kraków Congress Centre, unless stated otherwise.

Day and hours	Users' Meeting or Event* by	Place/Hall
Saturday, 25 August		
08:00 – 16:00	**Students Symposium** "All POPs & Pseudo-POPs"	Auditorium Maximum - Jagiellonian University
Sunday, 26 August		
09:00 – 16:00	ThermoFisher	Chamber 1
13:00 – 16:00	**Waters**	Chamber 2
Monday, 27 August		
12:40 - 13:25	**Waters**	Chamber 2
12:40 - 13:25	FMS	Conference 2
Tuesday, 28 August		
12:20 - 13:05	ThermoFisher	Chamber 1
12:20 - 13:05	MIURA	Chamber 2
12:20 - 13:05	Agilent Technologies	Conference 1
Wednesday, 29 August		
12:40 - 13:25	Agilent Technologies	Conference 1
12:40 - 13:25	LCTech	Chamber 1
14:15 - 15:15	**PFASs** in Asia (*supported by AIST*)	Chamber 1
Thursday, 30 August		
12:20 - 13:05	ThermoFisher	Chamber 1

Notes: *Lunch time seminar by some companies can be up to 60 minutes

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Mobile phones
In Poland, mobile phones use the frequency bands: GSM-900 and GSM-1800.
An overview of the available networks can be found at:
www.gsmworld.com/roaming/gsminfo/cou.
As a courtesy to other participants, please turn off your mobile phone when entering any of the meeting rooms.

Internet
There is free wireless internet access through the ICE Kraków Congress Centre for all participants. The network you should chose is called "ICE". A maximum of 60 Mb can be up- or downloaded without password.

Access & Security
Delegates and accompanying persons are requested to wear their badges at all times. You will need your badge for each entry to the ICE Kraków Congress Centre, special concert on Monday 27 August 2018 and for entry to the Auditorium Maximum. Tickets for all events must be presented upon notice. Please, contact the secretariat for available tickets for the social events.

Health
The venue will have medical cover available, if you feel unwell or have any health concerns contact the Support Team or reception. You should only travel to and participate in the event and activities if you are in good health.

Car parking
Street parking facilities are available in the surroundings of the ICE Kraków Congress Centre (no reservation is possible). Prices are about 3 PLN per hour.

Climate
The climate in southern part of Poland is moderate and changing. In Kraków, the average temperature in 26-31 August 2016 in daytime was ~25 °C // ~75 °F and in nigh time was 5-6 degrees lower.

Safety
Kraków is as safe as any other European tourist city. Participants are advised to take the usual prudent preclusions.

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Insurance
It is strongly recommended that delegates take out adequate cover for health, travel and private liability insurance. The organizers cannot accept responsibility for personal injury, loss or damage to private property belonging to the Symposium delegates and accompanying persons.

Smoking Policy
The Symposium is smoke-free and smoking is not permitted in any of the Symposium venues.

Useful telephone number
Emergency: +48 12 424 42 72
Airport: +48 12 295 58 00
Radio Taxi: +48 12 19 661

Photography Policy
Taking photographs or making video during oral and poster presentations is strictly forbidden. This is in order to respect the originality of the author's work.

Photographer
An official photographer is present during the Symposium. Registering you agree to have your pictures taken.

Currency
The currency in Poland is the Polish złoty (zł) Złoty notes are issues in denominations of 10, 20, 50, 100 and 200. Coins come in denominations of 1, 2 and 5 złoty, and 50, 20, 10, 5, 2 and 1 groszy.

Banks
Banks are open Monday through Friday, 9:00-16:00. Numerous money exchange units operate in the downtown Kraków area up to late hours.

Credit cards & ATM
All major credit cards are accepted (Visa, MasterCard, American Express, Diners Club and Eurocard). ATM machine is available at the ICE Kraków Congress Centre area and many are available through the city.

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Electricity

The electricity power supply in Poland is 230 Volt with a European standard plug.

Useful Telephone Numbers

The brigade and emergency medical care, Tel: +48 12 424 42 72
Police, Tel: +48 12 615 73 18
European Emergency call, Tel: **112**

Taxes & Tipping

Tipping is not required in restaurants, bars, taxis and for most other services, as service charges are normally included in the price. For exceptional service, a small tip is welcomed.

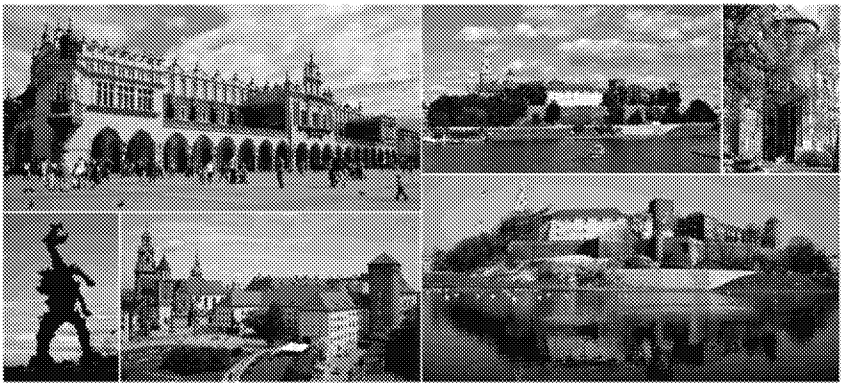
Taxis

Taxi may be picked up at ranks, may be hailed in the street by signalling to the driver or ordered by calling one of the taxi centres, which will send you a vehicle. To order taxi, please call the following number(s):

- ►Taxi Barbakan: +48 12 19 661
- ►Taxi Mega: +48 12 400 00 00
- ►Taxi iTaxi: +48 737 737 737

Time

GMT +1 (GMT +2 from the last Sunday in March to the last Sunday in October). Poland is six hours ahead of Eastern Standard Time and nine hours ahead of Pacific Standard Time.



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Sunday, 26 August • ICE Center

08:00 - 18:00	Registration : Foyer 0
09:00 - 16:00	Users' meetings : ICE Foyer 3 • Chamber 1 and 2
16:00 - 18:00	Get Together : Foyer 0

Monday, 27 August • ICE Center / Q Hotel

07:00 - 18:30	Registration : Foyer 0		
08:00 - 08:30	Opening	*12:40 – 13:25*	Lunch & side meetings
08:30 - 09:15	Plenary 1	*13:25 – 14:00*	Posters & exhibition
09:30 - 10:00	Coffee	*14:00 – 16:00*	SESSIONS + PCB Workshop
10:00 - 12:40	SESSIONS	*16:00 – 16:30*	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop
		19:00 – 21:30	Concert & City Hall Reception : ICE

Tuesday, 28 August • ICE Center/ Q Hotel

07:30 - 18:30	Registration : Foyer 0		
08:15 - 09:00	Plenary 2	*12:20 – 13:05*	Lunch & side meetings
09:00 - 09:30	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop

Wednesday, 29 August • ICE Center / Q Hotel

08:00 - 18:00	Registration : Foyer 0		
08:30 - 09:30	Plenary 3 & 4	*12:40 – 13:25*	Lunch & side meetings
09:30 - 10:00	Coffee	*13:25 – 14:10*	Posters & exhibition
10:00 - 12:40	SESSIONS	*14:20 – 18:30*	PCB Workshop
		After 14:00	Optional Tours

Thursday, 30 August • ICE Center / Q Hotel

08:00 - 18:30	Registration : Foyer 0		
08:30 - 09:15	Plenary 5	*12:20 – 13:05*	Lunch & side meetings
09:15 - 09:40	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop
		19:00 – 24:00	Gala Dinner • Royal Summer Castle Niepołomice

Friday, 31 August • Auditorium Maximum – Jagiellonian University

09:30 - 10:15	Plenary 6	*12:00 – 12:30*	O. Hutzinger Awards
10:15 - 10:45	Coffee	*12:30 – 13:00*	Dioxin 2019 Kyoto
10:45 - 12:00	Highlights	*13:00 – 13:30*	Lunch

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07:00 - 18:30 h	Registration : Foyer 0		
08:00 - 08:30	Opening	*12:40 – 13:25*	Lunch & side meetings
08:30 - 09:15	Plenary	*13:25 – 14:00*	Posters & exhibition
09:30 - 10:00	Coffee	*14:00 – 16:00*	SESSIONS & PCB Workshop
10:00 - 12:40	SESSIONS	*16:00 – 16:30*	Coffee
		16:30 – 18:30	SESSIONS & PCB Workshop
		19:00 – 21:30	Concert & City Hall Reception

SESSIONS

AUDITORIUM

10:00 - 18:10 • Legacy and Emerging Fluorinated Organic Compounds - Update

THEATRE

10:00 - 16:00 • Legacy and Emerging Flame Retardants: Environmental Levels and Human Exposure

16:30 – 18:10 • Legacy and Emerging Flame Retardants: Metabolism and Toxicokinetics

CHAMBER 1

10:00 - 12:40 • Biodetection Methods for POPs and Related Food and Environmental Contaminants

14:00 - 18:10 • An Analytical Update for Dioxins and Related Halogenated Compounds

CHAMBER 2

10:00 - 15:40 • Biochemistry and Toxicology of POPs

16:30 – 18:30 • Endocrine Disruption: Biochemical and Molecular Mechanisms

CONFERENCE 1

10:00 - 18:10 • Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs)

CONFERENCE 2

10:00 - 12:40 • Abiotic Environmental Compartments

14:00 - 17:50 • Contaminated Sites – Cases, Remediation, Risk and Management

Q Hotel Plus hall

14:00 to 18:30 PCB Workshop • Stockholm Convention, Sources, Exposures, Inventories and Actions to Reduce Exposures

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07:30 - 18:30 h	Registration : Foyer 0		
08:15 - 09:00	Plenary 2	*12:20 – 13:05*	Lunch & side meetings
09:00 - 09:30	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop

SESSIONS

AUDITORIUM

09:40 - 18:30 • Legacy and Emerging Fluorinated Organic Compounds - Update

THEATRE

09:40 - 12:20 • POPs and Emerging Contaminants in Urban Environment

13:40 - 18:30 • Biomonitoring and Levels: An Update and Obesogens

CHAMBER 1

09:40 - 12:00 • Legacy and Emerging Flame Retardants: Identification, New Analytical Methods and Application

13:40 - 18:30 • Advances in Environmental Forensics

CHAMBER 2

09:40 - 15:20 • Sampling, Preparation and Determination

16:30 - 18:10 • Endocrine Disruption: Tyroidogenicity, Exposure and Health

CONFERENCE 1

09:40 - 12:20 • Persistent Biocides and Pesticides

13:40 - 18:30 • POPs and Emerging Contaminants in Developing Countries

CONFERENCE 2

09:40 - 12:00 • Environmentally Persistent Free Radicals

13:40 - 18:30 • Emission, Control and Cleanup

Q Hotel Plus

13:40 - 18:30 PCB Workshop • Evolving Approaches to Assessing Exposures and Health Risks from Environmental Chemical Mixtures

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08:00 - 18:00 h	Registration : Foyer 0		
08:30 - 09:30	Plenary 3 & 4	*12:40 – 13:25*	Lunch & side meetings
09:30 - 10:00	Coffee	*13:25 – 14:10*	Posters & exhibition
10:00 - 12:40	SESSIONS	*14:15 – 15:15*	PFASs in Asia
		14:20 – 16:00	PCB Workshop
		16:00 –16:30	Coffee
		16:30 – 18:30	PCB Workshop
		After 14:00	Optional Tours

SESSIONS

AUDITORIUM

10:00 - 12:20 • Strategy for a Non-Toxic Environment: Addressing Persistence

THEATRE

10:00 - 12:20 • Levels in Human Foods and Animal Feeds

CHAMBER 1

10:00 - 12:40 • QAQC of POPs Analysis – Recent ISO and National Standards

CHAMBER 2

10:00 - 12:40 • European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed

CONFERENCE 1

10:00 - 12:20 • Dioxins and other POPs in Vietnam and Humans after Agent Orange

CONFERENCE 2

10:00 - 12:20 • Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds

Q Hotel Plus

14:20 – 18:30 PCB Workshop • Novel Studies on PCB Toxicity and Mechanisms Action

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08:00 - 18:30 h	Registration : Foyer 0		
08:30 - 09:15	Plenary 5	*12:20 – 13:05*	Lunch & side meetings
09:15 - 09:40	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop
		19:00 – 24:00	Gala Dinner • Royal Summer Castle Niepołomice

SESSIONS

AUDITORIUM

09:40 - 12:20
- Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals and Personal Care Products that can act as pseudo-POPs

13:40 – 18:10
- POPs in Polar, Circumpolar and Alpine Regions

THEATRE

09:40 - 16:00
- Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental

16:30 – 18:10
- Exposure – POPs in Pets and Their Applicability as Models for Human Health

CHAMBER 1

09:40 - 12:20
- Sources, Fate, Transport, Modelling and Inventories

13:40 – 18:10
- Non-target Screening – Multimedia analysis

CHAMBER 2

09:40 - 16:00
- Ecotoxicology and Environmental Toxicology of POPs

16:30 – 18:10
- Epidemiology

CONFERENCE 1

09:40 - 16:00
- Halogenated PAHs and PAHs

16:30 – 18:10
- Endocrine Disruption: Multi-models, Mixtures, and Translation

CONFERENCE 2

09:40 - 12:20
- Fate and Behavior of Volatile Methylsiloxanes in the Environment

13:40 – 16:00
- Organometallic Contaminants

16:30 – 18:10
- Risk Assessment and Risk Management

CONFERENCE 3

09:40 - 12:20
- Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs

Q Hotel Plus

13:40 – 18:30
PCB Workshop • PCB Regulations for Health Protection: Recent Actions, Ongoing Initiatives, and Future Perspectives

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09:30 - 10:15	Plenary 6	*12:00 – 12:30*	O. Hutzinger Awards
10:15 - 10:45	Coffee	*12:30 – 13:00*	Dioxin 2019 Kyoto
10:45 - 12:00	Highlights	*13:00 – 13:30*	Lunch

Dragon of Wawel Hill

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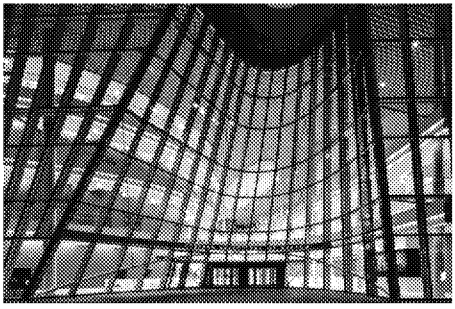
Informal Get-together on August 26
ICE Congress Centre Foyer 0 • 16:00 – 18:00

Attendance to this event is included in the registration fee. Dress code: causal.

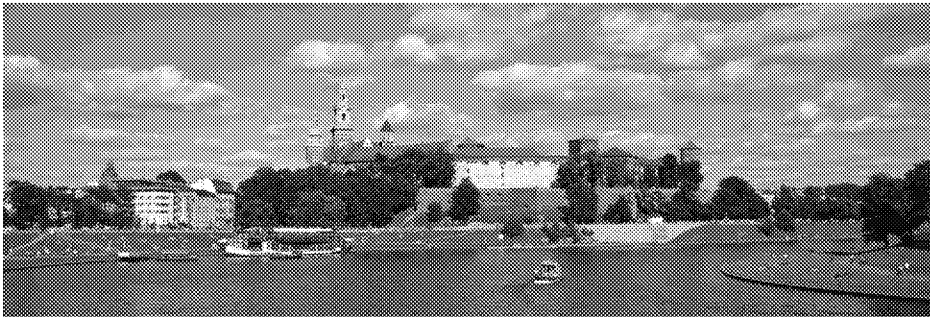
All registered delegates, accompanying persons and sponsors are invited to an informal drink in the in the official venue of the Dioxin 2018, the ICE Kraków Congress Centre. Drinks and snacks will be served.

Concert and City Hall Reception on August 27
ICE Congress Center • 19:00 – 21:30



Attendance to this event is included in the registration fee. Dress code: causal.

All registered delegates, accompanying persons and sponsors are invited to an informal drink in the in the official venue of the Dioxin 2018, the ICE Kraków Congress Centre. Drinks and food will be served.



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Konstanty Andrzej Kulka is a Polish violinist, recording artist, and professor of the Fryderyk Chopin University of Music in Warsaw since 1994, also heading the Institute of String Instruments there. Kulka graduated with honours from the Stanisław Moniuszko Academy of Music in Gdańsk in 1971. When Kulka was seventeen he received a recognition prize at the International Niccolò Paganini Violin Competition in Genoa but his road to fame began after the International Radio Contest ARD in Munich in 1964, where he was awarded the first prize. In that very moment, his international career started. As a soloist, he has been a guest of many prestigious orchestras (including the Berliner Philharmoniker, the Chicago Symphony Orchestra, the London Symphony Orchestra, the English Chamber Orchestra, the Royal Concertgebouw Orchestra, the Minneapolis Symphony Orchestra and the Saint Petersburg Philharmonic Orchestra) and performed at many esteemed music festivals, for instance in Lucerne, Bordeaux, Flanders, Berlin, Prague, Barcelona, Brighton, and Warsaw. An important place among Kulka's artistic tours is occupied by his performances with the National Philharmonic Orchestra, with which in 1971 he completed the longest tour in his career (Africa, Asia, and Australia).

In programme: "***Rondeau de concert***" by Karol Józef Lipiński and variations on a theme of the "***La Cenerentola***, *ossia La bontà in trionfo*" (Gioacchino Rossini), Op. 11 by Karol Józef Lipiński.

Konstanty Andrzej Kulka – violin, Andrzej Gębski – violin, Andrzej Wróbel – cello.

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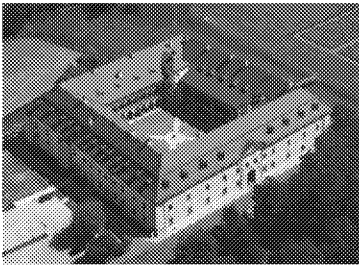
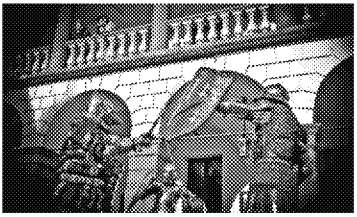
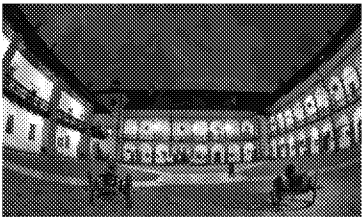
Gala Dinner in the Niepołomice Royal Castle on Thursday August 30, 2018 • 19:30 – 24:00







Ticket is needed to attend this event (see at registration section).

Dress code: causal

The Niepołomice Castle was built by order of King Casimir III the Great (ruled from 1333 to 1370) on the slope of the Vistula valley, to serve as a retreat during the hunting expeditions to the nearby Niepołomice Wilderness. The castle consisted of three towers, buildings in the southern and eastern wing, and curtain walls around the courtyard. King Sigismund I the Old rebuilt the structure, giving it the form of a quadrangle with an internal courtyard. Queen Bona Sforza's gardens were located on the southern flank.

In 1550 the great fire destroyed the east and north wings. The reconstruction works were conducted in 1551-1568. The biggest change was when they rebuilt the gallery in an Early Baroque style, between 1635 and 1637.

Troops of the Swedish king Charles X Gustav robbed and destroyed the castle during the Swedish-Brandenburgian invasion in 1655, what brought an end to the magnificence of the place. In the 18th century it was acquired by King Augustus II the Strong and Augustus III.

The reconstruction of the former royal residence began in 1991, when it became the property of Niepołomice Municipality. The facility is managed by the Foundation of the Royal Castle in Niepołomice.

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Optional Tours

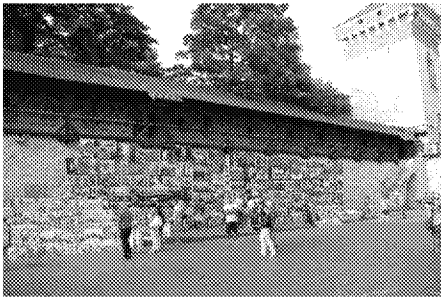
Kraków Sightseeing

Kraków is one of the oldest and most beautiful cities in Central Europe, chosen as the European City of Culture 2000. The Old Town of Kraków was entered on the UNESCO World Cultural Heritage List. Kraków has a unique charm, created by centuries of history and cultural wealth.

Barbican, Florian Gate; Kazimierz – former Jewish District; Wawel Hill – Royal Castle, Royal Cathedral and Chambers; walking via Royal Route – Grodzka Street to Old Market Square (European largest Medieval square) with the Renaissance Cloth Hall – Sukiennice and St. Mary's Basilica with the unique altar curved in wood in 15th century.

Wawel Castle is a fortified architectural complex on the left bank of the Vistula River in Kraków. The complex consists of many buildings and fortifications; the largest and best known of these are the Royal Castle and the Wawel Cathedral.
Market Square It's the central point of Kraków, with handcraft stores, street artists, and flower shops. It's surrounded by restaurants and has a lot of buildings with touristic interest. The Market Square was built in 1257 after the Mongol hordes invaded Poland and razed the city. At the time it was the largest market square in Europe and still has a vibrant atmosphere.

The Church of St. Mary´s dominates the Kraków skyline and is responsible for a very timely and familiar sound. It is from here that visitors will hear a bugle call on the hour every hour ring out across the city, a historical tradition that continues to this day.
Cloth Hall (Sukiennice) is one of the symbols of the city. It is a central building in the Market Square in an Old town. Apart from small shops under arcade there is also The Gallery of 19th – Century Polish Art. The Medieval Shopping Centre was built in 1257, but the original structure needed renovating after it was ravaged by fire in 1555.
Sightseeing time: Approximately 4 hrs.



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Wieliczka Salt Mine (Tourist Route)

During the tour through the Mine, You will see underground chambers hewn out in the salt rock, statues sculpted in salt and saline lakes. Visitors may take a walk of 2.5 km through 3 levels, down to 136 meters below ground level. This point of our tourist program is also entered on the UNESCO List of World Heritage.
The historic Salt Mine in Wieliczka is the only mining site in the world functioning continuously since the Middle Ages. Its original excavations (longitudinals, traverses, chambers, lakes, as well as minor and major shafts) are located on nine levels and extend for the total of about 300 km: reaching the depth of 327 m they illustrate all the stages of mining technology development over time.

Sightseeing time: Approximately 4 hrs

Comfortable clothes and shoes suggested.

IMPORTANT: The maximum size of hand luggage cannot be larger than 29.7 cm x 20 cm x 20 cm. Larger backpacks, bags, suitcases should be left on coaches or taken to the luggage room located in the area of the entrance to the museum. Please note, our company is not responsible for your items.
Note:
- this tour is not recommended for those, who have problems with walking or are claustrophobic
- to get to the 1st level, all tourists need to descent a wooden stairway of 378 stairs
- underground temperature: +14 °C (55 °F)
- ID card for students is necessary

Miners' Route: Reservations - Miners' Route (look for information and book yourself at https://www.wieliczka-saltmine.com/visiting/visitor-s-guide/reservations/reservations-miners-route).

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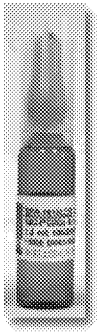

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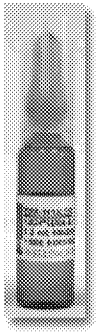

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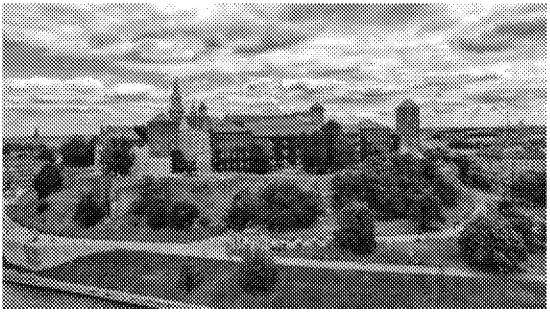
Pre- and Post-Symposium Tours

Wawel Hill and Wawel Castle Royal Chambers + „Lady with an Ermine" National Museum in Krakow - Exclusive tour on request

Krakow is one of the oldest and most beautiful cities in Central Europe, chosen as the European City of Culture 2000. The Old Town of Krakow was entered on the UNESCO World Cultural Heritage List. Kraków has a unique charm, created by centuries of history and cultural wealth. With its very special climate of culture and art, this city gives us a lesson about the history of Poland and Europe. It is a place You will keep coming back to, each time to discover new objects of startling beauty. We invite you for a Wawel Hill sightseeing and the Royal Chambers visit.
The main exhibition of the castle's interiors includes several rooms on the ground floor and guest apartments on the second floor. The three rooms on the ground floor, which served as the suite of the Governors of Cracow, have retained their Renaissance wooden ceilings. Their stone portals were reconstructed in the inter-war period. The Envoys' Stairway which connects the ground level with the private royal apartments on the first floor and the rooms on the second floor boasts original Renaissance portals. The second floor of the eastern and northern wings houses guest apartments. Their original ceilings were damaged by fire in 1702 and again during the Austrian occupation in the early 19th century. Large fragments of original wall friezes are preserved in the three rooms located to the south of the Envoys' Stairs (missing fragments were reconstructed before the Second World War). The Envoys' Room boasts an astonishing ceiling with woodcarvings of 30 human heads. Tapestries commissioned by Sigismund Augustus are the most valuable treasure of the Renaissance rooms, and the only art object preserved from the original interior decoration. Woven in Brussels in the third quarter of the 16th century, they depict biblical and grotesque scenes, and the coats of arms of Poland and Lithuania. There are also valuable paintings, Italian furniture, predominantly from 16th century Tuscany, and Polish royal portraits.



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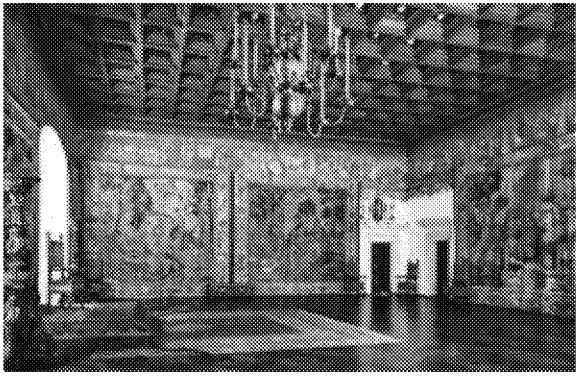
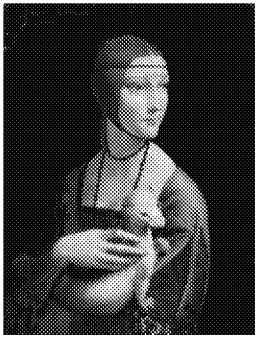
Than we invite you to take a little walk to the National Museum in Kraków to see the Leonardo Da Vinci „Lady with an Ermine". The painting was purchased ca. 1800 in Italy, by Adam Jerzy, the son of Princess Izabela Czartoryska, and donated to the Museum in Puławy where it was exhibited in the 'Gothic House' from 1809–1830 and now you have an unique opportunity to meet a Lady in Kraków.

Start/end Times
to be announced
Availability for request, for minimum 2 persons
Duration
Approximately 3 hrs
Live guide language
English speaking tour leader
Tickets
Entrance ticket to the National Museum in Kraków
Dress code suggestion
Comfortable clothes and shoes





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Wieliczka Salt Mine – Miners' Route – tour on request

Covered in working clothes and armed with mining equipment, the visitors to the Wieliczka mine stop feeling like tourists as soon as they descend into the darkness by the oldest existing mine shaft, the Regis. Each of them is attributed a mining profession and tasks by the guide, known at the mine as the Foreman, who will carefully evaluate their execution. In this manner, visitors become novice miners (Slepry) and start to learn the ropes of this demanding profession guided by the light of their mining lamps.

The trail, located far off the busy Tourist Route, allows the visitors to discover the inner workings of the mine. On their own, they measure the concentration of methane, dig and transport salt, set the path and explore unknown chambers. They also experience the daily routine of underground life and the secrets of mining traditions and rituals, and experience first-hand the real taste of miners' work.

Start/end Times
to be announce
Availability
for request – maximum for 20 people
Duration
Approximately 3 hrs
Live guide language
English speaking tour leader
Dress code suggestion
Comfortable clothes and shoes

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Wieliczka Salt Mine – Tourist Route

During the tour through the Mine, You will see underground chambers hewn out in the salt rock, statues sculpted in salt and saline lakes. Visitors may take a walk of 2.5 km through 3 levels, down to 136 meters below ground level. This point of our tourist programme is also entered on the UNESCO List of World Heritage. The historic Salt Mine in Wieliczka is the only mining site in the world functioning continuously since the Middle Ages. Its original excavations (longitudinals, traverses, chambers, lakes, as well as minor and major shafts) are located on nine levels and extend for the total of about 300 kilometres: reaching the depth of 327 meters they illustrate all the stages of mining technology development over time.

Start/end Times
9:10 am / about 1:00 pm

Availability
Tour is available daily in the morning, all year round.

Duration
Approximately 3.5 hrs

Transportation
Bus/Minibus

Live guide language
English speaking tour leader

Tickets
Entrance ticket to the Salt Mine
Dress code suggestion
Comfortable clothes and shoes.

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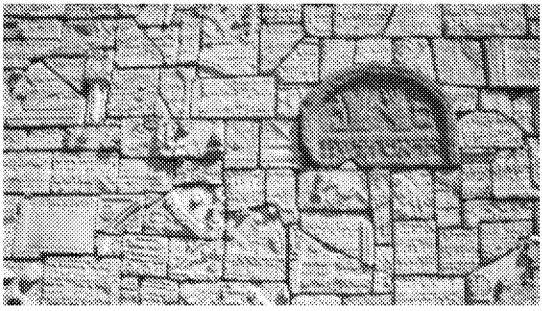
Kazimierz Jewish District

Krakow – Kazimierz, historical centre of Jewish religious and social life

This tour leads You into the south-east district of Kraków – Kazimierz, historical centre of Jewish religious and social life. Kazimierz was originally founded as a separate town near Kraków where, since 14th century Jews had the right to settle down. Szeroka Street is a remnant of the former market square with Old Synagogue, Isaac's Synagogue and Remuh Synagogue. You will also visit Podgórze quarter – where ghetto was established and Schindler's factory on 4 Lipowa Street (during WWII enamelled pots and pans were manufactured here. Oskar Schindler, an ethnic German industrialist from Czechoslovakia, saved Jews from labour camps by employing them in this factory. His story was told in Schidler's List).



Availability
Tour is available every Monday, Tuesday, Thursday and Friday, all year long, for minimum 2 persons
Start/end Times
9:10 am / 12:40 pm
Duration
Approximately 3.5 hrs
Transportation
Bus/Minibus
Live guide language
English speaking guide
Dress code suggestion
Comfortable clothes

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Zakopane and Tatra Mountains Samples of Wooden Architecture

Allow us to transport you to a different world, untouched by time. Discover marvellous landscapes, harken to highland folklore, explore rustic wooden houses and delight in local specialties. During the tour, You will discover the marvellous landscape of the Tatry mountains, highlander's folklore, wooden houses in Chocholow and local specialties. We will step by to the Tatra's Museum followed by a funicular ride up the Gubałowka Mt. Zakopane is a town in southern Poland, situated in Lesser Poland Province. The town, a place of Goral culture and informally known as „the winter capital of Poland," lies in the southern part of the Podhale region at the foot of the Tatra Mountains. It is the most important Polish centre of mountaineering and skiing and is visited annually by some three million tourists. It is also a city with numerous monuments of old wooden buildings built in an unique regional style.

Route:
Kraków – Zakopane – Chocholow – Kraków (240 km round trip)
Start/end Times
9:10 am / ~ 5:00 pm
Duration
Approximately 8 hrs
Availability
Tour is available every Tuesday and Sunday, all year long, for minimum 2 persons.
Transportation
Bus/Minibus
Live guide language
English speaking guide
Tickets
Ticket for the funicular to the Gubałowka Mt. and to the Tatra's museum
Dress code suggestion
Comfortable walking shoes and clothing

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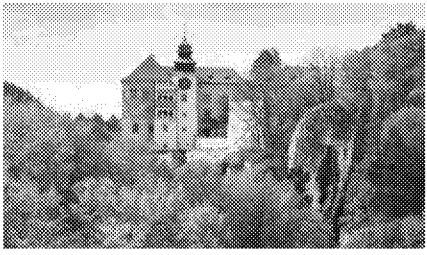
Ojców Jurassic Landscape National Park Tour

Experience the majestic awe-inspiring natural contours of a Jurassic Landscape. Driving along a winding road, we pass breath-taking Jurassic rock formations such as the "Cracovian Gate" and the „Club of Hercules" – the unbelievable limestone column, which seems to be placed upside down. You will see the ruins of Ojcow Castle , the „little church on the water" and one of Poland's masterpieces of Renaissance palace architecture – the Pieskowa Skała Castle. Here you can see virtually all of the natural components of a Jurassic landscape. On the route along the tourist „Eagles' Nests Trail", you visit one of Poland's masterpieces of Renaissance palace architecture, Pieskowa Skała Castle, towers over a steep rocky crag. We visit the three-storeyed trapezoid. The Castle at Pieskowa Skała and the Ojcow National Park

Castle Pieskowa Skala

In the Ojcow National Park, which covers a surface area of 1,440 hectares in the Valley of the Prądnik enclosed by the Pieskowa Skała cliffs, you can see virtually all of the natural components of a Jurassic landscape. Driving along a winding road, we pass breath-taking Jurassic rock formations such as the Cracovian Gate and the Club of Hercules. We take a walk around the ruins of Ojcow Castle and visit the „little church on the water". One of Poland's masterpieces of Renaissance palace architecture, Pieskowa Skala Castle, towers over a steep rocky crag.



Route:
Kraków – Ojcow – Pieskowa Skala – Kraków (62 km round trip)
Start/end Times
9:10 am / about 1:00 pm
Duration
Approximately 4 hrs<
Availability
tour is available Wednesday for minimum 2 persons, from April until October
Transportation
Bus/Minibus
Live guide language
English speaking guide
Tickets
Admission fees to the castle in Pieskowa Skała
Dress code suggestion
Comfortable footwear and warm clothing

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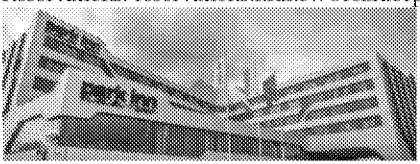
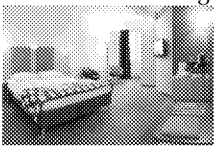
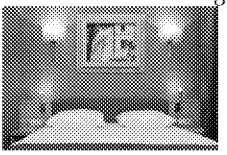
Park Inn Hotel Krakow City Centre
2 Monte Cassino Street, Kraków; Distance to/from ICE: 150 m, walking time: 1 min.
Reservations: reservations.krakow@rezidorparkinn.com



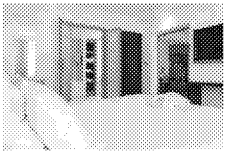
Galaxy Hotel
22A Gęsia Street, Kraków; Distance to/from ICE: 2300 m, walking time: 28 min.
Reservations: hotel@galaxyhotel.pl



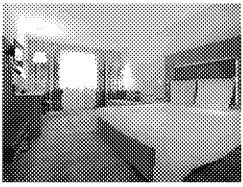
Legend Hotel Kraków
12 St. Gertrudy Street, Kraków; Distance to/from ICE: 3300 m, walking time: 17 min.
Reservations: hotel@legend-hotel.pl



Novotel Krakow City West
11 Armii Krajowej Street, Kraków; Distance to/from ICE: 4000 m, walking time: 50 min.
Reservations: h3407-re@accor.com

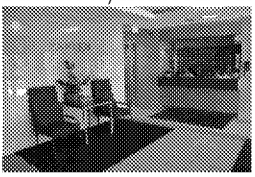


Novotel Krakow City Centre
5 Tadeusza Kościuszki Street, Kraków; Distance to/from ICE: 4000 m, walking time: 50 min.
Reservations: 3372@accor.com

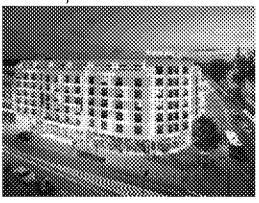


ED_002435_00005507-00055

The Olimp Hostel
Kraków, 9 Rostafińskiego Street
Reservations directly in Olimp Hostel. Price from 15 euro person per night.
http://taniehostele.pl/en/hostels.html
rezerwacje@taniehostele.pl
BOOKING BY PHONE
+48 12 622 46 00, +48 12 617 37 01
Distance to/from ICE: 3400 m, walking time: 40 min.

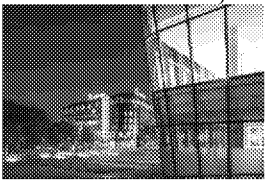


Mercure Krakow Old Town
18B Pawia Street, Kraków
https://www.accorhotels.com/pl/hotel-9627-hotel-mercure-krakow-stare-miasto/index.shtml



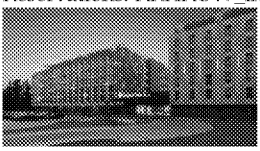
B&B Hotel Krakow Centrum
Kraków, 1 Monte Cassino Street;
Distance to/from ICE: 250 m. walking time: 3 min.
Reservations: karolina.ciaston@hotelbb.com or krakow@hotelbb.com

Q Hotel Plus Kraków
6 Wygrana Street, Kraków; Distance to/from ICE: 50 m, walking time: 1 min.
Reservations: rezerwacje.krakowplus@qhotels.pl

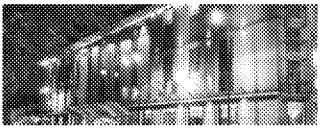


ED_002435_00005507-00056

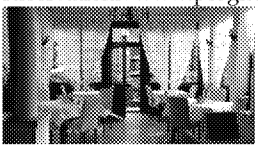
DoubleTree by Hilton Krakow
Kraków, 5 Dąbska Street; Distance to/from ICE: 7500 m, walking time: 50 min.
Reservations: KRAKOW_info@hilton.com



Radisson Blu Krakow
Krakow, 17 Straszewskiego Street; Distance to/from ICE: 2500 m, Walking time: 19 min.
Reservations: michal.elster@radissonblu.com

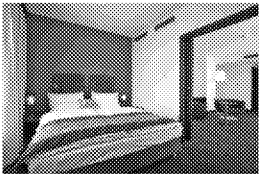


U Pana Cogito Guesthouse Krakow
6 Bałuckiego Street, Krakow; Distance to/from ICE: 650 m, walking time: 8 min.
Reservations: www.pcogito.pl



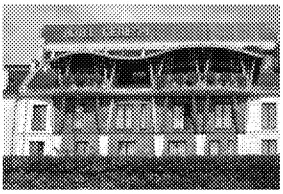
Wit Stwosz Hotel ***
Kraków, 28 Mikołajska Street; Distance to/from ICE: 3900 m, walking time: 25 min.
Reservations: hotel@hotelws.pl

Andel's Hotel Krakow
Krakow, 3 Pawia Street; Distance to/from ICE: 4000 m, walking time: 30 min.
Reservations: reservation.andels-cracow@viennahouse.com or groups.andels-cracow@viennahouse.com

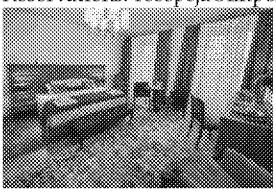


ED_002435_00005507-00057

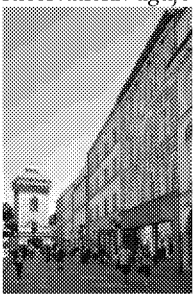
Niebieski Hotel
Kraków, 3 Flisacka Street; Distance to/from ICE: 4400 m, walking time: 22 min.
Reservations: hotel@niebieski.com.pl



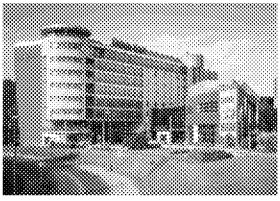
Imperial Hotel
Kraków, 26 Main Square/2 Wiślna Street; Distance to/from ICE: 4000 m, walking time: 23 min.
Reservations: recepcja@imperial-hotel.pl



Jagiellonian University Guest House
Kraków, 49 Floriańska Street; Distance: 2200 m, walking time: 29 min.
Reservations: dguj@uj.edu.pl

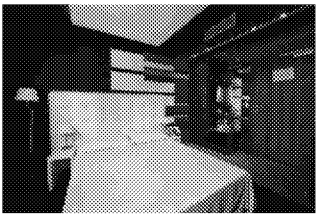


Qubus Hotel Krakow
6 Nadwiślańska Street, Kraków; Distance to/from ICE: 2400 m, walking time: 24 min.
Reservations:
https://www.qubushotel.com/checkout/roomlist/krakow?noBookingEngine=1&city=1&dateFrom=2018-08-25&dateTo=2018-08-28&promotionCode=DIOXIN2018&x=46&y=7



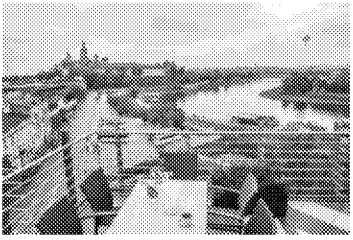
ED_002435_00005507-00058

Best Western Plus Kraków Old Town***
Krakow, 6 Św. Gertrudy Street; Distance to/from ICE: 1500 m, walking time: 19 min.
Reservations: https://www.bwoldtown.pl/en/contact

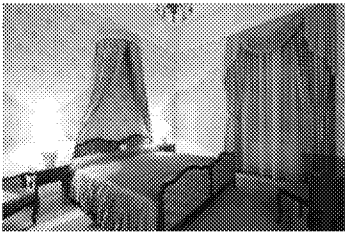


Copernicus Hotel Kraków
16 Kanonicza Street, Kraków; Distance to/from ICE: 2900 m, walking time: 22 min.
Reservations: copernicus@hotel.com.pl

Kossak Hotel Krakow
1 Kossaka Square, Kraków; Distance to/from ICE: 2800 m, walking time: 24 minutes
Reservations: kossak@hotelkossak.pl



Grand Hotel Krakow
5/7 Sławkowska Street, Kraków; Distance to/from ICE: 4300 m, walking time: 38 min.
Reservations: hotel@grand.pl



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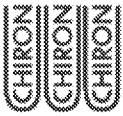

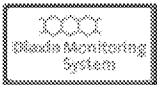

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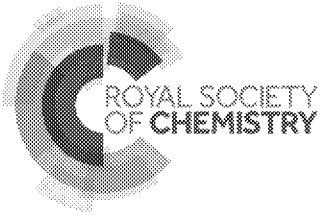

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Presentations from our invited speakers will cover various aspects of environmental research including analysis of PFAS, Dioxins, and other POPs, as well as targeted and untargeted environmental analysis approaches.

We are excited to have guest speakers from around the globe, including speakers from Laberca, INSPQ, Örebro University, and Pennsylvania State University.

[Title]

Advances in Environmental Research
Waters Users' Meeting

[When]

Sunday, August 26, 2018
13:00 - 15:00

15:00 - 16:00
Reception
Light food and refreshments

[Where]

ICE Krakow Congress Centre
ICE Foyer 3, Chamber 2

We hope to see you there and look forward to discussing your current applications with you.

Please R.S.V.P. by August 19th.
For more information and to pre-register, visit www.waters.com/environmentalusersmeeting

Space is limited, pre-registration is required.

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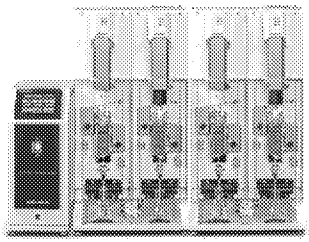

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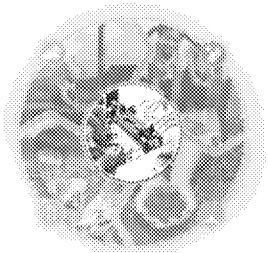
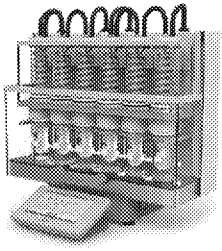


Analytical standards for POPs
- Dioxin $^{13}C/^{37}Cl$
- PCBs $^{13}C/^{37}Cl$
- Flame retardants $^{13}C/^{37}Cl/d$ Pesticides $^{13}C/^{37}Cl/d$
- PAH $^{13}C/^{37}Cl/d$ Contaminants $^{13}C/^{37}Cl/d$

CentriVap concentration
- Centrifuge, vacuum and heat
- Up to 66 samples simultaneously 2-4ml
- Larger extracts, exchange rotor



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- 3 - 6 extractions simultaneously

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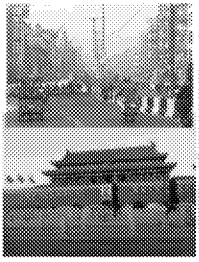
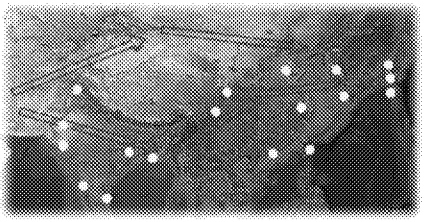
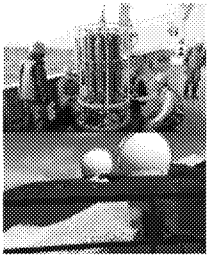
PFASs in Asia

Water quality — Determination of polyfluorinated alkyl substances (PFAS) in water — Method using solid phase extraction and liquid chromatography-tandem mass spectrometry (LC-MS/MS)

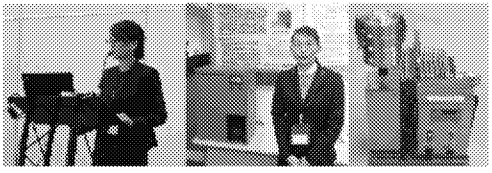
ISO/TC 147/SC 2 N

Date: 2018-03-13

ISO/CD 21675:2018(E)

ISO/TC 147/SC 2/WG 74 **N 14**

Secretariat: DIN



Air quality — Determination of polyfluoroalkyl substances (PFAS) in ambient air — Part 1: Active sampling of particle by cascade impactor and vapour by adsorption cartridge

Air quality — Determination of polyfluoroalkyl substances (PFAS) in ambient air — Part 2: Analysis using liquid chromatography-tandem mass spectrometry (LC-MS/MS)

Air quality — Determination of polyfluoroalkyl substances (PFAS) in ambient air — Part 3: Analysis using gas chromatography mass spectrometry (GC-MS)

AIST

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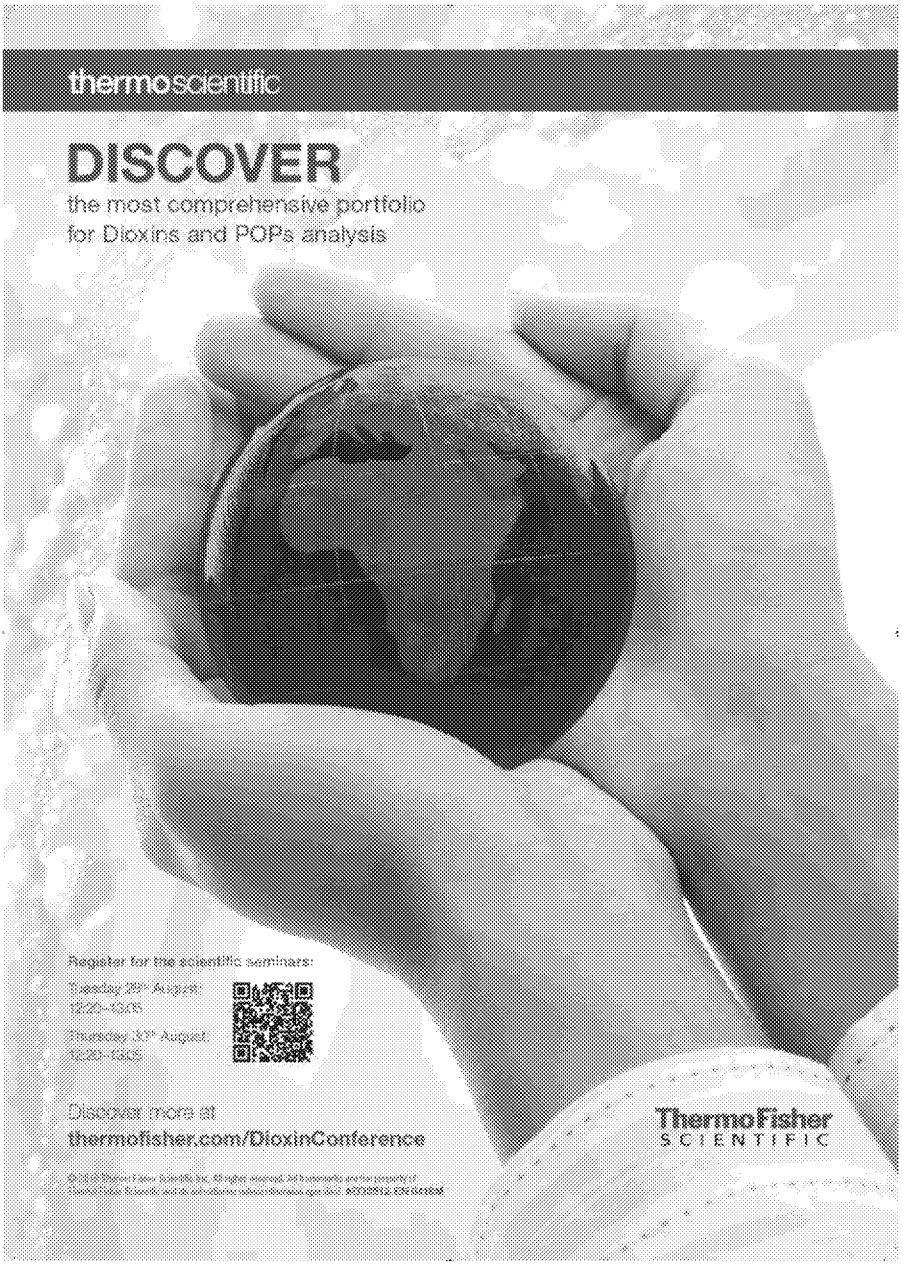
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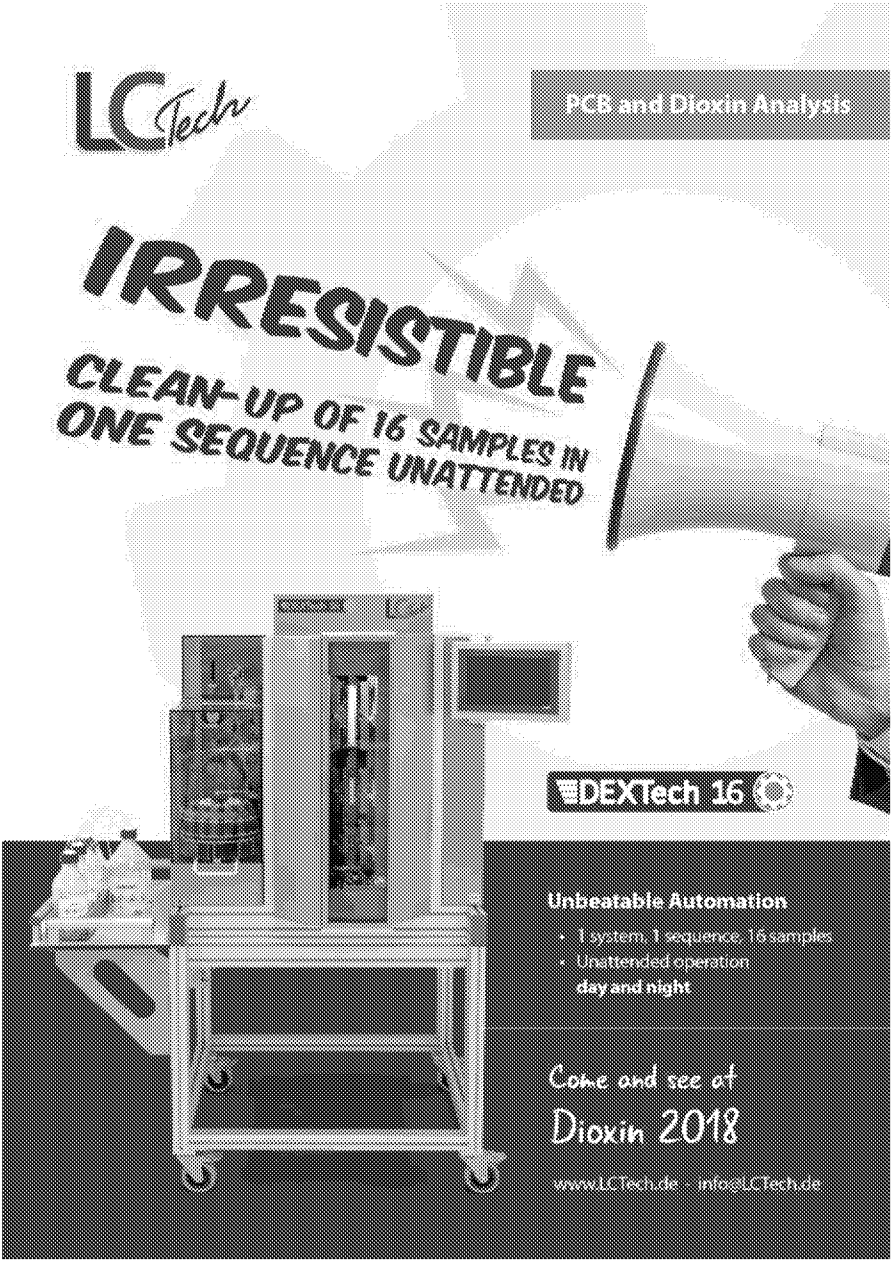
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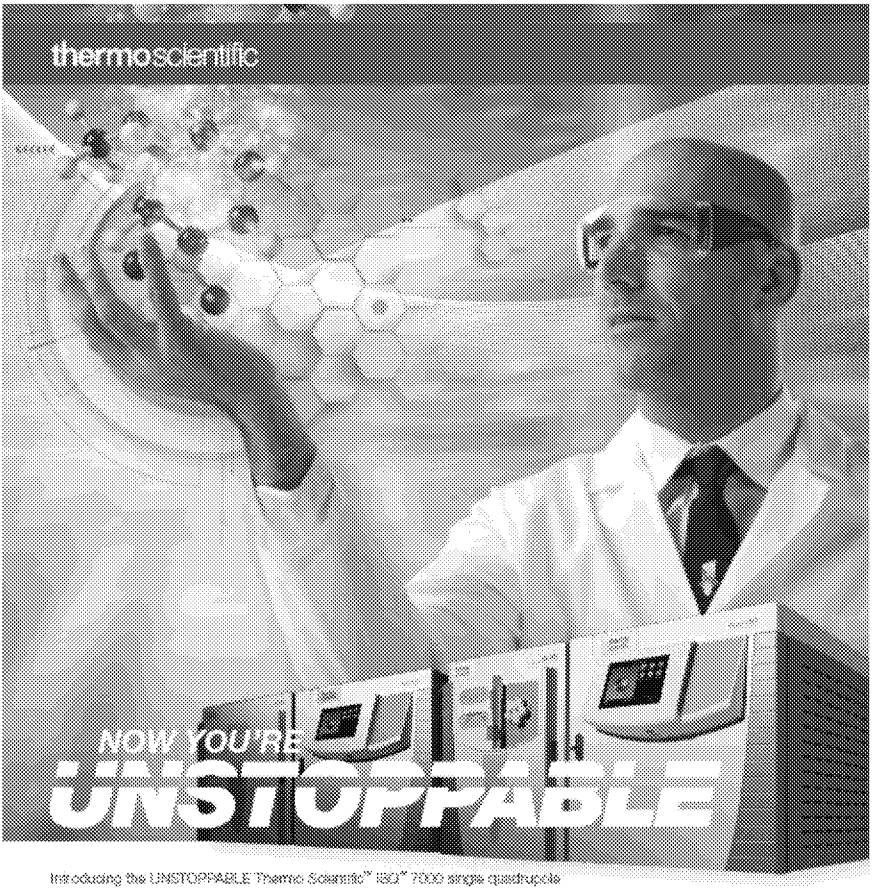

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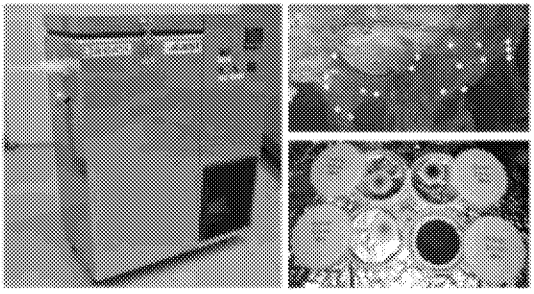
Cryogenic Air Sampler for POPs



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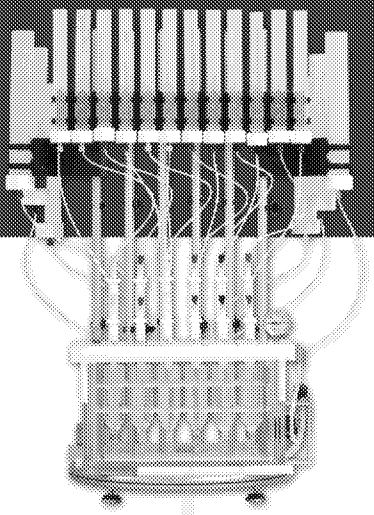

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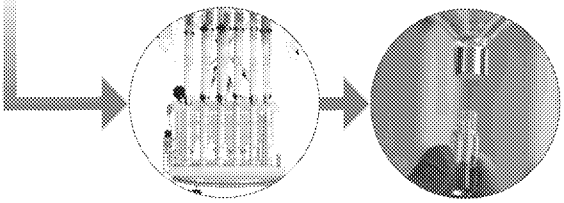

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Fast	**30 to 45 minutes**
Green Technology	**Zero DCM**
High Throughput	**6 Samples in Parallel**
Quality Consumable	**Guaranteed Certified Columns**
Low Solvent	**As Low as 90 ml Per Sample**
Reliable	**No Electronic or Mechanical Components to Fail**
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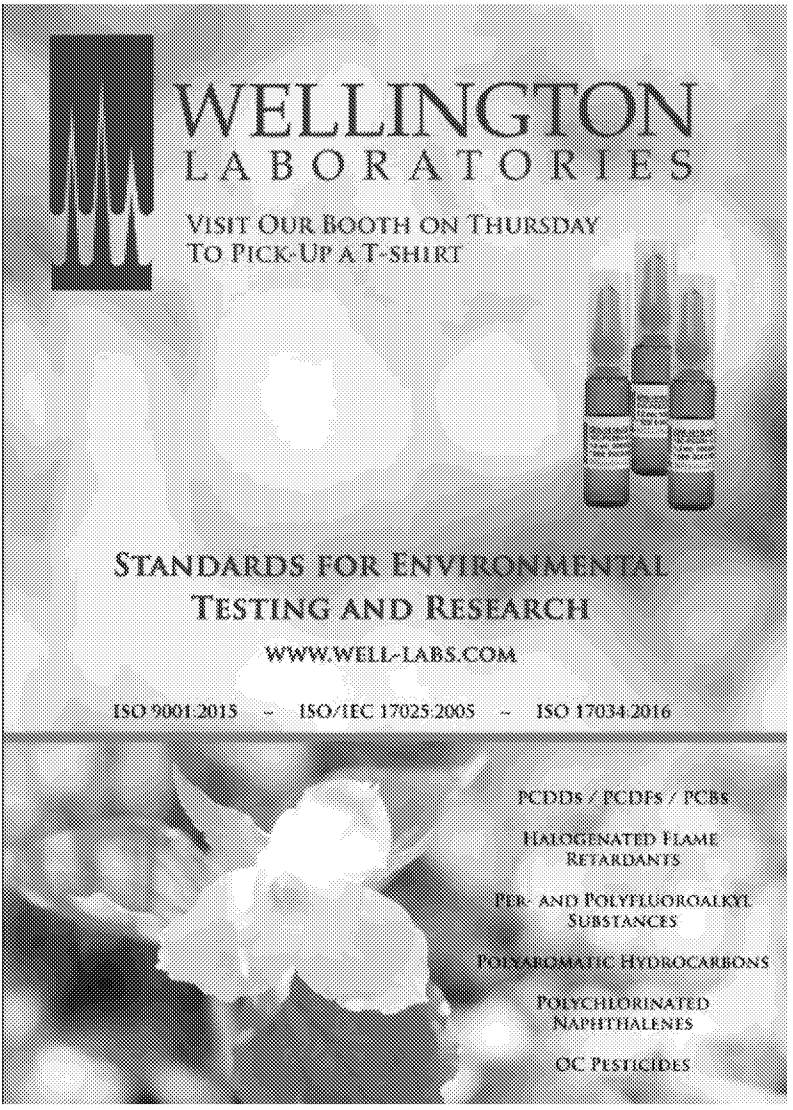

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DIOXIN 2018
KRAKÓW • POLAND

Programme

Sunday, August 26

ED_002435_00005507-00076

Time frames	Event	Place

Registration : ICE Foyer 0

08:00 – 18:00

Users' meetings

09:00 – 16:00	**ThermoFisher**	Chamber 1
13:00 – 16:00	**Waters**	Chamber 2

Social program

16:00 – 18:00	**Informal Get Together**	Foyer level 0

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DIOXIN 2018
KRAKÓW • POLAND

Programme

Monday, August 27

ED_002435_00005507-00078

07:00 - 18:30 h	Registration : Foyer 0		
08:00 - 08:30	Opening	*12:40 – 13:25*	Lunch & side meetings
08:30 - 09:15	Plenary	*13:25 – 14:00*	Posters & exhibition
09:30 - 10:00	Coffee	*14:00 – 16:00*	SESSIONS & PCB Workshop
10:00 - 12:40	SESSIONS	*16:00 – 16:30*	Coffee
		16:30 – 18:30	SESSIONS & PCB Workshop
		19:00 – 21:30	Concert & City Hall Reception

SESSIONS

AUDITORIUM

10:00 - 18:10 • Legacy and Emerging Fluorinated Organic Compounds - Update

THEATRE

10:00 - 16:00 • Legacy and Emerging Flame Retardants: Environmental Levels and Human Exposure

16:30 – 18:10 • Legacy and Emerging Flame Retardants: Metabolism and Toxicokinetics

CHAMBER 1

10:00 - 12:40 • Biodetection Methods for POPs and Related Food and Environmental Contaminants

14:00 - 18:10 • An Analytical Update for Dioxins and Related Halogenated Compounds

CHAMBER 2

10:00 - 15:40 • Biochemistry and Toxicology of POPs

16:30 – 18:30 • Endocrine Disruption: Biochemical and Molecular Mechanisms

CONFERENCE 1

10:00 - 18:10 • Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs)

CONFERENCE 2

10:00 - 12:40 • Abiotic Environmental Compartments

14:00 - 17:50 • Contaminated Sites – Cases, Remediation, Risk and Management

Q Hotel Plus hall

14:00 - 18:30 International PCB Workshop • Stockholm Convention, Sources, Exposures, Inventories and Actions to Reduce Exposures

ED_002435_00005507-00079

Time frames	Event	Place
08:00 – 08:30	**Opening ceremony**	**Auditorium**
	Plenary lecture	
08:30 – 09:15	Bioanalytical tools for the assessment of mixtures of organic micropollutants in water, sediment, biota and people • *Beate Escher*	**Auditorium**
09:30 – 10:00	**Coffee break & exhibition**	**Foyer 1 & 2**
10:00 – 12:40 14:00 – 16:00 16:30 – 18:10	Legacy and Emerging Fluorinated Organic compounds - Update • *Nobuyoshi Yamashita, Kurunthachalam Kannan*	**Auditorium**
10:00 – 12:20 14:00 – 16:00	Legacy and Emerging Flame Retardants: Environmental Levels and Human Exposure • *Gang Yu, Adrian Covaci*	**Theatre**
16:30 – 18:10	Legacy and Emerging Flame Retardants: Metabolism and Toxicokinetics • *Mohamed Abdallah, Malarvannan Govindan*	
10:00 – 12:40	Biodetection Methods for POPs and Related Food and Environmental Contaminants • *Daniela Meloni, Kenneth Sajwan*	**Chamber 1**
14:00 – 15:40 16:30 – 18:10	An Analytical Update for Dioxins and Related Halogenated Compounds • *Jean F Focant, Paweł Rostkowski*	
10:00 – 12:20 14:00 – 15:40	Biochemistry and Toxicology of POPs • *Jae-Ho Yang, Anna Kilanowicz-Sapota*	**Chamber 2**
16:30 – 18:30	Endocrine Disruption I: Biochemical and Molecular Mechanisms • *Ewa Gregoraszczuk, Mike Denison*	
10:00 – 12:40 14:00 – 16:00 16:30 – 18:10	Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs) • *Alwyn Fernandes, Vladimir Nikiforov*	**Conference 1**
10:00 – 12:40	Abiotic Environmental Compartments • *Magdalena Urbaniak, Takashi Nakano*	**Conference 2**
14:00 – 16:00 16:30 – 17:50	Contaminated Sites – Cases, Remediation, Risk and Management • *Barbara Wyrzykowska-Ceradini, Ivan Holoubek*	

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Time frames	Event	Place
12:40 – 13:25	**Lunch**	**Foyer 0**
	Side meetings	
12:40 – 13:25	**Waters**	**Chamber 2**
12:40 – 13:25	**FMS**	**Conference 2**
13:25 – 14:00	**Posters, coffee & exhibition**	**Foyer 1 & 2**
14:00 – 16:00 16:30 – 18:30	10th International PCB Workshop Stockholm Convention, Sources, Exposures, Inventories and Actions to Reduce Exposures • *Niklas Johansson, Keri Hornbuckle*	**Q Hotel Plus**
19:00 – 21:00	**Concert & City Hall Reception**	**Auditorium / Foyer**

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Auditorium — Legacy and Emerging Fluorinated Organic Compounds – Update

** Nobuyoshi Yamashita, Kurunthachalam Kannan*

Past and current pollution 1

10:00 Thaker PN, Yamazaki E, **Taniyasu S**, Yamashita N, Makhija DD, Nirmal Kumar JI: *Historical reconstruction of per- and polyfluoroalkyl substances pollution in Cooum river, India by the Great South India Floods in 2015*

10:20 **Wang TY**, Zhou YQ, Meng J, Chen SQ: *Occurrence, mass flux, and risk ranking of emerging pollutants in municipal wastewater treatment plants*

10:40 Meng J, **Wang TY**, Zhou YQ, Li QF, Lu YL: *Downward trend of perfluorooctane sulfonate (PFOS) in China: based on dynamic life cycle analysis*

11:00 Qu Y, **Huang J**, Yu G, Jiang X, Li W, Liu L, Bao Y: *Monitoring poly- and perfluoroalkyl substances (PFASs) in drinking water treatment plant and distribution system in Changzhou, China*

11:20 **Zhu L**, Chen M, Chen W, Wang Q: *Partitioning and bioaccumulation of emerging and legacy per- and polyfluoroalkyl substances in Taihu Lake, China*

11:40 **Zhou Y**, Wang S, Ding G, Chen C, Chen H, Li Y, Wang X: *Levels and transportation of polyfluoroalkyl substances (PFASs) in the water and suspended particulate matter in the marine coastal environment of China, from the Yellow sea to the South China sea*

12:00 **Park H**, Choo G, Kim H, Oh J-E: *Evaluation of the current contamination status of PFASs and OPFRs in South Korean tap water associated with its origin*

12:20 **Coggan TL**, Kolobaric A, Walton F, Szabo D, Moodie D, Clark BO: *Investigation of the levels of per- and polyfluoroalkyl substances (PFAS) and PFAS precursor compound (PreFAS) contribution in aqueous matrices from Australian WWTPs*

Past and current pollution 2

14:00 **Nguyen HT**, Kaserzon SL, Vijayasarathy S, Braunig J, Thai PhK, Crosbie ND, Mueller JF: *Poly-/perfluoroalkyl substances in two large wastewater treatment plants in Australia: Occurrence, temporal trend and mass load*

14:20 **Leonel J**, Nascimento R, Zabaleta I, Bizkarguenaga E, Nunoo DBO, Schultes L, Prieto A, Zuloaga O, Benskin JP: *Sulfluramid as a source of PFOS in Brazil: what do we know?*

14:40 **Fredriksson F**, Yeung LWY, Kärrman A, Eriksson U: *Comparison of per-/polyfluorinated substances profiles and levels in bird eggs from South Africa and Nordic countries*

15:00 **Aro R**, Eriksson U, Kärrman A, Chen F, Wang T, Yeung LWY: *Per- and polyfluoroalkyl substance (PFAS) homologue profiles, including ultrashort-chain compounds, and extractable organofluorine (EOF) in wastewater treatment plant effluent and sludge from Nordic countries*

15:20 Bonnet BF, Barck-Holst E, Andersson H, **Ahrens L**: *Mass flow and fate of per- and polyfluoroalkyl substances in a landfill*

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15:40 **Joerss H**, Apel C, Ebinghaus R: *Occurrence and distribution of legacy and emerging per- and polyfluoroalkyl substances (PFASs) in surface waters and sediments of the German North and Baltic seas*

Exposure and risk 1

16:30 **Eun H**, Yamazaki E, Taniyasu S, Yamashita N: *Assessment of perfluoroalkyl substances (PFASs) in open field vegetables*

16:50 **Yamazaki E**, Taniyaus S, Noborio K, Falandysz J, Eun H, Yamashita N: *Potential accumulation of per- and polyfluoroalkyl substances in rice (Oryza sativa subsp. Indica)*

17:10 **Kim H**, Kim D-H, Lee J, Kim D-H, Oh J-E: *The field scale evaluation of uptake of PFASs from rice paddies to rice plant in South Korea*

17:30 Gebbink WA, **van Leeuwen SPJ**, Boon, PE, Mengelers, MJB: *Contamination of local vegetable gardens with GEnX and PFOA near a fluorochemical production plant in the Netherlands*

17:50 **Drage DS**, Wemken N, Abdallah M, Harrad S, Coggins M: *Concentrations of perfluoroalkyl substances in drinking water, indoor air and dust in Ireland: Implications for human exposure*

Theatre — Legacy and Emerging Flame Retardants: Environmental Levels and Human Exposure • *Gang Yu, Adrian Covaci*

10:00 Abdel Malak I, **Cariou R**, Dervilly-Pinel G, Jaber F, Le Bizec B: *Dechlorane related compounds dietary exposure in the Lebanese population*

10:20 **Chessa G**, Cossu M, Ledda G, Piras P, Fiori G, Sanna A, Marrosu R, Brambilla G: *Occurrence of kexabromocyclododecanes (HBCDDs) in seafood from the Sardinia Sea - FAO 3.1.3 area and its impact on human health within the Marine Framework Strategy Directive*

10:40 **Dreyer A**, Neugebauer F, Rüdel H, Paulus M, Lohmann N, Rauert C, Koschorreck J: *Halogenated flame retardants in biota samples from the German North- and Baltic Sea*

11:00 Ganci AP, Vane CH, Abdallah MA, Moehring T, **Harrad S**: *Legacy PBDEs and NBFRs in surficial sediments of the River Thames, UK*

11:20 **Niu D**, Qiu Y, Li L, Zhu Z, Yin D, Zhao J, Bergman Å: *Levels and human exposure of novel brominated flame retardants in floor and elevated surface house dust from Shanghai, China*

11:40 **Qiu Y**, Li L, Niu D, Zhu Z, Huang Q, Yin D, Zhao J, Bergman Å: *Size distribution of organophosphate flame retardants in settled house dust from Shanghai, China*

12:00 **Zhou L**, Püttmann W: *Occurrence and distribution of organophosphate flame retardants (OPFRs) in indoor dust from shops, homes and offices of the Rhine/Main region, Germany*

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14:00 **Gys C**, Kovačič A, Huber C, Oh J, Ahn YA, Kim S, Lai FY, Heath E, Covaci A: *Screening of in vitro and in vivo metabolites of bisphenol S by liquid chromatography coupled to quadrupole time-of-flight mass spectrometry*

14:20 **Kim H-J**, Lee Ch-H, Kim D-H, Oh J-E, Kim Ch-G: *Study on distributional characteristics of brominated flame retardants (PBDEs) according to land use of Seoul metropolitan region in Republic of Korea*

14:40 **Yaman B**, Dumanoglu Y, Odabasi M: *Atmospheric concentrations and gas – particle partitioning of organophosphate flame retardants in Izmir, Turkey*

15:00 **Genisoglu M**, Sofuoglu A, Kurt-Karakus PB, Birgul, A, Sofuoglu SC: *Alternative (novel) brominated flame retardants in PM1, PM10 and settled dust in a computer technical service*

15:20 **McGrath TJ**, Morrison PD, Ball AS, Clarke BO: *Legacy and novel brominated flame retardants in indoor dust in Melbourne, Australia: An assessment of human exposure*

15:40 **Tao F**, Sellström U, de Wit CA: *Organohalogenated and organophosphorus flame retardants in office air and dust in Sweden*

Theatre **Legacy and Emerging Flame Retardants: Metabolism and Toxicokinetics** • *Mohamed Abdallah, Malarvannan Govindan*

16:30 **Abdallah MA**, Nguyen KH, Harrad S: *First insight into human extrahepatic metabolism of flame retardants: Biotransformation of EH-TBB and Firemaster-550 by human skin subcellular fractions*

16:50 Hou X, **Liu J**, Jiang G: *Glycosylation of TBBPA in hydroponic exposed pumpkin plants*

17:10 **James MO**, Cisneros KV, Agarwal V: *Sulfonation and glucuronidation of hydroxylated bromodiphenyl ethers*

17:30 **Phillips AL**, Stapleton HM: *Inhibition of human liver carboxylesterase by organophosphate flame retardant & plasticizer esters: Implications for pharmacotherapy*

17:50 **Wei Y**, Xing X, Kang J, Qiu J, Zhong X: *Exposure to PBDEs impedes vascular development and alters gene expression related to angiogenesis and barrier function*

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Chamber 1 **Biodetection Methods for POPs and Related Food and Environmental Contaminants** • *Daniela Meloni, Kenneth Sajwan*

10:00 **Pan G**, Wei S: *Identification of endocrine disruptors in source water using effect directed analysis and reduced zebrafish transcriptome*

10:20 Schafberg M, **Lau AE**, Krauss UR, Brockmeyer B: *Towards a cost-effective and rapid toxicological screening method for organic contaminants in marine matrices using HPTLC-bioluminescence detection with Aliivibrio fischeri*

10:40 **Behnisch PA**, Besselink H, Alygizakis N, Slobodnik J, Brouwer A: *Effect-based screening of contaminants in effluents from waste water treatment plants in the Danube river basin*

11:00 **Schaechtele A**, Kraetschmer K, Schill S, Malisch R: *Evaluation of the EURL proficiency test results on the determination of dioxin-like compounds by bioanalytical screening methods*

11:20 **Meirong Z**: *Metabolites of chiral pesticides: a blind spot of risk assessment on pesticides*

11:40 **Francese DR**, Varello K, Pezzolato M, Prearo M, Bona MC, Abete MC, Squadrone S, Masoero L, Elia AC, Gasco L, Meloni D, Bozzetta E: *Evaluation of the toxic effects of livestock drinking water by translational studies in vivo and in vitro*

12:00 **Behnisch PA**, Besselink H, Malonek L, Limone A, Pizzolante A, Pierri A, Ferro A, Gallo A, Buonerba C, Pierri B, Di Stasio A, Cerino P, Durward-Akhurst SA, Schultz NE, Norton EM, Rendahl AK, Geor RJ, Mickelson JR, McCue ME, Brouwer A: *Blood plasma monitoring of contaminants in humans and domestic animals using a panel of CALUX® bioassays: three case studies*

Student awards

Chamber 1 **An Analytical Update for Dioxins and Related Halogenated Compounds** • *Jean F Focant, Paweł Rostkowski*

14:00 **Shelepchikov AA**, Turbabina KA, Ovcharenko VV, Brodsky ES, Kozhushkevich AI, Mir-Kadyrova EYa, Kalantaenko AM, Komarov AA, Nikulin VV: *Solid phase extraction of PCDDs/PCDFs and dioxin-like PCBs from oils and fats*

14:20 **Shellie R**, Ragunathan K, Gooley A, Jones R: *The analysis of 209 PCB congeners using a novel capillary GC column stationary phase*

14:40 **Behzadi H**: *Do's and don'ts of PFAS sampling and more*

15:00 Qu GB, Wang YW, Shi JB, Ruan T, Liu JY, Song MY, Liu RZ, Liu AF, Zhang HY, Lin YF, Zeng LX, Yuan B, Ma QC, Liu GR, Zheng MH, **Jiang GB**: *Identification of emerging pollutants in the environment*

15:20 **Stefanuto P-H**, Scholl G, Miklášová Z, Stumpf C, Haedrich J, Focant J-F: *Food and feed control using GC×GC-(MR)TOFMS: Dioxin measurements and beyond*

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16:30 **Matsukami H**, Hashimoto S, Suzuki G: *GC-APCI/LC-ESI/QTOF-MS for the determination of brominated dioxins and brominated flame retardants released from flame-retarded product handling plants*

16:50 **Kukučka P**, Audy O, Geng D, Stubleski J, Ericson-Jogsten I, Klánová J: *Application of gas chromatography atmospheric pressure chemical ionization mass spectrometry for analysis of contaminants in environmental samples*

17:10 **Takakuwa H**, Tobo K, Ueda M, Kawamura H, Okuda M, Nakamura S, Nakano T: *Analysis of PCDDs/DFs in Fly Ash according to Japanese official method using GC/MS/MS with High Efficiency EI source*

17:30 **Neugebauer F**, Dreyer A, Lohmann N, Koschorreck J: *Analysis of dechloranes and emerging brominated flame retardants with a multi-compound multi-matrix method and GC-API-MS/MS*

17:50 **Takakura M**: *Comparison of the analysis result of dioxins in several hundreds of food and feed samples by using GC-MS/MS and Sector GC-MS: Part 1*

Chamber 2 **Biochemistry and Toxicology of POPs** • *Jae-Ho Yang, Anna Kilanowicz-Sapota*

10:00 **Leonards P**, Viberg H, Lee I, Buratovic S, Eriksson P: *Metabolomics used to link molecular pathways with mice behaviour after a single dose of pesticides or PFHxS*

10:20 **Drwal E**, Rak A, Gregoraszczuk EL: *Cell type dependent mechanism of polycyclic aromatic hydrocarbons (PAHs) mixtures action in human placental cells*

10:40 **Feng W**, Zheng J, Mckinie SMK, Gamal El, Dong Y, Agarwal V, Fenical W, Kumar A, Cao Z, Moore BS, Pessah IN: *Anthropogenic and biogenic organohalogens target and disrupt intracellular Ca^{2+} dynamics*

11:00 **Zajda K**, Gregoraszczuk E: *Composition dependent mechanisms of PAH mixtures action as tumor promotor and progressor in non-cancer and cancer ovarian granulosa cells*

11:20 **Luo Q**, Li F, Xiang B: *Roles of dysregulation of lipid metabolism in the development of lung cancer induced by PAHs exposure*

11:40 **Gogola J**, Hoffmann M, Ptak A: *Persistent endocrine-disrupting chemicals in human follicular fluid stimulate proliferation in granulosa tumor spheroids*

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14:00 **Søfteland L**, Olsvik PA: *Toxicological application of co-culture of primary Atlantic salmon hepatocytes and kidney epithelial cells exposed to glyphosate, chlorpyrifos, benzo(a)pyrene and cadmium*

14:20 Sheng N, Wang JH, Pan YT, **Dai JY**: *Comparison of toxicity between perfluorooctanoic acid (PFOA) and novel alternative hexafluoropropylene oxide trimer acid (HFPO-TA)*

14:40 **Wei Y**, Xing X, Kang J, Qiu J, Zhong X: *Exposure to PBDEs impedes vascular development and alters gene expression related to angiogenesis and barrier function*

15:00 **Koch C**, Nachev M, Klein J, Köster D, Schmitz OJ, Schmidt TC, Sures B: *Toxicity of degradation products of the commercially used polymeric flame retardant PolyFR following UV irradiation and heat treatment*

15:20 **Yang JH**, Lee YJ: *Perfluorohexanesulfonate induces apoptosis of neural cell via NMDA receptor and subsequent PKC activation*

15:40 **Qi Y**, Wada H: *Effects of decabromodiphenyl Ether (BDE-209) on ultrasonic communication in fighting of male adult rats*

Chamber 2 **Endocrine Disruption: Biochemical and Molecular Mechanisms** *
Ewa Gregoraszczuk, Michael S Denison

16:30 **Chenyang J**, Meirong Z: *Estrogen disrupting effect and ecological risk assessment of PHCZs by multi-model*

16:50 **Hoffmann M**, Gogola J, Ptak A: *GPR30 mediates the effect of tetrabromobisphenol A, but not tetrachlorobisphenol A on ovarian cancer cell proliferation*

17:10 **Kubota A**, Wakayama Y, Lee JS, Nakamura M, Kawai Y, Yoshinouchi Y, Iwata H, Hirano M, Nakata H: *Evaluating estrogenic and anti-estrogenic potency of bisphenol A analogues in vivo and in silico using zebrafish*

17:30 **Liang Y**, Zhou Z, Cao H, Zhang W, Wang L: *The respiratory toxicity and anti-estrogenic effect of tris (2, 3-dibromopropyl) isocyanurate*

17:50 **Kajta M**, Wnuk A, Rzemieniec J, Wójtowicz AK: *Triclocarban induces AHR- and CAR-mediated apoptosis in mammalian neurons*

18:10 **Schilte CFM**, Bos AF, Sauer PJJ, Berghuis SA: *The effects of prenatal persistent organic pollutant exposure on behavioural problems in puberty*

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Conference 1 Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs) • *Alwyn Fernandes, Vladimir Nikiforov*

10:00 **Yuan B**, Benskin JP, Chen C-E, Bergman Å: *A new analytical method for chlorinated paraffins using bromide-anion attachment atmospheric pressure chemical ionization mass spectrometry*

10:20 **Meziere M**, Cariou R, Marchand P, Bichon E, Monteau F, Dervilly-Pinel G: *Adduct ions behaviour with respect to source parameters for the comprehensive LC-HRMS analysis of chlorinated paraffins (CPs)*

10:40 **Schinkel L**, Bogdal C, McNeill K, Heeb N: *The CP/CO problem: Limitations of conventional GC-ECNI-MS when analyzing mixtures of chlorinated paraffins (CPs) and chlorinated olefins (COs)*

11:00 **Leonards PEG**, Koekkoek, J, Van Ginkel C: *Analysis of medium chlorinated paraffins and closed bottle biodegradation tests*

11:20 **Sprengel J**, Vetter W: *Synthesis and characterization of C10-C17 chloroparaffins with single chain lengths and their use for quantification via GC/ECNI-MS-SIM*

11:40 **Brandsma SH**, de Boer J, Leonards PEG: *Chlorinated paraffins (C10-C31) in tire rubber granulates used on artificial-turf soccer fields*

12:00 Cao D, Gao W, Wu J, Xin S, **Wang Y**, Jiang G: *Occurrence of short- and medium-chain chlorinated paraffins in dust from plastic sports field and synthetic turf in Beijing, China*

12:20 **Kajiwara N**, Matsukami H: *Chlorinated paraffins in consumer products on the Japanese market and their destruction behavior during waste incineration*

Break

14:00 **Guida Y**, Meire RO, Sprengel J, Torres JPM, Vetter W: *Short-chain chlorinated paraffins in air from southeastern Brazilian mountains*

14:20 Li Z, Gong Y-Y, Holmes M, Pan X, Zou X, Shirima C, Kimanya M, **Fernandes A**: *Geospatial visualisation of food contaminant distribution: polychlorinated naphthalenes (PCNs), polybrominated diphenylethers (PBDEs) and aflatoxins*

14:40 **Dat N-D**, Huang Y-Ch, Wang W-Ch, Luy J-M, Chang M-B: *Characteristics of polychlorinated naphthalenes (PCNs) associated with ambient-air particles and fly ash collected from existing APCDs in Taiwan*

15:00 **Dat N-D**, Lien Ch-G, Lyu J-M, Huang YJ, Wang WCh, Chang M-B: *Reducing of polychlorinated naphthalenes (PCNs) emission from municipal waste incinerator*

15:20 **Falandysz J**, Smith F, Fernandes A: *Polychlorinated naphthalenes (PCNs) in cod liver oil and cod liver products sourced from the Baltic Sea and the North Atlantic Ocean*

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16:30 **Krätschmer K**, Schächtele A, Malisch R, Vetter W: *Chlorinated paraffins (CPs) in salmon and trout: Occurrence levels, homologue patterns and relation to other persistent organic pollutants*

16:50 **Sprengel J**, Wieselmann S, Vetter W: *Chlorinated paraffins in dietary supplement oil capsules from the German market*

17:10 **van Mourik LM**, Wang X, Toms LML, Leonards PEG, de Boer J1, Mueller JF: *Chlorinated paraffin levels in Australia: assessing spatial differences in ambient air and temporal trends in humans*

17:30 **Dumas P**: *Quantification of polychlorinated paraffin (SCCPs, MCCPs) in human serum: A complex analytical challenge*

17:50 Liu H, Gozhina O, Gorovoy A, **Johansen JE**: *New standards of polychlorinated alkanes (SCCPs)*

Conference 2 **Abiotic Environmental Compartments** • *Magdalena Urbaniak, Takashi Nakano*

10:00 **Lunder Halvorsen H**, Moeckel C, Pedersen LS, Krogseth IS, Bohlin-Nizzetto P, Schlabach M, Breivik K: *Passive air sampling of POPs in background air along a European-Arctic transect*

10:20 **Takasuga T**, Nakano T, Shibata Y: *Hexachlorobutadiene (HCBD) as predominant POPs in ambient air: all POPs levels and trends at frequent monitoring super-sites of Japan*

10:40 **Mukai K**, Fujimori T, Anh HQ, Fukutani S, Oshita K, Takaoka M, Takahashi S: *Speciation of extractable organhalogens according to molecular size in various environmental matrices*

11:00 **Nakano T**: *Disaster and chemicals contamination*

11:20 **Folarin BT**, Abdallah MA, Oluseyi T, Harrad S, Olayinka K: *Toxic equivalent concentrations of dioxin-like PCBs in soil samples from the vicinity of electrical power stations in Lagos, Nigeria*

11:40 **Trinh M-H**, Tsai Ch-L, Chang M-B: *Characterization of polybromodiphenyl ethers (PBDEs) in various aqueous samples in Taiwan*

12:00 **Organtini K**, Rosnack K, Cleland G: *LC-MS/MS analysis of polyfluoroalkyl substances in surface, ground, and waste water samples*

12:20 **Urbaniak M**, Kiedrzyńska E, Wyrwicka A, Zieliński M: *Holistic approach to the problem of river contamination by selected POPs and possibilities for their removal using environment friendly technologies: the case of Pilica River (Central Poland)*

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Conference 2 **Contaminated Sites – Cases, Remediation, Risk and Management** •
Barbara Wyrzykowska-Ceradini, Ivan Holoubek

14:00 **Thomsen C**, Haug LS, Casas M, Robinson O, Chatzi L, Gražulevičienė R, Slama R, Wright J, Meltzer HM, Gutzkow K, Coen M, Van den Hazel PJ, Nieuwenhuijsen M, Vrijheid M: *The human early life exposome project (HELIX): The chemical exposome of pregnant women and their children in Europe*

14:20 **Vijgen J**, de Borst B, Weber R: *HCH-waste generated by Lindane production - EU cases and strategies how to solve a 40-70 years old POPs legacy*

14:40 Kurt-Karakus P, **Odabasi M**, Birgul A, Yaman B, Gunel E, Dumanoglu Y: *Environmental contamination by obsolete pesticide stockpiles in Turkey: Case study for Derince Province*

15:00 **Wyrzykowska-Ceradini B**, Oudejans L, Tabor D, Starr J, Mysz A, Stout II DM, Snyder E, Lemieux P, Nardin J, Morris E: *Development of liquid-based decontamination methods of indoor surfaces after simulated misuse of common pesticides*

15:20 **Ueno D**, Koyano S, Kajiwara N, Yamamoto T: *Contamination status of POPs as wood preservatives in recycled products of waste woods in Japan*

15:40 **Teebthaisong A**, Petrlik J, Ritthichat A, Saetang P, Strakova J: *POPs contamination at 'recycling' and metallurgical site in Thailand*

Break

16:30 Akortia E, Lupankwa M, **Okonkwo JO**: *Transport and retention of polybrominated diphenyl ether in soil from e-waste dump in Ghana and landfill site in South Africa: A laboratory-scale column soil flushing approach*

16:50 **Monfort O**, Hanna K: *Ferrate(VI) oxidation as promising treatment in remediation of soil contaminated by PCBs*

17:10 **Ross I**, Lagowski J, Dickson M, Storch P: *Full-scale treatment of PFAS-impacted wastewater using ozofractionation with treatment validation using TOP assay*

17:30 Karunaratne DGGP, Welmillage SU, **Jinadasa KBSN**, Jayatilake A, Werahera SM, Weber R: *National inventory of unintentional persistent organic pollutants, polycyclic aromatic hydrocarbons, short lived climate pollutants, and BTEX for Sri Lanka*

17:50 **Yeung LWY**, van Hees P, Karlsson P, Söderlund L, Filipovic M: *Total fluorine, extractable organofluorine, per/polyfluoroalkyl substances and total oxidizable precursor assay on contaminated soil*

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Q Hotel Plus	10th International PCB Workshop : **Stockholm Convention, Sources, Exposures, Inventories and Actions to Reduce Exposures** • *Niklas Johansson, Keri Hornbuckle*

14:00 **Langeland M**: *Big data: National investigation of PCBs in indoor air in homes, offices, institutions, universities, laboratories, storage spaces and workshops*

14:20 **Jahnke JC**, Hornbuckle KC: *PCB Emissions from paint: Using the PUF-PES method to measure volatilization*

14:40 **Ewald JM**, Martinez Araneda AJ, Mattes TE, Schnoor JL, Hornbuckle KC: *PCB dechlorination hotspots and reductive dehalogenase genes in a contaminated wastewater lagoon*

15:00 **Haven RØ**, Hauge Smith K, Dalvang L, Butera S, Thorman J: *Thermal treatment technologies for polychlorinated biphenyls (PCB) in buildings and demolition waste*

15:20 **Kolarik B**, Björkqvist S, Kampmann K: *Remediation of PCB contaminated buildings - the impact of temperature changes on effectiveness of encapsulation*

15:40 **van Hoeymissen J**, van den Acker W, Raedschelders S: *PCB emissions from scrap metal recycling plants in Flanders, Belgium: an ongoing assessment*

Break

16:30 **Hirai Y**, Sakai S: *Emission factor for polychlorinated biphenyls (PCBs) from PCB waste storage sites*

16:50 **Johansson N**, Andersson L, Bogren T, Gullberg J, Krische R, Rångeby M: *Sources to and transport of PCB via the stream Väsbyån to Lake Oxundasjön in Upplands Väsby, Sweden*

17:10 **Martinez A**, Awad AM, Herkert NJ, Hornbuckle KC: *Determination of PCB fluxes from Indiana Harbor and Ship Canal using dual-deployed air and water passive samplers*

17:30 **Xu Y**: *Microbial dechlorination of polychlorinated biphenyls (PCBs) in Taihu lake sediment microcosms*

Discussion

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ICE Centre: Foyer 1 & 2

* Biodetection Methods for POPs and Related Food and Environmental Contaminants *

001 **Kasuya M**, Minh Tue N, Goto A, Tanabe S, Kunisue T: *AhR agonists in Japanese wild birds evaluated by chemical analysis and bioassays*

002 **Meloni D**, Pitardi D, Cavarretta MC, Loprevite D, Freguglia F, Behnisch P, Bozzetta E: *An effect-based approach for the screening of endocrine disruptors in plastic food contact materials: preliminary data*

003 **Meloni D**, Pitardi D, Olivo F, Cavarretta MC, Loprevite D, Ingravalle F, Pezzolato M, Brouwer A, Behnisch P, Bozzetta E: *Effect based detection of illicit use of synthetic glucocorticoids in meat producing calf*

004 **Sugihara K**, Kawabata K, Sanoh S, Kitamura S, Ohta S: *Photodegradation of PPCPs in the aquatic environment by sunlight and UV, and the expression of ecotoxicity*

005 **Vandermarken T**, Boonen I, Gryspeirt C, Van Den Houwe K, Denison MS, Goeyens L, Van Hoeck E, Elskens M: *Estrogenic activity in dry food simulants: chemical migration from paperboard packaging*

* Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals and Personal Care Products that can act as pseudo-POPs *

006 **Debler F**, Koetke D, Gandrass J: *An automated SPE method for pharmaceuticals in coastal waters*

007 **Kademoglou K**, Melymuk L, Klánová J: *Risk-based prioritisation of endocrine disrupting chemicals (EDCs) present in personal care products*

008 **Nishino T**, Kato M, Tojo T, Matsumura C, Hasegawa H, Miyawaki T: *Risk assessment of pharmaceutical chemicals in the rivers in Tokyo, Japan*

009 **Praveenkumarreddy Y**, Balakrishna K, Uegaki R, Akiba M, Guruge KS: *Preliminary studies on temporal variations of antibiotics in sewage treatment plants in South India*

010 **Rauseo J**, Barra Caracciolo A, Ademollo N, Cardoni M, Di Lenola M, Gaze WH, Stanton I, Grenni P, Pescatore T, Spataro F, Patrolecco L: *Degradation of the sulfamethoxazole antibiotic in an agricultural soil*

011 **Rauseo J**, Spataro F, Ademollo N, Pescatore T, Patrolecco L: *Pharmaceuticals and endocrine disrupting compounds (EDCs) in the Tiber river (Rome, Italy)*

012 van Overmeire I, Vrijens K, Nawrot T, van Nieuwenhuyse A, **van Loco J**, Reyns T: *Determination of endocrine disrupting compounds in human placenta by UPLC-ESI-MS/MS: a preliminary study on parabens, bisphenols and alkyl phenols*

013 **Zhao G**, Zhou H: *Occurrence of pharmaceuticals and personal care products in Baiyangdian lake*

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* Legacy and Emerging Fluorinated Organic Compounds - Update *

014 **Fujii Y**, Haraguchi K, Kato Y, Ohta C, Koga N, Kimura O, Endo T, Harada KH, Koizumi **A**: *Edible fish is a source of human dietary exposure: perfluorinated alkyl acids in Pacific cods from North Pacific Ocean*

015 **Motegi M**, Takemine S, Horii Y, Minomo K, Ohtsuka N, Nojiri K: *Biennial survey of perfluoroalkyl and polyfluoroalkyl substances in river water from Saitama Prefecture, Japan during 2009-2017*

016 **Schramm TR**, Joerss H, Ebinghaus R: *Application of the total oxidizable precursor (TOP) assay to evaluate the amount of precursors to perfluoroalkyl acids (PFAAs) in German rivers*

017 **Sharkey M**, Drage DS, Harrad S, Berresheim H: *Persistent organic pollutants in Irish landfills: a nationwide assessment of BFRs and PFAS*

* International PCB Workshop *

018 **Capozzi SL**, Kjellerup BV: *Colonization and growth of PCB respiring biofilms on carbonaceous amendments*

019 **Inui H**, Goto E, Haga Y, Kubo M, Itoh T, Kasai C, Shoji O, Yamamoto K, Matsumura C, Nakano T: *Enhanced metabolism of 2,3',4,4',5-pentachlorobiphenyl (CB118) by bacterial cytochrome P450 monooxygenase mutants*

020 **Pěnčíková K**, Svržková L, Strapáčová S, Neča J, Bartoňková I, Dvořák Z, Hýžďalová M, Pivnička J, Pálková L, Lehmler HJ, Li X, Vondráček J, Machala M: *In vitro profiling of toxic effects of prominent environmental lower-chlorinated PCB congeners linked with endocrine disruption and tumor promotion*

021 **Šimečková P**, Pěnčíková K, Slavík J, Svržková L, Procházková J, Vondráček J, Machala M: *PCB 153 -induced changes in sphingolipid metabolism are potentially linked with alterations of intercellular communication in a model of non-tumorigenic rat liver epithelial cells*

* Abiotic Environmental Compartments *

022 **Barčauskaitė K**, Mažeika R: *Quality and risk assessment of sewage sludge composts*

023 **Bastiaensen M**, Been F, Lai FY, van Nuijs A, Covaci A: *Mining the chemical information of urban wastewater - Monitoring human exposure to phosphorous flame retardants and plasticizers (PFRs)*

024 **Čonka K**, Drobná B, Stachová Sejáková Z, Gago F, Oravcová P, Fabišiková A, Dömötörová M, Kočan A: *Dioxin pattern of environmental samples, feed and food in polluted sites in Slovakia*

025 Han H-S, **Kim Y-J**, Song I-S, Bae Y-S, Lee Y-K, Kim D-G, Park I-B, Kim J-S: *Concentrations of atmospheric PCDDs/PCDFs and PCBs in Gyeonggi and nearby area*

026 **Jia L**, Deng Y, Mao W, Yin H, Tao F, Huang F: *Levels of PCDD/Fs in soils in the vicinity of the municipal solid waste incinerator in Shanghai, China*

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027 **Koshiba J**, Hirai Y, Sakai S: *Panel data analysis of environmental PCB in Japan: national and local concentration trends*

028 **Kwon SY**, Seo S-H, Chang Y-S: *Fate and compositional profiles of perfluoroalkyl substances (PFASs) in multimedia environments*

029 Ruggeri MF, Poma G, Malarvannan G, Covaci A, Puliafito SE, **Altamirano JC**: *Preliminary assessment of OPEs levels in atmospheric samples from Mendoza City, Argentina*

• Advances in Environmental Forensics •

030 **Abercrombie V**, Anumol T, Serrano-Izaguirre G, Provoost L, Lee J: *Increased reproducibility in the analysis of EU and EPA PAH's with the Agilent Select PAH GC column and Metal Microfluidic Guard Chip Technology by gas chromatography*

031 Gill R, Sarala R, Tarrant D, Takaku-Pugh S, Lytle E, Brown RF, Park J-S, **Petreas M**: *Effective screening of furnishings for flame retardants*

032 **Kelterer K**, Nickel M: *Lean management and "One-Piece-Flow" for PCDD/F and PCB analysis to reduce the turn-around time in smaller laboratories compared to classical batch operation*

033 Ovesen SL, Andersen HV, Knudsen LE, **Frederiksen M**: *Sampling PCB with silicone wristbands as a measure for personal exposure in contaminated buildings*

034 **Wright M**, Hope D, Pond P, Hope K, del Pozo J: *Moving from ASTM 5790-95 to isotope dilution for OCPs by GC-MS/MS*

• An Analytical Update for Dioxins and Related Halogenated Compounds •

035 **Choi JD**, Shin Ch, Lim TS, Lee JE, Lee W-H, Kang G-J: *Determination of polybrominated biphenyls (PBBs) in food by gas chromatography coupled to electron ionization high-resolution mass spectrometry*

036 **Eguchi A**, Enomoto T, Mikami S, Mori C: *Investigation of analytical method for PCBs in serum sample using mini SPE cartridge with intelligent autosampler and gas chromatography - mass spectrometry*

037 **Mehlmann H**, Krumwiede D: *Latest advancements for maximized productivity for PBDE, dioxin and PCB analysis using DualData Mode with magnetic sector GC-HRMS*

038 **Mukai K**, Fujimori T, Shiota K, Nishimura C, Ito N, Takaoka M: *Quantitative speciation of chlorine in electronic waste open burning soils: focus on water-insoluble fractions*

039 **Puype F**, Ackermann L: *Evaluation of direct analysis in real time – high resolution mass spectrometry (DART-HRMS) for WEEE specific substance determination in polymers*

040 **Sakatani K**, Takahashi K, Takenaka S, Kajiwara J, Katsuki S, Mitoma C, Furue M: *Ionic liquid extraction for the determination of polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans, and dioxin-like polychlorinated biphenyls in soil and sediment*

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041 **Rodrigues Da Silva C**, Kelterer K, Souza CAM, Niwa NA, Tominaga MY, Masini JC: *A simplified and efficient manual fractionation procedure for the simultaneous determination of PCDD/Fs, PCBs and PBDEs in environmental samples*

042 Takemori H, Matsushita T, Tsujisawa Y, Inoue T, **Takasuga T**: *Evaluation of orbitrap GC-MS for dioxins and POPs analysis*

043 **Takakura M**: *Comparison of the analysis result of dioxins in several hundreds of food and feed samples by using GC-MS/MS and Sector GC-MS: Part 2*

044 **Urbancova K**, Sram RJ, Hajslova J, Pulkrabova J: *A new method for the simultaneous determination of phthalate and DINCH metabolites in human breast milk*

* Biochemistry and Toxicology of POPs *

045 **Drwal E**, Rak A, Gregoraszczuk EL: *Two real life mixtures of polycyclic aromatic hydrocarbons (PAHs) have modulatory effect on hormonal status of human placenta cells*

046 **Kakutani H**, Yuzuriha T, Nakao T, Ohta S: *Dioxins disrupt the biological barrier function by aryl hydrocarbon receptor*

047 **Lee YJ**, Park SJ, Yang JH: *IgE-independent activation of mast cells by perfluoroalkyl compounds*

048 **Ohta C**, Yamamoto K, Fujii Y, Haraguchi K, Kimura O, Endo T, Kato Y, Koga N: *In vitro metabolism of 2,2',3,4',5,6,6'-heptachlorobiphenyl (CB188) by rat liver microsomes*

049 **Wnuk A**, Rzemieniec J, Kajta M: *The effects of prenatal exposure to chemical UV-filter benzophenone-3 (BP-3) in the neuronal cells*

050 **Yuzuriha T**, Kakutani H, Nakao T, Ohta S: *Investigation on effect of organophosphorus flame retardants (PFRs) on metabolic disease related receptors*

* Biomonitoring and Levels: An update and Obesogens *

051 **MacDonald AM**, Kinniburgh DW, Gabos S, Lee B, Cheung PY, Ackah F, Reichert M, Graydon J, Lyon A, Jarrell J, Benade G: *Biomonitoring of environmental chemicals in pooled pregnant women and cord blood serum samples: Results from the third phase of the Alberta biomonitoring program*

052 **Pourchet M**, Cariou R, Antignac JP, Le Bizec B: *Screening emerging chemicals in human matrices to support biomonitoring and environmental health studies: methods, challenges and promises*

053 **Sajwan KS**, Richardson JP, Powell B, Patel B, Rowan C: *Environmental obesogens: contamination levels in environmental and biological samples from Savannah, Georgia, USA*

054 **Fišerová P**, Kohoutek J, Klánová J: *Determination of 18 phthalate metabolites and 2 alternative plasticizer metabolites in urine using high-throughput off-line SPE and LC-MS/MS*

055 **Hijiya M**, Chiga H, Matsumura T, Sato N, Chisaki Y: *Abundance ratio of dioxins in human blood fraction*

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056 **Kunisue T**, Egashira K, Isobe T, Nakayama K, Matsuishi T, Tajima Y, Yamada TK, Tanabe S: *Temporal trend analyses of POPs in three toothed whale species stranded along the Japanese coastal waters: importance of samples and data stored in es-BANK and ChemTHEATRE*

057 **Ohta S**, Kakutani H, Yuzuriha T, Nakao T: *A mixture of TBBPA and TCDD disrupts adipocyte and osteoblast differentiation in human mesenchymal stem cells*

058 van Overmeire I, Joly L, Malarvannan G, Poma G, Covaci A, Colles A, Koppen G, Den Hond E, van de Mieroop E, De Wolf M-Ch, Charlet F, Malysheva SV, Vanhouche M, Dussart A, **van Loco J**, van Nieuwenhuyse A, Andjelkovic M: *Levels of organochlorinated pesticide residues and other persistent organic pollutants in breast milk: the Belgian results from the 6th WHO-coordinated survey*

• Contaminated Sites – Cases, Remediation, Risk and Management •

059 **Choi GH**, Song AR, Moon BY, Jung GH, Park JH, Ryu SH, Lim SJ, Park BJ: *Endosulfan uptake of perilla shoot and decrease of endosulfan uptake and soil concentration by granular activated carbon amendment*

060 **De la Torre A**, Navarro I, Sanz P, Arjol MA, Fernández J, Martínez MA: *Dumpsite dismantling influence on HCH air levels: Sabiñánigo case*

061 **Folarin BT**, Abdallah MA, Oluseyi T, Harrad S, Olayinka K: *Concentrations of polychlorinated biphenyls in soil and indoor dust associated with electricity generation facilities in Lagos, Nigeria*

062 **Niarchos G**, Sörengård M, Jensen PE, Ahrens L: *Electro dialytic remediation of per- and polyfluoroalkyl substance (PFAS) - contaminated soil*

063 Noone C, **Houlihan M**, Keogh M, Ó Riordain C, Smith H, Tierney J: *An investigation of elevated dioxin levels in ovine livers in Ireland*

064 Pandelova M, Bussian BM, **Henkelmann B**, Schramm K-W: *Soil-water partition coefficients (Kd) and translocation of POPs in soils*

065 **Tagliabue M**, Bagatin R, Careddu G, Manuela G, Perucchini S, Bellettato M, Montanari E: *Effect of attrition on pesticide contaminated soil*

066 **Weidlich T**: *Alternative method for decontamination of solid materials contaminated by polychlorinated dibenzodioxins/dibenzofurans*

• Dioxins and other POPs in Vietnam and Humans after Agent Orange •

067 **Wannomai T**, Matsukami H, Uchida N, Takahashi F, Le HT, Pham HV, Takahashi S, Kunisue T, Suzuki G: *Bioaccessible flame retardants in dusts from e-waste-processing workshops in northern Vietnam*

• Ecotoxicology and Environmental Toxicology of POPs •

068 **Gworek B**, Kijeńska M, Wrzosek J, Tokarz L, Graniewska M, Stępień W: *Incorporation of carbamazepine to the biological cycle – red beets as bioindicators*

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069 Kijeńska M, **Gworek B**, Wrzosek J, Tokarz L, Graniewska M, Stępień W: *Sewage sludge as a source of dioxins in the biological chain*

070 **Manhães BMR**, Santos-Neto EB, Vidal LG, Bisi TL, Azevedo AF, Lailson-Brito J: *High organochlorine concentrations in a threatened Guiana dolphin population*

071 Ortuño N, **Íñiguez ME**, Soler A, Moltó J, Conesa JA: *Sorption of PAHs and other organic pollutants to plastics present in marine debris*

072 **Pozo K**, Gomez V, Torres M, Audy O, Martinik J, Karaskova P, Pribylova P, Klánová J: *Persistent organic pollutants (POPs) in the marine food web from Central Chile*

* Emission, Control and Cleanup *

073 Konieczny T, Komosiński B, Bobik B, **Czaplicka M**: *Concentration of PCDD/F in ambient air in the immediate vicinity of the sewer sludge incineration plant and the biogas-fired combined heat and power plant*

074 **Soler A**, Iñiguez ME, Ortuño N, Conesa JA: *Pollutant emission during pyrolysis of e-waste dechlorinated in subcritical water*

075 **Yoon YS**, Kwon EH, Bae JS, Jeon TW, Lee YK: *Analysis of dioxins emission characteristic during thermal treatment of hexachlorobutadiene*

* Endocrine Disruption: Biochemical and Molecular Mechanisms *

076 **Arizono K**, Uchida M, Fukushima S, Ishibashi H, Tominaga N: *Nanosecond pulsed electric field incorporation technique to predict teratogenicity and toxicity of equine estrogens on medaka embryos*

077 **Boonen I**, Vandermarken T, De Nys S, Vervliet P, Covaci A, Van Landuyt K, Denison MS, Elskens M: *Estrogenic activity of monomers and initiators used in resin based dental composites*

078 **Budinsky B**, Passage J, Sriram S, Aylward L, Johnson K: *TCDD and TCDF effects on fetal rat pituitary and testicular hormone pathways*

079 **Denison MS**: *In vitro and cell-based bioassays for the detection and characterization of activators and inhibitors of estrogen receptor α and β signaling*

080 **Hsu PC**, Guo YL, Chiang HC, Zhong JY, Pan JJ: *Transgenerational effects of Di-(2-ethylhexyl) phthalate (DEHP) on sperm DNA methylation in rats*

* Endocrine Disruption: Tyroidogenicity, Exposure and Health *

081 **Kato Y**, Tamaki S, Haraguchi K, Fujii Y, Kimura O, Ohta C, Endo T, Koga N, Degawa M: *Involvement of transthyretin to Kanechlor-500-mediated changes in serum and hepatic thyroxine levels in mice*

082 **Shi Z**, Chen T, Tian L, Huang P, Li J: *Elevated serum decabrominated diphenyl ethers (BDE-209) and alteration of thyroid hormones in workers from a deca-BDE manufacturing plant*

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083 **Wada H**, Qi V: *Effects of decabromodiphenyl ether (BDE-209) on ultrasonic communication in mating behavior of rats*

• Epidemiology •

084 **Drobná B**, Fabišiková A, Čonka K, Gago F, Oravcová P, Wimmerová S, Šovčíková E: *PBDE serum concentration and pre-school maturity of children from Slovakia*

085 **Long M**, Wielsøe M, Ghisari M, Bech BH, Henriksen TB, Olsen J, Bonefeld-Jørgensen EC: *Dioxin-like POPs induced aryl hydrocarbon receptor transactivity in the Danish pregnant women and fetal growth outcomes*

• Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental •

086 **Abafe OA**, Martincigh BS: *Cumulative human exposure to a cocktail of organohalogenated flame retardants in the indoor environment*

087 Been F, Bastiaensen M, Malarvannan G, Yin S, Yao Y, Schepens T, Jorens Ph, **Covaci A**: *Exposure to phosphorous flame retardants (PFRS) and alternative plasticizers in intensive care patients*

088 **Christia C**, Poma G, Covaci A: *Brominated and organophosphorus flame retardants in indoor dust from Belgium: Exposure assessment via non-dietary pathways*

089 **Christia C**, Poma G, Harrad S, de Wit C, Leonards PEG, Lamoree M, Covaci A: *Occurrence of legacy and current-use plasticizers in indoor dust from various EU countries*

090 **Fromme H**, Albrecht M, Janitzki N, Wollin KM, Aschenbrenner B: *Occurrence of chlorinated and brominated dioxins/furans (PBDD/Fs, PBBD/Fs), and polychlorinated biphenyls (PCBs) in German breast milk (LUPE 8)*

091 **Imamura M**, Takatsuki S, Tsutsumi T, Maeda T, Akiyama H: *Estimated dioxin intakes from commercial baby foods in Japan*

092 **Lignell S**, Aune M, Cantillana T, Darnerud PO, Fridén U, Glynn A: *Dioxins and PCBs in a Swedish food market basket study - dietary intake estimations and temporal trends*

093 **Pruvost--Couvreur M**, Rivière G, Le Bizec B, Béchaux C: *Development of a statistical method to assess the dietary lifetime exposure to PCBs from punctual measurements*

094 **Takekuma M**, Hayashi M, Kim H, Osawa H: *A survey of indoor air chemical contaminants in newly built detached houses*

095 **Tian L**, Huang P, Li P, Shi Z: *Brominated flame retardants in indoor dust from Beijing, China - contamination level, human exposure and evidence for PBDEs replacement*

• Exposure – POPs in Pets and their applicability as Models for Human Health •

096 **Kannan K**, Karthikraj R, Borkar S, Lee S: *Parabens and melamine in pet urine from New York State, United States*

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097 **Mizukawa H**, Khidkhan K, Ikenaka Y, Nakayama SMM, Nomiyama K, Yokoyama N, Ichii O, Takiguchi M, Tsend-ayush S, Tanabe S, Ishizuka M: *Effects of polychlorinated biphenyls (PCBs) in cats: Exhaustive gene expression analysis approach*

098 **Shimasaki M**, Nomiyama K, Mizukawa H, Saengtienchai A, Ngamchirttakul A, Pencharee D, Ikenaka Y, Nakayama S, Kunisue T, Tanabe S: *Contamination status and global comparison of organohalogen compounds and their related compounds in the pet cats in Thailand*

* Fate and Behavior of Volatile Methylsiloxanes in the Environment *

099 Durham J, McNett DA, Boehmer T, Kozerski GE, **Xu S**: *Identification and reduction of analytical bias for analysis of silicon containing materials*

100 Homem V, Capela D, Espregueira C, **Ratola N**: *Screening of volatile methylsiloxanes in sand from Portuguese beaches*

* Halogenated PAHs and PAHs *

101 **Matsumura C**, Haga Y, Yoshiki R, Nakatsubo R, Kon G, Okamura H, Dan T, Tojo T, Hasegawa H, Miyawaki T, Nishino T, Nakano T: *Analysis of organic pollutants contained in soot from marine diesel engines*

102 **Muenster H**, Tirler W: *GC-APPI of PAH on an orbitrap compared to EI on a high resolution sector field system*

103 **Nežiková B**, Degrendele C, Čupr P, Hohenblum Phi, Moche W, Prokeš R, Vaňková L, Kukučka P Martiník J, Audy O, Přibylová P, Holoubek I, Weiss P, Klánová J, Lammel G: *Bulk atmospheric deposition of persistent organic pollutants and PAHs in Central Europe*

104 **Urbancova K**, Lankova D, Sram RJ, Hajslova J, Pulkrabova J: *Comparison of monohydroxylated metabolites of polycyclic aromatic hydrocarbon concentrations in urine samples collected from mothers and their newborns living in two localities of the Czech Republic*

* Legacy and Emerging Flame Retardants *

105 **Kannan K**, Kim U-J: *Occurrence and distribution of organophosphate flame retardants in surface waters, tap water, and rainwater from New York State, USA*

106 **Pietroń W**, Pajurek M, Mikołajczyk Sz, Maszewski S, Warenik-Bany M, Piskorska-Pliszczyńska J: *Exposure to PBDEs associated with farm animal meat consumption*

107 **Poma G**, Liu Y, Cuykx M, Tang B1, Luo XJ, Covaci A: *Occurrence of organophosphorus flame retardants (PFRs) in edible and wild insects from China*

108 **Poma G**, Sales C, Bruyland B, Christia C, Goscinny S, Van Loco J, Covaci A: *Can food processing influence the level of contamination with organophosphorus flame retardants and plasticizers (PFRs) in Belgian foodstuffs?*

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109 **Crombie S**, Moore S, Proulx S: *Comparative methods for effective clean-up of flame retardants in sediments*

110 **Yang W**, Zhu Ch, Xu P, Du B, Dong L, Huang Y: *Levels and distribution of hexabromocyclododecanes in surface waters and sediments from Mihe basin of Shandong Province, China*

111 **Yasutake D**, Sato T, Hori T, Watanabe T: *Estimation of dietary intake of Dechlorane Plus and related compounds in a Japanese National Survey*

112 Yui K, Motoki T, Kato H, **Kajiwara N**, Kuramochi H, Sakai S, Wania F: *Measurement of vapor pressures of some selected polybrominated aromatic flame retardants and evaluation of vapor pressure estimation models*

113 Feng M, **Yin H**: *Comparative proteomics reveal the interaction mechanism of co-existed tetrabromobisphenol A (TBBPA) and Cr(VI) with the cells of Pycnoporus sanguineus*

114 **Malarvannan G**, Poma G, Scudder ChJ, Niessen SJM, Covaci A: *Organohalogenated chemicals and their association with acromegaly in humans*

115 Wan WN, Huang HL, Han RX, **Zhang SZ**: *Uptake, translocation, and biotransformation of organophosphorus esters in wheat (Triticum aestivum L.)*

116 Brazeau AL, Pena-Abaurrea M, Shen L, **Riddell N**, Reiner EJ, Lough AJ, McCrindle R, Chittim B: *Dechlorinated analogues of Dechlorane Plus*

117 **Chan T-Ch**, Yip Y-Ch: *Determination of hexabromocyclododecane (HBCD) in PUF/filter samples by isotope dilution liquid chromatography – tandem mass spectrometry (LC–MS/MS)*

118 Chibwe L, De Silva AO, Myers AL, Reiner EJ, Jobst K, **Muir DCG**: *First steps towards characterization of polyhalogenated alkane (PXA) flame retardants*

119 **Haraguchi K**, Fujii Y, Ohta C, Koga N, Kimura O, Endo T, Kato Y: *Human exposure to brominated phenoxy phenols: seaweeds as source of hydroxylated and methoxylated PBDEs in Asia-Pacific*

120 **Huang P**, Li J, Shi Z, Tian L: *Analysis of polybrominated diphenyl ethers and novel brominated flame retardants in human serum by QuEChERS pretreatment coupled to GC-APCI-MS/MS*

121 **Kubwabo C**, Fan X, Katuri GP, Rasmussen PE: *Determination of aryl and alkyl-aryl phosphates in house dust*

122 **Matsukami H**, Suzuki G: *Investigation of potentially hazardous ingredients in commercial halogenated oligomer flame retardants: a case study on V6*

123 **Miyake Y**, Tokumura M, Wang Q, Amagai T, Ogo S, Kume K, Kobayashi T, Takasu S, Ogawa K, Kannan K: *Identification of novel phosphorus flame retardants in curtains using orbitrap mass spectrometry*

124 **Puype F**: *Identification of "heavy" and polymeric brominated flame retardants in polymeric consumer goods by reactive and non-reactive pyrolysis GC-MS: approach for primary identification*

125 **Xu PJ**, Zhang T, Li N, Ren Y, Zhou ZG, Qi L, Liu AM, Huang YR: *PBDD/Fs concentrations and distributions in farmland soil of Guiyu, China*

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• Levels in Human Foods and Animal Feeds •

126 **Díaz-Ferrero J**, Riba M, Moral A, Martí R: *Levels of persistent organic pollutants (PCDD/Fs, PCBs, PBDEs and Dechloranes) in paprika*

127 **Hope K**, Fiedler H, Pond P, Hope D: *Polychlorinated biphenyls in major foodstuffs on the Canadian market*

128 Kirankumar PS, Sanath K, Ajay SV, **Prathish KP**, Ajit H: *Quantification of dioxins and dioxin- like PCB levels in fish samples collected from Periyar River, India*

129 **Law R**, Calaprice C, Silcock P, Cojocariu C: *Applying EU LOQ guidance for the low level quantification of PCDD/Fs in animal feed using a triple quadrupole GC-MS/MS system with an advanced EI source*

130 **Małagocki P**, Furga B, Gembal M, Cebulska J, Milczarczyk E, Piskorska-Pliszczyńska J: *Results of official control of dioxins and dl-PCBs in Polish feedstuffs*

131 Mikołajczyk S, **Maszewski S**, Pajurek M, Pietroń W, Warenik-Bany M, Piskorska-Pliszczyńska J: *Dioxins and PCBs in ostrich eggs - unknown source of contamination*

132 **Mukai Y**, Goto A, Tashiro Y, Tanabe S, Kunisue T: *Coastal monitoring of organohalogen compounds using oysters from Okinawa island, Japan*

133 **Pajurek M**, Mikołajczyk Sz, Maszewski S, Piskorska-Pliszczyńska J: *Background levels of dioxins and PCBs in Polish feed materials, 2013 to 2017*

134 Umnova NV, Turbabina KA, Levenkova ES, Roumak VS, **Shelepchikov AA**: *PCDD/Fs in tissues of wild animals inhabiting sites outside the landfill near Moscow, Russia*

• Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds •

135 **Fujimori T**, Kojima Y, Takaoka M, Shiota K, Ina T, Niwa Y: *Formation of chlorinated dioxins by open burning of cables: Reaction between copper and PVC*

136 Herrera Mejía SL, Villa Holguín AL, **Johnson BG**: *Hydrodechlorination of PCDD/Fs and dl-PCBs over molybdenum supported catalysts*

137 **Iñiguez ME**, Soler A, Ortuño N, Conesa JA: *Effect of sodium chloride and thiourea in the pollutant formation during combustion of plastics*

138 **Moreno Caballero AI**, Font R, Conesa JA, Gómez-Rico MF: *Recent studies of inhibition of PCDD/F formation in thermal processes*

139 **Yoneda T**: *Chemical degradation of a substituted-chlorobenzene in an aqueous medium using palladium catalysts tethered by a hydrophobic organophosphonic acid*

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* Non-target Screening – Multimedia Analysis *

140 **Hasegawa H**, Nishino T, Tojo T, Matsumura C, Miyawaki T , Suzuki S: *Screening of organic pollutants in environmental water in urban areas of Japan*

141 **Hashimoto S**, Matsukami H, Ieda T, Suzuki G: *Comprehensive analysis of halogenated compounds in discharge water samples by GC×GC/ToFMS*

142 **Kato M**, Nishino T, Shimoma S: *Comprehensive analysis of organic compounds in the water environment in Tokyo by automated identification and quantification system with GC-MS database*

143 Miyawaki T, **Takahashi K**, Nishino T, Hasegawa H, Tojo T, Matsumura C: *Screening method of organic pollutants in river water of urban areas in Japan using a GC-MS database system*

144 **Qu GB**, Liu AF, Qianchi M, Jianbo S, Guibin J: *Transformation of TBBPA/S derivatives in soil samples*

* Organometallic Contaminants *

145 **Kroupová K**, Kuta J, Maňoušek J, Adu-Kumi A: *A fast and sensitive method for determination of methylmercury in human milk and blood using isotopic dilution HPLC-ICP-MS*

146 **Mędyk M**, Dryżałowska A, Wang Y-Z, Zhang J, Falandysz J: *Effect of deep frying (with a wok pan) on level of mercury in mushrooms*

147 **Saba M**, Wang Y-Z, Zhang J, Falandysz J: *Mercury contamination levels and distribution in sclerotia of Wolfiporia cocos (F.A. Wolf) Ryvarden & Gilb*

* Persistent Biocides and Pesticides *

148 **Fujita K**, Sakai A, Kondoh Y, Honda K, Osada H, Inui H: *Reduction of crop contamination resulting from hydrophobic contaminants by the treatment of pesticides targeting to its transport factors*

149 Pełesz A, **Wójtowicz AK**: *Triclocarban affects the estradiol secretion and causes both cytotoxic and apoptotic death in human placental choriocarcinoma JEG-3 cells*

150 **Tojo T**, Ichihara M, Asakawa D, Kakutani N, Miyamoto I, Ueda M, Matsumura C, Hasegawa H, Miyawaki T, Nishino T: *Development of analytical methods for pesticides in ambient air. Comparison between target analysis and non-target analysis*

151 **Sajwan KS**, Loganathan B, Powell M, Patel B, Rawon C: *Legacy organochlorine insecticides and biocides in sediments and fish samples from brackish and coastal waters off Savannah, Georgia, USA*

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• Polychlorinated Naphthalenes and Chlorinated Paraffins (PCNs/CPs) •

152 **Chang K-S**, Wu Ch-P, Chen Y-W, Chi K-H, Dat N-D, Chang MB: *Measurement of PCNs in sediment of a reservoir in northern Taiwan*

153 **Hanari N**, Falandysz J, Yamazaki E, Yamashita N: *Possibilities of field experimental photolysis of polychlorinated naphthalenes*

154 **Jiang W**, Huang T, Ma J: *Chinese national gridded emission inventory and contamination of short-chain chlorinated paraffins to the biotic and abiotic environments in the Bohai Sea*

155 **Krätschmer K**, Schächtele A, Malisch R: *Analysing chlorinated paraffins: Intermediate results after round one of the interlaboratory study*

156 **Labadie P**, Goutte A, Maciejewski K, Simonnet-Laprade C, Le Menach K, Alliot F, Santos R, Budzinski H: *Comparative trophodynamics of polychlorinated biphenyls and chlorinated paraffins in an urban river: case study on the River Orge (near Paris, France)*

157 **Moeckel C**, Lunder Halvorsen H, Pedersen LS, Krogseth IS, Bohlin-Nizzetto P, Borgen AR, Schlabach M, Breivik K: *Spatial distribution of short- and medium-chain chlorinated paraffins in European background air*

158 **Schinkel L**, Knobloch M, Bogdal C, Lienemann P, McNeill K, Heeb N: *Transformation of chlorinated paraffins to chlorinated olefins during metal drilling*

159 **Shin F-S**, Choo G, Oh J-E, Chang Y-S: *Monitoring of emerging POPs (Deca-BDE, PCNs, SCCPs) in fish and shellfish*

• POPs and Emerging Contaminants in Developing Countries •

160 Fatunsin OT, Ajani Z, **Olayinka KO**, Oyeyiola AO: *Method development and risk assessment of acrylamide from commonly consumed fried foods from Southwestern Nigeria*

161 **Pozo K**, Diaz X, Metzdorff A, Corral M, Oyola G, Pribylova P, Estellano VH, Klánová J: *Occurrence of polychlorinated biphenyls (PCBs) in the Chilean atmosphere using passive air samplers PUF disk*

162 **Pozo K**, Metzdorff A, Estellano VH, Martinik J, Pribylova P, Klánová J: *Levels of persistent organic pollutants (POPs) in the industrial area of Las Higueras Talcahuano, in central Chile, using passive air sampler PUF disk*

163 **Ramírez-Álvarez N**, Macías-Zamora JV, Sánchez-Osorio JL, Hernández-Guzmán FA, Álvarez-Aguilar A, Valenzuela-Suarez BJ, Mejía-Trejo A: *PBDEs in sediments and geoduck clam (Panopea globosa) from the Protected Natural Area of the Upper Gulf of California and Colorado Delta River, Mexico*

• POPs and Emerging Contaminants in Urban Environment •

164 **De la Torre A**, Barbas B, Sanz P, Navarro I, Artíñano B, Martínez MA: *PCDD/Fs and PCBs in urban ambient air: gas-particle partitioning, size distribution and inhalation risk*

165 **De Vivo B**, Qu Ch, Albanese S, Lima A, Hope D, Fortelli A: *The occurrence of OCPs, PCBs, and PAHs in the soil of Naples metropolitan area, southern Italy*

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166 **Han H**, Woo JS, Bae YS, Lee YK, Kim DG, Park IB, Kim YJ, Song I, Jeong B, Kim JS: *Atmospheric concentration of PCDD/PCDFs using active and passive sampler in Gyeonngi-do, Korea from 2011 to 2016*

167 **Jia L**, Deng Y, Mao W, Yin H, Tao F, Huang F: *Levels of PCDD/Fs in soils in the vicinity of the municipal solid waste incinerator in Shanghai, China*

168 **Lee B-H**, Choi T-S, Jeon Y-R, Cha Y-H: *Trends in national emissions of dioxins on a crematory in the Republic of Korea*

169 **Kim H-J**, Kim H-J, Lee Ch-H, Kim J-H, Jeon J-W, Son J-Y, Choi S-D: *Levels and characteristics of HBCD in the air and soil in Republic of Korea*

170 **Zhou H**, Zhao G: *Microbial diversity and activity of an aged soil contaminated by polycyclic aromatic hydrocarbons*

171 **Roscales JL**, Muñoz-Arnanz J, Ros M, Vicente A, Jiménez B: *Does the number of field blanks influence reported air POP concentrations in monitoring programs based on PUF-PAS?*

172 **Styszko K**, Skiba A, Samek L, Furman L, Zięba D, Kistler M, Kasper-Giebl A, Konduracka E: *Polycyclic aromatic hydrocarbons and endocrine disrupting chemicals in ambient particles from southern Poland, and their potential health impact*

173 **Tikhonov G**, Artaev V, Lebedev A: *Multiple ionization modes in analysis of environmental samples using novel GCxGC-HR-TOFMS*

174 **Yoshiki R**, Yamasaki T, Yamamoto K, Haga Y, Nakagoshi A, Fujimori K, Matsumura C: *Benzotriazole UV stabilizers in water and atmosphere environment of Hyogo Prefecture, Japan*

* POPs in Polar, Circumpolar and Alpine Regions *

175 **Ademollo N**, Corsolini S, Rauseo J, Casentini B, Amalfitano S, Zoppini A, Valsecchi S, Polesello S, Spataro F, Pescatore T, Patrolecco L: *Dynamics of legacy and emerging pollutants in fjord ecosystems of the high Arctic: Svalbard (Norway) and NE Greenland*

176 Aznar-Alemany Ò, Yang X, Alonso MB, Costa ES, Torres JPM, Malm O, Barceló D, **Eljarrat E**: *Antarctic marine mammals as indicators of long-range transport of emerging pollutants*

177 **Cabrerizo A**, Muir DCG, De Silva A, Lamoreux S, Lafreniere M: *Influence of permafrost disturbances on temporal trends of perfluoroalkyl substances (PFASs) and brominated flame retardants (BFRs) in landlocked Arctic char from lakes in the Canadian High Arctic*

178 **Kang J-H**, Hwang H, Hur SD, Lee S-J, Choi S-D, Baek J-H: *Determination of fire smoke proxies in the Greenland snow due to long-range transportation from North America*

179 **Krogseth IS**, Breivik K, Wania, F: *Development and evaluation of a bioaccumulation model for organic contaminants in European Arctic marine ecosystems*

180 **Lee I-S**, Choi S-K, Choi M, Kim J-B: *Levels and compositions of Perfluorinated chemicals in muscle tissues of Antarctic toothfish (Dissostichus mawsoni)*

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181 Pouch A, Zaborska A, **Pazdro K**: *Distribution of persistent organic pollutants in pelagic zone of the Arctic fjords*

182 **Souza JS**, Cunha LS, Costa ES, Torres JPM: *Polychlorinated biphenyls and organochlorine pesticides in Feathers of Pygoscelis antarctica*

• Risk Assessment and Risk Management •

183 Fatunsin OT, Ajani Z, **Olayinka KO**, Oyeyiola AO: *Method development and risk assessment of acrylamide from commonly consumed fried foods from southwestern Nigeria*

184 Koh D-H, Song W-S, Hwang J-H, Iwata H, **Kim E-Y**: *Develop of in silico computational method for seeking the PPARγ ligand*

• Sampling, Preparation and Determination •

185 **Cerasa M**, Mosca S, Budonaro A, Guerriero E, Rotatori M, Bacaloni A: *Preliminary validation studies on ACF passive sampler for PCDD/Fs and PCBs in water*

186 **Chen S**, Li XX, Feng F, Li SM: *Highly efficient HPLC separation of xylene isomers and phthalate acid esters on a homemade DUT-67(Zr) packed column*

187 **Jílková S**, Melymuk L, Klánová J: *Using HVAC filters as a sampler for indoor and outdoor air*

188 **Puype F**, Guzzonato A, Harrad S: *Interpretation of principal component analysis for the evaluation of presence of WEEE-derived material in polymer based consumer goods*

189 **Li SM**, Chen S, Zhang XL, Feng F: *Application of metal-organic frameworks in solid phase extraction of persistent organic pollutants: A review*

190 **Sorokin AV**, Ovcharenko VV, Turbabina KA, Kozhushkevich AI, Kalantaenko AM, Komarov AA: *Extraction and clean-up of PFC from fish tissue with UPLC/Q-TOF-MS detection*

191 **Tsutsumi T**, Kawashima A, Hamada N, Adachi R, Akiyama H: *Performance of a polychlorinated biphenyl clean-up system followed by gas chromatography tandem mass spectrometry for determining polychlorinated biphenyls in fish and shellfish*

192 **Kato Y**, Sato A, Sotome Y, Aizawa K, Sano F, Matsumura M: *Screening technique for the analysis of PCBs containing insulating oil*

193 **Shellie R**, Ragunathan K, Gooley A, Jones R: Characterization of a new GC capillary column stationary phase for GC-MS analysis of polychlorinated biphenyl congeners

• Sources, Fate, Transport, Modelling and Inventories •

194 **Deng YY**, Jia LJ, Mao WL, Yin HW, Tao F, Huang F: *Atmospheric bulk deposition of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs) in the vicinity of MSWI in Shanghai, China*

195 **Mansouri E**, Alamir B, Reggabi M: *Inventory status of dioxins/furans in Algeria*

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196 **Monti C**, Monti A: *A comparison of PCDD/F fingerprints in ambient urban air of big cities: a continental and economic effect?*

197 Pandelova M, Bussian BM, **Henkelmann B**, Schramm K.-W: *PBDE levels in German forest soils*

198 **Pinas VA**, Weber R: *Suriname inventory of PFOS & related substances "The beauty and dirty beasts"*

199 **Solá-Gutiérrez C**, San Román MF, Ortiz I: *Aqueous oxidation of Triclosan: the potential formation of PCDD/Fs*

* Strategy for a Non-Toxic Environment: Addressing Persistence *

200 Arkenbout A, **Bouman KJAM**: *Waste incineration emissions of dl-PCB, PBB, PBDD/F, PBDE, PFOS, PFOA and PAH*

201 **Arkenbout A**, Sarolea HA: *Temperatures of post-combustion zone in a Waste-to-Energy incinerator*

* * *

202 Phillips S, **Braeunig J**, Vijayasarathy S, Harden F, Hobson P, Mueller JF, Toms L-ML: *PFAS serum concentrations decline in an Australian child population from 2006 to 2015*

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DIOXIN 2018
KRAKÓW • POLAND

Programme

Tuesday, August 28

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07:30 - 18:30 h	Registration : Foyer 0		
08:15 - 09:00	Plenary 2	*12:20 – 13:05*	Lunch & side meetings
09:00 - 09:30	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop

SESSIONS

AUDITORIUM

09:40 - 18:30 • Legacy and Emerging Fluorinated Organic Compounds - Update

THEATRE

09:40 - 12:20 • POPs and Emerging Contaminants in Urban Environment

13:40 - 18:30 • Biomonitoring and Levels: An Update and Obesogens

CHAMBER 1

09:40 - 12:00 • Legacy and Emerging Flame Retardants: Identification, New Analytical Methods and Application

13:40 - 18:30 • Advances in Environmental Forensics

CHAMBER 2

09:40 - 15:20 • Sampling, Preparation and Determination

16:30 - 18:10 • Endocrine Disruption: Tyroidogenicity, Exposure and Health

CONFERENCE 1

09:40 - 12:00 • Persistent Biocides and Pesticides

13:40 - 18:30 • POPs and Emerging Contaminants in Developing Countries

CONFERENCE 2

09:40 - 12:20 • Environmentally Persistent Free Radicals

13:40 - 18:30 • Emission, Control and Cleanup

Q Hotel Plus

13:40 - 18:30 PCB Workshop • Evolving Approaches to Assessing Exposures and Health Risks from Environmental Chemical Mixtures

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Time frames	Event	Place
	Plenary lecture	
08:15 – 09:00	An update on legacy and emerging perfluoroalkyl substances • *Kurunthachalam Kannan, Nobuyoshi Yamashita*	**Auditorium**
09:00 – 09:30	**Coffee break & exhibition**	**Foyer 1 & 2**
09:40 – 12:00 13:40 – 16:00 16:30 – 18:10	Legacy and Emerging Fluorinated Organic Compounds - Update • *Nobuyoshi Yamashita, Leo WY Yeung*	**Auditorium**
09:40 – 12:00	POPs and Emerging Contaminants in Urban Environment • *Hayley Hung, Zheng Peng*	**Theatre**
13:40 – 16:00 16:30 – 17:30	Biomonitoring and Levels: An Update and Obesogens • *Bruno Le Bizec, Heesoo Eun*	
09:40 – 12:20	Legacy and Emerging Flame Retardants: Identification, New Analytical Methods and Application • *Mehran Alaee, Georg Becher*	**Chamber 1**
13:40 – 16:00 16:30 – 18:10	Advances in Environmental Forensics • *Stephen Mudge, David Megson*	
09:40 – 12:40 13:40 – 15:20	Sampling, Preparation and Determination • *Anna Stec, Takumi Takasuga*	**Chamber 2**
16:30 – 18:10	Endocrine Disruption: Tyroidogenicity, Exposure and Health • *Åke Bergman, Patrik Andersson*	
09:40 – 12:40	Persistent Biocides and Pesticides • *Bommanna Loganathan, Monika Michel*	**Conference 1**
13:40 – 16:00 16:30 – 18:30	POPs and Emerging Contaminants in Developing Countries • Karla Pozo, Bondi Gevao	
09:40 – 12:00	Environmentally Persistent Free Radicals • *Bogdan Dlugogorski, Slawo Lomnicki*	**Conference 2**
13:40 – 16:00 16:30 – 18:30	Emission, Control and Cleanup • *Shin-Ichi Sakai, Marianna Czaplicka*	

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Time frames	Event	Place
12:20 – 13:05	**Lunch**	**Foyer 0**
	Side meetings	
12:20 – 13:05	ThermoFisher	**Chamber 1**
12:20 – 13:05	**MIURA**	**Chamber 2**
12:20 – 13:05	Agilent Technologies	**Conference 1**
13:05 – 13:40	**Posters, coffee & exhibition**	**Foyer 1 & 2**
13:40 – 16:00 16:30 – 18:30	**10th International PCB Workshop** Evolving approaches to assessing exposures and health risks from environmental chemical mixtures • *Geniece Lehmann, Mattias Öberg*	**Q Hotel Plus**

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Auditorium **Legacy and Emerging Fluorinated Organic Compounds - Update**
• *Nobuyoshi Yamashita, Leo WY Yeung*

Exposure and risk 2

09:40 Toms L-ML, **Braeunig J**, Vijayasarathy S, Phillips S, Aylward L, Hobson P, Mueller JF: *15 years of biomonitoring: PFAS serum concentrations decline in an Australian population from 2002 to 2017*

10:00 **Fu JJ**, Gao K, Liu X, Zhang AQ, Song MY, Jiang GB: *Association between the placental transfer efficiencies and dissociation constant of serum-PFAS complexes*

10:20 **Korzeniowski SH**, Cockshott K, Bowman J: *Recent advances in toxicology, biodegradation, water remediation, assessment of alternatives, value-in-use and best practice guidance of short-chain fluorotelomer-based products for various well-known end-uses*

10:40 **Morris AJ**, Mottaleb MA, Petriello M, Smyth SS, Mudd-Martin G, Moser DK: *Circulating levels of per- and polyfluoroalkyl substances in subjects undergoing behavioral/lifestyle based interventions for cardiovascular disease risk reduction*

11:00 **Numata J**, Kowalczyk J, Schafft H, Lahrssen-Wiederholt L: *Laying hens and biotransformation of PFAS precursors into PFAAs in eggs*

11:20 **Suzuki Y**, Kitao R, Tanaka S, Yukioka S, Mizukami-Murata S, Ogawa F: *Formation of PFOS and other metabolites from N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) during an exposure experiment to Japanese medaka*

11:40 **Ericson Jogsten I**, Styliano M, Majdak K, Ståhl **P**, Olsson P-E, Jass J: *Microbial binding of perfluoroalkyl substances (PFASs)*

Novel research approaches and future direction 1

13:40 **Ohno-Woodall K**, Janssen M, Weber R: *Per- and polyfluoroalkyl substances (PFAS) and the Stockholm Convention on Persistent Organic Pollutants*

14:00 **Yamazaki E**, Taniyasu S, Lam CWJ, Wang XH, Yamashita N: *Per- and polyfluoroalkyl substances as chemical tracer for oceanography*

14:20 **Wang SQ**, Wang XH, Yamashita N, Yamazaki E: *Per- and polyfluoroalkyl compounds (PFCs) in gaseous and particulate phase from Xiamen, Chian*

14:40 **Zhou YQ**, Wang TY, Li QF, Wang P, Li L, Chen SQ, Zhang YQ, Khan K, Meng J: *Spatial and vertical variations of perfluoroalkyl acids (PFAAs) in the Bohai and Yellow Seas: Bridging the gap between riverine sources and marine sinks*

15:00 **Yeung LWY**, Aro R, Fredriksson F, Eriksson U, Chen F, Wang T, Kallenborn R, Kärrman A: *Mass balance analysis of extractable organofluorine in environmental samples from the Nordic Countries*

15:20 Simonnet-Laprade C, Budzinski H, Goutte A, Maciejewski K, Le Menach K, Alliot F, Santos R, **Labadie P**: *Potential contribution of targeted and unidentified precursors to the apparent biomagnification of perfluoroalkyl acids (PFAAs) in the food web of an urban river*

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15:40 **Björnsdotter MK**, Yeung LWY, Kärrman A, Ericson Jogsten I: *Ultra-short-chain perfluoroalkyl substances (PFASs) including trifluoromethanesulfonic acid (TFMS) in environmental waters*

Novel research approaches and future direction 2

16:30 Makhija DD, **Yamashita N**, Yamazaki E, Taniyasu S, Thaker PN, Nirmal Kumar JI: *Per- and polyfluoroalkyl substances (PFASs) pollution in human hair in India*

16:50 **Schultes L**, Vestergren R, Volkova K, Westberg E, Jacobson T, Benskin JP: *Known and unknown fluorinated compounds in cosmetic products: Fluorine mass balance calculations and human exposure scenarios*

17:10 **Meng P**, Deng S: *An alternative removal strategy for perfluorooctane sulfonate from aqueous film-forming foam solution by aeration-foam collection*

17:30 **Mullin L**, Katz D, Riddell N, Plumb R, Burgess JA, Jogsten I: *Reduction of LC/MS in-source fragmentation of HFPO-DA through mobile phase additive selection*

Student awards

Theatre **POPs and Emerging Contaminants in Urban Environment** * *Hayley Hung, Zheng Peng*

09:40 **Hai Ch V**, Anh MT: *Assessment of characteristic distribution of PCDD/Fs in medical waste incinerators*

10:00 **Loyola-Sepulveda R**, Salamanca Orrego M, Gutiérrez Baeza F, San Martin Figueroa C: *Using a wide range of congeners of dioxins and furans to measure the contribution to the urban sediment signature*

10:20 **Malikova KhT**, Naghiyeva SV, Aliyev FV: *Determination of persistent organic pollutants – PCDDs, PCDFs and dl-PCBs in river and sea fishes in Azerbaijan*

10:40 **Guardans R**: *A note on POPs in dated sediment cores from densely populated areas: global features in local histories and the future of air quality*

11:00 Roscales JL, Muñoz-Arnanz J, Ros M, Vicente A, **Jiménez B**: *PCDD/Fs, dl-PCBs and PBDEs in urban areas from Spain*

11:20 Saini A, Jariyasopit N, **Harner T**, Dabek-Zlotorzynska E, Celo V, Halappanavar S, Wu D, Gaga E.O, Evans G: *Assessing toxicity of organics in urban source sectors for air (ATOUSSA)*

11:40 **Coggan TL**, Szabo D, Moodie D, Shimeta J, Crosbie ND, Fernandes M, Lee E, Clarke BO: *Investigation of the levels of per- and polyfluoroalkyl substances (PFAS) in aqueous matrices from nineteen Australian WWTPs*

12:00 Shunthirasingham Ch, Alexandrou N, Brice KA, Dryfhout-Clark H, Su K, Shin C, Park R, Pajda A, Noronha R, **Hung H**: *Halogenated flame retardants in the atmosphere of the Canadian Great Lakes Basin*

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Theatre **Biomonitoring and Levels: An Update and Obesogens** * *Bruno Le Bizec, Heesoo Eun*

13:40 Petrlik J, **Teebthaisong A**, Bell L, Behnisch PA, Da M, Saetang P, Ritthichat A, Kalmykov **D**: *PCDD/Fs and PCBs in eggs – data from China, Kazakhstan and Thailand*

14:00 **Helou K**, Harmouche KM, Matta J, Sayegh N, Karaki S, Mahfouz M, Mahfouz Y, Narbonne J-F: *Relationship between socio-demographic factors, dietary habits and anthropometric measures and PCBs, OCPs, dioxins, and furans in blood and breast milk of a group of Lebanese primiparous lactating women*

14:20 **Sjödin A**, Jones R, Vuong AM, Stapleton HM, Yolton K, Lanphear BP, Chen A: *Polybrominated diphenyl ethers measured in serum of children enrolled in the HOME study*

14:40 **Lohmann N**, Neugebauer F, Dreyer A, Ruedel H, Teubner D, Koschorreck J: *Emerging flame retardants and legacy POPs in bream and other limnic samples of the German environmental specimen bank*

15:00 **Loganathan BG**: *POPs and obesity - spatial and temporal trends*

15:20 **Malarvannan G**, Van Hoorenbeeck K, Deguchtenaere A, Verhulst SL, Jorens PhG, Dirinck E, Van Gaal L, Covaci A: *Persistent organic pollutants in human serum from obese adolescents and adults undergoing weight loss treatment*

Break

16:30 **Fridén U**, Aune M, Bignert A, Cantillana T, Glynn A, Gyllenhammar I, Lignell S: *Levels of persistent organic pollutants (POP) in human milk from first-time mothers in Uppsala, Sweden: temporal trends for the time period 1996-2016*

16:50 **Schacht VJ**, Codling GP, Palát J, Klánová J: *Multi residue screening of human serum using high-resolution GC Orbitrap*

17:10 Zafeiraki E, Hoogenboom RLAP, Gebbink WA, Dassenakis E, **van Leeuwen SPJ**: *Occurrence of perfluoroalkyl substances (PFASs) in European eel (Anguilla anguilla) and related human dietary exposure*

Chamber 1 **Legacy and Emerging Flame Retardants: Identification, New Analytical Methods and Application** * *Mehran Alaee, Georg Becher*

09:40 **Drage DS**, Sharkey M, Abdallah MA, Berresheim H, Harrad S: *Is portable XRF a viable tool for testing compliance of waste articles with low POP concentration limits?*

10:00 **Sharkey M**, Drage D S, Abdallah M A-E, Harrad S, Berresheim H: *Suitability of portable x-ray fluorescence for the quantification of brominated flame retardants in waste – A large scale study in Ireland*

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10:20 **McGrath TJ**, Morrison PD, Ball AS, Clarke BO: *Are Australian electronic waste recycling facilities contaminating surrounding soils with brominated flame retardants?*

10:40 Ramungul N, **Methacanon P**, Songngam S, Jongthammanurak S, Boontongkong Y, Srikudvien P: *A preliminary study of flame retardants in WEEE plastics in Thailand*

11:00 **Oluseyi T**, Harrad S, Abdallah M, Calaprice Ch: *Correlation of XRF measurements of chlorine with GCMS analysis of chlorinated organophosphate flame retardants in wastes*

11:20 **Wang S**, Romanak K, Salamova A, Stubbings WA, Hendryx M, Arrandale VH, Diamond ML, Venier M: *Validation of silicone wristbands as passive samplers for the assessment of exposure to flame retardants and polycyclic aromatic hydrocarbons*

11:40 **Cooper J**, Parera J, Abad E, Law R, Cojocariu C: *Identification and quantification of polybrominated diphenyl ethers (PBDEs) in environmental samples using gas chromatography coupled to orbitrap mass spectrometry*

12:00 **Zacs D**, Perkons I, Bartkevics V: *Applicability of gas chromatography coupled with atmospheric pressure chemical ionization Fourier transform ion cyclotron resonance mass spectrometry (GC-APCI-FTICR-MS) for the analysis of flame retardants in food*

Chamber 1 **Advances in Environmental Forensics** * *Stephen Mudge, David Megson*

13:40 **Monti C**, Mudge SM, Rose N, Negley T: *Integrating a PCDD/F fingerprint study, using the 190 nontoxic congeners, with Hg isotopes: first results*

14:00 **Mudge SM**, Monti C: *PCB and PCDD/F source allocation around Taranto, Italy*

14:20 **Megson DM**, Jones R, Johnson G, Brown T, Sandau C: *How many PCBs are there in my sample and where do they come from?*

14:40 **Addink R**, Shirkhan H, Germansderfer P, Hall T: *Simple, quick, low cost high throughput sample clean up for dioxins, PCBs and PBDEs analysis*

15:00 **Ballesteros-Gómez A**, Björnsdotter MK, Dueñas-Mas MJ, Rubio S: *Screening of color developers (bisphenol A alternatives) in thermal paper and indoor dust*

15:20 **Miralles-Marco A**, Schacht V, Codling G, Klánová J: *Applicability of a new UHPLC-HRMS/MS (Orbitrap) method suitable for screening, quantification and confirmation of organic pollutants and residues in food composites*

15:40 **Riener J**, Wong D, Walker D, Anumol T: *Dioxin analysis in water by isotope dilution using triple quadrupole GC/MS*

Break

16:30 **Stultz C**, Dorman F L: *Kovats and Lee retention indices for characterization of PCBs, PCNs, and dioxins*

16:50 **Nikiforov VA**: *Structural variation, simple nomenclature, LC and MS-MS characterization of commercially available perfluoroethercarboxylic acids (PFECAs)*

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17:10 **Mumtaz M**, Bao YX, Li WC, Huang J: *Application of total oxidizable precursor (TOP) assay for screening of per and polyfluoroalkyl substances (PFAS) from textile finishing agents available on Chinese market*

17:30 **Hall T**, Addink R, Shirkhan H, Germansderfer P: *Analysis of organochlorine pesticides and semi-volatiles in drinking water with semi-automated solid phase extraction*

17:50 **Ross I**, Horneman A, Miles J, Hurst J, Houtz E: *Detailed site investigation for per-and polyfluoroalkyl substances (PFASs) using advanced analytical tools*

Chamber 2 **Sampling, Preparation and Determination** • *Anna Stec, Takumi Takasuga*

09:40 **Archer JC**, Gentry JM, Jenkins Jr. RG, Shojaee S: *Automated acid hydrolysis with abbreviated Soxhlet extraction for multiple matrices*

10:00 **Addink R**, Shirkhan H , Hall T, Germansderfer P: *Fully automated, one step acid digestion, clean up and fractionation of POPs in fatty samples using modular and expendable columns packaged*

10:20 **Schlabach M**, Fiedler D, Myhre G, Gruber L, Vik AF, Schlummer M, Myhre CL, Rostkowski P: *Unequivocal determination of fluorine on the surface of cross country skis prepared for competition by WD-XRF*

10:40 **Cerasa M**, Mosca S, Budonaro A, Paris E, Guerriero E, Rotatori M: *Innovative fast SPE for the extraction of PCDD/Fs and dl-PCBs in aqueous samples – preliminary assessment*

11:00 **Germansderfer Ph**, Addink R, Hall T, Shirkhan H: *Analysis of perfluorinated compounds in waste water using automated solid phase extraction*

11:20 **Huber S**, Averina M, Box J: *An automated high through-put sample preparation method for analysis of legacy POPs in human serum and plasma by atmospheric pressure GC-MS/MS*

11:40 **Hsu Y-Ch**, Chang S-H, Chang M-B: *Development of a continuous sampling system for POPs measurement*

Break

13:40 **Kerkemeier T**, Henkelmann B: *Highly viscoid matrices like PFAD or stearin in dioxin/PCB cleanup systems – viewpoint of the quality assurance*

14:00 **Shirkhan H**, Addink R, Hall T, Germansderfer P: *Analysis of polychlorinated dibenzo-p-dioxins, furans and biphenyls in drinking water with semi-automated solid phase extraction*

14:20 **Jílková S**, Melymuk L, Vojta Š, Vykoukalová M; Bohlin-Nizzeto P, Klánová J: *Small-scale spatial variability of flame retardants in indoor dust and implications for dust sampling*

14:40 **Hall T**, Germansderfer P, Addink R, Shirkhan H: *Analysis of base, neutral and acid semi-volatiles in municipal and industrial waste water by automated solid phase extraction*

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Chamber 2 **Endocrine Disruption: Tyroidogenicity, Exposure and Health** * *Åke Bergman, Patrik Andersson*

16:30 **Andersson PL**, Zhang J, Li Y, Nam K, Grundström C, Iakovleva I, Brännström K, Olofsson A, Sauer-Eriksson E: *Identification of potential thyroid hormone disrupting chemicals*

16:50 **Goodrum PE**, Budinsky RA, Mendelsohn E, Summers H: *Use of thyroid disease incidence and dose-response analysis to reduce uncertainty in the dioxin oral reference dose*

17:10 Liu X, **Zhang L**, Li J-G, Zhao Y-F, Wu Y-N: *Serum levels of POPs in early pregnancy and risk of gestational diabetes mellitus*

17:30 **Pang S**, Wang F, Li A, Gao Y, Liang Y, Song M: *Tetrabromobisphenol A interferes the onset of blood circulating in zebrafish embryo through disrupting thyroid hormone signal*

17:50 **Ruis MT**, Rock K, Hall SM, Horman B, Patisaul HB, Stapleton HM: *Tissue-specific accumulation of PBDEs in placental tissues and effects on thyroid hormone regulation*

Conference 1 **Persistent Biocides and Pesticides** * *Bommanna Loganathan, Monika Michel*

09:40 **Wang S**, Romanak K, Steiniche T, Wasserman M, Venier M: *Occurrence of legacy pesticides, current use pesticides, and flame retardants in conservation areas*

10:00 **Guida YS**, Meire RO, Silva EBV, Capella R, Lino AS, Carvalho DFP, Braga ALF, Torres JPM: *Occurrence of atmospheric legacy and current-use pesticides in two highly impacted areas of Brazilian southeastern coast: How much pesticides can we breathe at sub/urban areas?*

10:20 **Lu XB**, Fu L, Chen JP: *Levels, distributions and human health risks of OCPs and PCBs in freshwater products*

10:40 **Mierzejewska E**, Urbaniak M, Baran A, Tankiewicz M: *The effect of the selected plant secondary metabolites on structurally related phenoxy herbicides (2,4-D and MCPA) removal rate, presence of bacterial degradative genes and samples phytotoxicity*

11:00 **Yadav IC**, Watanabe H: *Soil erosion and transport of Imidacloprid and Clothianidin in the upland field under simulated rainfall condition*

11:20 **Zhang N**, Zhang H, Chen J: *Bioaccumulation of organochlorine pesticides and polychlorinated biphenyls by the edible loaches and crabs living in rice paddy fields of Northeast China*

11:40 **Abbasi NA**, Arukwe A, Jaspers VLB, Eulaers I, Mennilo E, Ibor OR, Frantz A, Covaci A, Malik RN: *Oxidative stress responses in relationship to persistent organic pollutant levels in feathers and blood of two predatory bird species from Pakistan*

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Conference 1 **POPs and Emerging Contaminants in Developing Countries**
• *Karla Pozo, Bondi Gevao*

13:40 **Birgul A**, Yavuz-Guzel E, Daglioglu N, Kurt-Karakus PB: *Determination of rainwater concentrations and wet deposition fluxes of the selected current-use pesticides (CUPs) in Bursa, Turkey*

14:00 **Pongpiachan S**, Hattayanone M, Tipmanee D, Suttinun O: *Chemical characterisation of polycyclic aromatic hydrocarbons in coastal areas of Thailand affected by the 2013 Rayong oil spill*

14:20 **Helou K**, Karaki S, Harmouche Karaki M, Narbonne J-F: *Review of available data on organochlorine pesticides and polychlorinated biphenyls residues in environment, food and humans in Lebanon*

14:40 **Gevao B**, Porcelli M, Guijarro K, Rajagopalan S, Krishnan D, Bahloul M, Zafar J: *Towards an understanding of short, medium, and long-term temporal trends in the atmospheric concentrations of persistent organic pollutants in Kuwait*

15:00 **Fiedler H**, Sobhanei S, Yeung LWY: *First results of PFOS monitoring in surface waters of three continents*

15:40 Clarke E, Asante KA, Nortey Ch, Osei-Fosu P, Kyerematen-Amoah E, Appoh EKE, Fletcher AA, **Adu-Kumi S**, Weber R: *Health and socio-economic assessment of persistent organic pollutants in vulnerable populations of Ghana*

Break

16:30 **Macías-Zamora JV**, Quezada-Hernández C, Sánchez-Osorio JL, Ramírez-Álvarez N, Hernández-Guzmán FA: *A first look at PBDEs and other POPs in commercial harvest of Mytilus sp. and Crassostrea gigas from the Pacific coast of Mexico*

16:50 **Tominaga MY**, Niwa NA, Silva CR, Souza CAM, Sato MIZ: *Stockholm Convention persistent organic pollutants monitoring activities in São Paulo State, Brazil*

17:10 **Torres JPM**, Soares TAF, Guida YS, Vianna MS: *Organochlorinated pesticides (OCPs; DDT and its metabolites) in soils from a small Native American (Guarani-Ñandeva - Tehoe Oco´y) territory near the Itaipu hydroelectric reservoir located at Paraná State, southern region of Brazil*

17:30 Taveira Parente CE, Vollú RE, Carvalho GO, Azeredo A, **Torres JPM**, Meire RO, Seldin L, Malm O: *Fluoroquinolone degradation ratio in poultry litter fertilized soils and persistence of biological impacts below analytical limits of detection – a field study*

17:50 **Ni KT**, Suhlaing Ch, Weber R: *Development of the first HBCD inventory in Myanmar*

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Conference 2 **Environmentally Persistent Free Radicals** * *Bogdan Dlugogorski, Slawo Lomnicki*

09:40 **Liu GR**, Yang LL, Zheng MH: *Effects of metal oxides on environmentally persistent free radical formation and transformation*

10:00 Assaf NW, Altarawneh M, Radny M, **Dlugogorski BZ**: *Formation of phenoxy-type EPFR over hydrated pure alumina and Si-doped alumina surfaces*

10:20 **Harmon A**, Noel A, Subramanian B, Jennings M, Chen Y, Penn A, Varner K, Dugas T: *Exposure to environmentally persistent free radicals leads to decreased vascular responsiveness prior to deficits in pulmonary function*

10:40 **Chen T**, Lin X, Wang T, Zhan M, Li X: *Effects of temperature, atmosphere and metal catalysts on the formation of PCDD/Fs and EPFRs from 1,2,3-trichlorobenzene*

11:00 **Vejerano EP**, Mamun M, Ahn JH: *Research trajectory for environmentally persistent free radicals*

11:20 **Lomnicki S**, Hassan F, Bruce-Keller A, Guo ChQ: *PM air pollution – are EPFRs (Environmentally Persistent Free Radicals) a marker of PM's health impacts?*

11:40 Al-Nu'airat J, **Dlugogorski BZ**, Gao X, Altarawneh M: *Formation of environmentally persistent free radicals induced by iron oxide nanoparticles*

Conference 2 **Emission, Control and Cleanup** * *Shin-Ichi Sakai, Marianna Czaplicka*

13:40 **Ajay SV**, Kirankumar PS, Sanath K, Prathish KP, Ajit H: *First study on the determination of emission factors of dioxins from the open burning of municipal solid waste in India*

14:00 **Aleksandryan AV**, Khachatryan AV, Kočan A, Šebková K: *Results of analyses for PCDDs/PCDFs emissions at open burning*

14:20 **Moreno Caballero AI**, Font R, Conesa JA, Gómez-Rico MF: *Inhibition effect of polyurethane waste in PCDD/F formation*

14:40 **Andersson S**: *Sulfur recirculation for reducing dioxin formation in waste-to-energy plants*

15:00 **Peng Z**, Sun Y, Yan D, Karstensen KH: *PCDD/Fs, dl-PCBs, chlorobenzenes emission from cement kiln stack using refuse derived fuel generated from municipal solid waste*

15:20 **Yoon YS**, Kwon EH, Bae JS, Jeon TW, Lee YK: *Analysis of dioxins emission characteristic during thermal treatment of chlorinated flame retardant and organochlorine pesticides*

15:40 Kuo Ch-H, **Trinh M-H**, Chang M-B: *Characterization of PCDD/Fs and dl-PCBs emission from combustion of PCB-containing oil in a fluidized bed incinerator*

Break

16:30 **Arkenbout A**, Olie K, Esbensen KH: *Emission regimes of POPs of a Dutch incinerator: regulated, measured and hidden issues*

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16:50 **Aleksandryan AV**, Khachatryan AV: *Dioxins/furans emissions from different source categories: Biomass burning and forest fires*

17:10 Du C, Tang M, **Lu S**: *Ball milling prepared V_2O_5/TiO_2 catalysts for the catalytic decomposition of 1,2-DCBz*

17:30 **Hsu Y-Ch**, Chang S-H, Chang M-B: *Removal of tricholorethylene from water with $LaFeO_3$ as photocatalyst*

Q Hotel Plus — 10th International PCB Workshop : **Evolving approaches to assessing exposures and health risks from environmental chemical mixtures** * *Geniece Lehmann, Mattias Öberg*

13:40 **Lehmann GM**, Rice G, Haddad S: *Human health risk assessment of chemical mixtures: Case study of PCBs*

14:00 **Carlson LM**, Pradeep P, Gift J, Davis A, Henning C, Hong T, Patlewicz G, Lehmann GM: *Sufficient similarity evaluation of PCB mixtures: A case study using rodent carcinogenicity data*

14:20 **Palát J**, Codling G, Schacht V, Klánová J: *Polychlorinated biphenyls (PCBs) in human serum*

14:40 **Yesildagli BU**, Karagoz C, Hunc F, Arslanbas D, Yucesoy G, Dillioglugil MO, Filiz S, Gunlemez A, Yılmaz Civan M: *PCB levels in maternal serum*

15:00 **Rawn DFK**, Sadler AR, Liao X, Feeley M: *Polychlorinated biphenyl concentrations in Canadian salmon – revisiting the issue*

15:20 Santos LL, Hatje V, **Leonel J**: *Occurrence and distribution of PCBs in oyster from Todos os Santos Bay, North-eastern Brazil*

Break

16:30 **Frederiksen M**, Knudsen LE, Kolarik B, Haug LS, Broadwell SH, Frøshaug M, Thomsen C, Egsmose EL, Gunnarsen L, Ovesen SL, Andersen HV: *PCB in blood, air, dust, wristbands, hand and surface wipes after PCB exposure in dwellings*

16:50 **Savage DT**, Hilt JZ, Dziubla TD: *Analyte-responsive nanoparticles for the detection of polychlorinated biphenyls*

17:10 **Saktrakulkla P**, Wang K, Hornbuckle KC: *A mathematical model for predicting the relative responses of unidentified OH-PCBs*

17:30 **Capozzi SL**, Jing R, Rodenburg LA, Kjellerup BV: *Positive matrix factorization analysis shows dechlorination of polychlorinated biphenyls during domestic wastewater collection and treatment*

Discussion

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DIOXIN 2018
KRAKÓW • POLAND

Programme

Wednesday, August 29

ED_002435_00005507-00122

08:00 - 18:00 h	Registration : Foyer 0		
08:30 - 09:30	Plenary 3 & 4	*12:40 – 13:25*	Lunch & side meetings
09:30 - 10:00	Coffee	*13:25 – 14:10*	Posters & exhibition
		14:15 – 15:15	PFASs in Asia
10:00 - 12:40	SESSIONS	*14:20 – 16:00*	PCB Workshop
		16:00 –16:30	Coffee
		16:30 – 18:30	PCB Workshop
		After 14:10	Optional Tours

SESSIONS

AUDITORIUM

10:00 - 12:20 • Strategy for a Non-Toxic Environment: Addressing Persistence

THEATRE

10:00 - 12:20 • Levels in Human Foods and Animal Feeds

CHAMBER 1

10:00 - 12:40 • QAQC of POPs Analysis – Recent ISO and National Standards

CHAMBER 2

10:00 - 12:40 • European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed

CONFERENCE 1

10:00 - 12:20 • Dioxins and other POPs in Vietnam and Humans after Agent Orange

CONFERENCE 2

10:00 - 12:20 • Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds

Q Hotel Plus

14:20 – 18:30 PCB Workshop • Novel Studies on PCB Toxicity and Mechanisms Action

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Time frames	Event	Place
	Plenary lectures	
08:30 – 09:00	Emissions of Legacy and non-Legacy PCB congeners to air of homes and schools • *Keri Hornbuckle*	**Auditorium**
09:00 – 09:30	Hepatic effects of halogenated biphenyls • *Larry Robertson*	
09:30 – 10:00	**Coffee break & exhibition**	**Foyer 1 & 2**
10:00 – 12:20	Strategy for a Non-Toxic Environment: Addressing Persistence • *Xenia Trier, Peter Fantke*	**Auditorium**
10:00 – 12:20	Levels in Human Foods and Animal Feeds • *Rainer Malisch, Barbara Gworek*	**Theatre**
10:00 – 12:40	QAQC of POPs Analysis – Recent ISO and National Standards • *Sachi Taniyasu, Bommanna Loganathan*	**Chamber 1**
10:00 – 12:40	European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed • *Ron L Hoogenboom, Tanja Schwerdtle*	**Chamber 2**
10:00 – 12:20	Dioxins and other POPs in Vietnam and Humans after Agent Orange • *Teruhiko Kido, Arnold Schecter*	**Conference 1**
10:00 – 12:20	Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds • *Olie Kees, Mohammednoor Altarawneh*	**Conference 2**

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Time frames	Event	Place
12:40 – 13:25	**Lunch**	**Foyer 0**
	Side meetings	
12:40 – 13:25	**Agilent Technologies**	Conference 1
12:40 – 13:25	**LCTech**	Chamber 1
14:15 – 15:15	**PFASs in Asia**	Chamber 1
13:25 – 14:00	**Posters, coffee & exhibition**	**Foyer 1 & 2**
	10th International PCB Workshop	**Q Hotel Plus**
14:00 – 16:00	Novel Studies on PCB Toxicity and Mechanisms Action •	
16:30 – 18:30	*Mirek Machala, Michael Duffel*	

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Auditorium **Strategy for a Non-Toxic Environment: Addressing Persistence** * *Xenia Trier, Peter Fantke*

10:00 **Boije af Gennäs U**: *EU strategy for a non-toxic environment: Way forward on very persistent substances*

10:20 **Fantke P**, Jolliet O, Overcash M: *Introducing the sustainability perspective in chemical substitution*

10:40 **AlAfghani MM**, Paramita D: *Regulatory challenges in the phasing-out of persistent organic pollutants in Indonesia*

11:00 **Weber R**, Mahjoub B, Ben Hamouda A, de Miguel Wardle K, Outters M, Fantke P: *Substituting hazardous chemicals in the Mediterranean region – Challenges and opportunities for safer and more sustainable solutions*

11:20 Straková J, **Petrlík J**, Pulkrabová J, Gramblička T: *Toxic recycling, or how unsorted waste may contaminate consumer products in the Czech Republic*

11:40 **Petrlik J**, Bell L, Behnisch PA, Wangkiat A: *High levels of PCDD/Fs around sites with waste containing POPs demonstrate the need to review current standards*

12:00 **Trier X**: *Developing indicators for groups of persistent substances in products, in the environment and in people*

Theatre **Levels in Human Foods and Animal Feeds** * *Rainer Malisch, Barbara Gworek*

10:00 **Brambilla G**, Ceci R, Abete MC, Binato G, Chessa G, Esposito M, Fedrizzi G, Ferrantelli V, Ferretti E, Menotta S, Miniero R, Nardelli V, Neri B, Piersanti A, Scortichini G, Ubaldi A, Diletti G: *Suitability of Σ6 ndl-PCB dataset from official food monitoring plans 2013-15 for dietary intake estimates in the Italian population*

10:20 **Warenik-Bany M**, Pajurek M, Mikołajczyk S, Pietroń W, Piskorska-Pliszczyńska J: *Dioxin and PCB levels comparison in farm and wild deer*

10:40 **Glushkina DM**, Bulik S, Numata J, Schafft H, Lahrssen-Wiederholt M: *Extending the 3R principle using PBPK modelling: A case study of TCDD transfer from feed to growing pigs*

11:00 Han Y, **Liu W**: *Sources of polychlorinated dibenzo-p-dioxins and dibenzofurans, and biphenyls in Chinese mitten crabs*

11:20 **Malisch R**, Kraetschmer K, Schill S, Tschiggfrei K, Zwickel T, Schaechtele A: *EU Reference Laboratory and National Reference Laboratories for halogenated POPs in feed and food*

11:40 **Maszewski S**, Mikołajczyk S, Pajurek M, Pietroń W, Warenik-Bany M, Piskorska-Pliszczyńska J: *Dioxin and PCB levels in milk of farm animals*

12:00 **Pajurek M**, Pietroń W, Maszewski S, Mikołajczyk S, Piskorska-Pliszczyńska J: *Poultry eggs as a source of PCDD/Fs, PCBs, PBDEs and PBDD/Fs*

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12:20 **Bremnes NMB**, Thomsen C, Haug LS: *The Norwegian POPs in food-study: A Worldwide Interlaboratory Study*

Chamber 1 **QAQC of POPs Analysis – Recent ISO and National Standards** *
Sachi Taniyasu, Bommanna Loganathan

10:00 **Archer JC**, Moore M, Guo W, Bruce J, McLain M, Fairchild R, Hong H: *Quality control algorithm for determining data acceptability*

10:20 **Esposito V**, Bruno D, Maffei A, Giua R, Nicosia A, Ficocelli S: *Validation of a PCDD/Fs long-term emission sampling system at a large sinter plant for assessment of compliance to permitted emission limit values*

10:40 **Horii Y**, Takasuga T, Yamashita N, Miyazaki A: *International standardization for determination of cyclic volatile methylsiloxanes in water*

11:00 Liu H, Gozhina O, Gorovoy A, Midtaune H, **Johansen JE**: *Development of PAH reference materials and internal standards*

11:20 **Ricci M** , van Mourik LM, Lava R, de Boer J: *Mission sccpossible: A perspective view on the certification of the first reference material for short-chain chlorinated paraffins*

11:40 **Prakash B**, Byrne G, Ogura T: *Determination of perfluorinated alkyl acids specified in EPA M537 and beyond in drinking waters using triple quadrupole LC/MS/MS systems*

12:00 **Taniyasu S**, Reiner EJ, Riddell N, Yamazaki E, Yamashita N: *Interlaboratory trial for validation of ISO 21675 for per- and polyfluoroalkyl substances (PFAS) in water*

12:20 **Yamashita N**, Taniyasu S, Yamazaki E, Wang XH, 3 J: *The international standard method for measuring per- and polyfluoroalkyl substances in ambient air*

Chamber 2 **European Food Safety Authority Special Session: EFSA Risk Assessments of Persistent Organic Pollutants in Food and Feed** *
Ron L. Hoogenboom, Tanja Schwerdtle

10:00 **Mackay K**: *EFSA's risk assessment on persistent organic pollutants*

10:20 **Schwerdtle T**: *PFOS/PFOA in food: Main conclusions of the EFSA risk assessment*

10:40 **Barregård L**: *PFOS/PFOA in food: Use of epidemiological data for the EFSA risk assessment*

11:00 **Haug L**: *PFOS/PFOA in food: Human biomonitoring*

11:20 **Schwerdtle T**: *EFSA's approach for PFASs other than PFOS/PFOA*

11:40 **Hoogenboom R**: *Dioxins in food and feed: Transfer and risks of PCDD/Fs and DL-PCBs in farm animals*

12:00 **Knutsen H**: *Dioxins in food and feed: Adverse effects of PCDD/Fs and DL-PCBs in humans and revising the TWI*

12:20 **Hoogenboom R**: *Dioxins in food and feed: Exposure assessment and human levels of PCDD/Fs and DL-PCBs*

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Conference 1 **Dioxins and other POPs in Vietnam and Humans after Agent Orange** * *Teruhiko Kido, Arnold Schecter*

10:00 **Nishijo M**, Pham NT, Pham TT, Tran NN, Le VQ, Tran HA, Phan HAV, Nishino Y, Nishijo H: *Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese toddlers in the largest hot spot of Agent Orange contamination in Vietnam*

10:20 **Pham NT**, Nishijo M, Tai PhT, Nghi TN, Quan LV, Anh TH, Anh Vu PhV, Nishino Y, Nishijo H: *Effects of dioxin exposure on gaze behaviour in 3-year-old children in Vietnam*

10:40 **Kido T**, Oanh NTP, Honma S, Oyama Y, Anh LT, Phuc HD, Nakagawa H, Nakayama SF, Nhu DD, Tung DV, Minh NH, Toan NV: *Steroid hormones disruption in 5-year-old children in two dioxin hotspot areas in Vietnam*

11:00 **Pham TT**, Nishijo M, Pham NT, Tran NN, Hoang Van T, Hoang Van L, Tran Hai A, Nishijo H: *Effects of perinatal dioxin exposure on learning ability of Vietnamese 8-9 years old children*

11:20 **Schecter A**, Kincaid J, Lu H, Birnbaum L: *Serum levels of dioxins, furans, PCBs, and dioxin toxic equivalents (TEQs) in Vietnamese female electronic waste recyclers compared to Vietnamese non-recyclers*

11:40 **Hai Le LT**: *Setting national regulatory for POPs/dioxin in soil based on human health risk approach*

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Conference 2 Mechanisms of Formation and Destruction of Halogenated Dioxins, PAHs, Biphenyls and Similar Compounds • *Olie Kees, Mohammednoor Altarawneh*

10:00 Lu H, Huang L, Li Q, **Su G**, Zheng M: *Synthesis of metal oxide nanomaterials for the catalytic degradation of 1-chloronaphthalene and 2-monochlorobiphenly*

10:20 **Solá-Gutiérrez C**, San Román MF, Ortiz I: *Dioxins and furans as by-products in the oxidation of Triclosan*

10:40 **Stec AA**, Dickens KE: *The fate of phosphorus flame retardants in fires*

11:00 Xia K, Wang X, Ni Y, Zhang H, Zhang Y, **Chen J**: *Precursors of PCDD/Fs during non-wood pulp chlorine bleaching process*

11:20 **Zhang H**, Fan Y, Chen J: *Levels and fingerprints of chlorinated aromatic hydrocarbons in flue gases and fly ashes from the typical industrial thermal processes: Implication for the mechanism of simultaneous formation*

11:40 **Zhang M**, Fujimori T, Shiota K, Mukai K, Buekens A, Li X, Niwa Y, Takaoka M: *XAFS investigation of chromium chloride catalysed formation of dioxins*

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Q Hotel Plus | 10th International PCB Workshop : **Novel Studies on PCB Toxicity and Mechanisms Action** • *Mirek Machala, Michael Duffel*

14:20 Slavík J, Pěnčíková K, Svržková L, Šimečková P, Procházková J, Vondráček J, **Machala M**: *Sphingolipid metabolism, autophagy and plasma membrane proteins are potential targets of non-dioxin-like PCB 153 in rat liver epithelial cells*

14:40 **Ludewig G**, Flor S, Klenov V, Wang H, Adamcakova-Dodd A, Thorne P, Robertson L: *Rat PCB inhalation study: what can we learn about the effects of a school indoor air mixture?*

15:00 **Esteban J**, Barber X, Sánchez-Pérez I, Alarcón S, Wimmerová S, Palkovicova Murínová L, Conka K, Jurecková D, Trnovec T, van der Ven L, Viluksela M, Håkansson H: *Modulation of retinoid homeostasis by PCBs and related compounds*

15:20 **Hennig B**: *Modulation of PCB-induced inflammatory diseases by lifestyle changes: Implications in atherosclerosis*

15:40 **Lein PJ**, Sethi S, Keil KP, Yang D, Wayman GA: *The developmental neurotoxicity of legacy vs. contemporary PCBs: similarities and differences*

Break

16:30 **Duffel MW**, Rodriguez EA, Tuttle K, Lehmler H-J, Robertson LW: *Sulfation in the transport and toxicity of lower-chlorinated PCBs*

16:50 **Liu Y**, Chen Y, Jin G, Wu Y: *Human P450-dependent activation of polychlorinated biphenyls: mutagenicity, enzymes required, and structure-activity relationships*

17:10 **Ghosh S**, Mitra PS, Loffredo CA, Palkovicova Murinova L, Trnovec T, Sovcikova E, Jureckova D, Rausova K, Noreen Z, DeJesus J, Nnanabu T, Vilmenay K, Makambi KM, Nunlee-Bland G: *Global gene-expression and pathway analysis of new born PCB-exposed Slovak children - perspectives on future disease and disorder development*

17:30 **Erickson MD**: *Environmental PCB forensics: Processes and issues*

Discussion

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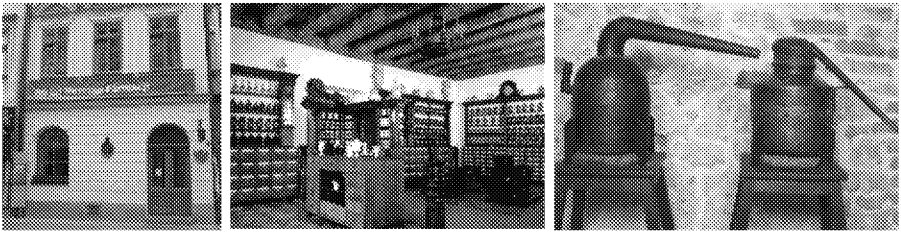

Kraków: Museum of Pharmacy

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DIOXIN 2018
KRAKÓW • POLAND

Programme

Thursday, August 30

ED_002435_00005507-00132

08:00 - 18:30 h	Registration : Foyer 0		
08:30 - 09:15	Plenary 5	*12:20 – 13:05*	Lunch & side meetings
09:15 - 09:40	Coffee	*13:05 – 13:40*	Posters & exhibition
09:40 - 12:20	SESSIONS	*13:40 – 16:00*	SESSIONS + PCB Workshop
		16:00 – 16:30	Coffee
		16:30 – 18:30	SESSIONS + PCB Workshop
		19:30 – 23:30	Gala Dinner • Royal Summer Castle Niepołomice

SESSIONS

AUDITORIUM

09:40 - 12:20 • Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals and Personal Care Products that can act as pseudo-POPs

13:40 – 18:10 • POPs in Polar, Circumpolar and Alpine Regions

THEATRE

09:40 - 16:00 • Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental

16:30 – 18:10 • Exposure – POPs in Pets and Their Applicability as Models for Human Health

CHAMBER 1

09:40 - 12:20 • Sources, Fate, Transport, Modelling and Inventories

13:40 – 18:10 • Non-target Screening – Multimedia analysis

CHAMBER 2

09:40 - 16:00 • Ecotoxicology and Environmental Toxicology of POPs

16:30 – 18:10 • Epidemiology

CONFERENCE 1

09:40 - 16:00 • Halogenated PAHs and PAHs

16:30 – 18:10 • Endocrine Disruption: Multi-models, Mixtures, and Translation

CONFERENCE 2

09:40 - 12:20 • Fate and Behavior of Volatile Methylsiloxanes in the Environment

13:40 – 16:00 • Organometallic Contaminants

16:30 – 18:10 • Risk Assessment and Risk Management

CONFERENCE 3

09:40 - 12:20 • Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs

Q Hotel Plus

13:40 – 18:30 PCB Workshop • PCB Regulations for Health Protection: Recent Actions, Ongoing Initiatives, and Future Perspectives

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Time frames	Event	Place
	Plenary lecture	
08:30 – 09:15	The effect of fire retardants on smoke toxicity • *Richard Hull*	**Auditorium**
09:15 – 09:40	**Coffee break & exhibition**	**Foyer 1 & 2**
09:40 – 12:20	Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals and Personal Care Products that can act as pseudo-POPs • *Beate Escher, Jolanta Kumirska*	**Auditorium**
13:40 – 18:10	POPs in Polar, Circumpolar and Alpine Regions • *Begoña Jiménez, Tomasz Ciesielski, Simonetta Corsolini, Igor Eulaers*	
09:40 – 16:00	Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental • *Stuart Harrad, Paolo Brambilla*	**Theatre**
16:30 – 18:10	Exposure – POPs in Pets and their applicability as Models for Human Health • *Jana Weiss, Hazuki Mizukawa*	
09:40 – 12:20	Sources, Fate, Transport, Modelling and Inventories • *Heidi Fiedler, Jiang Guibin*	**Chamber 1**
13:40 – 18:10	Non-target Screening – Multimedia Analysis • *Si Wei, Hyo-Bang Moon*	
09:40 – 12:20 13:40 – 16:00	Ecotoxicology and Environmental Toxicology of POPs • *Hisato Iwata, Minghui Zheng, Jesus Olivero-Verbel*	**Chamber 2**
16:30 – 18:10	Epidemiology • *Paul KS Lam, Jesus Olivero-Verbel*	
09:40 – 15:20	Halogenated PAHs and PAHs • *Guorui Liu, Yuichi Miyake*	
16:30 – 17:50	Endocrine Disruption: Multi-models, Mixtures, and Translation • *Tom Muir, Marike M Leijs*	**Conference 1**
09:40 – 12:20	Fate and Behavior of Volatile Methylsiloxanes in the Environment • *Yuichi Horii, Nicholas Warner*	
13:40 – 15:40	Organometallic Contaminants • *Danuta Barałkiewicz, Wojciech Wąsowicz*	**Conference 2**
16:30 – 18:10	Risk Assessment and Risk Management • *Martin Rose, Jan Ludwicki*	
09:40 – 12:20	Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs • *Roland Weber, Allan A Jensen*	**Conference 3**

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Time frames	Event	Place
12:20 – 13:05	**Lunch**	**Foyer 0**
	Side meetings	
12:20 – 13:05	ThermoFisher	**Chamber 1**
13:05 – 13:40	**Posters, coffee & exhibition**	**Foyer 1 & 2**
13:40 – 16:00 16:30 – 18:30	**10th International PCB Workshop** PCB Regulations for Health Protection: Recent Actions, Ongoing Initiatives, and Future Perspectives • *Helen Håkansson, Vince Cogliano*	**Q Hotel Plus**

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Auditorium **Environmental Persistence, Analytical Methods and Risk of Human and Veterinary Pharmaceuticals and Personal Care Products that can act as pseudo-POPs** • *Beate Escher, Jolanta Kumirska*

09:40 **Apel C**, Tang J, Joerss H, Ebinghaus R: *Organic UV stabilizers in the coastal and marine environment of Europe and China*

10:00 **Hung H**, Wong F, Shunthirasingham C, Alaee M, Bisbicos T, Pacepavicius G, Smyth SA, Teslic S, Broad K, Marvin C, Jia J, Brown M, Pajda A, Alexandrou N, Luk E, Jantunen L: *Wastewater treatment plants as a source of synthetic musks in the Great Lakes region*

10:20 **Jiang X**, Huang J, Qu Y: *Occurrence, removal and risk assessment of PPCPs in drinking water plants*

10:40 **Abdallah MA**, Nguyen KH, Ebele JA, Atia NN, Ali HR, Harrad S: *A single run, rapid polarity switching method for analysis of 30 pharmaceuticals and personal care products in waste water using Q-Exactive+ Orbitrap: application to Egyptian surface water*

11:00 **Styszko K**, Castrignanò E, Kasprzyk-Hordern B, Lechowicz W, Zuba D: *Drug biomarkers in wastewater from Kraków agglomeration*

11:20 **Duan L**, Zhang Y, Wang B, Yu G: *Occurrence and spatiotemporal distribution of pharmaceutically active compounds (PhACs) at Beiyun River in Beijing, China: 2013-2017*

11:40 **Zhang Y**, Duan L, Wang B, Yu G: *Sewage epidemiology study of antibiotics in flu season in Beijing*

12:00 **Kumirska J**: *Selected analytical challenges and new approaches in the preparation of samples for the determination of pharmaceuticals in environmental matrices*

Student awards

Auditorium **POPs in Polar, Circumpolar and Alpine Regions** • *Begoña Jiménez, Tomasz Cieśtelski*

13:40 **Li YM**, Hao YF, Wang P, Yang RQ, Zhang QH: *Air monitoring of PCBs, PBDEs and OCPs in Arctic and west-Antarctic atmosphere during 2011-2016: Observation from XAD-2 resin passive air sampling*

14:00 **Hung H**, Wong F, Yu Y, Jantunen L, Barresi E, Sverko E, Dryfhout-Clark H, Fellin P: *Temporal trends of persistent organic pollutants and chemicals of emerging Arctic concern in Arctic air*

14:20 **Li Y-F**, Macdonald RW, Hung H, Kallenborn R: *Historical budget of β-hexachlorocyclohexane (β-HCH) into the Arctic Ocean*

14:40 **Hermanson MH**, Garmash O, Isaksson E, Teixeira C, Muir DCG: *History of polychlorinated biphenyl deposition to snow and Ice from the Lomonosovfonna Glacier, Svalbard*

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15:00 **Yang R**, Li Y, Zhang Q: *Transport and deposition of persistent organic pollutants in the Southeast Tibetan Plateau*

15:20 Pan SY, Yang YS, Lin CY, Wu, CP, Lin NH, **Chi KH**: *PCDD/F measurement at high-altitude station in Eastern Asia: Evaluation of long-range transport and source apportionment of PCDD/Fs during the Southeast Asia biomass burning event in 2007-2016*

15:40 **Metzdorff A**, Pozo K, Roscales JL, Jiménez B, Cerro E, Dachs J, Přibylová P, Galbán-Malagón C, Bergami E, Corsolini S: *Novel brominated flame retardants (n-BFRs) in indoor dust from bases and vessel in Antarctica*

Auditorium **POPs in Polar, Circumpolar and Alpine Regions** • *Simonetta Corsolini, Igor Eulaers*

16:30 **Corsolini S**, Pala N, Martellini T, Baroni D, Cincinelli A: *PCBs and PBDEs in soil, sediment and moss community from ponds across Victoria Land, Antarctica*

16:50 Dietz R, **Eulaers I**, Desforges JP, Sonne C, Letcher RJ: *An assessment of the biological effects of organohalogen exposure in Arctic wildlife and fish*

17:10 **Muir DCG**, Houde M, De Silva AE, Butt C, Kirk J, Spencer C, Williamson M: *Comparison of trends of perfluoroalkyl substances (PFASs) in ringed seals and in ocean waters across the Canadian Arctic*

17:30 **Sun J**, Bustnes JO, Bårdsen BJ, Covaci A, Dietz R, Helander B, Jaspers VLB, Malarvannan G, Sonne C, Thorup K, Tøttrup AP, Zubrod JP, Eens M, Eulaers I: *Temporal trends of polychlorinated biphenyls in northern white-tailed eagle Haliaeetus albicilla populations*

17:50 **Balakrishna K**, Vijayasarathy S, Praveenkumarreddy Y, Gopal Ch, Eaglesham G, Jiang H, Bhat K: *First report of pharmaceuticals and personal care products in the sea-ice of Larsemann Hills, eastern Antarctica*

Theatre **Exposure – Food Chain, Maternal, Indoor, Occupational and Accidental** • *Stuart Harrad, Paolo Brambilla*

09:40 **Bastiaensen M**, Ait Bamai Y, Araki A, Van den Eede N, Kishi R, Covaci A: *Determinants of exposure to phosphate flame retardants for Japanese schoolchildren*

10:00 **Coggins M**, Wemken N, Drage DS, Cellarious C, Cleere K, Morrison J, Daly S, Abdallah M, Tlustos C, Harrad S: *Brominated flame retardants (BFRs) in human breast milk collected from first time Irish mothers, 2016 – 2018 – ELEVATE*

10:20 **Zieliński M**, Grešner P, Ligocka D, Polańska K, Gromadzińska J, Hanke W, Wąsowicz W: *Environmental exposure to persistent organic pollutants and markers of oxidative stress in women during pregnancy and lactation*

10:40 **Kademoglou K**, Giovanoulis G, Palm-Cousins A, Padilla-Sanchez JA, Magnér J, de Wit CA, Collins ChD: *Sniffing out the plastic: inhalation bioaccessibility of phthalate esters and alternative plasticisers present in indoor dust using simulated lung fluids*

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11:00 **Li L**, Qiu Y, Weiss J, Gustafsson Å, Thomas L, Krais MA, Bergman Å: *Physical and chemical characterization of a respirable dust fraction from residential houses in Shanghai, China*

11:20 **Pruvost--Couvreur M**, Desvignes V, Roudot AC, Rivière G and the Contalait Study group: *Assessment of the impact of breastfeeding duration on PCBs and PCDD/Fs body burdens using PBPK modeling*

11:40 Richterová D, **Fábelová L**, Patayová H, Pulkrabová J, Rausová K, Šovčíková E, Štencl J, Hajšlová J, Trnovec T, Palkovičová Murínová L: *Determinants of prenatal exposure to perfluoroalkyl substances in the Slovak birth cohort*

12:00 **Shindo M**, Terao K, Muramatsu K, Tokumura M, Wang Q, Miyake Y, Amagai T, Makino M: *Estimating potential dermal exposure to organophosphorus flame retardants via direct contact with products*

Break

13:40 **Tokumura M**, Muramatsu K, Wang Q, Miyake Y, Amagai T, Makino M: *Comparison of rates of direct and indirect migration of phosphorus flame retardants from flame-retardant-treated polyester curtains to indoor dust*

14:00 **Nakao T**, Kakutani H, Yuzuriha T, Ohta S: *Contamination level of organo phosphorus flame retardants (OPFRs) in human breast milk of Japan*

14:20 **Warenik-Bany M**, Struciński P, Piskorska-Pliszczyńska J: *Exposure to dioxins and dl-PCB as a result of venison consumption*

14:40 **Wemken N**, Drage DS, Abdallah M. Harrad S, Coggins M: *An assessment of the exposure of the Irish population to selected brominated flame retardants via indoor air and dust*

15:00 **Yin SS**, Liu WP: *Enantiomeric fractions of chiral OCPs in trans-placental transfer*

15:20 **Zhu Q**, Liao Ch: *Phthalate esters in indoor dust from several regions, China and its implication for human exposure*

Theatre — Exposure – POPs in Pets and their applicability as Models for Human Health * *Jana Weiss, Hazuki Mizukawa*

16:30 Brits M, Rohwer ER, De Vos J, Weiss JM, Brandsma SH, **de Boer J**: *Analysis of brominated and organophosphorus flame retardants and chlorinated paraffins in South African indoor dust and cat hair*

16:50 **Khidkhan K**, Mizukawa H, Ikenaka T, Nakayama S, Darwish WS, Nomiyama K, Takiguchi M, Yokoyama N, Ichii O, Tanabe S, Ishizuka M: *Tissue distribution and CYP expression related-PCBs exposure in cats*

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17:10 **Nomiyama K**, Eguchi A, Mizukawa H, Yamamoto Y, Nishikawa H, Takiguchi M, Nakayama S, Ikenaka Y, Isizuka M, Tanabe S: *Pilot study on the toxicological assessment of organohalogen compounds in pet cat (Felis catus) serum using metabolomics approach*

17:30 **Weiss J**, Andersson P, Hamers T, Legradi J, Lamoree M, Jones B, Bignert A, Carlsson G, Bergman Å: *Cats exposure to organic contaminants and potential effects on the thyroid hormone system*

17:50 Tamura S, Agusa T, Hirano M, Eguchi A, Nomiyama K, Li L, Kannan K, Tanabe S, Kim EY, **Iwata H**: *PCBs as an environmental obesogen in dogs: evidence from hepatic transcriptome, metabolome, and lipidome analyses*

Chamber 1 **Sources, Fate, Transport, Modelling and Inventories** * *Heidi Fiedler, Jiang Guibin*

09:40 **Fiedler H**, Malisch R, Schächtele A, Hoogenboom R, van Leeuwen S, Stephanowitz R, Knetsch G: *Pattern database for identification of sources and transfers of polychlorinated dibenzo-p-dioxins, dibenzofurans and biphenyls*

10:00 Yang YH, Ngo TH, Pan SY, Wu CP, Tsai HT, **Chi KH**: *Continuous nationwide PCDD/F air monitoring network in Taiwan (2006-2017): concentration variation, emission source apportionment and exposure risk assessment*

10:20 **Hogarh JN**, Bempah CK, Adu-Kumi S, Weber R: *Inventory of polybrominated diphenyl ethers (PBDEs) in the transport sector in Ghana*

10:40 **Josefsson S**, Norrlin N, Apler A, Gottby L, Larsson O, Nyberg J, Zillén L: *Fibrous sediment from pulp & paper mills – contamination levels and spatial extent*

11:00 **Nnorom I.C**, Odeyingbo O, Dubzer O: *Concern over environmental POPs contamination from open burning of electronic wastes in Nigeria: lessons from the Person in Port Project*

11:20 **Li Y-F**: *Prediction of slopes and intercepts from log-log correlations of gas/particle quotient and vapor-pressure and octanol-air partition coefficient for SVOCs*

11:40 **Suciati F**, Aviantara DW: *Microplastics and the potential threat of unforeseen POPs exposure to Indonesian water*

12:00 Rauert C, **Harner T**: *Progress in tracking legacy and emerging POPs in the global atmosphere under the GAPS network*

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Chamber 1 **Non-target Screening – Multimedia Analysis** * *Si Wei, Hyo-Bang Moon*

13:40 **Aznar-Alemany Ò**, Sala B, Jobst KJ, Reiner EJ, Borrell A, Aguilar À, Barceló D, Eljarrat E: *Temporal trends of flame retardants and non-targeted analysis of halogenated contaminants in striped dolphins from the Mediterranean Sea*

14:00 **Cariou R**, Léon A, Hutinet S, Guitton Y, Hurel J, Pourchet-Gellez M, Antignac JP, Munschy C, Tixier C, Dervilly-Pinel G, Le Bizec B: *HaloSeeker v1.0, a user-friendly software application for screening halogenated chemicals from untargeted high resolution mass spectrometry data*

14:20 **Lee S**, Kim K, Jeon J, Moon H-B: *Prioritization of emerging contaminants in the Arctic environment using target and non-target screening analysis*

14:40 Lin Y, **Ruan T**, Jiang G: *Identification of ToxCast chemicals in airborne fine particulate matter by a suspect screening strategy*

15:00 **Rostkowski P**, Haglund P, Oswald P, Alygizakis N, Thomaidis N, Aalizadeh R, Covaci A, Moschet Ch, Karzenon S, Yang Ch, Shang D, Hindle R, Booij P, Ionas A, Grosse S, Arandes JB, Dévier MH, Lestremau F, Leonards P, Plassman M, Magner J, Matsukami H, Jobst K, Ipolyi I, Slobodnik J, Reid M: *The value of complementary techniques in suspect and non-target screening – results of the Norman Collaborative Trial of the indoor dust*

15:20 **Wei S**, Yu N: *Non-target screening of organic pollutants in multimedia in China*

Break

16:30 **Yu N**, Guo H, Wei S: *Non-target and suspect screening of per- and polyfluoroalkyl substances in airborne particulate matter in China*

16:50 **Li Y**, Yu N, Wei S: *Non-target strategy of organic compounds in paired maternal and cord serum*

17:10 **Yukioka S**, Tanaka S, Suzuki Y, Fujii S, Echigo S, Hayashi A: *Suggestion on a procedure to identify non-targeted per – and polyfluoroalkyl substances (PFASs) based on fragmentation flagging by liquid chromatography-ion mobility-quadrupole-time of flight mass spectrometry (LC/IM-QTOF)*

17:30 **Zhang XM**, Jobst K, Helm P, Reiner EJ, Brindle I: *Targeted and non-targeted screening of hydrophobic halogenated compounds in aquatic environment via passive sampling and GC-APCI-QToF-MS analysis: Potential application in water quality surveillance programs*

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Chamber 2 **Ecotoxicology and Environmental Toxicology of POPs 1** • *Hisato Iwata, Minghui Zheng*

09:40 **de Wit CA**, Johansson AK, Sellström U, Lindberg P: *Input–output study of brominated flame retardants in female captive peregrine falcons*

10:00 Eljarrat E, **Aznar-Alemany Ò**, Sala B, Frías Ó, Barceló D, Blanco G: *Halogenated flame retardants in birds from central Spain: PBDE levels still very high*

10:20 **Aznar-Alemany Ò**, Sala B, Plön S, Bouwman H, Barceló D, Eljarrat E: *Halogenated and organophosphorus flame retardants in cetaceans from the Indian Ocean*

10:40 **Muñoz-Arnanz J**, Bartalini A, Capanni F, Marsili L, Fossi MC, Jiménez B: *Assessment of dl-PCBs, PCDD/Fs and PBDEs in striped dolphins and sperm whales from the Mediterranean Sea*

11:00 **Jeong Y**, Gu B-N, Park G-J, An Y-R, Moon H-B: *Assessment of prenatal exposure to POPs during second trimester using mother-fetus pairs of finless porpoises (Neophocaena asiaeorietalis)*

11:20 **Jepson PD**, Deaville R, Barber JL, Brownlow A, Law RJ: *High extinction risk: severe PCB pollution in European killer whales (Orcinus orca)*

11:40 **Yoshinouchi Y**, Hirano M, Nakata H, Nomiyama K, Tanabe S, Kim EY, Iwata H: *In vitro and in silico approaches for assessing the activation of Baikal seal estrogen receptors by bisphenols and OH-PCBs*

Chamber 2 **Ecotoxicology and Environmental Toxicology of POPs 2** • *Hisato Iwata, Jesus Olivero Verbel*

13:40 **Tongue ADW**, Drage DS, Harrad S, Reynolds SJ, Fernie KJ: *Feeling the heat: Gulls as bioindicators of flame retardant emissions from UK landfill*

14:00 Huang WX, Tsai PC, **Ngo TH**, Wu CP, Ueng YF, Chi KH: *Assessing the cytotoxicity and genotoxicity of chemical components in fine particulate matters ($PM_{2.5}$) from different areas in Taiwan*

14:20 Coronado-Posada N, Maza-Villegas J, **Olivero Verbel J**: *Rodenticides are potential modulators of human DNA methyltransferases*

14:40 **Shi GH**, Dai JY: *Parental exposure to 6:2 chlorinated polyfluorinated ether sulfonate (F-53B) impairs transgenerational reproductive capability in zebrafish*

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Chamber 2 **Epidemiology** * *Paul KS Lam, Jesus Olivero-Verbel*

16:30 **Berghuis SA**, Bos AF, Sauer PJJ, Bocca G: *Prenatal exposure to persistent organic pollutants and anthropometric measures in adolescents*

16:50 **Haga Y**, Suzuki M, Matsumura C, Okuno T, Tsurukawa M, Fujimori K, Kannan N, Weber R, Nakano T: *Monitoring of OH-PCBs in PCB transport worker's urine for a non-invasive exposure assessment tool*

17:10 **Lazar F**, Bacher S, Göen T, Stiegler H, Hölzer J: *LDL-cholesterol in PFOA-exposed residents from Arnsberg, Germany – results of a cohort study 2006-2017*

17:30 **Webster TF**, Oken E, Harris M, Mora AM, Preston E, Fleisch A, Rifas-Shiman S, Sagiv SK: *Exposure to PFAS and childhood development: Studies from project Viva*

17:50 **Webster TF**, Weisskopf MG: *Biomarkers of exposure to persistent organic pollutants: Blessing and curse for epidemiology?*

Conference 1 **Halogenated PAHs and PAHs** * *Guorui Liu, Yuichi Miyake*

09:40 **Asakawa D**, Tojo T, Ichihara M, Matsumura C, Hasegawa H, Miyawaki T, Nishino T: *Development of LC-DA-APPI-MS/MS method for determination of nitrated polycyclic aromatic hydrocarbons and its diurnal variations during transboundary air pollution events*

10:00 **Szternfeld Ph**, Marchi J, Chao S, Broos J, Joly L: *Modular method for polycyclic aromatic hydrocarbons determination in spices and dried herbs by GC-MS/MS*

10:20 **Sei K**, Wang Q, Masuda M, Tokumura M, Miyake Y, Amagai T: *An analytical method for chlorinated polycyclic aromatic hydrocarbons in particles by thermal desorption-GC/MS*

10:40 **Huo Ch-Y**, Sun Y, Liu L-Y, Wen-Long Li, Ed Sverko, Hai-Ling Li, Zhang Z-F, Ma W-L, Song W-W, Yi-Fan Li: *Centered accumulation and equilibrium of PAHs on indoor window films and the influence of central heating*

11:00 **Liu GR**, Jin R, Zheng M, Yang L, Xu Y, Li C: *Field investigation on the releases of halogenated polycyclic aromatic hydrocarbons from cement kilns with sewage sludge co-processed*

11:20 **Lyu J-M**, Chi K-H, Chang M-B: *Characteristics of PM2.5 and polycyclic aromatic hydrocarbons emitted from coal combustion processes*

11:40 **Ngo TH**, Yang HY, Pan SY, Hsu WT, Hung PC, Chou CCK, Wu CP, Chi KH: *Polycyclic aromatic hydrocarbons emission in stack gases and source apportionment in Taiwan atmosphere*

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13:40 **Masuda M**, Wang Q , Masahiro TM, Miyake Y, Amagai T: *Unintentional generation of chlorinated polycyclic aromatic hydrocarbons during cooking*

14:00 **Wu G**, Sun Y, Jiang Ch, Lu Y: *Research on pollution prevention and control BAT of chlorinated aromatics in secondary copper industry*

14:20 **Xiu M**, Wang X, Mueller J, Beecroft A, Morawska L, Thai KPh: *Emission of particulate matter, VOCs and PAHs from different asphalt mixes*

14:40 **Haga Y**, Yoshiki R, Matsumura C, Yamasaki T, Nakagoshi A, Fujimori K, Tojo T, Hasegawa H, Miyawaki T, Nishino T, Nakano T: *Spatial distribution and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in sediments in Hyogo Prefecture, Japan*

Conference 1 **Endocrine Disruption: Multi-models, Mixtures, and Translation** * *Tom Muir, Marike M Leijs*

16:30 **Doan TQ**, Muller M, Berntsen HF, Zimmer KE, Verhaegen S, Ropstad E, Connolly L, Scippo ML: *A realistic mixture of persistent organic pollutants (POPs) reveals possible synergism to inhibit the transactivation activity of the aryl hydrocarbon receptor (AhR) in vitro*

16:50 **Leijs ML**, Esser A, Schettgen T, Fietkau K, Merk HF, Koppe J, Kraus T, Baron JM: *Effects of persistent organic compounds on the skin; filtering out effects of exposure to multiple congeners and compounds*

17:10 **Koetsier J**, Leijs M, van de Sluis K, Koppe J: *Acetaminophen toxicity in the human fetus*

17:30 **Muir T**, Michalek JE, Palmer R: *Integrating exposure, toxicology and epidemiology: a prototype for multi-model, translation, and mixtures study – An update on sample size and lipid-wet weight contrasts*

17:50 **Stec AA**: *Occupational exposure to polycyclic aromatic hydrocarbons and elevated cancer incidence in firefighters*

Conference 2 **Fate and Behavior of Volatile Methylsiloxanes in the Environment** * *Yuichi Horii, Nicholas Warner*

09:40 **Dumanoglu Y**, Yaman B, Odabasi M: *Seasonal variations of cyclic and linear volatile methylsiloxanes in an urban atmosphere*

10:00 **Horii Y**, Minomo K, Ohtsuka N, Motegi M, Takemine S, Hara M: *Regional characteristics and annual and diurnal variations of methylsiloxanes in the atmospheric environment, Saitama, Japan*

10:20 Horii Y, Taniyaus S, Yamazaki E, Falandysz J, **Yamashita N**: *Volatile methylsiloxanes as important alternatives to PFASs*

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10:40 **Kim J**, Mackay D, Whelan MJ: *Dynamic behaviors of linear and cyclic volatile methylsiloxanes in global and local environments*

11:00 **Ratola N**, Homem V, Rocha F, Capela D, Silva JA, Ramos S, Jiménez-Guerrero P, Castro-Jiménez J, Alves A: *Assessing volatile methylsiloxanes in coastal areas*

11:20 **Warner NA**, Nikiforov V, Krogseth IS, Kierkegaard A, Bohlin-Nizzetto P: *Reducing sampling artifacts in air measurements: Improvement of active air sampling methodologies for accurate measurements of cyclic volatile methylsiloxanes in remote regions*

11:40 **Xu S**, Miller J, Annette Vogel A: *Modeling assessment and experimental measurements of snow scavenging of octamethylcyclotetrasiloxane (D4) and decamethylcyclopentasiloxane (D5)*

Conference 2 **Organometallic Contaminants** • *Danuta Baralkiewicz, Wojciech Wąsowicz*

13:40 **Eklund B**: *Is TBT occurrence on pleasure boats still a problem?*

14:00 **Josefsson S**, Apler A, Zillén L, Linderoth M: *Temporal and spatial trends of organic contaminants in Baltic Sea and Swedish west coast off-shore sediment*

14:20 **Huang Q**, Yang L, Zhu Z, Qiu Y, Yin D, Zhao J, Bergman Å: *Contamination of organotin compounds in public drinking water in Shanghai, China*

14:40 **Kuangwei H**, Koji A, Yuka Y, Yasuhiro I: *Analysis and comparison of mercury-containing by-product and estimation of mercury release from the industrial coal-fired boiler*

15:00 **Zhang J**, Falandysz J, Wang YZ, Li T: *Contamination of mushrooms from China with arsenic and arsenic compounds, a mini review*

Conference 2 **Risk Assessment and Risk Management** • *Martin Rose, Jan Ludwicki*

16:30 **Wikoff D**, Ring CL, Thompson C, Urban J, Budinsky RA, Haws LC: *Characterization of the dose-response relationship for TCDD and changes in sperm concentration in rats using meta-regression: A feasibility assessment of quantitative evidence integration techniques*

16:50 **Kwon SY**, Seo S-H, Chang Y-S: *Exposure assessment of perfluoroalkyl substances (PFASs) on the general population: 10-year trend and health effects*

17:10 **Ohajinwa CM**, van Bodegom P, Vijver M, Peijnenburg W: *Estimation of health risk of polybrominated diphenyl ethers at informal electronic waste recycling sites*

17:30 Ring CL, **Wikoff D**, Budinsky RA, Haws LC: *Bayesian approach to assessing uncertainty in dioxin reference dose*

17:50 Wikoff D, **Ring CL**, Thompson C, Harris M, Haws LC: *Continued refinement of relative potency (REP) estimates for dioxin-like compounds: Case study application of consistent methodologies to develop REP values*

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Conference 3 **Progress in Industrial Technology and Sustainable Chemistry to Phase out and Control POPs** • *Roland Weber, Allan A Jensen*

09:40 **Jiang C**, Zheng Z, Wang H, Tian Y, Sun Y, Huang J: *To reduce and phase out PFOS in China: a technical roadmap under a GEF project*

10:00 **McDowall G**, Bluteau T: *Eliminating the use of PFAS and Glycols used in the formulations of fire-fighting foams – An opportunity to embrace a sustainable outcome when fighting fires*

10:20 **Franke V**, Schäfers M, Lindberg JJ, Lakshmanan R, Ahrens L: *Removal of per- and polyfluoroalkyl substances from drinking water using ozonation combined with a heterogeneous catalyst and persulfate*

10:40 **Omo-Okoro PN**, Daso AP, Okonkwo OJ: *Per- and polyfluoroalkyl substances (PFAS): Ubiquity, levels, toxicity and their removal from aqueous media using novel agro-based adsorbents*

11:00 **Centeno C**, Tyrkko K: *UNIDO POPs program and Circular Economy: Addressing the challenge of persistent organic pollutants in the recycling chain*

11:20 **Slijkhuis Ch**: *Recycling plastics from WEEE requires a sensible and practical approach on POPs*

11:40 **Wagner S**, Schlummer M, Mäurer A, Tange L, Noordegraaf J: *Recycling of EPS waste containing HBCDD – The PolyStyrene Loop*

12:00 **Fantke P**, Hauschild MZ, McKone TE: *Risk and sustainability: trade-offs and synergies for robust decisions*

Student awards

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Q Hotel Plus	10th International PCB Workshop : **PCB Regulations for Health Protection: Recent Actions, Ongoing Initiatives, and Future Perspectives** • *Helen Håkansson, Vince Cogliano*

13:40 **Verstraete F**: *EU policy to prevent and reduce the presence of PCBs (DLs and NDLs) in food and feed*

14:00 **Udugama GK**, Werahera SM, Centeno CR: *Challenges and recent developments in managing polychlorinated biphenyls (PCBs) in Sri Lanka*

14:20 **Ohno-Woodall K**, Camelo E, Dittkrist J, Fiedler H: *Evaluating the progress in the elimination of PCB as required under the Stockholm Convention on persistent organic pollutants (interim report)*

14:40 **Takeda R**: *Parental electro cardio graphies (after 50 Years) of Yusho victims who are left behind*

15:00 **Cogliano V**: *The IARC 2016 cancer evaluation: Research directions to help public health agencies move forward*

Break

16:30 **Barlow S**: *The JECFA ndl-PCB safety evaluation. Findings, including gaps, and ways forward*

16:50 **Hoogenboom LAP**: *How toxic is PCB 126 in humans?*

17:10 **Ali I**, Högberg J, Korhonen A, Stenius U: *CRAB3: A text mining approach to evaluate PCB toxicity for health risk assessment*

17:30 **Lehmann GM**, Carlson LM: *Update on the progress and goals of U.S. EPA's integrated risk information system Assessment of PCBs*

17:50 **Cogliano V**: *Session closing note*

Discussion

Student awards

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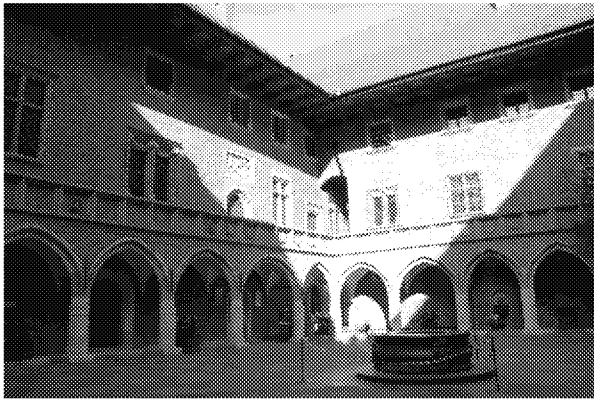

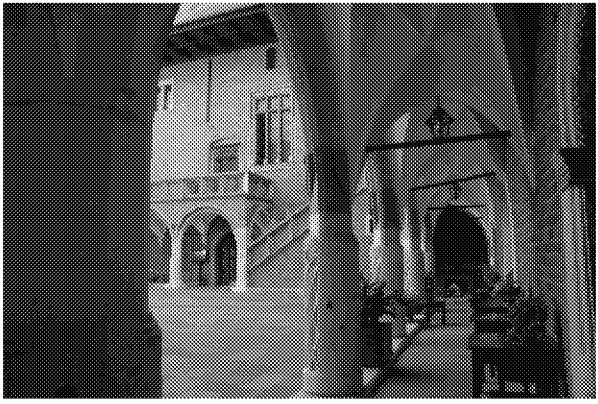

Kraków: Collegium Maius - Jagiellonian University

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DIOXIN 2018
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Programme

Friday, August 31

Auditorium Maximum – Jagiellonian University
33 Krupnicza Street (Coordinates: 50°03'49,8"N 19°55'35,7"E)

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Time frames	Event	Place
	Plenary lecture	**Auditorium Maximum**
09:30 – 10:15	Dietary exposure, risk assessment and regulation for legacy and emerging POPs • ***Martin Rose***	
10:15 – 10:45	**Coffee break**	**Foyer**
12:00 – 12:30	Dioxin 2018 Highlights •	**Auditorium Maximum**
12:30 – 13:00	O. Hutzinger Awards •	
	Dioxin 2019 Kyoto •	
	Lunch	**Foyer**

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Agilent Technologies

ALS

Cambridge Isotope Laboratories, Inc

CHIRON

Dioxin Monitoring System

DSP Systems

FluoroCouncil

FMS Fluid Management Systems

LECO

LCTech

MasCom

MIURA

Shimadzu

ThermoFisher Scientific

Waters

Wellington Laboratories

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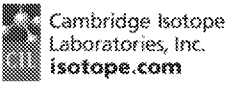

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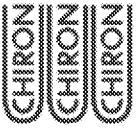
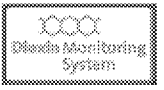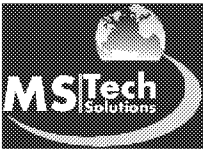
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