

Program

Sunday, May 29th, 2016

From 15.00	Arrival, check in, registration
17.00	Welcome drink
18.15 – 19.15	Derek Muir (Environment Canada) –Evening Lecture <i>Expanding the number of chemicals in commerce that can be determined in environmental media: a progress report</i>
19.30	Dinner

Monday, May 30th, 2016

8.15 – 8.30 Chiara Cometta (CSF) and Lorenzo Sonognini (Monte Verità)

Welcome address

Instrumentation and method development: Trends in LC-HRMS

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8.30 – 9.00	Nikolaos Thomaidis (Uni. Athens, GR) – Keynote Lecture Analytical strategies to explore the polar fraction of environmental samples by non-target LC-HRMS screening	
9.00 – 9.20	Thomas Letzel (TU Munich, DE) Novel suspects and non-target screening strategies for the simultaneous observation of very polar, polar and non-polar molecules in environmental (water) samples	
9.20 – 9.40	Juri Leonhardt (IUTA, DE) Development of a non-target time-of-flight mass spectrometric detection method for a miniaturized two-dimensional liquid chromatographic approach	
9.40 – 10.00	Martin Krauss (UFZ, DE) Teach your nontarget method new tricks: How retention at different pH and HDX improve compound identification by LC-HRMS	
10.00 – 10.20	Felix Hernandez (UJI, ES) TBA	
10.20 – 10.50	Coffee break	
Instrumentation and method development: Trends in GC-HRMS		
10.50 – 11.20	Eunha Hoh (SDSU, US) – Keynote Lecture An Analytical Framework for the Discovery of Bio-accumulative Organic Compounds	
11.20 – 11.40	Pablo Antonio Lara-Martin (Uni Cadiz, ES) APGC-ToF-MS for the determination of hydrophobic target and non-target contaminants in sewage impacted sediments	
11.40 – 12.00	Axel Rydevik (Uni. Bath, UK) Non-targeted analysis of wastewater by GCxGC-HRMS	
12.00 – 12.20	Merete Grung (NIVA, NO)	
	Non-target and suspect identification of non-regulated polycyclic aromatic compounds and other markers of urban pollution in road tunnel particulate matter	
12.30	Lunch	
14.00 – 16.00	Poster session	
16.00 – 16.30	Coffee break	
16.30 – 18.00	Workshops (details TBA)	
18.15 – 19.15	David Wishart (Uni. Alberta, CA) – Evening Lecture Identifying the dark matter of the chemical exposome	
19.30	Dinner	

Tuesday May 31st, 2016

Workflow developments

8.30 – 9.00	Steffen Neumann (IPB Halle, DE) – Keynote Lecture Hitchhiker's quide to computational mass spectrometry
9.00 – 9.20	Gordon Getzinger (Duke Uni., US)
3.00 3.20	Exploring environmentally relevant chemical space through ultrahigh
	resolution mass spectrometry, computational mass spectrometry and
	chemoinformatics: The example of wastewater derived organic
	micropollutants
9.20 - 9.40	Christoph Ruttkies (IPB Halle, DE)
	MetFrag Relaunched: Incorporating strategies beyond in silico
0.40.40.00	fragmentation
9.40 – 10.00	Saer Samanipour (NIVA, NO)
	Application of the unique ion extractor and dot product in suspect and
10.00 – 10.20	target analysis of produced water Martin Loos (Eawag, CH)
10.00 10.20	Spatiotemporal micropollutant monitoring with the LC-HRMS data
	mining workflow enviMass version 3
10.20 – 10.50	Coffee break
Tools to prioritize	e identification: Statistic and modeling
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10.50 – 11.20	Jan Christensen (Uni. Copenhagen, DK) – Keynote Lecture TBA
11.20 - 11.40	Yaroslav Verkh (ICRA, ES)
	Derivation of information from non-target high resolution mass
	spectrometry (HRMS) analysis: statistical fingerprinting of organic
11 40 12 00	content in waste water
11.40 – 12.00	Aurea Chiaia-Hernandez (Eawag, CH) Temporal trend analysis on LC-HRMS measurements of lake sediments
	to prioritize organic contaminants
12.00 – 12.20	Tobias Bader (Langenau, DE)
12.00 12.20	General strategies to increase the repeatability in non-target screening
	by liquid chromatography-high resolution mass spectrometry
12.30	Lunch
14.00 – 16.00	Poster session
16.00 – 16.30	1 65(6) 5635(6)
10.00 - 10.30	Coffee break
16.30 – 18.00	
	Coffee break Workshops (details TBA)
16.30 - 18.00	Coffee break
16.30 - 18.00	Coffee break Workshops (details TBA) Mark Viant (Uni. Birmingham, UK) – Evening Lecture
16.30 - 18.00	Coffee break Workshops (details TBA) Mark Viant (Uni. Birmingham, UK) – Evening Lecture Applications of non-targeted metabolomics in environmental

Wednesday, June 1st, 2016

Transformation products in natural and technical systems

8.30 – 9.00	Kathrin Fenner (Eawag, CH) – Keynote Lecture
	Transformation product analysis: Ready to go beyond suspect screening?
9.00 - 9.20	Bozo Zonja (CSIC, ES)
	Data-dependent fragment ion search for detection of sartans and their
	related compounds in wastewater and surface water
9.20 - 9.40	Jennifer Schollee (Eawag, CH)
	Gaining a comprehensive picture of transformation products formed
	during wastewater treatment processes
9.40 - 10.00	Agneta Kiss (ISA, Lyon, FR)
	Non-target characterization and comparison of complex environmental
	samples: A practical example of pitfalls and benefits
10.00 - 10.20	Dennis Vughs (KWR, NL)
	Tracing nitrogenous disinfection byproducts after medium pressure UV
	water treatment by stable isotope labeling and high resolution mass
	spectrometry
10.20 – 10.50	Coffee break
10.50 - 11.20	Susan Richardson (U. South Carolina, US) – Keynote Lecture
	Non-target identification of new disinfection by-products
11.20 - 11.40	Sylvain Merel (Uni. Tübingen, DE)
	LC-Q-TOF screening and Kendrick mass defect analysis for the
	identification of ozonation by-products
11.40 - 12.00	Thomas Young (UCDavis, US)
	Assessing advanced oxidation reactor performance using high
	resolution mass spectrometry
12.00 - 12.20	•
12.00 - 12.20	Damian Helbling (Cornell Uni., US)
12.00 – 12.20	•
12.30	Damian Helbling (Cornell Uni., US) A non-target approach to identify chlorination products of sulfonamide

Thursday June 2nd, 2016

19.30

Dinner

Linking to effects	: Effect directed analysis, internal exposure
8.30 – 9.00	Marja Lamoree (VU, NL) – Keynote Lecture Three pieces of the puzzle: advances in fractionation, toxicity testing and mass spectrometry for Effect-Directed Analysis
9.00 – 9.20	Marie-Hélène Deviér (Uni. Bordeaux, FR) Identification of unknown organic contaminants in wastewaters using Effect-Directed Analysis
9.20 – 9.40	Audrey Buleté (ISA Lyon, FR) Non-targeted investigation of benthic invertebrates exposed to wastewater treatment plant effluents using nanochromatography coupled to high resolution mass spectrometry
9.40 – 10.00	Martin Jones (Uni. Birmingham, UK) Multi-platform non-targeted small molecule annotation of the ecological, eco-toxicological and freshwater model organism, Daphnia magna
10.00 – 10.20	Nathan Dodder (SCCWRP, US) Methods and software for identification of contaminants in sentinel marine mammals
10.20 – 10.50	Coffee break
Non-target real w	orld applications: Environmental samples
10.50 – 11.20	Wolfgang Schulz (Langenau, DE) – Keynote Lecture Non-target screening using HPLC-HRMS in combination with Effect- Directed Analysis to prioritize contaminants in the aquatic environment
11.20 – 11.40	Ana Causanilles (KWR, NL) Qualitative screening of new psychoactive substances in wastewater from a Dutch event using LC-HRMS
11.40 - 12.00	Pablo Gago-Ferrero (SLU, SE)

Prioritization and identification of substances formed during wastewater treatment that are released into the aquatic environment 12.00 - 12.20Mark Strynar (EPA, US) Using point of use sampling devices and high resolution mass spectrometry techniques for characterizing drinking water exposures 12.30 Lunch 14.00 - 16.00Workshops (details TBA) Coffee break 16.00 - 16.30 16.30 - 18.00Workshop on demand 18.15 - 19.15Workshops wrap up

Friday June 3rd, 2016

12.15

Applications & implications in a regulatory framework

8.30 – 9.00	Heinz Singer (Eawag, CH) Routine non-target monitoring of river Rhine water quality: A Pandora's box?
9.00 – 9.20	Uwe Kunkel (BfG, DE) Identification of quaternary triphenylphosphonium compounds as new class of environmental pollutants via non-target screening
9.20 – 9.40	Annemieke Kolkman (KWR, NL)
	Elucidating the identity of a unknown contaminant in the river Meuse: Pyrazole, a new emerging polar industrial contaminant
9.40 – 10.00	Georg Hanke (JRC, EU/IT) Marine contaminants – the need for analytical screening tools
10.00 – 10.20	Jon Sobus (EPA, US)
	Harnessing high-throughput monitoring methods to strengthen 21st Century risk-based evaluations
10.20 – 10.50	Coffee break
Conference Wrap-Up	
10.50 – 11.20	Lee Ferguson (Duke Uni., US) Non-target 2016: Current challenges and future directions

Non-target 2016: Current challenges and future directions 11.20 - 11.35**CSF Award Ceremony** Flash presentation of award winner 11.35 - 12.00Discussion and closing **Lunch and departure**

For NORMAN Association Members and invited guests:

13.30 - 17.00NORMAN Cross-Action Working Group Meeting on

Non-Target Screening (CA NTS)