Sunday 18 June

Satellite meetings and workshops:

**Time:**

10:00 - 16:00  **New emerging PFAS: International regulation strategies**  
Convenors: Lena Vierke (Federal Environmental Agency, Berlin, Germany) & Zhanyun Wang (ETH Zurich, Switzerland)  
*Location: Helga Engs hus, Auditorium 1*

10:00 - 16:00  **Algal toxins: Methods and implications**  
Convenors: George B. Cobb (Bayor University, TX, USA) & Dion Dionysiou (University of Cincinnati, IL, USA)  
*Location: Helga Engs hus, Auditorium 2*

10:00 - 16:00  **New contaminants, new risks: Analysis and environmental implications**  
Convenor: Silvia Lacorte (Institute of Environmental Assessment and Water Research, Barcelona, Spain) & Rosa Marie Marcé (University Rovira i Virgili, Tarragona, Spain)  
*Location: Helga Engs hus, Auditorium 3*

10:00 - 16:00  **Isotopic techniques and their applications in environmental research**  
Convenors: Nives Ogrinc & David Heath (Insitute Jozef Stefan, Lubljana, Slovenia)  
*Location: Helga Engs hus, U35*

17:00  **Opening Ceremony - Cultural/musical contribution**  
*Location: Georg Sverdrups hus: Auditorium 1*

17:20  **Welcome Address from the Local Organisation Committee:**  
Roland Kallenborn (Norwegian University of Life Sciences, Norway)

**Welcome addresses:**

President of the Norwegian Chemical Society (NKS): Øivind Mikkelsen (Norwegian University of Technology (NTNU), Norway)

Dean of Faculty of Mathematics and Natural Sciences: Morten Dæhlen (University of Oslo (UiO), Norway)

DCE Chairman: Santiago V. Luis Lafuente (University Jaume I, Castello de la Plana, Castellon, Spain)

18:00  **Plenary lecture:**  
Leiv K. Sydnes (University of Bergen, Norway)  
*Chemistry in the service of society*
Monday 19 June

Plenary session:

*Location: Georg Sverdrups hus, Auditorium 1*

**Time:**

09:00  Introduction and Administrative notes

09:10  Chairmen: Santiago Luis (Universitat Jaume I, Spain) & Walter Giger (Giger Research, Switzerland); Representing DCE - EuCheMS introduction: 

DCE Life Time Achievement award presented to Prof. Dr. Søren Jensen (Stockholm University, Sweden) in the occasion of 50 year anniversary of polychlorinated biphenyls (PCBs) identified as environmental pollutants

09:25  Søren Jensen (Stockholm University, Sweden) - personal impressions and notes

09:45  **Plenary lecture:**

Åke Bergman (SWETOX - Academic Research Center for Chemicals, Health and Environment, Sweden)

Persistent Organic Pollutants (POPs): History, lessons learned and the way ahead

11:00 - 15:15  Thematic sessions - see detailed schedule

13:45 - 15:15  Thematic sessions - see detailed schedule
Monday 19 June
Microplastics

Location and time: Helga Engs hus, Auditorium 1, 11:00 - 13:00
Chair: Thorsten Hüffer (University of Vienna)

Oral presentations:

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<tr>
<th>Time</th>
<th>Name &amp; Institution</th>
<th>Title</th>
<th>Abstract ID</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Thorsten Hüffer, Antonia Praetorius, Stephan Wagner, Frank von der Kammer, Thilo Hofmann</td>
<td>Microplastic exposure assessment from the perspective of nanoparticle research</td>
<td>83</td>
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<tr>
<td>11:15</td>
<td>Saskia Rehse, Andrea Zikova, Wibke Kleiner, Wener Kloas, Christiane Zarfl</td>
<td>Microplastics in interaction with pollutants – Insights from laboratory experiments on impacts on freshwater fauna</td>
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<td>11:30</td>
<td>Caroline Goedecke, Ulrike Mülow-Stollin, Selina Hering, Andrea Paul, Ulrike Braun</td>
<td>Investigation of sorption of environmental pollutants to virgin and aged microplastics</td>
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<td>11:45</td>
<td>Linn Merethe Brekke Olsen, Naiara Berrojalbiz, Dieter Issler, Hans Peter Arp</td>
<td>The Sinking Behavior of Fresh and Weathered Microplastics in Surface Water</td>
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<tr>
<td>12:00</td>
<td>Jan H. Sundet, Dorte Herzke, Maria Jenssen</td>
<td>Microplastic in the marine environment of Svalbard, Norway</td>
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<td>12:15</td>
<td>Jonatan Fengler, Christina Apel, Jürgen Gandrass, Ralf Ebinghaus</td>
<td>Development of a LC-MS/MS method to determine synthetic antioxidants from plastic products in the marine environment</td>
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<td>12:30</td>
<td>Andrea Paul, Roland Becker, Lukas Wander, Steffen Breitfeld, Martin Koegler, Andreas Sauer, Ulrike Braun</td>
<td>An alternative spectroscopic approach for the monitoring of micro-plastic in environmental samples</td>
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<td>12:45</td>
<td>Anna Elert, Roland Becker, Erik Dümichen, Paul Eisentraut, Jana Falkenhagen, Heinz Sturm, Ulrike Braun</td>
<td>Challengers in microplastics identification: Is one detection method enough?</td>
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Microplastics

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

France Collard, Bernhard Gilbert, Gauthier Eppe, Sam Azimi, Vincent Rocher, Bruno Tassin, Johnny Gasper

Abstract ID: 228
Microplastics found in the stomach contents of the European chub (Squalius cephalus) from the Seine River

Marina Albentosa, Victor M. León, Juan Bellas, Juan Santos-Echeandia, Juan A. Campillo

Abstract ID: 287
Comparative exposure of mussels to chlorpyrifos through microplastic and microalgal particles

Ana V. Figueiras, Jesús Gago, Olga Carretero, Juan Santos-Echeandia, Victor M. León

Abstract ID: 289
Microplastic distribution along Spanish Mediterranean coast and Mar Menor lagoon

Claudia Halsband, Dorte Herzke

Abstract ID: 330
Do microplastics impact the productivity of arctic marine food webs?

Sven Seldensticker, Greta Fellenberg, Christiane Zarfl, Peter Grathwohl

Abstract ID: 304
Microplastic particles as a transport vector for organic wastewater contaminants to dissolved organic matter
### Monday 19 June

**Atmospheric aerosols and pollutants**

Location and time: Helga Engs hus, Auditorium 2, 11:00 - 12:45  
Chair: Stephan Weinbruch (Technical University of Darmstadt, Germany) & Yngvar Thomassen (National Institute of Occupational Health, Norway)

#### Oral presentations:

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<tr>
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<td>11:00</td>
<td>15</td>
<td>Chen Wang, Tiange Yuan, Stephen A. Wood, Kai-Uwe Goss, Jingyi Li, Qi Ying, Frank Wania</td>
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<tr>
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<td>Uncertain Henry’s law constants compromise equilibrium partitioning calculations of atmospheric oxidation products</td>
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<td>Study of the chemical processes involving nitro- and oxy-PAHs in ambient air and evaluation of SOA PAH contribution on PM via annual and intensive field campaigns</td>
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<td>11:30</td>
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<td>Monique Teich, Dominik van Pinxteren, Michael Wang, Simonas Kecorius, Zhibin Wang, Thomas Müller, Giriša Močnik, Hartmut Herrmann</td>
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<tr>
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<td>Measurements of nitrated aromatic compounds in aerosol particles and their contribution to the light absorption of brown carbon</td>
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<td>11:45</td>
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<td>Pêrola Castro Vasconcellos, Guilherme Martins Pereira, Kimmo Teinilä, Danilo Custódio, Aldenor Gomes Santos, Huang Xian, Risto Hillamo, Célia Alves, Jailson Bittencourt De Andrade, Gisele Olimpio Da Rocha, Prashant Kumar, Rajasekhar Balasubramanian, Maria Fátima Andrade</td>
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<td>Chemical composition and source apportionment for particulate matter in São Paulo, Brazil</td>
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<td>12:00</td>
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<td>Thorsten Hüffer, Antonia Praetorius, Stephan Wagner, Frank Von Der Kammer, Thilo Hofmann</td>
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<tr>
<td></td>
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<td>Microplastic exposure assessment from the perspective of nanoparticle research</td>
</tr>
<tr>
<td>12:15</td>
<td>133</td>
<td>Sofia Caumo, Ana Vicente, Danilo Custódio, Célia Alves, Pêrola Vasconcellos</td>
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<tr>
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<td>Measurements of organic compounds in particulate matter and gaseous phase collected at the neighbourhood of an industrial complex in São Paulo (Brazil)</td>
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<td>12:30</td>
<td>135</td>
<td>G. Spindler, A. Grüner, K. Müller, B. Stieger, D. van Pinxteren, H. Herrmann</td>
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<td>A 24 year long-term trend for PM at Melpitz site in Germany – Results for different Weather Type Classification Methods</td>
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Monday 19 June
Atmospheric aerosols and pollutants

Location and time: Helga Engs hus, Auditorium 2, 13:45 - 15:15
Chair: Stephan Weinbruch (Technical University of Darmstadt, Germany) & Yngvar Thomassen (National Institute of Occupational Health, Norway)

Oral presentations:

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<tr>
<td>13:45</td>
<td>450</td>
<td>Yiming Yao, Shuai Chang, Yangyang Zhao, Zhiwei Gan, Hongwen Sun Neutral and Ionic Per- and Polyfluoroalkyl Substances (PFASs) in the Atmosphere: Occurrence and Distribution Associated with Particulate Matter</td>
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<td>14:00</td>
<td>194</td>
<td>Ivano Vassura, Elena Bernardi, Ezio Bolzacchini, Marco Casati, Luca Ferrero, Lara Nobili, Mariagrazia Perrone, Simona Raffo, Elisa Venturini A new sampling system to study the effects of atmospheric particle matter in material decay</td>
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<td>14:15</td>
<td>265</td>
<td>Celine Degrendele, Roman Prokes, Petr Kukucka, Pourya Shahpoury, Jana Klánová, Gerhard Lammel Are atmospheric PBDE levels declining in Europe? Examination of seasonal variations, gas-particle partitioning and implications for long-range atmospheric transport</td>
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<tr>
<td>14:30</td>
<td>274</td>
<td>Nicholas A. Warner, Vladimir Nikiforov, Ingjerd S. Krogseth, Pernilla Bohlin-Nizzetto Is Octamethylcyclotetrasiloxane (D4) a persistent organic Pollutant? Weighing the evidence and risk to Arctic Environments</td>
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<tr>
<td>14:45</td>
<td>295</td>
<td>Stephan Weinbruch, Nathalie Benker, Konrad Kandler, Katharina Schütze, Kirsten Kling, Balázs Berlinger, Yngvar Thomassen, Tatiana Drotikova, Roland Kallenborn Source apportionment of individual soot agglomerates in ambient air on Svalbard: A transmission electron microscopy study</td>
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<td>15:00</td>
<td>312</td>
<td>Pourya Shahpoury, Zoran Kitanovski, Roman Prokes, Ondrej Sanka, Roland Kallenborn, Gerhard Lammel Wet scavenging of nitrated and oxygenated aromatic hydrocarbons in urban and remote sites in Europe; levels and distribution in phase-segregated precipitation</td>
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Atmospheric aerosols and pollutants

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Andrea Bellmann, Hanan Atia, Jörg Radnik, Ursula Bentrup, Angelika Brückner
Direct Cleaning of Flue Gas from Natural Gas Plants – How Co-ZSM-5 catalysts force Methane to reduce Nox

Terry F. Bildeman, Mats Tysklind
Breakthrough During Air Sampling with Polyurethane Foam: What Do Trap2/Trap1 Ratios Mean?

Celine Degrendele, Lyassine Allou, Juhani Laurikko, Mavi Prati, Martin Weilenmann, Tamás Merétei, Isabelle Caplin, Robert Joumard, Michael André, Aurélie Charron
Laboratory measurements of volatile organic compounds emissions from passenger cars

Stine Eriksen Hammer, Hans-Christian Clemen, Johannes Schneider, Stephan Mertes, Sarah Grawe, Martin Ebert, Stephan Weinbruch
Comparison of the single particle measurement techniques “SCANNING ELECTRON MICROSCOPY” and “SINGLE PARTICLE MASS SPECTROMETRY

Therese Haugdahl Nøst, Anne Karine Halse, Martin Schlabach, Are Bäcklund, Sabine Eckhardt, Knut Breivik
Low concentrations of persistent organic pollutants (POPs) in air at Cape Verde

Zoran Kitanovski, Gerhard Lammel, Roman Prokes, Constantini Samara, Poury Shahpoury, Aristeidis Voliotis
Nitro-monoaromatic compounds in urban aerosols of central and southeastern Europe: mass size distribution and solubility in simulated lung fluids

Mark M. Scerri, Konrad Kandler, Stephan Weinbruch
Extricating the contribution of natural components to PM10 concentrations at a rural background station in the central Mediterranean

Laura Trabalón, Laura Vallecillos, Alba Maceira, Rosa Maria Marcé, Francesc Borrull
Evaluation of sampling strategies to determine 1,3-butadiene in air
### Monday 19 June

**Persistent inorganic pollutants**

Location and time: Helga Engs hus, Auditorium 3, 11:00 - 13:00  
Chair: Balazs Berlinger (National Institute of Occupational Health, Norway) & Sirpa Herve (Finnish Environment Institute, Finland)

### Oral presentations:

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<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>11:00</td>
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<td>Georg Radermacher, Heinz Rüdel, Peter Lepom, Anja Duffek</td>
<td>Mercury burden of German freshwater fish depending on age, size and trophic level</td>
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<td>11:15</td>
<td>230</td>
<td>Peter Lepom, Jörg Wellmitz</td>
<td>Mercury Monitoring in Fish under the Water Framework Directive - A German Perspective</td>
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<td>11:30</td>
<td>303</td>
<td>Gemma Elias, Marta Turull, Sergi Díez, Claudia Fontas</td>
<td>Can polymer inclusion membranes be used as an integral tool to facilitate environmental analysis? The case of mercury</td>
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<td>11:45</td>
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<td>Manel Domínguez, Lorenzo Massimi, Verónica Verdugo, Cristina Palet</td>
<td>Bio(Adsorption) Capacity of Cork for Antimony in Wastewaters</td>
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<td>12:00</td>
<td>328</td>
<td>Inger Marie B. Tyssebotn, Andreas Fittschen, Ursula E. A. Fittchen</td>
<td>Development of a novel CE-XRF system for the determination of elemental contaminants and their speciation in complex water systems</td>
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<td>12:15</td>
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<td>Martyna Saba, Jerzy Falandysz</td>
<td>Mercury in a forest soil cores and tiny mushrooms from the regions in southwestern China</td>
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<td>12:30</td>
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<td>Lea Piscitelli, Pierre-Andrien Rivier, Donato Mondelli, Teodoro Miano, Dianiel Rasse, Erik Joner</td>
<td>Use of Biochar in filtration substrates mixtures for soil and water conservation</td>
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<td>12:45</td>
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<td>Ida Vaa Johnsen, Espen Mariussen</td>
<td>The intake of copper and lead by sheep grazing on a contaminated shooting range</td>
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Persistent inorganic pollutants

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Abstract ID:

Susanne Birkeland, Marie Vollset, Sigrun Henjum, Elin Gjengedal  
Arsenic, bromine, and lead in breast milk and urine from Norwegian mothers – interactions which influence the levels

Iman Boukhobzoba, Zahra Saadatmand  
Vanadium speciation within seawater and soil samples in the UAE: Simple HPLC method

Cathrine Skaar Hoel, Amanda Poste, Tom Andersen, Katrine Borgå  
Seasonal patterns in mercury dynamics at the base of two contrasting boreal lake food webs

Christine Hutterer, Michael Schuster  
Selective trace enrichment of valuable metals from industrial wastewaters by polymer-assisted ultrafiltration

Maria G. Lagerström, Fredrik Lindgren, Albin Holmqvist, Mia Dahlström, Erik Ytreberg  
Release rates of Cu and Zn from antifouling paints using a novel XRF method

Elena Nebera, Svetlana Demidova, Nikita Bardyugov, Dmitry Makarov, Alexander Komarov  
Accumulation of toxic elements in tissues of reindeer in the Russian far North

Sachin Vilas Nehete, Brit Salbu, Alexie Konoplev, Hans Christsian Teien  
Asymmetric flow field-flow fractionation to determine trace metal-colloid associations in Inkyozaka and Suzuuchi pond

Juan Santos-Echeandia, Víctor M. León, Victoria Besada, Fernando Schultze, María López-Rodriguez  
Heavy metals in the sediments of two Spanish coastal systems and their transfer to the food chain

Svetlana Pakhomova, Alice Newton, Evgeny Yakushev  
Modelling of biogeochemical cycles of mercury and nickel in the sea water and upper sediment layer

Verónica Verdugo, Cristina Palet, Manuel Valiente  
TiO2 Modified Biomass and its Application in Removal of Pb2+, Cd2+, Cu2+ and Cr3+/Cr6+ from Aqueous Solution

Dayana Sosa, Isabel Hilber, Roberto Faure, Thomas D. Bucheli, Arturo Escobar, Diane Buerge-Weirich  
Assessment of heavy metals in soils of Mayabeque, Cuba

Verónica Verdugo, Cristina Palet, Manuel Valiente  
Efficient Sb(III)/Sb(V) Adsorption by SPION Supported on Metalzorb® Sponge®

Sebastian Böttger, Dominique Rosenberg, Maike Busker, Walter Jansen, Ursula Fittschen  
Determination of gas phase mercury using silver-nanoparticle assisted TXRF
### Monday 19 June

**Bioactive substances and biotoxins**

Location and time: Helga Engs hus, U35, 11:00 - 12:45  
Chair: George Cobb (Bayor University, TX, USA) & Dion Dionysiou (University of Cincinnati, IL, USA)

**Oral presentations:**

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| 11:00  | 49          | Korina Manolidi, Christophoros Cristophoridis, Triantafyllos Kaloudis, Theodoros M. Triantis, Anastasia Hiskia  
**Neurotoxin BMAA And Its Isomeric Amino Acids In Cyanobacteria And Spirulina Food Supplements** |
| 11:15  | 68          | Ulla E. Bollmann, Greta Minelgaite, Michael Schlüsener, Thomas A. Ternes, Jes Vollertsen, Kai Bester  
**Biocide leaching from building material: Semi-field emissions influenced by driving-rain and photodegradation** |
| 11:30  | 283         | Elisabeth Faasen, Miquel Lürling  
**Current understanding and challenges on the presence and analysis of the neurotoxin BMAA** |
| 11:45  | 336         | Dieter Vollert, Matthias Gassman, Klaus Kümmerer, Oliver Olsson  
**Simulation of the enviromental fate of the fungicide Penconazole and its transformation products in a vineyard-terraces catchment** |
| 12:00  | 369         | Jan Ludvig Lyche, Paul Mbuthia, Gunnar Eriksen, James Gathumbi, Evalyn Mwihia  
**Prevalence, knowledge, attitudes and practices associated with aflatoxin contamination of fish feeds in Nyeri, Kenya** |
| 12:15  | 379         | Meriç Albay, Latife Köker, Cenk Gürevin, Reyhan Akçaalan Albay, Department of Inland Waters, İstanbul University, Turkey  
**An integrated modelling approach to study the impacts of nutrients on coastal aquatic ecosystems in the context of climate change** |
**An integrated modelling approach to study the impacts of nutrients on coastal aquatic ecosystems in the context of climate change** |
Bioactive substances and biotoxins

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Ulla E. Bollmann, David Fernández-Calvino, Kristian K. Brandt, Morten S. Storgaard, Hans Sanderson, Kai Bester
**Biocide leaching from building facades: Pseudo-persistence in soil due to reoccurring emissions**

Vladimir Nikiforov, Ekaterina Chernova, Iana Russkikh, Ekaterina Voyakina, Elena Ezhova, Evgeniiia Lange, Zoya Zhakovskaya
**Cyanotoxins in the Baltic Sea: a difference between the Gulf of Finland and Curonian and Vistula lagoons**

Michal M. Urbanczyk, Ulla E. Bollmann, Nicole Borho, Ute Schoknecht, Kai Bester
**Influences of pigments on photodegradation rates of biocides in paints**
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<th>Time</th>
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<tr>
<td>13:45</td>
<td>Andrea Brunelli, Elena Badetti, Gianpietro Basei, Antonio Marcomini</td>
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<td>Colloidal stability assessment of pristine and functionalized TiO2 nanoparticles. A combination of analytical techniques and principal component analysis</td>
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<td>14:00</td>
<td>Maya Engel, Benny Chefetz</td>
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<td>Interactions of carbon nanotubes with dissolved organic matter and organic pollutants</td>
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<td>14:15</td>
<td>Patrick S. Bäuerlein, Erik Emkea, Peter Tromp, Jan A.M.H Hoffman, Andrea Carboni, Ferry Schooneman, Pim de Voogt, Annemarie P. van Wezel</td>
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<tr>
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<td>Can nanoparticles be found in the environment?</td>
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<td>14:30</td>
<td>Christian Gagnon, Patrice Turcotte, Martin Pilote, Francois Gagné, Shirley Anne Smyth</td>
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<td>Fate of silver nanoparticles in surface waters</td>
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<td>14:45</td>
<td>Lúcia H.M.L.M. Santos, Anna Freixa, Vicenc Acuna, Josep Sanchís, Sara Rodríguez-Mozaz, Marinella, Farré, Sergi Sabater, Damiá Barceló</td>
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<td>Bioaccumulation and biotransformation of organic contaminants in biofilm: how could these be affected by the presence of nanoparticles?</td>
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<td>15:00</td>
<td>Claire Coutris, Antoine Minet, Pawel Lycus, Filip Hrncirik, Åsa Frostegård</td>
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<td>Can wastewater-borne engineered nanomaterials pose a threat to the microorganisms involed in wastewater treatment?</td>
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Nanomaterials

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Elena Semenzin, Elena Badetti, Alessandro bonetto, Andrea Brunelli, Elisa Giubilato, Marco Picone, Annamaria Volpi Ghirardini, Antonio Marcomini
**Supporting the development of sustainable nano-based formulations for the restoration of modern and contemporary works of art**

Esin G. Canli, Mustafa Canli
**Effects of copper oxide nanoparticles on some blood parameters in female Wistar rats**

Burkhard Knopf, Boris Meisterjahn, Nicola Schroeder, Heinz Ruedel, Jan Koschorreck
**Development of a method for the analysis of nanoparticles in homogenized biota tissue from the German Environmental Specimen Bank**

Sungsoo Na, Chancho Park, Hyunjoon Park
**Development of DAN based Sensor for Nanotoxic Materials**

D. Saravanan G. Satheesh Kumar, V. Kandavelu
**Dye degradation by using photocatalytic nano particles**
# Monday 19 June

**Challenges in Environmental Chemistry**

Location and time: Helga Engs hus, Auditorium 3, 13:45 - 15:15

Chair: Silvia Lacorte (Institute of Environmental Assessment and Water Research, Spain) & Rosa María Marcé (University Rovira i Virgili, Tarragona, Spain)

## Oral presentations:

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<tr>
<td>14:30</td>
<td>119</td>
<td>Anticoagulant Rodenticides in fish: Spatial and Temporal Distribution in German Freshwater Aquatic Systems</td>
<td>Mathias Katthoff, Heinz Rüdel, Mark Bücking, Anton Friesen, Jan Koschorrek</td>
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<td>14:45</td>
<td>376</td>
<td>Differential scanning calorimetry coupled with FT-IR. A sensitive method for measuring microplastics in sewage sludge, biogas digestate, food waste compost, and road dust?</td>
<td>Monica Fongen, Andreas Treu, Claire Coutris, Erik J. Joner</td>
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<tr>
<td>15:00</td>
<td>129</td>
<td>Disk-based solid phase extraction of large volume samples for the determination of estrogens and diclofenac listed in the WFD Watch list</td>
<td>Marjeta Cesen, Ester Heath</td>
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</table>
Challenges in Environmental Chemistry

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Marjeta Cesen, Maria Laimou-Geraniou, Tina Kosjek, Urska Blaznik, Dimitra Lambropolou, Ester Heath, David Heath
Migration of Bisphenol Compounds from Honey Packaging

Henrik Kylin, Hindrik Bouwman
Pentachloroanisole is not a functional proxy for pentachlorophenol in the environment

Abha Parajulee, Ying Duan Lei, Ajitha Kananthalingam, David S. McLagan, Carl P. J. Mitchell, Frank Wania
The transport of polycyclic aromatic hydrocarbons during rainfall and snowmelt in contrasting landscapes

Detlef Schenke, Gabriela Bischoff, Alexandra Esther
Analysis of pesticides in road-killed amphibians

Emma Schymanski, Martin Krauss, Casmi Cat. 2/3 Participants, Steffen Neumann
(Semi)-Automated Small Molecule Identification in Non-target Environmental Analysis: State-of-the-art from the CASMI 2016 Contest
Monday 19 June

Regulation of Chemicals

Location and time: Helga Engs hus, U35, 14:00 - 15:15
Chair: Ramon Guards (Scientific Advisor to the National Reference Centre on Persistent Organic Pollutants, Spain) & Rolf Vogt (University of Oslo, Norway)

Oral presentations:

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<tr>
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<td><strong>Ramon Guardans</strong>&lt;br&gt;POPs in the past and in the future. A few notes on the Effectiveness Evaluation of the Stockholm Convention in 2017.</td>
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<td>14:15</td>
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<td><strong>Hans Peter H. Arp</strong>, Trevor N. Brown, Sarah E. Hale&lt;br&gt;Ranking REACH registered neutral, ionizable and ionic organic chemicals based on their aquatic persistency and mobility</td>
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<td><strong>Philippa Cureton</strong>, Doug Spry, Sean Backus, Christine Garron, Robert Letcher, Pamela Martin, Daryl McGoldrick, Darcy Longpré&lt;br&gt;Development of Canadian Environmental Quality Guidelines for Perfluorooctane Sulfonate to Protect Environmental and Human Health</td>
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<td><strong>Michael Neumann</strong>, Daniel Sättler, Lena Vierke, Ivo Schliebner&lt;br&gt;A proposal for criteria and an assessment procedure to identify Persistent, Mobile and Toxic (PM or PMT) substances registered under REACH</td>
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<td><strong>Heinz Ruedel</strong>, Annette Fliedner, Nina Lohmann, Georgia Buchmeier, Jan Koschorreck&lt;br&gt;Biota monitoring under the Water Framework Directive: Influence of fish species and tissue choice on levels of priority substances</td>
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Regulation of Chemicals

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

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<td>The European Water Framework Directive does not set standards for surface water used as source for drinking water</td>
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<td>Adele Bressy, Catherine Carré, José-Frédéric Deroubaix, Bernard de Gouvello, Mathilde Soyer, Régis Moilleron</td>
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<td>Domestic micropollutants, a diffuse industrial pollution - Part 2: Source reduction by changing personal consumption practices</td>
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<td>Steven Droge, Joris Haftka, Joop Hermens</td>
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<td>A tiered approach to assess bioaccumulation of surfactants</td>
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<td>Huan Liu, Hanyang Man, Fanyuan Deng, Yue Wang, Hongyang Cui, Xiaofan Yang, Qiang Zhang, Kebin He</td>
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<td>An updated emission inventory of vehicular VOCs/IVOCs in China</td>
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<td>Experimental and conceptual approaches for testing the transformation of volatile chemicals on the basis of standard test guidelines</td>
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<td>Using REACH registration data for the identification of persistent, mobile and toxic (PMT) substances</td>
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<td>Christiane Zarfl, Jürgen Berlekamp, Klement Tockner</td>
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<td>Another perspective on the water-energy nexus: Is hydropower development spatially related to mining activities?</td>
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Plenary session:

*Location: Georg Sverdrups hus, Auditorium 1*

**Time:**

09:00  Introduction and Administrative notes

09:15  **Plenary Lecture:**
Lars-Otto Reiersen (Arctic Monitoring and Assessment Programme - AMAP, Secretary General, Oslo)
Arctic Pollution Issues

10:30 - 12:30  Thematic Sessions - see detailed schedule

13:30 - 16:00  Thematic Sessions - see detailed schedule

16:45 - 18:45  Thematic Sessions - see detailed schedule

18:30  **Associated events:**
Panel Discussion: Microplastics - what is the problem?
*Location: The Science Library in Vilhelm Bernes' hus*
**Tuesday 20 June**

**Soil and Sediments**

Location and time: Helga Engs hus, Auditorium 1, 10:30 - 12:30  
Chair: Thomas Bücheli (Aroscope, CH) & Daniel Wächter (Swiss Soil Monitoring Network-NABO)

### Oral presentations:

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| 10:30 | 439         | **Wolfgang Wilcke**  
Polycyclic aromatic compounds (PAHs, OPAHs, azaarenes) in soil: Occurrence – Transformations – Availability (Keynote) |
| 11:00 | 41          | **Martyna Saba, Jerzy Falandysz**  
Mercury in a forest soil cores and tiny mushrooms from the regions in southwestern China |
| 11:15 | 331         | **Ivan Dragicevic, Susanne Eich-Greatorex, Trine A. Sogn, Roar Linjordet, Tore Krogstad**  
Mobility and release of heavy metals after biogas digestate application to three different soils |
| 11:30 | 199         | **Juan C. Durán-Álvarez, Blanca Prado**  
On the environmental fate of two endocrine disrupting chemicals in agricultural soils using wastewater for irrigation |
| 11:45 | 366         | **Pierre-Adrien Rivier, Claire Coutris, Ivo Havranek, Erik Joner**  
Degradation of Triclosan and Galaxolide in soil is unaffected by rhizosphere processes, but roots drastically reduce bioaccumulation in earthworms |
| 12:00 | 127         | **Dieter Hennecke, Angela Bauer, Erik Wischerhoff, Friedhelm Gores**  
How to investigate the fate of synthetic polymeric flocculants in a complex agricultural matrix – results of an experimental simulation study |
| 12:15 | 102         | **Lin Xu, Liqin Zhi, Yaqi Cai**  
Distribution, migration and elimination of methylsiloxanes in soil from an electronic waste (e-waste) dismantling area in China |
**Tuesday 20 June**  
**Soil and Sediments**

Location and time: Helga Engs hus, Auditorium 1, 13:30 - 16:00  
Chair: Thomas Bücheli (Aroscope, CH) & Daniel Wächter (Swiss Soil Monitoring Network-NABO)

### Oral presentations: (I):

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<td>Long-term trends of HCH and PCB in soils in India and air-soil exchange of POPs under the influence of the monsoon</td>
<td>Gerhard Lammel, Céline Degrendele, Sachin S. Gunthe, Qing Mu, Akila Muthalagu, Ondrej Audy, C. V. Biju, Petr Kukucka, Marielle D. Mulder, Mega Octaviani, Petra Pribylová, Pourya Shahpouri, Irene Stemmler, Aswathy E. Valsan</td>
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<td>Antibiotic resistance genes as environmental pollutants in agricultural soil</td>
<td>Markus Wögerbauer, Josef Zeinzinger, Richard Alexander Gottsberger, Kathrin Pascher, Peter Hufnagl, Alexander Indra, Reinhard Fuchs, Johannes Hofrichter, Ian Kopacka, Irina Karschineck, Corina Schleicher, Michael Schwarz, Johann Steinwider, Burkhard PSringer, Franz Allerberger, Kaare M. Nielsen, Klemes Fuchs</td>
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<td>Use of Biochar in filtration substrates mixtures for soil and water conservation</td>
<td>Lea Piscitelli, Pierre-Andrien Rivier, Donato Mondelli, Teodoro Miano, Daniel Rasse, Erik Joner</td>
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<td>In-situ remediation of PAH and NSO-PAH contaminated soils – effect of compost and biochar on contaminant degradation</td>
<td>Gabriel Sigmund, Caroline Poyntner, Guadalupe Pinar, Melanie Kah, Thilo Hofmann</td>
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<td>Is bioremediation of PAH-contaminated soils worth it? Implications for human health and cancer risk</td>
<td>Cloé L. Davie-Martin, Kelly G. Stratton, Justin G. Teeguarden, Katrine M. Waters, Staci L. Massey Simonich</td>
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<td>15:00</td>
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<td>Long-term accumulation of metals and persistent pollutants (PAHs, PCBs, organochlorine pesticides) from Eure river watershed (France) in sediments: possible consequences of a dam removal.</td>
<td>Thomas Gardes, Yan Laberdesque, Edouard Pateau, Maxime Debret, Yoann Copard, Julien Deloffre, Stéphane Marcotte, Anne-Lise Develle, Pierre Sabatier, Eric Chaumillon, Florence Portet-Koltao</td>
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<td>15:15</td>
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<td>Pharmaceuticals in the Thames Estuary sediments</td>
<td>Raquel A. Lopes dos Santos, Christopher H. Vane</td>
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Soil and Sediments

Location and time: Helga Engs hus, Auditorium1, 13:30 - 16:00
Chair: Thomas Bücheli (Aroscope, CH) & Daniel Wächter (Swiss Soil Monitoring Network-NABO)

Oral presentations: (II):

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<td>438</td>
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<td>Metal concentrations and changes in concentrations during the past 150 years in Norwegian marine sediments – results from the MAREANO marine mapping program</td>
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<td>Chris D. Collins, Mark Craggs, Sonia Garcia-Alcega, Katerina Kademoglou, Stephen Lowe</td>
<td>Towards a unified approach for the determination of the bioaccessibility of organic pollutants</td>
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Soil and Sediments

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters (I):

Abstract ID:

Christina Apel, Jianhui Tang, Ralf Ebinghaus
**Occurrence and distribution of organic UV stabilizers in sediments of the Bohai and Yellow Seas**

Divna Nikolic, Christian Bogdal, Konrad Hungerbühler
**Evaluation of approaches for derivation of threshold values for PAHs in soils based toxicological threshold values in food**

Laura Ferrando-Climent, Jan Beneda, Tor Bjørnstad, Jiri Mikes, Jiri Muller, Vojtech Pilny, Pavel Spacek, Liv Stavsetra
**Application of petroleum green-technology for the characterization of chloroethylenes in soil samples from Czech Republic: Tracer pre-qualification**

Celine Guillemain, Amandine Daval, Cecile Miege, Christelle Margoum
**Optimization of QuEChERS method for the determination of organic micropollutants in complex environmental matrices: applications for agricultural and urban contaminants in leaf litter or sediments**

Chamteut Oh, Sangwoo Ji, Giljae Yimi, Youngwook Cheong
**Applicability of electrochemical reaction, for waste water treatment, powered by temperature difference energy**

Silvia Lacorte, Esmeralda Morillo, Fernando Madrid, Rubèn Ballesteros, Jaime Villaverde
**Effects of cyclodextrins and rhamnolipids on the extraction of PAHs and metals from an aged creosote polluted soil**

Larisa O. Metelkova, Zoya A. Zhakovskaya, Galina I. Kuchareva, Alexander E. Rybalko, Vladimir A. Nikiforov
**Occurence of PCDD/PCDFs and dioxin-like PCBs in sediments from the Neva river and the Eastern Gulf of Finland**

S.Popoola, D. Purchase, H. Jones
**Enhanced vermiremidation of hydrocarbon contaminated lands with biosurfactant: an ecotoxicological approach**

Jana Pulkrabova, Andrea Svarcova, Tomas Gramblicka, Darina Lankova, Jirina Szakova, Jindrich Cerny, Jana Hajsova
**Assessment of the impact of the different fertilization on the soil contamination by organic pollutants**

Dayana Sosa, Isabel Hilber, Roberto Faure, Nora Bartolomé, Osvaldo Fonseca, Armin Keller, Peter Schwa, Arturo Escobar, Thomas D. Bucheli
**Polycyclic aromatic hydrocarbons and polychlorinated biphenyls in soils of Mayabeque, Cuba**

Collins K. Tay, Charles A. Biney
**Levels and sources of polycyclic aromatic hydrocarbons (PAHs) in selected irrigated urban agricultural soils in Accra, Ghana**
Soil and Sediments

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters (II):

Daniel Wächter, Andreas Gubler, Peter Schwab, Reto G. Meuli, Thomas Bucheli, Armin Keller

Monitoring of plant protection products in agricultural soils: preliminary results of the Swiss Soil Monitoring Network NABO.
## Tuesday 20 June
### Sustainable Environmental Chemistry

**Location and time:** Helga Engs hus, Auditorium 2, 10:30 - 12:15  
Chair: Klaus Kümmerer (Leuphana University, Germany) & Santiago Luis (University Jaume I, Spain)

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<td>Atom Economy, Biodegradation, Catalysis and Green Toxicology: Tools for the Delivery of Green Chemistry based on Ionic Liquids (Keynote)</td>
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<td>The concept of sustainable chemistry: key drivers for the transition towards sustainable development</td>
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<td>Esmeralda Neri, Fabrizio Passarini, Ivano Vassura, Loris Giorgini, Giorgio Zattini, Cristian Tosi</td>
<td>Life Cycle Assessment methodology (LCA) applied to the case study of a pyrolysis process applied to end-of-life tires</td>
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<td>Trine Eggen, Ove Bergersen, Roar Linjordet</td>
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<td>Belén Altava, Maria Isabel Burguete, Eduardo García-Verdugo, Edgar Peris, Raul Porcar, Santiago V. Luis</td>
<td>Multicatalytic processes based on Supported Ionic Liquid-Like Phases (SILLPs)</td>
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Posters:

Kyungjin Bae, Dongan Cha, Ohkyung Kwon  
**Abstract ID:** 263  
Performance characteristics of ecofriendly adsorption chiller using FAM Z01 zeolite-water

P. Calza, M. Sarro, E. Laurenti, M. C. Paganinin, P. Mallon  
**Abstract ID:** 201  
Assessment of photocatalytic transformation of pyridinium-based ionic liquids in water

Paola Calza, Debora Fabbri, Giorgio Noè, Claudio Medana, Valentina Santoro  
**Abstract ID:** 205  
Assessment of photocatalytic transformation of pyridinium-based ionic liquids in water

Xavier Méndez, Esteve Font, Almudena Hierro, Montse Resina, Cristina Palet, Jordi Gardia-Orellana  
**Abstract ID:** 449  
Extraction and revalorization of REE from waste sludge from dicalcium phosphate industry

Nguyen Tien Giang, Bonwook Koo, Jeasung Park, In Park  
**Abstract ID:** 121  
MgSO4 impregnated into a ferroaluminophosphate (FAPO4-5) with improved thermal energy storage capacity under 150 oC

Mirco Volanti, Daniele Cespi, Esmeralda Neri, Fabrizio Cavani Luciano Morselli, Fabrizio Passarini  
**Abstract ID:** 176  
LCA methodology: a case study of the industrial production of terephthalic acid from renewable sources

Miroslav M. Vrvic, Vladimir P. Beskoski, Mila Ilić, Jelena Milic, Srdjan Miletić, Jelena Avdalović, Gordana Gojgic-Cvijovic  
**Abstract ID:** 64  
Microorganisms from bioremediation to electronic waste: some of our examples
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<td>Michael Hüben, Marion Woermann, Dieter Hennecke, Bernd Sures</td>
<td>Experimental determination of a foliar wash-off coefficient – development of a laboratory procedure</td>
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<td>Development of an extraction and clean-up method for suspect and non-target screening of emerging organic pollutants in biota using liquid chromatography coupled to high resolution mass spectrometry</td>
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<td>Reza Aalizadeh, Emma L. Schymanski, Juliane Hollender, Martin Krauss, Maria Ibánez, Nikolaos S. Thomaidis</td>
<td>Development and Prediction of Liquid Chromatographic Retention Time Indices (RTI) to facilitate non-target identification</td>
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<td>Mira Celić, Merixell Gros, Marinella Farre, Damia Barceló, Mira Petrovic</td>
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<td>Jordan Stubleski, Petr Kukucka, Samira Salihovic, Anna Kärrman</td>
<td>A new method for fast and efficient analysis of POPs in low volume samples of plasma and serum</td>
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<td>Eliezer Brown Mwakalapa, Aviti John Mmochi, Mette Helen Bjørge Müller, Robinson Hemmerthom Mdegela, Jan Ludvig Lyche, Anuschka Polder</td>
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<td>Application of target, suspect and non-target screening approach for a comprehensive characterisation of micropollutants in environmental samples from the Nordic countries</td>
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### Tuesday 20 June

**University Education in Environmental Chemistry**

Location and time: Helga Engs hus, U35, 10:30 - 12:30  
Chair: Gerhard Lammel (Max Planck Institute for Chemistry, Germany) & Ivana Ivancev Tumbas  
(University of Novi Sad, Serbia)

#### Oral presentations:

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| 10:30  | Milan D. Antonijević, Branimir Jovancicevic, Tatjana Andelković, Zoran Matović, Ivan Grzetich, **Ivana Ivancev-Tumbas**, Darko Andelkovic, Steve Leharne  
**University education in Environmental Chemistry in Serbia - lessons learned from Tempus MCHEM and Erasmus+ NETCHEM project** | 105         |
| 10:45  | Gerhard Lammel, Ivana Ivancev-Tumbas  
**Chemistry in Environmental Sciences Related Higher Education (BSc and MSc) Programmes in Europe** | 120         |
| 11:00  | Belen Altava, Maria Isabel Burguete, Eduardo García-Verdugo, Santiago V. Luis  
**Education in Sustainable Chemistry in Spain: The activities of the Spanish Network in Sustainable Chemistry** | 210         |
| 11:15  | Antonio Marcomini, F. Passarini  
**The contribution of Italy to the higher education in environmental chemistry** | 443         |
| 11:30  | Rolf-Alexander Duering  
**From urgent need to a success story: the postgraduate study of ecotoxicology in Germany** | 374         |
| 11:45  | Eldbjørg Sofie Heimstad, Gaute Grønstøl, Karl Torstein Hetland, Javier Martinez Alarcon, Charlotta Rylander, Espen Mariussen  
**Schools taking part in a research project investigating dioxins in fish** | 403         |
| 12:00  | Åse Krokje  
**Master’s degree programme in Environmental Toxicology and Chemistry, NTNU** | 424         |
| 12:15  | Lindis Skipperud  
**Development of Education and Training within Radioecology in Europe** | 448         |
University Education in Environmental Chemistry

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

Lindis Skipperud
European MSc Programme in radioecology

Roland Kallenborn, Arne Aalberg, Harald Ellingsen
Research associated teaching concepts for interdisciplinary education in Arctic environmental Sciences facing future challenges in circum-Arctic environmental regulation

Abstract ID:

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Tuesday 20 June

Mass spectrometry in food and environmental research

Location and time: Helga Engs hus, Auditorium 2, 13:30 - 15:45
Chair: Adrian Covacy (University of Antwerp, Belgium), Ester Heath (Institute Jozef Stefan, Slovenia) & Michaela Dina Stanescu (Polytechnic University of Bucharest, Romania)

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<td>Dimitra Lambropoulou</td>
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<td>Application of gas chromatography atmospheric pressure chemical ionization mass spectrometry for analysis of contaminants in environmental samples</td>
<td>Petr Kukucka, Ondrej Audy, Dawai Geng, jordan Stubleski, Ingrid Ericson Jogsten, Jana Klánová</td>
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<td>Chemical Characterization of Biogas from Varied Organic Feedstocks: Air Quality Implications</td>
<td>Yin Li, Christopher Alaimo, Philip L. Wylie, Michael J. Kleeman, Thomas M. Young</td>
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<td>A deconvolution and library search algorithm for comprehensive non-target analysis using LC-HR-MS data-independent acquisition</td>
<td>Saer Samanipour, Malcolm J. Reid, Kevin V. Thomas</td>
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<td>15:00</td>
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<td>Application of chemostat systems for adaptation of microbial communities in persistency testing</td>
<td>Baptiste A. J. Poursat, Martin Braster, Rick Helmus, Wilfred, F. M. Röling, Rob J. M. van Spanning, Pim de Voogt, John R. Parsons</td>
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<td>Improving data quality for arsenic and selenium detection using TQ-ICP-MS in environmental laboratories</td>
<td>Elin-Melinda Visur, Daniel Kutscher, Shona mcSheehy Ducos</td>
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<td>Comparison of mass spectrometric platforms for the analysis of cytostatic drugs in water</td>
<td>Silvia Lacorte, Cristian Gómez-Canela, Helena Franquet-Griell, Josep Caixach, Franscs Ventura</td>
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<td>Disk-based solid phase extraction of large volume samples for the determination of estrogens and diclofenac listed in the WFD Watch list</td>
<td>Marieta Cesen, Ester Heath</td>
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Tuesday 20 June

Mass spectrometry in food and environmental research

Location and time: Helga Engs hus, Auditorium 2, 16:45 - 18:45
Chair: Adrian Covacy (University of Antwerp, Belgium), Ester Heath (Institute Jozef Stefan, Slovenia) & Michaela Dina Stanescu (Polytechnic University of Bucharest, Romania)

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<td>Aurea C. Chiaia-Hernández, Barbara F. Günthardt, Martin P. Frey, Juliane Hollender</td>
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Mass spectrometry in food and environmental research

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<td>Genotoxicity of different low dose rates of gamma radiation in three strains of mice</td>
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Location and time: Helga Engs hus, U35, 16:45 - 18:45
Chair: Brit Salbu (Norwegian University of Life Sciences, Norway) & Valery Kashparov (Ukrainian Institute of Agricultural Radiology, Ukraine)

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| 17:30 | 340         | You Song, Jana Asselman, Karel A. C. de Schamphelaere, Brit Salbu, Knut Erik Tollefsen  
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| 17:45 | 346         | Hans-Christian Teien  
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Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

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### Arctic Pollution

**Location and time:** Helga Engs hus, U35, 13:30 - 16:00  
**Chair:** Lars-Otto Reiersen (Arctic Monitoring and Assessment Programme, Oslo, Norway) & Katrine Borgå (University of Oslo, Norway)

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<td>Ingrid Krogseth, Emma Undeman, Anita Evensen, Guttorm N. Christensen, Mick J. Whelan, Knut Breivik, Nicholas A. Warner</td>
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<td>Environmental fate of organophosphate flame retardants and plasticizers in the marine and polar environment</td>
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Adele Bressy, Bertille Bonnaud, Emilie Caupos, Remi Mazerolles, Sifax Zedek, Regis Moilleron
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Dorthea Gilbert, Naiara Berrojalbiz, Espen Eek, Amy M. P. Oen, Hans Peter H. Arp
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Celine Guillemain, Azziz Assoumani, Marina Coquery, Christelle Margoum
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Jana Meierdierks, Christiane Zarfl, Peter Grathwohl
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Alena Otoupalikova, Zdenek Simek, Branislav Vrana
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Jose Avelino Ratola, Marzieh Moenfaard, Sara Ramos, Eduardo Silva, Vera Homem, Lúcia Santos, Arminda Alves, Nuno Ratola
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Sigurd Øxnevad, Morten T. Schaanning, Anders Ruus
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Tuesday 20 June
Humic Substances in the Environment

Location and time: Helga Engs hus, Auditorium 3, 16:45 - 18:45
Chair: Gudrun Abbt-Braun (Karlsruhe Institute of Technology, Germany); Rolf Vogt (University of Oslo, Norway), & Yannis Deligiannakis (University of Ioannina, Greece)

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<td><strong>Use of mediated electrochemical analysis and high-field FTICR mass spectrometry to explain humic acid fractionation upon sorption to redox inert sorbents</strong></td>
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<td>G. Varrault, C. Soares-Pereira, A. Bressy</td>
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<td><strong>Effect of effluent dissolved organic matter on trace metals sorption by mineral particles in aquatic systems under strong urban pressure</strong></td>
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Location: Georg Sverdrups hus, Auditorium 1

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       Rupert Simon (European Chemicals Agency, Helsinki, Finland):
       Reach(ing) Sustainable development
10:30 - 12:45  Thematic Sessions - see detailed schedule
13:30 - 16:00  Thematic Sessions - see detailed schedule
16:30 - 17:30  Thematic Sessions - see detailed schedule
**Wednesday 21 June**

**Poly- and Perfluoroalkylated Substances**

Location and time: Helga Engs hus, Auditorium 1, 10:30 - 12:45  
Chair: Jon Benskin (University of Stockholm, Sweden) & Christopher P. Higgins (Colorado School of Mines, CO, USA)

### Oral presentations:

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<tr>
<td>10:30</td>
<td>426</td>
<td>Anna Kärrman, Thanh Wang, Leo W.Y. Yeung</td>
<td>The need and application of non-target strategies for analysis of per- and polyfluoralkyl substances (PFASs) (Keynote)</td>
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<td>11:00</td>
<td>164</td>
<td>Roger A. Klein, Nigel Holmes</td>
<td>Fluorochemicals - What is the Fuss All About?</td>
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<td>11:15</td>
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<td>Alix Robel, Kristin Marshall, Margaret Dickinson, David Lunderberg, Craig Butt, Graham Peaslee, Heather M. Stapleton, Jennifer A Fielda</td>
<td>Scratching the Surface of PFASs: An attempt at closing the mass balance using four techniques in select Papers &amp; Textiles</td>
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<tr>
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<td>Sara Valsecchi, Micahela Mazzoni, Marianna Rusconi, Stefano Polesello, Thomas Ternes, Kevin Jewell, Bernhard Teiser, Jörg Drewes, Uwe Hübner, Johann Müller</td>
<td>Determination of precursors of perfluoroalkyl acids in surface and wastewaters: application to some case studies</td>
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<tr>
<td>11:45</td>
<td>402</td>
<td>Ulrika Eriksson, Anna Kärrman, Leo W.Y. Yeung</td>
<td>Per- and polyfluorinated alkyl substances (PFASs) and total organofluorine (TOF) in sludge and water from Swedish waste water treatment plants (WWTP)</td>
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<td>12:00</td>
<td>427</td>
<td>Åse Høisæter, Sarah Hale, Gøril Aasen Slinde, Paul Sverdrup Cappelen, Hans Peter Arp, Gijs D. Breedveld</td>
<td>Stabilization or mobilisation of PFAS at firefighting sites in Norway - feasibility for remediation</td>
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<td>12:15</td>
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<td>Nor Laili Azua Jamari, Jan Frederik Dohmann, Andrea Raab, Eva M. Krupp, Jörg Feldmann</td>
<td>Perfluorinated compounds detection using non-target analysis of RP-HPLC-ICPMS/MS</td>
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<td>12:30</td>
<td>73</td>
<td>Yuan Wang, Yali Shi, Robin Vester gren, Zhen Zhou, Yong Liang, Yaqi Cai</td>
<td>Non-invasive human biomonitoring techniques for long- and short-chain per- and polyfluoroalkyl substances</td>
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<td>12:45</td>
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<td>Lunch, Exhibition and Posters</td>
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**Wednesday 21 June**

**Poly- and Perfluoroalkylated Substances**

Location and time: Helga Engs hus, Auditorium 1, 13:30 - 16:00  
Chair: Jon Benskin (University of Stockholm, Sweden) & Christopher P. Higgins (Cororado School of Mines, CO, USA)

## Oral presentations:

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<td>13:30</td>
<td>325</td>
<td>Knowns and unknowns of fluoropolymer production as a source of per- and polyfluoroalkyl substances to the environment (Keynote)</td>
<td>Robin Vestergren, Yali Shi, Xiaowei Song, Yaqi Cai</td>
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<td>113</td>
<td>PFAS in urban terrestrial environments; the case study Oslo city</td>
<td>Dorte Herzke, Torgeir Nygårs, Elcbjørg Heimstad</td>
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<td>14:30</td>
<td>451</td>
<td>Concentrations and distribution of perfluoroalkyl and polyfluoroalkyl substances (PFASs) in multi-environmental matrices around two fluorochemical manufacturing parks in Fuxin, China</td>
<td>Hao Chen, Zhen Zhao, Yiming Yao, Hongwen Sun</td>
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<td>Evaluation of the removal efficiency of per- and polyfluoroalkyl substances in a full scale drinking water treatment plant</td>
<td>Vera Franke, Nadine Belkouteb, Philip McCleaf, Stephan J. Köhler, Lutz Ahrens</td>
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<td>Sorption of Poly- and Perfluoroalkyl substances (PFASs) relevant to Aqueous Film Forming Foam (AFFF)-impacted Groundwater by Biochars and Activated Carbon</td>
<td>Xin Xiao, Bridget A. Ulrich, Baoliang Chen, Christopher P. Higgins</td>
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<td>15:15</td>
<td>8</td>
<td>Why It Matters: Frequency, Occurrence, Transport, and Implications of the 40 Classes of Recently-Discovered Per- and Polyfluoroalkyl Substances in Aqueous Film-Forming Foam Impacted Groundwater</td>
<td>Krista A. Barzen-Hanson, Christopher P. Higgins, Jennifer A. Field</td>
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<td>15:45</td>
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<td>Are perfluoroalkyl acid isomer patterns useful markers of manufacturing origin in atmospheric samples?</td>
<td>Jana H. Johansson, Ian T. Cousins</td>
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## Wednesday 21 June

### Poly- and Perfluoroalkylated Substances

Location and time: Helga Engs hus, Auditorium 1, 16:30 - 17:30  
Chair: Jon Benskin (University of Stockholm, Sweden) & Christopher P. Higgins (Cororado School of Mines, CO, USA)

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<td>16:30</td>
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<td>Eleni Papadopoulou, Somrutai Poothong, Jacco Koekkoek, Luisa Lucattini, Juan Antonio Padilla-Sánchez, Margaretha Haugen, Dorte Herzke, Stig Valdersnes, Amund Maage, Ian T. Cousins, Pim Eg Leonards, Line Småstuen Haug</td>
<td>Estimating human exposure to perfluoroalkyl acids via solid food and drinks: implementation and comparison of different dietary assessment methods</td>
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<td>Vladimir Nikiforov</td>
<td>Environmental stability of new PFAS through MS-fragmentation and quantum chemistry methods – on the way to degradable PFAS</td>
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<td>Linda Hanssen, Dorte Herzke, Vladimir Nikiforov</td>
<td>Sulfobenzoic anhydride – new derivatizing reagent for high sensitivity LC-MS-MS analysis of Fluorotelomer alcohols</td>
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<td>17:15</td>
<td>112</td>
<td>Lena Vierke, Claudia Staude, Éva Fetter, Stephan Brendel, Annegret Biegel-Enler</td>
<td>Regulation needs support from research: Short-chain PFASs under REACH</td>
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Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

**Posters (I):**

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Peter Abrahamsson, Marcus Chadha, Lutz Ahrens  
Quantification of sub ppt levels of per- and polyfluoroalkyl substances in various waters utilizing advanced ultra-high performance liquid chromatography and triple quadrupole mass spectrometry  
270

Cristina Bach, Virginie Boiteux, Christophe Rosin, Jean-François Munoz, Xavier Dauchy  
What information can we learn from indirect measurements of PFASs  
90

Gijs D. Breedveld, Carl-Einar Amundsen, Tore Joranger, Are Vestli, Marianne Kvennås  
Risk assessment of PFAS run-off from military airfields.  
387

Malin Bergman, Måns Lindell, Carin Lundqvist, Ingrid Ericson Jogsten  
Glacial relicts as possible vectors of transport of Per- and polyfluoroalkyl substances (PFASs) at various trophic levels in the Arctic char food web in Lake Vättern  
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Ivan Dragicevic, Oskar Sandblom, Susanne Eich-Greatorex, Trine A. Sogn, Roland Kallenborn, Jonathan P. Benskin  
Per- and polyfluoroalkyl substances in soil, grain and leachate following field application of biogas digestates  
332

Florian Dubocq, Thanh Wang, Anna Kärrman  
Analysis of firefighting foams on the Swedish market using a non-target analysis approach  
158

Thomas Gramblicka, Miroslava Jerabkova, Darina Lankova, Andrea Svarcova, Jana Hajslova, Jana Pulkrobava  
Development of a multi-analytical method for the simultaneous determination of selected organophosphorus flame retardants (OPFRs) and perfluoroalkyl substances (PFASs) in indoor dust  
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Linda Hanssen, Dorte Herzke, Vladimir Nikiforov  
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Aline Koch, Anna Kärrman, Lutz Ahrens, Micael Jonsson, Leo W.Y. Yeung, Thanh Wang  
Homologue and precursor distribution of per- and polyfluorinated substances (PFASs) in contaminated streams in Sweden  
47

Jani Koponen, Hannu Kiviranta  
Simple and high throughput method for simultaneous determination of perfluoroalkyl acids, parabens and cotinine from a low volume human serum sample  
159

Alix Robel, Jennifer Fielda, Dorin Bogdanb, Bill Diguiseppic, Graham Peasleed  
Using Individual LC-MS/MS Analysis of Newly Discovered PFASs to Inform Sampling Storage and Stability  
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Robin Vesterbergren, Yali Shi, Zhen Zhou, Yong Liang, Jun Huang, Yaqi Cai  
Are perfluoroalkyl acid isomer profiles in human serum reliable exposure biomarkers?  
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Poly- and Perfluoroalkylated Substances

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*Accumulation and biotransformation of 8:2 polyfluoroalkyl phosphate diester in gilthead bream (Sparus aurata)*

Zhen Zhao, Zhiyong Xie, Chongguo Tian, Guangcai Zhong, Gan Zhang, Shaorui Wang, Qilu Li, Ralf Ebinghaus, Lijie Mi, Hongwen Sun, Jianhui Tang

*Distribution and transport of perfluoroalkyl and polyfluoroalkyl substances in the lower atmosphere and surface waters of the Chinese Bohai Sea, Yellow Sea, and Yangtze River Estuary*
Wednesday 21 June

Water Treatment

Location and time: Helga Engs hus, Auditorium 2, 10:30 - 12:30
Chair: Ioannis Katsogiannis (University of Thessaloniki, Greece) & Mathias Ernst (Technical University Hamburg-Harburg, Germany)

Oral presentations:

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<td>10:30</td>
<td>445</td>
<td>Irene Slavik, Wolfgang Uhl</td>
<td>Prediction of SOC breakthrough in Granular Activated Carbon Adsorption (Keynote)</td>
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<td>Removal of Cr(VI) by Fe(II) reductive precipitation from ground waters containing natural organic matter</td>
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<td>Stefanie Schulze, Urs Berger, Daniel Zahn, Thomas Knepper, Rosa Montes, José Benito Quintana, Thorsten Reemtsma</td>
<td>Persistent, mobile and largely unknown. The potential threat to our drinking water resources by persistent, mobile organic compounds</td>
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<td>11:30</td>
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<td>Annemieke Kolkman, Dennis Vughs, Kirsten Baken, Bram Martijn, Pim De Voogt</td>
<td>Application of direct analysis to identify mutagenic nitrogenous disinfection byproduct of advanced oxidation drinking water treatment</td>
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<td>Thomas Wagner, John R. Parsons, Alette Langenhoff, Huub Rijnaarts, Pim De Voogt</td>
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<td>Stefano Alberti, Valentina Caratto, Federico Locardi, Giorgio A. Costa, Michaela Sturini, Andrea Speltini, Federica Maraschi, Maurizio Ferretti</td>
<td>Removal of pollutants of emerging concern: optimization of the synthesis of NP-TiO2 supported on a persistent luminescence material for treatment of turbid wastewaters</td>
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Water Treatment

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

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Ahmed Abdelrady, Saroj Sharma, Amr Abogabal, Maria Kennedy

Matrix redox conditions and organic matter in the removal of organic micro-pollutants during bank filtration

V. Albergamo, J.E. Schollée, E.L. Schymanski, R. Helmus, J. Hollender, P. de Voogt

Detecting polar micropollutants in a drinking water source at a river-riverbank filtration site using non-target screening

Hans Peter H. Arp, Nicolas A. O. Morin, Sarah E. Hale, Åsgeir R. Almås, P. Andersson, G. Okkenhaug

Flame retardant presence and environmental mobility in Norwegian Waste and Waste-handling facilities

S.M. Avramescu, R.C. Fierascu, I. Fierascu, A. Olaru, C. Bradu, A. Nica

Application of β-cyclodextrin nanocomposites for the removal of organic pollutants from aqueous solution

Imane Berni, Ibrahim El Ghazi, Mohamed Ben-Daoud, Samir El Jaafari, Patrick Dugue

Distribution of groundwater nitrate contamination in GIS environment: a case study, Sais plain. Morocco

Kai Bester, Monica Escola Casas, Anders Johansen, Lars H. Hansen, Gordon Ooi, Henrik R. Andersen

Reactions and mass balances of micropollutants in biofilm reactors for wastewater treatment

Adele Bressy, Sifax Zedek, Remi Mazerolles, Emilie Caupos, Romain Mailler, Pascale Neveu, Vincent Rocher, Regis Moilleron

An overview of the parabens, triclosan and triclocarban contamination in the continuum greywater – surface water

P. Calza, M. Sarro, E. Laurenti, M.C. Paganini, P. Mallon

Semiconductor oxide and enzymes hybrid systems as high efficient catalysts for recalcitrant pollutants abatement

Nathalie Cottin, Philippe Fanget, Peter Gallinelli, Frédéric Gillet, Emmanuel Naffrechoux

Actual PCBs concentration in north Atlantic and Arctic air (NANUQ 2015-2016)

Christine Egli, Kristopher McNeill, Elisabeth M.-L-Janssen

Stability of extracellular enzyme in surface waters: Comprehensive structural and functional analysis by proteomics techniques and enzymology.

Erik Emke, Dennis Vughs, Annemieke Kolkman, Pim De Voogt

The forensic side of sewage based epidemiology: amphetamine synthesis waste and the impact on a small sewage treatment plant

Adrian Frank Herbort, Katrin Schuhen

Removal of Inert Organic Chemical Stressors (IOCS) from Wastewater by Adding Innovative Hybrid materials called Wasser 3.0 – StressFix²
Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

**Posters (II):**

**Abstract ID:**

Shiori Ikegawa, Satoki Shinozuka, Masami Shibata  
*Removal of nitrate ions in waste water at Pd-Fe alloy cathodes*  
275

Ivana Ivancev-Tumbas, Prodanovic Jelena, Vesna Vasic, Marina Sciban, Aleksandra Tubic, Minja Bogunovic, Anita Leovac Macerak  
*Combination of coagulation and adsorption for organic matter removal from wastewater*  
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*Combined impact of flow intermittency and urban chemical pollution on water quality in Mediterranean streams*  
52

*Spatial and seasonal distribution of 41 emerging contaminants in three estuaries of the Basque Country*  
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*Domestic micropollutants, a diffuse industrial pollution – Part 1: from greywater to receiving water*  
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Karsten Nödler, Marco Scheurer, Oliver Happel, Finnian Freeling, Frank Thomas Lange, Heinz-Jürgen Brauch  
*Trifluoroacetate in the water cycle – overlooked sources, pathways, and consequences for drinking water supply*  
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Chamteut Oh, Sangwoo Ji, Giljae Yim, Youngwook Cheong  
*Applicability of electrochemical reaction, for waste water treatment, powered by temperature difference energy*  
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Olayeni Victor Olutayo, Suma George Mulamattathil, Carlos Bezuindenhou, Moses Mbewe, Collins Njie Ateba  
*Current Evaluation on Isolation of Environmental Bacteria from Surface and Drinking Water in Ibadan, Nigeria, and Characterization Using Their Antibiotic Resistance Profiles*  
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*Metformin Transformation in an Artificial River System*  
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Adrià Rubirola, Maria Teresa Galceran, Maria Rosa Boleda  
*New multiresidue methods to evaluate the presence of 67 priority substances from water framework directive in wastewaters*  
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Marco Sarro Paola Calza, Vasilis Sakkas, Maria-José López-Munoz, Claudio Medana  
*Assessment of the photocatalytic transformation of sweeteners in different water matrices*  
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<td>Comparative analysis of organic pollutants from water samples of municipal wastewater treatment plants - What can mean the different techniques and procedures (LLE, SPE, SPME) for our interpretation about the loading rate?</td>
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<td>Stylianos Stylianou, Ioannis Katsoyiannis, Manasis Mitrakas, Anastasios Zouboulis</td>
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<td>Application of a ceramic membrane contacting system for the ozone-based treatment of organic micropollutants</td>
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<td>Jennifer Teerlink, Christopher Alaimo, Thomas M. Young</td>
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<td>Broad-scope screening for organic micropollutants in wastewater to identify pesticide sources</td>
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<td>Maria Eugenia Valdés, Carolina Rodríguez-Castro, Adonis Giorgi, Damià Barceló, María Valeria Amé, Sara Rodríguez-Mozaz</td>
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<td>Organic micropollutants as markers of urban sources of pollution in the Suquia river (Argentina, South America)</td>
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<td>F.J. Yuste-Cordaba, A.I. Parralejo-Alcobendasm L. Royano-Barroso, J. González Cortés</td>
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<td>New bio-digestion process to obtain biogas and fertilizers from cork wastewater</td>
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<td>Lin Xu, Liqin Zhi, Yaqi Cai</td>
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<td>Occurrence and fate of fluorinated siloxanes in wastewater treatment processes</td>
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Wednesday 21 June

Chemicals of Emerging Concern

Location and time: Helga Engs hus, Auditorium 3, 10:30 - 12:45
Chair: Walter Giger (Giger Research, Switzerland) & Philippe Garrigues (University of Bordeaux, France)

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<td>Evyatar Ben Mordechay, Jorge Tarchitzky, Benny Chefetz</td>
<td>Effects of composted biosolids application and irrigation with treated wastewater on uptake and translocation of pharmaceuticals: Lettuce as case study</td>
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<td>Identification of biomarkers of exposure and effect in Mediterranean mussels (Mytilus galloprovincialis) following exposure to diclofenac</td>
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<td>Aasim M. Ali, Roland Kallenborn, Helene Thorsen Rønning, Wallied M. Alalarif, Sultan S. Al Lihaibi</td>
<td>Pharmaceuticals and personal care products in (PPCPs) in contaminated Red Sea seawater samples</td>
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<td>Abha Parajulee, Ying Duan Lei, Ajitha Kananathalingam, Carl P. J. Mitchell, Frank Wania</td>
<td>Investigating the varying sources and transport of benzotriazole UV stabilizers in contrasting landscapes</td>
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<td>Pollutants of emerging concern in Asian Megacities such as Karachi</td>
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<td>Fatima El-Athman, Anke Putschew, Lorenz Adrian, Martin Jekel</td>
<td>Abiotic reductive deiodination of contrast media and the influence of corrinoids</td>
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<td>Peter Haglund, Sofia Nieto, Vadim Kalmeyer, Nathan Eno</td>
<td>Raising the Identification Confidence in Non-Target Analysis of House Dust by Combining Classic and Soft Electron Ionization GC-HRMS</td>
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<td>Effects of new medicines on biodiversity: a review from a chemical perspective</td>
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<td>Reza Aalizaheh, Emma L. Schymanski, Juliane Hollender, Martin Krauss, Maria Ibáñez Martínez, Nikolaos S. Thomaidis</td>
<td>Development and Prediction of Liquid Chromatographic Retention Time Indices (RTI) to facilitate non-target identification</td>
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Chemicals of Emerging Concern

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

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Maritxell Gros, Mercè Boy-Roura, Elisabet Martí, Joan Colón, Itziar Lekunberri, José Luis Balcázar, Sergio Ponsá, Mira Petrović
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Xi-Zhi Niu, Julie Glady-Croué, Jean-Philippe Croué
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Wednesday 21 June
Humic Substances in the Environment

Location and time: Helga Engs hus, U35, 10:30 - 12:45
Chair: Gudrun Abbt-Braun (Karlsruhe Institute of Technology, Germany); Rolf Vogt (University of Oslo), Norway & Yannis Deligiannakis (University of Ioannina, Greece)

**Oral presentations:**

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<td>Michael Gonsior, Nancy Hinman, Norbert Hertkorn, William J. Cooper, Sabine Dvorski, Philippe Schmitt-Kopplin</td>
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<td>Linda Önnby, Nicholas Walpen, Elisabeth Salhi, Garret McKay, Fernando Rosario-Ortiz, Michael Sander, Urs Von Gunten</td>
<td><em>Assessing oxidant-reactive moieties of dissolved organic material from interactions with ozone or chlorine</em></td>
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<td>Babak Rajaeian, Anna Heitz, Cynthia A. Joll, Sébastien Allard</td>
<td><em>The Effect of Natural Organic Matter on Bromide Removal from Drinking Water Using Silver-impregnated Activated Carbon</em></td>
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<td>11:30</td>
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<td>Jan Benecke, Fabian Baur, Mortiz Haas, Mathias Ernst</td>
<td><em>Gypsum Scaling Behaviour and Characterization during Reverse Osmosis in the Presence of Natural Organic Matter</em></td>
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<td>Margarethe Langer, Anna Gröhlich, Sruthi Kalyanasundaram, Manasis Mitrakas, Anastasios Zoubouli, Ioannis Katsoyiannis, Mathias Ernst</td>
<td><em>Evaluating the Boundaries of Chromium Removal by Fe(II) reductive precipitation from Ground Waters in the presence of Natural Organic Matter</em></td>
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<td>12:00</td>
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<td><em>Choosing of barrier materials for humic reach groundwater treatment</em></td>
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<td>Angelica Biano, Mickaël Vaïtilingomi, Laurent Déguaume, Nadine Chaurmeliaic, Maxime Bridoux</td>
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<td>Beate Stahl, Sydney Jannetta, Nicollette Laroco, Dondra Biler, Amanda Scott, Katrin Schuhlen</td>
<td><em>Detection and Characterization of Organic Stressors in Wastewater by HPLC SEC with DOC Detection</em></td>
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Time: Abstract ID:

13:30 Frank Wania 20
50 Years of Modelling the Environmental Fate of PCBs (Keynote)

14:00 Thorsten Hüffer, Anne-Kathrin Weniger, Thilo Hofmann 33
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14:15 Paola Gramatica, Alessandro Sangion, Ester Papa 95
Potential environmental hazard of emerging pollutants: QSAR models in the new version of the QSARINS software.

14:30 Li Li, Jianxin Hu, Frank Wania 183
Investigating Variability in HBCDD Diastereomer Profile in the Environment

An integrated modelling approach to study the impacts of nutrients on coastal aquatic ecosystems in the context of climate change

15:00 Caroline Ek, Sara Danielsson, Elisabeth Nyberg, Anders Bignert 362
Consistency in TL normalised concentrations among monitoring species

15:15 Elizaveta Protosenko, Evgeniy Yakushev, Shamil Yakubov 377
Modeling a seasonal variability of biogeochemical components at the sediment-water boundary in Baltic Sea

15:30 Evgeniy Yakushev, Elizaveta Protosenko, Philip Wallhead 382
Modeling influence of a fishfarm at the water column and sediment biogeochemistry with a 2-Dimensional Benthic-Pelagic model

15:45 Mehdi Gharasoo, Martin Thullner, Martin Elsner 347
ReKnSim: A numerical platform for parameter estimation of kinetically complex environmentla system

16:00 Health Break, Exhibition and Posters
Environmental Modelling

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

Posters:

**Abstract ID:**

Knut Breivik, Matt Macleod, Frank Wania, Sabine Eckhardt

**Towards a nested multimedia fate, transport and bioaccumulation model for the Nordic region**

Knut Breivik, Matt Macleod, Frank Wania, Sabine Eckhardt

**Abstract ID:**

Paola Gramatica, Alessandro Sangioni, Ester Papa

**Potential environmental hazard of emerging pollutants: QSAR models in the new version of the QSARINS software.**

Paola Gramatica, Alessandro Sangioni, Ester Papa

**Abstract ID:**

Alisa Ilinskaya, Evgeniy Yakushev, Ole-Anders Nost, Elizaveta Protsenko

**Model simulations of oxygen depletion forced by acetate discharge in the coastal waters of the North Sea**

Alisa Ilinskaya, Evgeniy Yakushev, Ole-Anders Nost, Elizaveta Protsenko

**Abstract ID:**

Karolina Jagiello, Jyotsna Bhat-Ambure, Anita Sosnowska, Tomasz Puzyn

**The quality of QSAR/QSPR models developed for ionic liquids vs. methods applied to calculate molecular descriptors**

Karolina Jagiello, Jyotsna Bhat-Ambure, Anita Sosnowska, Tomasz Puzyn

**Abstract ID:**

Ester Papa, Alessandro Sangion, Jon Arnot, Trevor N. Brown, Leon Van Der Wal, Paola Gramatica

**Prediction of in vivo biotransformation in fish and human for the refinement of bioaccumulation**

Ester Papa, Alessandro Sangion, Jon Arnot, Trevor N. Brown, Leon Van Der Wal, Paola Gramatica

**Abstract ID:**

Maren Wehrhahn, Thorsten Hüffer, Thilo Hofmann

**Evaluating sorption properties of tire materials using poly-parameter linear free-energy relationships (ppLFER)**

Maren Wehrhahn, Thorsten Hüffer, Thilo Hofmann

**Abstract ID:**

Ewelina Wyrzykowska, Anna Rybinska, Anita Sosnowska, Tomasz Puzyn

**The decision tree as a tool for the ionic liquid’s mutagenic potential predictions**

Ewelina Wyrzykowska, Anna Rybinska, Anita Sosnowska, Tomasz Puzyn

**Abstract ID:**

Ziye Zheng, Gregory Peters, Hans Peter H. Arp, Patrik L. Andersson

**Alternative assessment of decaBDE and its alternatives using in-silico tools**

Ziye Zheng, Gregory Peters, Hans Peter H. Arp, Patrik L. Andersson
Wednesday 21 June
Persistent Organic Pollutants and Waste Cycling

Location and time: Helga Engs hus, Auditorium 3, 13:30 - 15:45
Chair: Diane Purchase (Middlesex University, London) & Heinz Rüdel (Fraunhofer Institute for Molecular Biology and Applied Ecology, Germany)

Oral presentations:

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<td>Diane Purchase</td>
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<td>Contaminant Issues in the Waste Stream - Keynote presentation abstract (Keynote)</td>
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<td>Therese Haugdahl Nøst, Torkjel Manning Sandanger, Evert Nieboer, Jon Øyvind Odland, Knut Breivik</td>
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<td>Delayed emissions of POPs from transboundary waste streams may cause spatially and temporally divergent monitoring trends</td>
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<td>Annekatrin Dreyer, Frank Neugebauer, Nina Lohmann, Jan Konschorreck</td>
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<td>Dechlorane Plus (DP) and brominated flame retardants (BFR) in leave samples of coniferous and deciduous trees of the German Environment Specimen bank</td>
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<td>Henri Kylin, Hindrik Bouwman</td>
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<td>Pentachloroanisole is not a functional proxy for pentachlorophenol in the environment</td>
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<td>Elisabeth Nyberg, Anders Bignert, Sara Danielsson, Anna-Lena Egebäck, Caroline Ek, Ulla Eriksson</td>
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<td>Monitoring of PCBs in Swedish aquatic biota and human milk, 1969-2014</td>
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<td>Comparison of long term temporal trends of PCBs and PBDE in UK gannet (Morus bassanus) eggs</td>
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<td>Golnoush Abbasi, Li Li, Knut Breivik</td>
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<td>Global and historical emission inventory of BDE-209</td>
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<td>15:45</td>
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Persistent Organic Pollutants and Waste Cycling

Posters are located at Georg Sverdrups Hus basement. Authors should be available for discussion and questions 15 minutes after discussion is announced.

**Posters (I):**

**Abstract ID:**

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416

Carola Graf, Knut Breivik, Kevin C. Jones, Andrew J. Sweetman  
*Investigating Long-term Trends in PCB Concentrations in Ambient Air: The TOMPs Network and the UK-Norway Transect*  
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Ester Heath, Tina Kosjek, David Heath  
*PCBs, dDioxin-like PCBs, Dioxins, and Furans in Fish commonly available on the Slovene market*  
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Aina Jansen, Anuschka Polder, Jan Aaseth, Eystein Skjerve, Jan L. Lyche  
*Increased concentrations of persistent organic pollutants after bariatric/metabolic surgery; are the concentrations exceeding guideline levels?*  
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Ellen Kristine Keilen, Katrine Borgå, Anders Ruus, Morten Helberg, Tone Kristin Reierson, Nicholas Warner, Ketil Hylland  
*Levels and effects of environmental contaminants in herring gulls (Larus argentatus) from an urban and a rural colony in Norway*  
356

Thibault Masset, Christine Piot, Nathalie Cottin, Philippe Fanget, Emmanuel Nafrechoux  
*Natural PCB decontamination of lakes: first estimates and direct measurements of volatilization flux in Lake Bourget (France)*  
276

Marzieh Moenfaard, Sara Ramos, José Avelino Silva, Marius Matache, Nuno Ratola  
*Preliminary study to compare and relate pine needles uptake of semi-volatile organic compounds (SVOCs)*  
344

Maja Nipen, Pernilla Bohlin Nizzetto, Anders Rorsrud Borgen, Anne Karine Halse, Martin Schlabach, Roland Kallenborn  
*Short and medium chain chlorinated paraffins – Investigating occurrence and sources of blank contamination in field and laboratory, and assessing instrumental performance on a quadrupole time-of-flight mass spectrometry instrument*  
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Erik Magnus Ræder, Angela Banaduc, Doru Banaduc, Alexandru Burcea, Jan Lydvig Lyche, Vidar Berg  
*Persistent Organic Pollutants in Fish Tissue – Case Study Mureș Watershed*  
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Heinz Ruedel, Golnoush Abbasi, Oluseun E. Popoola, Diane Purchase  
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Andrea Svarcova, Thomas Gramblicka, Radim J. Sram, Jana Hajslova, Jana Pulkrabova  
*Complex assessment of dietary exposure to organic contaminants of daily human diet*  
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Katrin Vorkamp, Knud Falk, Søren Møller, Frank F. Rigét, Peter B. Sørensen  
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Tomas Weidlich, Jaroslav Jurenka

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| 14:00      | **Jérémy Bell, Sabine Wagner, Mustafa Biyikal, Kornelia Gawlitza, Knut Rurack**  
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| 14:30      | **Sameer S. Lakade, Francesc Borrell, Kenneth G. Furton, Anuzar Kabir, Núria Fontanals, Rosa M. Marché**  
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| 15:00      | **Ivan Senta, Ivona Krizman, Marijan Ahel, Nikolina Udiković-Kolić, Senka Terzic**  
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| 15:15      | **Maria G. Antoniou, Iosef Boraei, Danae Pantelide, Mahalakshmi Abhishek, Christine Edwards, Linda A. Lawton**  
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| 15:30      | **Adrián Jaén-Gil, Andrea Hom-Diaz, Sara Rodríguez-Mazaz, Teresa Vicent, Paqui Blánquez, Damià Barceló**  
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| 15:45      | **Imma Tolosa, Roberto Cassi, David Huertas**  
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<td>Molecular imprinting solid phase extraction for selective detection of pendimethalin in</td>
<td>Virginia C. Fernandes, Viswanathan Subramanian, Valentina F. Domingues, Cristina Delerue-Matos</td>
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<td>Imma Tolosa, Yann Mueller, David Huertas</td>
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<td>ethyldimethylsilylated silica, and a amino-cyano silica HPLC columns</td>
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<td>Albert Serra-Compte, Ana Luisa Maulvalt, Carolina Camacho, Diana Álvarez-Munozi, Damià Barceló, Sara Radríguezmozaz, António Marques</td>
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<td>Chemical emissions from offshore wind farms: a new source for chemical pollution in the marine environment</td>
<td>Torben Kirchgeorg, Ingo Weinberg, Berit Brockmeyer</td>
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<td>Emerging Contaminants in the marine environment - challenges and new options</td>
<td>Victoria Tornero, Georg Hanke</td>
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<td>Blue mussels (Mytilus edulis spp.) as environmental bioindicator</td>
<td>Jonny Beyer, Merete Schøyen, Steven Brooks, Ian J. Allan, Anders Ruus, Tânia Gomes, Inger Lise N. Bråte, Jarle Håvardstun, Dag Ø. Hjermann, Norman W. Green</td>
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Posters:

Juan-Santos Echeandia, Instituto Español de Oceanografía, Centro Oceanográfico de Murcia, Spain
Current-use pesticides and personal care products in surface sediments from the Spanish Mediterranean continental shelf

Valentina Domingues, REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto
Evaluation of aliphatic hydrocarbons in macroalgae from the Portuguese north coast

Silje Marie Kristiansen, Department of Biosciences, University of Oslo (UiO), Norway
Transport of marine pollution via seabirds to tundra communities and their effect on inhabiting Collembola in Svalbard

Siew Hong Lam, NUS Environmental Research Institute, National University of Singapore, Singapore
Complementary roles of in vivo zebrafish assays with in vitro glucocorticoid receptor bioassay and analytical chemistry for aquatic environmental monitoring of glucocorticoid pollutants
Thursday 22 June

Satellite Events and Excursions:

*Location: Helga Engs hus*

**Time:**

09:00 - 16:00  **NORMAN: Suspect and non-target screening with high resolution mass spectrometry - current status and new developments**  
Convenors: Paweł Rostkowski (Norwegian Institute for Air Research (NILU), Norway) & Juliane Hollender (EAWAG, Switzerland)  
*Location: Helga Engs hus, Auditorium 1*

09:00 - 16:00  **Strategies and challenges for sanitation technology and sewage treatment in the high north**  
Convenors: Petter D. Jenssen & Roland Kallenborn (Norwegian University of Life Sciences (NMBU), Norway)  
*Location: Helga Engs hus, Auditorium 2*

09:00 - 16:00  **Scientific writing and publishing**  
Convenors: Philippe Garrigues (University of Bordeaux, France) & Michaela Dina Stanescu (Polytechnical University of Bucharest, Serbia)  
*Location: Helga Engs hus, Auditorium 3*

09:00 - 16:00  **Excursion: Kjeller Research Park and Norwegian Institute for Air Research (NILU)**  
Convenors: Paweł Rostkowski & Martin Schlabach (Norwegian Institute for Air Research (NILU), Norway)