

International Society of Exposure Science

PROGRAM

2016 Annual Meeting BOOK

ONE-PAGE MEETING-AT-A-GLANCE

Time	Sun 9 Oct	day ober	Monday 10 October	Tuesday 11 October	Wednesday 12 October	Thursday 13 October	Time
07.00 - 08.00			Student/ New Researcher Breakfast Workhop				07.00 - 08.00
08:00 - 08:30			PLENARY	PLENARY		PLENARY	08:00 - 08:30
08:30 - 09:00					90 m Oral		08:30 - 09:00
09:00 - 09:30			90 m Oral	90 m Oral		90 m Oral	09:00 - 09:30
09:30 - 10:00	Optional	ISES					09:30 - 10:00
10:00 - 10:30	Work-	Board Meeting			POSTER VIEWING & Break		10:00 - 10:30
10:30 - 11:00		(Closed)	POSTER VIEWING & Break	POSTER VIEWING & Break	90 m Oral	BREAK	10:30 - 11:00
11:00 - 11:30			60 m Oral	60 m Oral		60 m Oral	11:00 - 11:30
11:30 - 12:00							11:30 - 12:00
12:00 - 12:30			LUNCH 12:45	LUNCH 12:30	LUNCH JESEE Board	CLOSING/Wrap-Up	12:00 - 12:30
12:30 - 13:00			Awards Ceremony and RIVM	ISES General Membership	meeting (closed) 2017 Kick-Off		12:30 - 13:00
13:00 - 13:30			ConsExpo Announcement	Meeting	Meeting (open)		13:00 - 13:30
13:30 - 14:00	Optional				90 m Oral	OPTIONAL	13:30 - 14:00
14:00 - 14:30	Work-		90 m Oral	90 m Oral		EXCURSIONS The Muiderslot &	14:00 - 14:30
14:30 - 15:00						Naarden tour	14:30 - 15:00
15:00 - 15:30					POSTER VIEWING & Break		15:00 - 15:30
15:30 - 16:00			POSTER VIEWING & Break	POSTER VIEWING & Break	90 m Oral		15:30 - 16:00
16:00 - 16:30			90 m Oral	90 m Oral			16:00 - 16:30
16:30 - 17:00							16:30 - 17:00
17:00 - 17:30					SNR MIXER		17:00 - 17:30
17:30 - 18:00	WELCO	OME &		European Strategy Workshop	IT/SENSOR FAIR		17:30 - 18:00
18:00 - 18:30	OPEN PLEN			QVIVE Workshop (closed) UNEP/SETAC Toxicity Workshop (closed)	EXHIBITOR FAIR		18:00 - 18:30
18:30 - 19:00	WELC	OME	CONFERENCE	WOMEN'S NETWORKING	COMMITTEE FAIR		18:30 - 19:00
19:00 - 19:30	RECEPT STUDENT	TION & POSTER	DINNER and party: Winkel van Sinkel	HAPPY HOUR: Utrecht University			19:00 - 19:30
19:30 - 20:00		TITION	(Until 0:00 hrs.)	Hall			19:30 - 20:00
20:00 - 20:30							20:00 - 20:30
20:30 - 21:00							20:30 - 21:00
21:00 - 21:30							21:00 - 21:30

Welcome Messages - Lesa and Yuri - Tim Buckley Meeting-at-a-Glance - Sunday, October 9 - Monday, October 10_ - Tuesday, October 11_ - Wednesday, October 12 _____

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- Thursday, October 13 _____

Students & New Researchers Program _____

- Joan M. Daisey Outstanding Young Scientist Award_

- IPA/DGUV Award for Young Exposure Scientists _____

- Thursday, October 13 _____

Sensor Fair Participants _____

ISES Organization_ General Information _

ISES Travel Awards

Pre-Conference Courses _____

Presenter & Session Chair Instructions_____

- Jerome J. Wesolowski Award_ - Constance L. Mehlman Award_

- Plenary, Sunday, October 9 __ - Plenary, Monday, October 10 ___

Program (including poster sessions) - Sunday, October 9_ - Monday, October 10_ - Tuesday, October 11__ - Wednesday, October 12 ___

- Plenary, Tuesday, October 11_____ - Plenary, Thursday, October 13____

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Special Events_ **ISES Awards**

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WELCOME MESSAGES

We are excited to welcome returning and new members of the International Society of Exposure Science (ISES) to Utrecht for the 26th ISES Annual Meeting. Globally, Exposure Science is now recognized as a critical component for assessing and protecting human, environmental and ecological health. Experts from more than 50 countries on six continents come together this week to exchange knowledge and information and to enhance the development of Exposure Sciences globally by discussing, understanding, learning, and expanding our professional networks. This year, strategic efforts are being launched at the meeting to connect and align stakeholders in the field of exposure science across geographic regions and to develop immediate and long-term strategies to advance and apply exposure sciences.

Over the last two years we have been privileged to work with many experts from governments, international organizations, academia, the private sector, and NGO's from Africa, Asia, Australia, Europe, North and South America, and the Middle East who have organized symposia and contributed presentations and posters to the meeting this week. Their enthusiastic participation has resulted in the most globally representative, and one of the largest, ISES meetings ever!

We hope that this meeting is an opportunity to strengthen existing and build new contacts and collaborations in the multidisciplinary field of exposure science.

We also hope that you have an opportunity to enjoy this historic city and Dutch "gezelligheid" – a word that means coziness and conviviality!

Have a great meeting!

Best regards, Met vriendelijke groet,

Yuri Bruinen de Bruin, PhD, Chair Lesa L. Aylward, PhD, Co-Chair



Welcome to beautiful and historic Utrecht and our 26th annual meeting. The Annual Meeting is one of the most important things that the Society does. It is strong representation of who we are and what we do. In this regard, Utrecht is very significant. It is the first non-U.S. meeting where we are the sole organizers/sponsors. We felt that the Society was ready for this bold move and we were inspired by the creative genius and leadership of our meeting Co-Chairs, Yuri Bruinen de Bruin and Lesa Aylward. With this meeting, we have greatly strengthened the European and international presence in the Society and the Society is greatly enhanced as a result. We all owe Yuri, Lesa, and the Technical Organizing Committee (TOC) a huge THANKS for their time and talent in bringing this extraordinary meeting to fruition.

Yuri, Lesa and their TOC have organized this meeting around a theme of "Interdisciplinary Approaches to Health and the Environment." This is a theme well suited to exposure science that by its nature encompasses a broad array of scientific disciplines and recognizing the environmental Questions and challenges that we face are often incredibly complex.

I want to thank you, our registrants, meeting sponsors, exhibitors for helping to make this meeting successful. Your time and resources are in high demand. Thank you for making this meeting a priority. I hope that you will take full advantage of this beautiful, historic, and rich venue to gather, discuss, and share your science, renew and establish friendships, networks, collaborations, and potentially hatch the next big science break through.

Warm Regards,

Timothy J. Buckley, PhD ISES President





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OCTOBER 9-13 2016

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MEETING-AT-A-GLANCE

MEETING-AT-A-GLANCE

	Sund	lay, October 9, 20	16
09:30 - 17:00	ISES Board Meeting (closed) QUEST		
09:30 - 13:00	Workshop 1A: CONSEXPO (RIVM) & CARES NG EXPEDITION	Workshop 2A: SHEDS-HT MISSION 1	Workshop 3A: INTEGRA MISSION 2
13:30 - 17:00	Workshop 1B: ECECTOC & TRA/ECHA Chesar EXPEDITION	Workshop 2B: MERLIN-Expo MISSION 1	Workshop 3B: How to Write a Great Research Paper and Get Published in a Top Journal MISSION 2
17:30 - 18:45	Welcome, Opening and Plenary Ad PROGRESS	dress 1: Water as integrator	of uses, stakes and exposures
18:45 - 20:00	Welcome Reception and Student Portant TRANSITZONE	oster Competition	

MEETING-AT-A-GLANCE

	Monda	y, October 10, 2016	
07.00-08.00	Student/New Researcher Breakfast Workhop: Social Studies? Exposure S QUEST	cientists and Social Media. Workshop	open to all meeting participants.
08:00 - 09:00	Plenary Address 2: Respiratory health effects and livester PROGRESS	ock farming related to microbial and o	dust exposure
09:00 - 10:30	Mo-SY-A1: Harmonization, access, transparency: improving environmental epidemiology for public health decision-making - I PROGRESS	Mo-SY-B1: Targeted activities for improving workplace exposure assessments QUEST	Mo-SY-C1: Intermittent Exposure in Risk Assessment EXPEDITION
	Mo-SY-D1: From external to internal exposure: the necessity of toxicokinetic information MISSION 1	Mo-SY-E1: Exposure to atmospherically dispersed hazards: assessment, public information and perspectives - I MISSION 2	Mo-SY-F1: Extending participatory sensing to personal exposure and policy support - I JULIANA 1
	Mo-SY-G1: Wastewater-based epidemiology (WBE) - from measuring illicit drug use towards understanding popula- tion health status - I JULIANA 2	Mo-SY-H1: Advances in consumer exposure assessment - I JULIANA 3	Mo-PL-I1: Transportation Related Air Pollution - I
10:30 - 11:00	POSTER VIEWING & BREAK - TRANSIT	ZONE	
11:00 - 12:00	Mo-SY-A2: Harmonization, access, transparency: improving environmental epidemiology for public health decision-making - II PROGRESS	Mo-SY-B2: Firefighters and Chemical Exposures: Protection Under Fire	Mo-SY-C2: Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure- response relationships for risk assessment - I EXPEDITION
	Mo-SY-D2: 15 years of Human Biomonitoring in Flanders: surveillance feeding policy and research - I MISSION 1	Mo-SY-E2: Exposure to atmospherically dispersed hazards: assessment, public information and perspectives - II MISSION 2	Mo-SY-F2: Extending participatory sensing to personal exposure and policy support - II JULIANA 1
	Mo-SY-G2: Wastewater-based epidemiology (WBE) - from measuring illicit drug use towards understanding popula- tion health status - II JULIANA 2	Mo-SY-H2: Advances in consumer exposure assessment - II JULIANA 3	Mo-PL-12: Transportation-Related Air Pollution - II

12:00 - 14:00	LUNCH - TRANSITZONE	12:45 - 13:45: AWARDS CEREMONY a PROGRESS	and RIVM ConsExpo Announcement
14:00 - 15:30	Mo-SY-A3: Multiple route exposure to multiple chemicals, the cocktail effect PROGRESS	Mo-SY-B3: From occupational to environmental biomonitoring: lessons to be learned QUEST	Mo-SY-C3: Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure- response relationships for risk assessment - II EXPEDITION
	Mo-SY-D3: 15 years of Human Biomonitoring in Flanders: surveillance feeding policy and research - II MISSION 1	Mo-SY-E3: Assessing exposure to SVOCs in dust MISSION 2	Mo-SY-F3: Thresholds of Toxicological Concern: an exposure-driven approach to risk assessment JULIANA 1
	Mo-SY-G3: The role of analytical chemistry within exposure science JULIANA 2	Mo-SY-H3: Aggregate exposure assessment of contact allergens in consumer products JULIANA 3	Mo-PL-I3: Risk Assessment JULIANA 4
15:30 - 16:00	POSTER VIEWING & BREAK - TRANSIT	ZONE	
16:00 - 17:30	Mo-SY-A4: The Children's Health Exposure Analysis Resource PROGRESS	Mo-SY-B4: New Biomarkers for Human Biological Monitoring in Occupational Health QUEST	Mo-SY-C4: Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure- response relationships for risk assessment - III EXPEDITION
	Mo-SY-D4: Evidence-Based Research on Interventions to Reduce Personal Exposures to Environmental Pollutants MISSION 1	Mo-SY-E4: Toward an Understanding of Indoor exposures MISSION 2	Mo-SY-F4: Exposure-Based Toxicity Testing JULIANA 1
	Mo-SY-G4: Advanced mass spectrometric techniques for the analysis of environmental organic contaminants JULIANA 2	Mo-SY-H4: Analysis of Patterns of Co-Exposure: Methodologies and Applications JULIANA 3	Mo-PL-I4: VOCs and SVOCs

	Tuesda	y, October 11, 2016	
08:00 - 09:00	Plenary Address 3: The exposome: moving from concep PROGRESS	t to reality	
09:00 - 10:30	Tu-SY-A1: The Exposome: From concept to practice - I PROGRESS	Tu-SY-B1: Uncertainty in scientific assessments: Recent efforts by governmental bodies to develop guidance for assessors QUEST	Tu-PL-C1: Aggregate and Cumulative Exposure Evaluations EXPEDITION
	Tu-PL-D1: Land Use Regression Modeling - I MISSION 1	Tu-SY-E1: Real-time measurements and integrated models to estimate traffic exposures in complex urban environments MISSION 2	Tu-SY-F1: OECD Task Force on Exposure Assessment - Better exposure science for better lives - I JULIANA 1
	Tu-SY-G1: Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/ Impacts and Disparate Impacts Research - I JULIANA 2	Tu-PL-H1: Analytical Methods - I	Tu-PL-I1: Quantitative Methods
10:30 - 11:00	POSTER VIEWING & BREAK - TRANSIT		JOHINIA 4

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MEETING-AT-A-GLANCE MEETING-AT-A-GLANCE

11:00 - 12:00	Tu-SY-A2:	Tu-SY-B2:	Tu-SY-C2:
	The Exposome: From concept to practice - II	Uncertainty in scientific assessments: Recent efforts by governmental bodies to develop guidance for assessors	Use of Agent Based Models in Exposure Assessment
	PROGRESS	QUEST	EXPEDITION
	Tu-PL-D2: Land Use Regression Modeling - II MISSION 1	Tu-SY-E2: Exposure science meets social science: Tools for the effective communication of the health risks associated with air pollution exposure and implications for policy development MISSION 2	Tu-SY-F2: OECD Task Force on Exposure Assessment - Better exposure science for better lives - II
	Tu-SY-G2:	Tu-PL-H2:	Tu-PL-I2:
	Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/ Impacts and Disparate Impacts Research - II JULIANA 2	Analytical Methods - II JULIANA 3	Close Contact: Contaminants in Clothing
12:00 - 14:00	LUNCH - TRANSITZONE	12:30 - 13:45: GENERAL MEMBERSHI	-
11.00 14.00	Lone. Hambii Lone	PROGRESS	
14:00 - 15:30	Tu-SY-A3: The Exposome: From concept to practice - III PROGRESS	Tu-PL-B3: Urinary Biomarkers	Tu-SY-C3: Health effects of air pollutants EXPEDITION
	Tu-SY-D3: How can knowledge of toxicokinetics, mode of action and biomonitoring help you in human exposure risk assessment of chemicals? MISSION 1	Tu-SY-E3: The Effects of Climate Change on Human Exposures to Air Pollution MISSION 2	Tu-SY-F3: Current opportunities and challenges in exposure surveillance to implement prevention strategies at the national and European scale JULIANA 1
	Tu-SY-G3: Advancing human exposure metrics in Life Cycle Assessment (LCA) and Chemical Alternatives Assessment (CAA) - I JULIANA 2	Tu-PL-H3: Pesticides JULIANA 3	Tu-PL-13: Understanding Exposure Measurement Error
15:30 - 16:00	Poster viewing & Break - TRANSITZO	NE .	
16:00 - 17:30	Tu-SY-A4: The Exposome: From concept to practice - IV PROGRESS	Tu-PL-B4: Occupational Exposures QUEST	Tu-SY-C4: Advanced methods for characterizing air pollution exposures at community scale EXPEDITION
	Tu-SY-D4: Human Biological Monitoring Following Chemical Incidents MISSION 1	Tu-SY-E4: Air pollution exposure assessment getting personal: a European perspective MISSION 2	Tu-SY-F4: Advancing Exposure Science to Address Complex Environmental Issues JULIANA 1
	Tu-SY-G4: Advancing human exposure metrics in Life Cycle Assessment (LCA) and Chemical Alternatives Assessment (CAA) - II JULIANA 2	Tu-PL-H4: Kinetics	Tu-PL-I4: Neurotoxicants
17:30 - 19:30	QIVIVE meeting (closed) QUEST		
17:30 - 20:00	UNEP/SETAC Toxicity Workshop (clos EXPEDITION	ed)	
17:45 - 19:00	European Strategy Workshop PROGRESS		
18:30 - 20:00	Women's Networking Event - Univer	sity Hall in Utrecht	

	Wednesd	ay, October 12, 2016	
08:30 - 10:00	We-SY-A1: Detection of new and emerging risks of chemicals (NERCs); the need for interdisciplinary cooperation PROGRESS	We-SY-B1: The Worker Health and Efficiency (WE) Program: Understanding and mitigating the risks of Chronic Kidney Disease in El Salvadorian Sugarcane Cutters QUEST	We-SY-C1: What are the requirements for nanomaterial exposure models? - I EXPEDITION
	We-SY-D1: Biomonitoring: The Genie is out of the Bottle: Challenges in Data Quality and Interpretation MISSION 1	We-SY-E1: Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - I MISSION 2	We-SY-F1: Exposure science informing policy decision-making - I JULIANA 1
	We-SY-G1: Pesticide Exposure: Developing Monitoring, Methods and Modeling in Human Health Risk Assessments (Consumer and Worker Risk) - I	We-SY-H1: Tool and methods for an exposure driven safe by design approach for nanomaterials - I	We-PL-I1: Waterborne Contaminants
	JULIANA 2	JULIANA 3	JULIANA 4
10:00 - 10:30	POSTER VIEWING & BREAK - TRANSIT		
10:30 - 12:00	We-SY-A2: New Data Streams for 21st Century Exposure Science PROGRESS	We-PL-B2: Exposure Factors QUEST	We-SY-C2: What are the requirements for nanomaterial exposure models? - II EXPEDITION
	We-SY-D2: Biomonitoring: Uses in Policy and Regulations and Enhancements as a Result of Collaborative Efforts	We-SY-E2: Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - II	We-SY-F2: Exposure science informing policy decision-making - II
	MISSION 1	MISSION 2	JULIANA 1
	We-SY-G2: Pesticide Exposure: Developing Monitoring, Methods and Modeling in Human Health Risk Assessments (Consumer and Worker Risk) - II JULIANA 2	We-SY-H2: Tool and methods for an exposure driven safe by design approach for nanomaterials - II JULIANA 3	We-PL-I2: Indoor Environment
12:00 - 13:30	LUNCH - TRANSITZONE	3021111113	302174174
12:15 - 13:15	2017 Kick-Off Meeting EXPEDITION	JESEE Board Meeting (closed) QUEST	ISES East Asia Chapter meeting MISSION 1
13:30 - 15:00	We-SY-A3: New Frontiers in Toxicology Create New Challenges for Risk Assess- ment: What must Exposure Scien- tists do to Meet the Challenge?	We-SY-B3: Occupational Exposure Models - Development and/or Evaluation of REACH and other European and US models and tools (including tool for nanomaterials) - I	We-SY-C3: Wristband Samplers Advancing Chemical Exposure Science - I
	PROGRESS	QUEST	EXPEDITION
	We-SY-D3: UBA HBM Colloquium I - Human Biomonitoring in International Population Studies Improving our Knowledge of Environmental Public Health	We-SY-E3: Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - III	We-SY-F3: Measuring marijuana exposure in a changing legal landscape
	MISSION 1	MISSION 2	JULIANA 1
	We-SY-G3: Exposure Science and 21st century oil and gas development - I	We-PL-H3: Spatio-Temporal Measures - I	We-PL-I3: Sensor Technology

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MEETING-AT-A-GLANCE ISES ORGANIZATION

15:30 - 17:00	We-SY-A4: Exposure Sciences with Stakeholders in Contested Societal Debates About the Risk of Toxic Substances PROGRESS	We-SY-B4: Occupational Exposure Models - Development and/or Evaluation of REACH and other European and US models and tools (including tool for nanomaterials) - II QUEST	We-SY-C4: Wristband Samplers Advancing Chemical Exposure Science - II EXPEDITION
	We-SY-D4: UBA HBM Colloquium II - Human Biomonitoring in Europe Harmo- nising Instruments and Data for Science and Policy-making MISSION 1	We-SY-E4: Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - IV MISSION 2	We-SY-F4: E-Cigarettes, Exposures, and (Health) Effects
	We-SY-G4: Exposure Science and 21st century oil and gas development - II JULIANA 2	We-PL-H4: Spatio-Temporal Measures - II JULIANA 3	We-PL-I4: Continuous/Real Time Measures
17:00 - 17:30	Student/New Researcher Mixer TRANSITZONE		
17:30 - 19:00	IT/Sensor FAIR, Exhibitor FAIR and ISTRANSITZONE	ES Committee FAIR	

	Thursda	y, October 13, 2016	
08:00 - 09:00	Plenary Address 4: Potential of metabolomics in chemic PROGRESS	al risk analysis	
09:00 - 10:30	Th-SY-A1: The exposome: a transdisciplinary paradigm for improved environment and health associations - I PROGRESS	Th-SY-B1: Tooth-matrix biomarkers to reconstruct the early life exposome QUEST	Th-SY-C1: Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - I EXPEDITION
	Th-PL-D1: Exposure Modeling MISSION 1	Th-SY-E1: Methodologies in finding new and/ or emerging risks of chemicals (NERCs) - I MISSION 2	
10:30 - 11:00	BREAK - TRANSITZONE		
11:00 - 12:00	Th-SY-A2: The exposome: a transdisciplinary paradigm for improved environment and health associations - II PROGRESS	Th-SY-B2: Aspects to consider for Fungi and Mycotoxins occupational exposure and risk assessment QUEST	Th-SY-C2: Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - II EXPEDITION
11:00 - 12:00	The exposome: a transdisciplinary paradigm for improved environment and health associations - II	Aspects to consider for Fungi and Mycotoxins occupational exposure and risk assessment	Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - II
11:00 - 12:00 12:00 - 12:30	The exposome: a transdisciplinary paradigm for improved environment and health associations - II PROGRESS Th-SY-D2: Environmental Exposure Monitoring in Birth & Early Life Cohort Studies	Aspects to consider for Fungi and Mycotoxins occupational exposure and risk assessment QUEST Th-SY-E2: Methodologies in finding new and/ or emerging risks of chemicals (NERCs) - II	Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - II

ABOUT ISES

The International Society of Exposure Science (ISES) promotes and advances exposure science (methods, measurements, models) as it relates to the complex inter-relationships between human populations, communities, ecosystems, wildlife, and chemical, biological, and physical agents, and non-chemical stressors. ISES members have diverse expertise and training in biological, physical, environmental, and social sciences, as well as various engineering disciplines. According to the National Research Council, "exposure science links human and ecological behavior to environmental processes in such a way that the information generated can be used to mitigate or prevent future adverse exposures." The Society's multidisciplinary expertise and international reach make it the premiere professional society for practitioners associated with all aspects of exposure science (research, teaching, policy, communication, outreach). ISES is a specialty society focused on understanding the complex inter-relationships between human populations, communities, ecosystems, wildlife, and chemical, biological, and physical agents, and non-chemical stressors. We are an influential professional society with a mission to serve and promote our members and advance the field of exposure science. When you join ISES, you will make a difference in furthering this mission and have opportunities to meet others who share your passion for exposure science.

Membership benefits include:

- Online subscription to our official journal: Journal of Exposure Science and Environmental Epidemiology
- · Reduced rate registration for ISES annual meetings
- · Early notification of annual meetings
- · Regular emails about our Society and its activities
- Opportunities to actively engage in our Society, including involvement in the ISES Mentoring Program, Annual Meeting development and participation on Committees
- · Networking opportunities during the year and at our annual meetings
- Opportunity to become involved in the mentorship program
- Reduced page charges if you are the first or corresponding author on a paper published in JESEE. Discounts will be applied at production, following the completion of the supplied page charge form.

ISES membership is a smart investment in your professional development. ISES is only as strong as its membership. If you are not a member, we welcome you to join. If you are member, we encourage you to help the Society advance exposure science though active and full engagement in its various committees, social media outlets, the annual meeting, and the journal. Find out more about how to make this happen at the ISES Committee Fair at this year's Annual Meeting.

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ISES 2016 - UTRECHT - THE NETHERLANDS 10 OCTOBER 9-13 2016 ISES 2016 - UTRECHT - THE NETHERLANDS 11 OCTOBER 9-13 2016

ISES ORGANIZATION ISES ORGANIZATION

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 Lesa L. Aylward, PhD, Co-Chair Summit Toxicology, LLP, Falls Church, VA, USA

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- Michael Breen, USEPA, Research Triangle Park, NC, USA
- Tom Long, USEPA, Research Triangle Park, NC, USA
- Elizabeth Marder, Emory University, Atlanta, GA, USA
- Justin Teeguarden, Pacific Northwest National Laboratory, Richland, WA, USA
- Elizabeth Boyle, US National Academy of Sciences, Washington, DC, USA
- · Natalie von Götz, ETH, Zurich, Switzerland
- Cian O'Mahony, Crème Global, Dublin, Ireland
- Kristin Isaacs, US EPA, Research Triangle Park, NC, USA
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- Audil Rashid, Assistant Professor, EcoHealth Research Group, Environmental Sciences, PMAS Arid Agriculture University, Rawalpindi, Pakistan
- Kiyoung Lee, ScD, Seoul National University, Seoul, South Korea
- Nicole Deziel, Yale School of Public Health, New Haven, CT, USA
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Kai Zhang

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GENERAL INFORMATION

Registration Desk Hours

The registration desk for General Registration will be open during the following times:

Sunday October 9, 201608:00 – 20:00 hrs.Monday October 10, 201607:00 – 18:00 hrs.Tuesday October 11, 201607:30 – 18:00 hrs.Wednesday October 12, 201608:00 – 19:00 hrs.Thursday October 13, 201607:30 – 13:00 hrs.

Registration Materials, Badges & On-site Staff

At check-in each attendee will receive the program flyer, meeting name badge, and other promotional materials. Printed programs will only be available to those who purchased one as part of pre-registration. Each participant must wear his/her own badge during the entire meeting. The badge is the admission pass to meeting rooms, meeting areas, and social events.

Feel free to ask our meeting staff for information at any time. During hours of operation the registration area will always be staffed by at least one person.

WiFi Access

Complimentary WiFi is available for all participants in the meeting venue. **Login:** Supernova-Mediaplaza-Hotspot, no password required.

Official Language

The official language of the Annual Meeting is English.

About the Annual Meeting

ISES annual meetings provide a unique opportunity to network with colleagues and develop new relationships while learning of the most recent research activities in our field. ISES annual meetings are organized to promote an open exchange of new ideas across disciplines, and to provide a forum for broad interactions among participants. Everyone with an interest in exposure science is invited to participate and to take advantage of opportunities to present and learn about the latest research, discuss new insights, and interact with new and long-term colleagues.

Scope of the meeting

This meeting will bring together experts and practitioners from academia, government, industry, and non-governmental organizations dedicated to the protection of health and environment. Exposure science is a dynamic field that

- Fosters interdisciplinary interaction to promote solutions to complex public health problems through integration of analytical chemistry, epidemiology, toxicology, industrial hygiene, public health, risk assessment, ecological health, and occupational health;
- Develops state of the art methods for measuring and estimating exposures, and the use of these measures in epidemiology, risk assessment and environmental health policy;
- Addresses exposures to environmental chemicals as well as to radionuclides, pathogens, food additives, and pharmaceuticals through traditional and innovative methods including biomonitoring, mobile and personal monitoring and sensors, and classical media-based measurements.



Meeting Themes

The ISES 2016 meeting theme is "Interdisciplinary Approaches to Health and the Environment." Within Europe, the Netherlands is known for its poldering strategy, which achieves agreements on complex issues by connecting stakeholders through dialogue. At the ISES 2016 Annual Meeting we will use this strategy to address topics such as:

- · Bridging Disciplines in Exposure Science to Inform Policy
- Connecting External and Internal Dose for Risk Assessment and Source Mitigation
- Development and Harmonization of Exposure Assessment Methods, Databases and Models
- Emerging Chemicals: Innovative Approaches to Detection and Assessment
- Developing and Advancing Exposure Science Education Programs

About Utrecht

Discover the secrets and charms of one of the world's 'most unsung cities' (according to travel guide Lonely Planet). Utrecht, a city of unparalleled vitality. A medieval city centre small enough to explore on foot, yet large enough to host world-class festivals, fashionable shops, modern architecture and fascinating museums. Friendly outdoor cafés and restaurants. Welcoming hotels. Utrecht has it all. It is only thirty minutes from Schiphol airport and the whole of the Netherlands is just a short journey away.

The canals of Utrecht are unique in the world. They are part of an ingenious medieval dockland development with wharves and cellars connected under the streets and huge storage cellars under the canal houses. You can explore Utrecht's canal district or paddle trough the green outer areas via the Kromme Rijn. There, you'll go through the woods and estates of Amelisweerd, and you can stop alang the way at the most idyllic picnic spots.

The Dom Tower is also an attraction of Utrecht. The Dom Tower (Domtoren) of Utrecht is the tallest church tower in the Netherlands, at 112.5 metres (368 feet) in height, and the Gothic-style tower is the symbol of the city. The tower stands at the spot where the city of Utrecht originated almost 2,000 years ago. Climbing the Dom Tower is a wonderful opportunity to explore the city of Utrecht in an entirely different way!



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Meeting Venue

ISES 2016 will be held in the conference centre of Jaarbeurs Utrecht, one of Netherlands' largest conference and exhibition centers.

Jaarbeurs Utrecht is centrally located in the city of Utrecht, close to the city's main railway station "Utrecht Central Station" (on walking distance) and the historical city center.

Meeting venue

Jaarbeurs Utrecht Jaarbeursplein 6 3521 AL Utrecht The Netherlands

Website: http://www.jaarbeurs.nl/en

ISES 2016 will be held in Supernova, part of the Jaarbeurs Utrecht, on the 2nd floor. Enter the Jaarbeurs' main entrance the "Entree Oost", (East entrance) see floorplan. Go up by the escalator, on the first floor you will find the cloak room, on the second floor you will find "Supernova". Please follow the signs "ISES 2016".

Mobile Meeting App

The ISES 2016 Meeting App is available for all registered delegates to download. Search for ISES2016 in the App Store or Google Play. It will install on your device and the icon will appear on your device when the installation is complete.

Note: You may need to enter your App Store Password in order to install. After downloading, login with the email address you used during online registration and password ISES2016.

Public Transportation

How to get to Utrecht

The nearest airport to the city of Utrecht is Schiphol Amsterdam Airport. From Schiphol Amsterdam Airport, there is a direct Intercity Service to Utrecht by train every 15-30 min (travelling time about 30 min., € 8,10 one way). Nearest alternative options, though requiring additional travelling by public transport, are Eindhoven Airport (Eindhoven Airport – Utrecht approx. 2-2.5 hours) and Rotterdam Airport (Rotterdam The Hague Airport – Utrecht approx. 1.5-2 hours).

Utrecht is also very easily accessible by train from surrounding countries: connections with Paris and Brussels are rapid and frequent. Many trains from Germany and the countries beyond Germany stop in Utrecht.

Travelling options to Utrecht from nearest airports

- Schiphol Amsterdam Airport:
- Train: Intercity Service from Amsterdam airport to Utrecht Central Station (Utrecht Centraal)
- Taxi transfer to/from Schiphol Airport will cost you about € 70.
- Eindhoven Airport:
- Bus 401 Eindhoven Airport > Eindhoven railway station
- Train Eindhoven railway station > Utrecht Central Station (Utrecht Centraal)
- Rotterdam The Hague Airport:
 - Bus 33 Rotterdam The Hague Airport > Rotterdam Central Station (Rotterdam Centraal)
 - Train Rotterdam Centraal Station > Utrecht Central Station (Utrecht Centraal)



Planning your journey

You can plan your public transport journey ahead using the following websites: www.ns.nl/en or www.9292.nl/en (incl. train connections)

Due to large infrastructural works around Utrecht, the large number of oneway-streets, and high parking fees, we strongly recommend visitors not to visit the Centre of Utrecht by car.

Travel to Conference venue

ISES2016 will be held in the conference centre of "Jaarbeurs Utrecht", one of Netherlands' largest conference and exhibition centers. Jaarbeurs Utrecht is centrally located in the city of Utrecht, close to the city's main railway station "Utrecht Central Station" (on walking distance) and the historical city center.

Ancillary Meetings

Several ancillary meetings are scheduled during the Annual Meeting.

Meeting	Date	Time	Location
ISES Board Meeting (closed)	Sunday, October 9	09:30 - 17:00	Quest
Student/New Researcher Breakfast Workshop	Monday October 10	07:00 - 08:00	Quest
QIVIVE meeting (closed)	Tuesday October 11	17:30 - 19:30	Quest
UNEP/SETAC Toxicity Workshop (closed)	Tuesday October 11	17:30 - 20:00	Expedition
European Strategy Workshop	Tuesday October 11	17:45 - 19:00	Progress
2017 Kick-Off Meeting	Wednesday, October 12	12:15 - 13:15	Expedition
JESEE Board Meeting (closed)	Wednesday, October 12	12:15 - 13:15	Quest
ISES East Asia Chapter meeting	Wednesday, October 12	12:15 - 13:15	Mission 1
Student/New Researcher Mixer	Wednesday, October 12	17:00 - 17:30	TransitZone



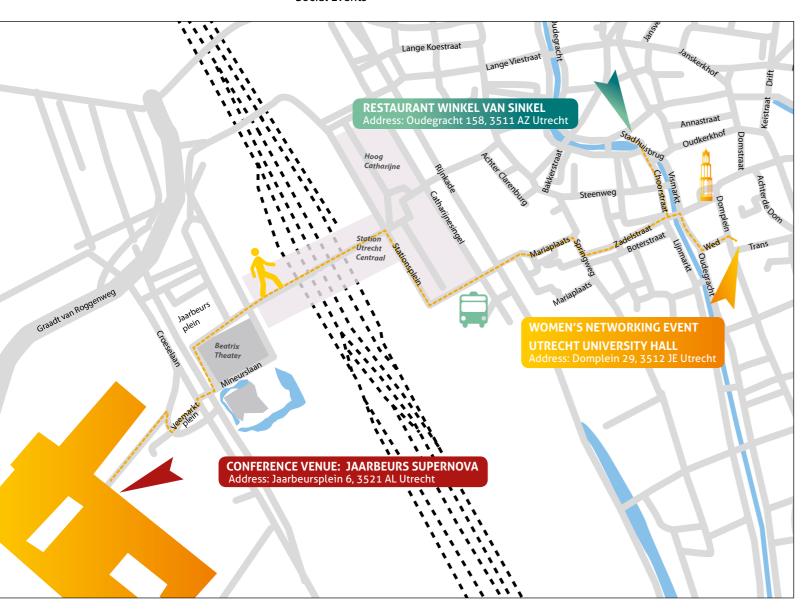




GENERAL INFORMATION GENERAL INFORMATION

Map of Utrecht

Please find below an overview map of Utrecht, including all venues of the Social Events



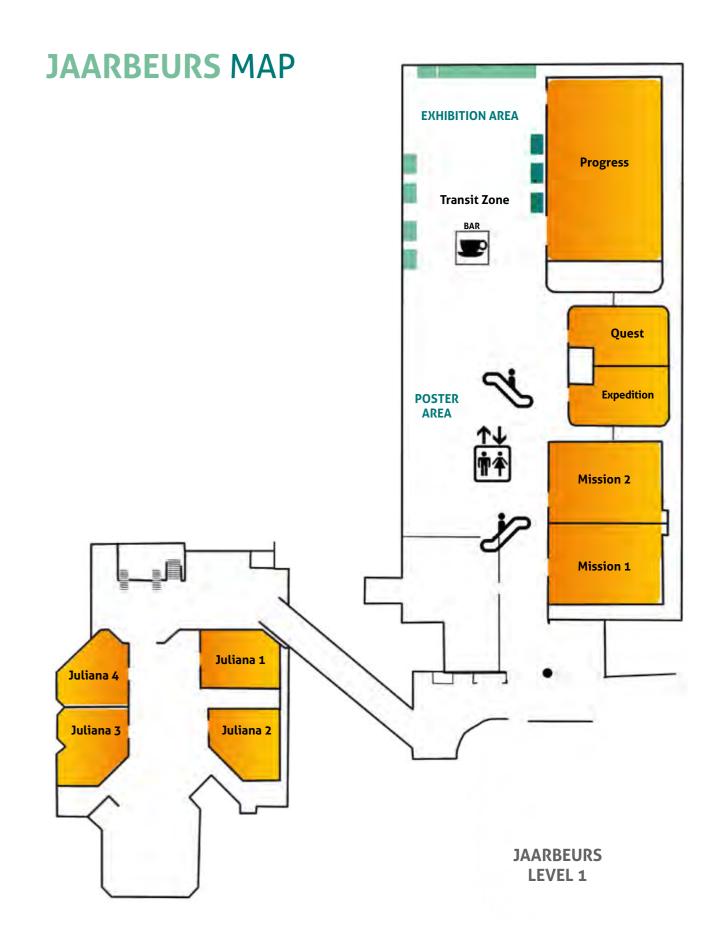
Route information



From the conference venue it is a 20 minute walk to the Winkel van Sinkel and Utrecht University Hall.



Public transport to Women's Networking Event
If you prefer to go by bus, they can take bus route 2 (Museum Line) departing from the central railway station Jaarbeurs. Get off at stop the Dom square (Domplein) and the University Hall is at the left side. By bus it will take you approx. 10 minutes.



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PRESENTER & SESSION CHAIR INSTRUCTIONS

Speaker guidelines

Before ISES 2016, slide kit preparation

We invite you to prepare your presentation using the guidelines mentioned below.

- Generally, oral presentations will consist of 15 minutes of presentation with 3 minutes reserved for questions. In a few cases, oral presentation time slots may be 12 minutes with 3 minutes for questions due to scheduling issues. Please check the final program for your presentation time.
- Prepare your slides in landscape orientation and standard 16:9 format ratio.
- Bring your final presentation on a USB memo stick to the conference venue.

At least two hours before session start

- Report to the Speaker Service Center at the conference venue for your final slide check with the AV technician. Please preview your slides to make sure they appear correctly.
- If you are scheduled to speak in the first session of the day, report to the Speaker Service Center the day before if possible.

10 minutes before session start

- · Meet your session's chairpersons on the podium in the meeting room
- One of the meeting staff will show you how to operate your slides from the lectern
- You cannot use your own laptop for the presentation. Should you require special audio-visual equipment, please contact the Conference Secretariat well in advance.

During the session

- When speaking, make sure to face the microphone for good-quality sound.
- A monitor will show you your slides as they appear on the big screen behind you.
- Session chairs will strictly maintain net speaking times and may interrupt you if in case of a time overrun (see above for time guidelines)
- After your lecture, please stay in the meeting room to participate in subsequent discussions of your lecture topic.

Poster presenter guidelines

1. For proper display at the venue, your poster size should stay within the following maximum dimensions (Portrait):

A0 size - Width: 84,1 cm (33.1 in) Height: 118,9 cm (46.8 in)

- 2. When preparing your poster, use adequate letter type and size to ensure good readability. Well-designed figures, graphs and tables will enhance the attractiveness of your poster.
- 3. Poster boards in the poster area will be numbered by means of the abstract code appearing in the scheduling confirmation sent to you. You will also find your abstract code in the final program on the ISES 2016 website and in the app. We suggest you mention the abstract code on your poster for the convenience of poster viewers.
- The title on your poster should be identical to the title of the corresponding abstract.
- Posters should show the names and affiliations of all contributing authors appearing on the abstract.

- Financial support received for the work described in the poster should be acknowledged in the poster.
- Posters should be mounted on the day your poster is scheduled between 8:00 and 9:00 hrs. Mounting materials will be available in the poster area. Posters should be on display on the scheduling day from 9.00 hrs. until 17:00 hrs.
- 8. The presenting author should be in the vicinity of his/her poster during the poster viewing sessions during the morning and afternoon coffee breaks on the assigned day. Please, check the final program for the poster viewing schedule.
- 9. You are suggested to bring hard copies of your poster as handouts if possible.
- 10. Your poster should be removed from the poster board before 18:00 hrs on the day of your poster session. Posters not removed by the presenters will be removed by the organizers and will be destroyed.
- 11. Posters which are scheduled for presentation at ISES 2016 must be displayed during poster viewing hours unless notification is given two weeks before the meeting. Failure to do so without notice may bar the presenting author from having abstracts accepted at future ISES meetings.

Session Chair/Co-Chair Responsibilities

- Session Chairs/Co-Chairs are to be present in the session room no later than 15 minutes prior to the start of session.
- All presentations have been pre-loaded onto the computer in the session room. Ensure all have been pre-loaded.
- At the beginning of each session, remind the participants (presenters and audience) to place cell phones and pagers on "silent" mode or turn them off.
- Introduce each speaker prior to his/her presentation. In the interest of time, limit introductions to name, job title, and affiliation.
- Oral sessions are 5 talks in 90 minutes (18 minute windows) or 3 talks in 60 minutes (20 minute windows). Actual talks should be limited to 15 minutes.
- In 90 minute sessions, 3 minutes are available for transition/ introduction and questions.
- In 60 minute sessions, 5 minutes are available.
- In a few sessions, an extra talk has been included (6 in a 90 minute session or 4 in a 60 minute session). Please review your session contents before beginning and limit talk times and questions accordingly.
- It is essential that the session be kept on schedule. If a presentation is cancelled, conduct a question/answer period or a discussion portion in the session to fill the remaining time. Alternately, have a break and resume the session at the next scheduled presentation. This allows people to go back-and-forth between parallel sessions.
- Notify the speakers when they have 5 minutes and 1 minute remaining in their presentation. Observe the scheduled breaks and encourage the attendees to view posters during this time.
- A few minutes for questions and answers should be reserved out of the allocated time for each presentation. It is the Session Chair's responsibility to ensure that lengthy discussions occur outside the session.
- Ask the questioner to state his/her name and affiliation. Make sure the question is repeated when there is no floor microphone.

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ISES TRAVEL AWARDS

ISES awarded 14 Travel Awards totalling \$18,000, which enabled students, new researchers, and senior researchers from around the world to attend the meeting. The winners were selected from a pool of 44 qualified applicants. Award criteria included quality of abstract, commitment/enthusiasm for the field of exposure science, financial need, and inclusion of under-represented groups. Award amounts varied, based on travel costs and distances. Travel award recipients may pick up their awards or inquire about award status at the registration desk. Awards were coordinated by the ISES Diversity Committee. ISES congratulates all awardees and encourages members to apply next year!

STUDENTS & NEW RESEARCHERS PROGRAM

The International Society of Exposure Science is committed to the engagement and support of students and early career scientists in the field of exposure science and related disciplines. While the Student and New Researcher (S/NR) Committee works year round to provide resources and opportunities to help you succeed as you start –and progress!- in your career in exposure science (join us on LinkedIn and FaceBook!), the annual meeting presents great opportunities for education, mentorship, and networking, as well as a platform for presentation and discussion of research.

Be sure not to miss out on the following S/NR sponsored events:

ISES 2016 STUDENT AND NEW RESEARCHER EVENTS

ELSEVIER'S "PUBLISHING CONNECT" PRE-CONFERENCE WORKSHOP

Sunday, October 9, 15:00 - 17:00 hrs.

Gain insider knowledge of the publishing process with this FREE workshop from Elsevier! Students and New Researchers attending this workshop will learn techniques and steps that will considerably benefit them as authors in the world of science publishing...and should help them to get their research published more easily. Take advantage of this great opportunity and register today if you haven't already!

STUDENT POSTER COMPETITION

Sunday, October 9, 18:30 - 20:00 hrs.

Practice and improve your critical thinking and oratory skills by presenting your research to judges, peers, and other meeting attendees at the ISES student poster competition. Note that the student poster competition is in addition to each student's presentation (oral or poster) during the regular conference sessions. Prizes are awarded to the top 3 students!

We gratefully acknowledge the contribution of prizes for the Student Poster Competition from the following organizations:

ACGIH® is a not-for-profit 501(c)(3) scientific organization that advances occupational and environmental health. Examples of this include our annual editions of the TLVs® and BEIs® book and work practice guides in ACGIH®'s Signature Publications. Join your colleagues as an ACGIH® General Fund Contributor and support its mission of advancing occupational and environmental health. ACGIH® is exempt from federal income taxation under Section 501(c)(3) of the Internal Revenue Code and contributions tax-deductible, as provided by law.







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STUDENT/NEW RESEARCHER BREAKFAST WORKSHOP

Monday, October 10, 7:00 - 8:00 in the Quest Room

This is an opportunity for S/NR fellowship – though senior exposure scientists are welcome too! – as well as engaging in exposure-science relevant discussions outside of the scope of the conference sessions. This year's topic is one of relevance to attendees the world over: "Social Studies? Exposure Scientists and Social Media". Regardless of whether you are still learning the basics, are already using social media in your research, or are even just using it personally, please come and join in the discussion... or at least join us for pre-plenary coffee and company!

S/NR volunteers will also be available during conference breaks to help attendees set up accounts with various social media platforms... and to help attendees use them. There will be opportunities to take photos/videos too!

STUDENT/NEW RESEARCHER MIXER

Wednesday, October 12, 17:00 - 17:30

The S/NR Committee will host an informal mixer immediately prior to the Exhibitor/Sensors/Committee Fairs. This provides another opportunity for students and new researchers to meet one another and socialize. And, of course, gives us a chance to peruse the Fairs together. Drinks will be provided.

Be sure to stop by the S/NR table at the Committee Fair!

MENTORSHIP MEET-UPS!

Monday, October 10 through Wednesday, October 12, Time Varies by Group

Meet at the Mentorship Meetups Poster Board adjacent to the Opportunities Board

Mentorship Meetups provide an opportunity for students, postdoctoral scholars, new researchers, or anyone new to the field of exposure science to network informally with established exposure scientists while obtaining career advice and meeting new colleagues. The expert for each group will identify a time and a place for an informal meeting (such as lunch or a session break), and interested individuals will have the opportunity to sign up on-site for available slots prior to the meet-up (on a first come, first serve basis). Unless otherwise noted, each group will meet at the Mentorship Meetups Poster before proceeding to their meeting location. Note that new researchers and post-docs are welcome to host graduate students.

STUDENT/NEW RESEARCHER TABLE

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Near Registration, there will be a designated Student/New Researcher Table. Stop by to receive a drink ticket for the S/NR Mixer and to learn more about events specific for Students and New Researchers at the conference. You can also meet with the S/NR Committee leadership and sign up for the S/NR email list (or email snrofises@gmail.com to do so).

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PRE-CONFERENCE COURSES

Sunday, October 9 9:30 – 13:00

Workshop 1A: CONSEXPO

Consumer Product Exposure Assessment Model; and Cumulative and Aggregate Risk Evaluation System (CARES NG)

This workshop will provide an introduction to two models used to assess general population exposures to chemicals in several contexts. Each module will include a hands-on demonstration of some of the model capabilities.

Organizer:

Dutch National Institute for Public Health and the Environment (RIVM) ConsExpo is a computer program that enables and facilitates the estimation and assessment of exposure to substances from consumer products such as paint, cleaning agents and cosmetics. The model was developed by the National Institute for Public Health and the Environment (RIVM). During the ISES conference, the new freely available web version of ConsExpo will be launched and presented. The update of ConsExpo has been executed by RIVM in collaboration with the counterpart institutes ANSES (France), BfR (Germany), BAG (Switzerland) and Health Canada.

The program provides insight to exposure via multiple exposure routes. Users can choose the most appropriate scenario and use default exposure parameters (from a database based on Fact Sheets) or user-specified exposure parameters. The program consists of both screening models and higher tier models for exposure estimation, and is referenced by REACH and other regulatory programs. This introductory course will demonstrate a step-by-step exposure assessment using the new version of ConsExpo.

Organizer:

Giulia Vilone, Cian O'Mahony (Creme Global); Bruce Young, Jennifer Lantz (Bayer) CARES® (Cumulative and Aggregate Risk Evaluation System), is a "state-of-the-science" probabilistic model used to estimate human exposure and risk from multiple sources: food, water, and residential use developed by a multistakeholder non-profit organisation for use in sophisticated exposure assessments for pesticides. Originally developed in 2001, CARES is undergoing a significant upgrade to a cloud-based application containing updated exposure models, databases and functionality. This integrated model contains multiple databases on consumption of food and water, as well as, data on human activity around the home. The CARES NG model will simulate "realistic" exposure from all routes for each individual in a population over a 365-day period. The model is used for assessments submitted to both US EPA and Canada's PMRA, and the updated model addresses the need for advanced probabilistic modeling for aggregate and cumulative assessments. This workshop will provide an overview of the model and provide a hands-on demonstration.

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PRE-CONFERENCE COURSES

Sunday, October 9 9:30 – 13:00

Workshop 2A: US EPA SHEDS-HT

Organizer:

Kristin Isaacs and Kathie Dionisio, U.S. Environmental Protection Agency, National Exposure Research Laboratory

Background and Objectives:

The Stochastic Human Exposure and Dose Simulation Model – High-Throughput (SHEDS-HT) is a U.S. Environmental Protection Agency research tool for predicting screening-level (low-tier) exposures to chemicals in consumer products. This course will present an overview of this model and provide attendees an opportunity to participate in a hands-on tutorial for creating a high-throughput population-based aggregate exposure simulation. The first module will include an overview of the model terminology, algorithms, default input datasets, and model outputs. The second module will include an overview of existing EPA tools for exploring available chemical use and consumer product composition data. The final module will include a hands-on case-study tutorial which will include 1) using the tools described in module 2 to develop inputs for SHEDS-HT for chemicals in a variety of consumer products, and 2) parameterizing SHEDS-HT with these data and running the model to produce population aggregate exposure predictions.

This workshop will also present a tutorial on a new, updated database of consumer product composition and chemical use information. It incorporates new sources of MSDS data, predicted weight fractions from consumer product ingredient lists, and reported and predicted chemical functional uses. It can be used to generate the product input data required for running an aggregate SHEDS-HT prediction for one or more chemicals in over 300 consumer product categories.

Sunday, October 9 9:30 – 13:00

Workshop 3A: INTEGRA

Computational Platform for Assessing the Source-to-Dose Continuum

Organizer:

Professor Denis Sarigiannis^{1,2}, Alberto Gotti^{1,2}, Spyros Karakitsios¹

¹Aristotle University Of Thessaloniki, Thessaloniki, Greece;

²Environmental Health Engineering, Institute for Advanced Study, Pavia, Italy

Background and Objectives:

INTEGRA (Integrated External and Internal Exposure Modelling Platform) is a unified computational platform with the objective of bringing together all available information within a coherent methodological framework for assessing the source-to-dose continuum for the entire life cycle of substances covering an extensive chemical space. This workshop will provide an overview of the software platform with two main components. The first section will address external exposure assessment, with a focus on scenario development, environmental concentration levels in exposure media and foods, integration of exposure pathways and routes, and consideration of demographic variation. The second section will focus on internal exposure assessment. In this section, the role of internal dosimetry for risk assessment will be discussed, including target tissue dose assessment, consideration of multiple routes of exposure, assessing in utero exposure, and use of QSARS to expand the applicability domain. The second section will also address exposure reconstruction based on human biomonitoring data. The third section will include hands-on training on the freely available web-based INTEGRA computational platform, including 3 realistic exposure scenarios assessment, including an exposure reconstruction scenario starting from real-life HBM data.

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PRE-CONFERENCE COURSES PRE-CONFERENCE COURSES

Sunday, October 9 15:00 – 17:00 Workshop 1B:

ECHA Chesar and ECETOC TRA

Organizer:

ECETOC and the European Chemicals Agency

Background and Objectives:

This course will provide an introduction to and hands-on experience with the Targeted Risk Assessment (TRA) tool developed by the European Centre for Ecotoxicology and Toxicology of Chemicals (ECETOC) and its use in the Chemical Safety Assessment and Reporting Tool (Chesar) of the European Chemicals Agency (ECHA). Chesar is a tool developed by the European Chemicals Agency (ECHA) to carry out chemical safety assessment under REACH, to document it for the authorities (Chemical Safety Report) and to communicate the safe conditions of use into the supply chain (Exposure Scenarios to be attached to the Safety Data Sheet).

Background on the development and use of the ECETOC Targeted Risk Assessment tool and Chesar will be presented together with processes and tools known to help improve the efficiency and consistency of TRA and Chesar-based assessments in the context of requirements for reporting under REACH. Participants will receive a memory stick containing the Chesar as a zip file and a data set for carrying out a safety assessment will be provided. Get the opportunity to try Chesar and become familiar with its capabilities and uses.

Sunday, October 9 15:00 – 17:00

Workshop 2B:

Merging Environmental and Human Exposure Assessment: The MERLIN-Expo Tool

Organizer:

Phillipe Ciffroy, Électricité de France; Johan Bierkens, VITO, Belgium

Background and Objectives:

MERLIN-Expo is a library of models that was developed in the frame of the FP7 EU project 4FUN in order to provide an integrated assessment tool for state-of-the-art exposure assessment for environment, biota and humans, allowing the detection of scientific uncertainties at each step of the exposure process. The main challenges in exposure modeling that MERLIN-Expo has tackled are: (i) the integration of multimedia (MM) models simulating the fate of chemicals in environmental media, and of Physiologically based pharmacokinetic (PBPK) models simulating the fate of chemicals in human body and determining internal effective chemical concentrations; (ii) the incorporation of a set of functionalities for uncertainty/sensitivity analysis, from screening to variance-based approaches, and; (iii) the integration of human and wildlife biota targets with common fate modeling in the environment.

MERLIN-Expo is composed of a library of fate models dedicated to non-biological receptor media (surface waters, soils, outdoor air), biological media of concern for humans (several cultivated crops, mammals, milk, fish), as well as wildlife biota (primary producers in rivers, invertebrates, fish) and humans. These models can be linked together to create flexible scenarios relevant for both human and wildlife biota exposure. Models available in the MERLIN-Expo library are implemented on a common 'easy-to-use' and 'difficult-to-abuse' platform to facilitate integrated full-chain assessments for combined exposures. Complex scenarios can thus be built by combining independent modules that are available in the library. Standardized documentation for each model and training material was prepared to support an accurate use of the tool by end-users. More information at: http://merlin-expo.eu/

The objective of the course is demonstrate the principles and capability of the tool and to practice using it on specific case studies related to transfer of contaminants in the environment and biota as well as in human body. The course will be interactive and will allow participants to test the tool on some specific case studies.

Sunday, October 9 15:00 – 17:00

Workshop 3B:

How to Write a Great Research Paper, and Get Published in a Top Journal

Organize

Deirdre Dunne, Environmental Sciences Department, Elsevier, Amsterdam, The Netherlands

Knowing the best way of structuring your paper when writing it, and the most appropriate journal to send it to, really helps in getting your paper accepted. Also understanding how editors and publishers think and what they expect, and knowing how the peer review process works, is invaluable insight into the publishing process.

After attending this workshop, one in the Elsevier Publishing Connect Workshop series, participants will have a clear idea of the steps needed to be taken before starting to write a paper. They will also be able to plan writing manuscripts using the logical step sequence – not the sequence in which the paper will be read. Authors are also made aware of what aspects of their papers Editors and Publishers look at critically, and to ensure that in taking care of these areas, their papers are much more likely to be accepted. Dealing with referees' comments and the art of polite rebuttal are also described such that these can be used to improve the submitted paper suitably. Sensitive areas such as publishing ethics, plagiarism, duplicate publishing, etc are also clearly explained such that participants have a clear understanding of what is allowed, and what is not permitted. These insights into the publishing process will enable the participants to be more confident as an author in the world of science publishing, and will help them get their papers published more easily. Workshop Sponsored by Elsevier – No fee to attend!



ISES 2016 - UTRECHT - THE NETHERLANDS 26 OCTOBER 9-13 2016 ISES 2016 - UTRECHT - THE NETHERLANDS 27 OCTOBER 9-13 2016



Conference Dinner and Party

Winkel van Sinkel:

Monday October 10, 18:30 - 00:00 hrs. Price: € 55,- per ticket (€ 30,- for students)

The Winkel van Sinkel was the first department store opened in the Netherlands. It is located along the Oudegracht canal and near the city hall of Utrecht. Winkel van Sinkel opened in 1839 and you could buy almost anything you wanted. The store was famous throughout the Netherlands and lasted more than fifty years. In 1898 a bank took up residence for over a century. Nowadays Winkel van Sinkel is a grand café and restaurant during the day and transforms into a club at night. The price includes dinner and two drinks.

Coverband Nokiddin

Because of the enthusiastic response, we are extending the dinner with a party with live band starting at 21:00 hrs. If you purchased a ticket to the dinner, the party is included (cash bar available). If you did not purchase a dinner ticket, you can still buy a ticket to the party for € 10,- and join the party. Come and celebrate with your friends and colleagues!

Women's Networking Event

Utrecht University Hall

Tuesday, October 11 from 18:30 - 20:00 hrs.

€ 12,- for students; € 20,- for non-students (Fee includes hors d'oeuvres and the equivalent of a glass of wine).

Who: Women at all career stages from students on up (and anyone committed to the professional development of women).

Join your fellow women exposure scientists to discuss the unique career, work-place, and work-life balance challenges women face, all in a fun, historical environment! We will have open conversation and a "speed-networking" portion.

The event will be held in the Utrecht University Hall, which has rich history and is located in the center of town. The oldest part of the University Hall was completed in 1462 and has been witness of many historical events. The hall was recently renovated and is currently used for academic ceremonies and social events. This space offers the perfect atmosphere to enjoy a glass of wine or your favorite beverage and some light fare while making connections!

Questions: Email Ana Rule (arule1@jhu.edu)

IT/Sensor and Exhibitor Fair

Jaarbeurs Utrecht (conference venue)

Wednesday, October 12 from 17:30 - 19:00 hrs. Included in the registration fee.

The IT/Sensor Fair will provide a forum for researchers and vendors to demonstrate state-of-the-art equipment, software, and services that accomplish can help exposure scientists accomplish their research goals and contribute to our understanding of the link between exposure and public and environmental health. The IT/Sensor Fair will also include all meeting Exhibitors and will be held in conjunction with a Student/New Researcher Mixer and the ISES Committee Fair at an evening reception included for all conference attendees.



ISES Committee Fair

Visit our ISES Committee Fair, to be held in conjunction with the IT/Sensor Fair, to learn about opportunities to volunteer with and support ISES. Representatives from key ISES committees will be on hand to meet participants, provide information, and recruit volunteers. See you there!



The Muiderslot & Naarden tour

Thursday, October 13 from 13:15 - 17:15 hrs. Price: € 61,-

A charming drive through the beautiful lake district of Loosdrecht to Muiden. A visit will be made to the Muiderslot. This medieval castle was originally build in the 13th century for Count Floris V. Nowadays the Muiderslot is used as a museum. Continue to the fortified town of Naarden, shaped like a star with five points, miraculously preserved despite a history of bloody sieges.

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ISES AWARDS

ISES recognizes outstanding scientists with the following awards:

Jerome J. Wesolowski Award

In recognition of outstanding contributions to the knowledge and practice of human exposure assessment:

Dr. Jerome J. Wesolowski was one of the founding members of ISEA and served as a Councilor from 1991 to 1993 and as the liaison with ISEA International Territorial Chapters until his death in 1994. Dr. Wesolowski had a distinguished career in public health. He made many scientific contributions to the understanding of human exposures to environmental pollutants and was dedicated to using that knowledge to improve public health.



Dr. Wolff

Dr. Wolff's career began as a post-doctoral fellow with Dr. Irving Selikoff whom she read about in the New Yorker. His research evolved from asbestos to other occupational and environmental threats during the 1970s. Over several decades at Mount Sinai, her research was connected with traditional occupational medicine. Some of these exposures, including asbestos and lead, became increasingly important as general population exposures. Mainly in clinical studies, both exposure biomarkers and questionnaire metrics were used to assess numerous environmental exposures (PAH, Pb, POPs, PBB, styrene, halothane, pesticides, phenols, phthalates, phytoestrogens, PFCs). In early years, exposures in animals were measured to understand toxicokinetics. Several research projects on lead (Pb) exposure in industry were conducted by the Selikoff team, followed by studies in non-occupational populations and children. Among the exposures studied in the late 20th century were persistent halogenated aromatic agents in Michigan and among workers at the New York General Electrical manufacturing facility (DDT, PCB, PBB and others). Their research defined basic principles of exposure including distribution and sources, adipose:serum ratios, half-lives, and patterns of organochlorine residues in humans, both occupational and common, male vs female, as well as adult and child. In the 1980s, the hormonal potential of these chemicals was realized and the widespread general population exposures were documented. This led to projects in the 1990s to investigate potential risk for organochlorine exposures in relation to breast cancer. She was especially interested in breast cancer in minority women, because of the disparate risk of black women for early onset breast cancer and mortality and their higher exposures to environmental chemicals. After a study showing increased risk of breast cancer with DDE exposure, numerous follow-up studies were null. Realizing that the window of susceptibility for environmental exposures related to breast cancer etiology was out of reach, at least when using biomarkers of exposure, she became interested in intermediate endpoints for breast cancer, in particular puberty which had disparate demographic and environmental attributes similar to those for breast cancer. Also, it became evident that a practical window to study effects of endocrine disruptor exposures was the relatively short interval from conception to early childhood, particularly for exposures measured by biomarkers. Therefore she undertook research on environment and puberty as well as prenatal exposure related to child development. During this time, common exposures such as lead and organochlorines declined to sub-toxic levels. At the same time, new-age exposures were identified as highly prevalent as well as relevant to hormonally sensitive health endpoints. Therefore her research focus shifted to these exposures, leading to the first observations of associations with childhood behavior, birth size, and somatic growth as well as pubertal onset. She continues to emphasize the importance of appropriate use of exposure biomarkers, and to urge researchers to avoid inappropriate application of technologically feasible measurements, noting that as chemicals can be measured at lower and lower levels, it is important to consider relevance to health.

Constance L. Mehlman Award

In recognition of outstanding contributions in exposure analysis research that helped shape a national or state policy or that provided new approaches for reduction or prevention of exposures

Myron Mehlman, the Society's first President and former managing editor of the *Journal of Exposure Analysis and Environmental Epidemiology*, endowed a new ISEA award in 1999 in honor of his late wife, Constance Mehlman, an environmental attorney.

Philip Karl Hopke

Bayard D. Clarkson Distinguished Professor Emeritus, Institute for a Sustainable Environment and Department of Chemical and Biomolecular Engineering, Clarkson University, Potsdam, NY and Adjunct Professor, Department of Public Health Sciences, University of Rochester School of Medicine and Dentistry, Rochester, NY

Philip Hopke took his first sample of airborne particulate matter in Boston in June 1969 and has been studying environmental chemistry, aerosol science, and exposure science ever since. He formally became involved with exposure science when he served on the NAS Committee on Advances in Assessing Human Exposure to Airborne Pollutants and has served on many other NAS committees. He has served as member and chair of EPA's Clean Air Scientific Advisory Committee and a number of other state and national committees. His recent work has been on the problem of carbon monoxide emissions from stored wood pellets. A number of deaths have been reported in Europe associated with entering areas with stored wood pellets that had very high carbon monoxide concentrations. Beginning in 2008, the New York State Energy Research and Development Authority (NYSERDA) has been facilitating the introduction of European-designed high efficiency, low emission wood pellet boilers into New York. However, the reports of high CO concentrations raised concerns. Thus, Hopke initiated a monitoring program in which CO measurements were made in the two bins on the Clarkson campus, an external silo at an elementary school, an internal bin at a middle school, a shipping container converted to a pellet bin at a natural history museum, and a residential basement. Concentrations in the silo were exceeded the 50 ppm OSHA limit for 8-hour exposures and thus, this silo and other bins in commercial settings need to be treated as confined spaces. Subsequently, Clarkson has provided several confined space training sessions so that the operators of facilities with pellet bins can be in compliance with the OSHA regulations. In the residence, there is a 10-ton bag type bin in the basement of the home and 8-hour concentrations as high as 44 ppm were observed. These values are well above the 9 ppm guidance level set by ASHRAE. Thus, stored pellets can cause high exposures although the observed concentrations are well below the lethal level. VOCs including terpenes and carbonyls were also observed in relatively high concentrations. Thus, Phil and his group have worked to identify the mechanism of CO formation and they have recently published those results. They have also found that exposing the sawdust to ozone before pelleting it reduces the off-gassing to essentially zero. Studies are currently underway to modify the pellet production process to substantially reduce or eliminate the off-gassed pollutants. Phil has a B.S. (1965) from Trinity College (Hartford), A.M. (1967) and Ph.D. (1969) from Princeton University and was a post-doctoral associate at M.I.T. (1969-70).



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Joan Daisey Award

Joan M. Daisey Outstanding Young Scientist Award to recognize outstanding contributions to the science of human exposure analysis by a young scientist. Joan Daisey was a founding ISEA member and past president (1995-1996), continuing to be active until her death in 2000. Daisey was senior staff scientist at the U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) and one of the nation's leading experts on indoor air quality.



Marc-André Verner

Assistant Professor in the Department of Occupational and Environmental Health, School of Public Health, Université de Montréal (Canada) and member of the Université de Montréal Public Health Research Institute (IRSPUM).

Marc-André Verner's research projects focus mostly on physiologically based pharmacokinetic (PBPK) modeling and quantitative structure-property relationships (QSPR) to evaluate developmental exposure to environmental chemicals in the womb and postnatally through breastfeeding. His background in both toxicology and environmental epidemiology led him to pioneer the use of PBPK modeling in epidemiologic studies, an approach that allowed reconstructing complete exposure profiles and investigating the effects of chemicals during different windows of vulnerability. He earned his Ph.D. in Biology from the Université du Québec à Montréal (Canada). During his Ph.D., Marc developed PBPK models of persistent organic pollutants to refine exposure assessment in epidemiologic studies of breast cancer and developmental neurotoxicity. After completing his Ph.D., he continued working on PBPK modeling during his postdoctoral training at the Karolinska Institutet in Sweden. He then moved to Boston (USA) to do a second postdoctoral training in environmental epidemiology at the Harvard Medical School/Brigham and Women's Hospital. Over the years, Marc has authored and co-authored approximately 25peer-reviewed papers and received numerous awards for his innovative work in environmental health.

IPA/DGUV Award for Young Exposure Scientists

To foster research in exposure areas with linkages to biomonitoring for superior doctoral students working on their dissertation or superior first-year post-doctoral exposure scientists.

The award from the DGUV* Institute for Prevention and Occupational Medicine (IPA) was created to represent its high regard for the work of Professor Jüergen Angerer in furthering biomonitoring in exposure sciences in Europe and the rest of the world.



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Marissa G. Baker
PhD candidate and predoctoral fellow at the University of Washington

Marissa Baker's doctoral work focuses on using whole blood, plasma, and urine metabolomics methods to investigate biochemical differences between workers exposed and unexposed to manganese in hopes of identifying putative biomarkers of manganese exposure. Prior to entering the PhD program, Marissa worked as a Research Scientist at the University of Washington managing a longitudinal cohort study assessing common biomarkers of manganese exposure and response in an inception cohort of student welders. Outside of manganese and metalworking, Marissa's research interests include the use of biological monitoring to characterize the exposome, shift work, and the development of novel methods of exposure. She also completed her M.S. in Environmental and Occupational Exposure Sciences at the University of Washington. Prior to coming to graduate school, Marissa received her B.A. from Northwestern University in Evanston, IL

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PLENARY SESSIONS

Water as integrator of uses, stakes and exposures

Sunday, October 9 17:30 - 18:30

Annemarie van Wezel, Copernicus Institute of Sustainable Development, Utrecht, The Netherlands

Dr. Annemarie van Wezel (MSc Biology, PhD environmental chemistry and toxicology) has over 20 years of experience as scientific researcher in toxicology and chemistry, risk assessment, cost-benefit analysis and environmental policy evaluation. She published 45 papers in peer-reviewed scientific journals, and numerous reports in the context of (environmental) policy. She is experienced in working close to the political process and in interaction with press. She has many years experience in managing complex interdisciplinary research projects. She is well-experienced in successfully managing and building research groups up to ca. 60 people. She is serving as a program director on Environmental risks of nanochemicals (7,5 Meuro) in the FES funded NanonextNL, and leads the consortium 'Shalegas and Water' funded by NWO/ALW and water utilities. She is a member of the Dutch Board on authorization of plant protection products and biocides, and member of the Signaling committee for Environment and Health of the Dutch Health Council. She is member of the editorial board of Reviews of Environmental Contamination and Toxicology. She is serving as a chair (by picket) for the Crisis Expert Team for environmental and drinking water incidents. She currently serves as a principal scientist and as professor on Water quality and health at KWR Watercycle Research Institute and Utrecht Universities' Copernicus Institute.

Respiratory health effects and livestock farming related to microbial and dust exposure

Monday, October 10 08:00 - 09:00

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Dick Heederik, Utrecht University, Institute for Risk Assessment Sciences, Utrecht, The Netherlands

Prof Dick Heederik (PhD) began his work in exposure science while completing his doctorate (1990) in Environmental Hygiene at Wageningen University in the Netherlands. He has been a visiting scientist at the Institute of Occupational Medicine in Edinburg, Scotland, the Division of Respiratory Disease studies of NIOSH, Morgantown, USA, and joined the Occupational Hygiene Program of the University of British Columbia, Vancouver, Canada for a one year period with a Talent Stipend of the Dutch Governmental Research Council. In 2000 he joined the Institute for Risk Assessment Sciences at Utrecht University and became professor for Health Risk Analysis. Most of his research focussed on exposure assessment to (bio-)aerosols and respiratory effects. He recently coordinated studies focussing on environmental bio-aerosol exposure from livestock production and health risk in a large epidemiological research programme.

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The DODY (Deatische desetzitche Onjuttiversicherung - German Social Accident insurance)

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^{*} The DGUV (Deutsche Gesetzliche Unfallversicherung - German Social Accident Insurance)

PLENARY SESSIONS PROGRAM

Tuesday, October 11 08:00 - 09:00

The exposome: moving from concept to reality

Chris Wild, International Agency for Research on Cancer (IARC), Lyon, France

Christopher Paul Wild obtained his PhD in 1984 from the University of Manchester, UK. He subsequently had post-doctoral training fellowships from the International Agency for Research on Cancer (IARC) and the Netherlands Cancer Institute. In 1987 Dr Wild re-joined IARC as a staff scientist and was Chief of the Unit of Environmental Carcinogenesis. In 1996 he was appointed to the Chair of Molecular Epidemiology at the University of Leeds and later became Director of the Leeds Institute of Genetics, Health and Therapeutics. Dr Wild was elected Director of IARC from 1st January 2009. His main research interest is to understand the interplay between environmental and genetic risk factors in the causation of human cancer.

Thursday, October 13 08:00 - 09:00

Potential of metabolomics in chemical risk analysis

Gaud Dervilly Pinel, LABERCA, Nantes, France

Dr Gaud Dervilly-Pinel obtained her PhD in Food Science in 2001. Since 2002 she is working as a researcher at LABERCA (French National Reference Laboratory for growth promoters and environmental chemical contaminants in food); her research activity is devoted to Chemical Food Safety issues. She acts as Scientific Advisor in the laboratory and is responsible for the management of research projects related to the modelling of contaminants transfer along the food chain and the evaluation of consumer's chemical exposure. She has contributed to significant advances in the detection of chemical residues of illicit compounds in food related matrices, as well as to the establishment of criteria to distinguish between situations of frauds and natural occurrence of certain substances (natural steroid hormones ...); in 2012 she received the EuroResidue Award for her contribution to this field. In 2009 she obtained a second PhD in Analytical Chemistry dedicated to Food Safety issues. Her competences have then enlarged to environmental contaminants and from targeted mass spectrometric approaches to more global and untargeted strategies, such as metabolomics, to study the effects of chemical exposure and related biomarkers discovery, in a risk assessment perspective. She is author or co-author of more than 65 peer reviewed papers in the field. She also teaches at the academic level at Nantes University (France) and is regular lecturer at SARAF (School for Advanced Residue Analysis) and VLAG (Wageningen University, NL)

We gratefully acknowledge the contribution for the Plenary Sessions from the following organizations







PROGRAM (including poster sessions)

SUNDAY, OCTOBER 9, 2016

09:30 - 17:00	ISES Board Meeting (closed)
09:30 - 13:00	Workshop 1A: CONSEXPO (RIVM) & CARES NG
09:30 - 13:00	Workshop 2A: SHEDS-HT
09:30 - 13:00	Workshop 3A: INTEGRA
13:30 - 17:00	Workshop 1B: ECECTOC & TRA/ECHA Chesar
13:30 - 17:00	Workshop 2B: MERLIN-Expo
15:00 - 17:00	Workshop 3B: How to Write a Great Research Paper and Get Published in a Top Journal
17:30 - 18:45	Welcome, Opening and Plenary Address 1: Water as integrator of uses, stakes and exposures Annemarie van Wezel, Copernicus Institute of Sustainable Development, Utrecht, The Netherlands
18:45 - 20:00	Welcome Reception and Student Poster Competition
MOND	OAY, OCTOBER 10, 2016
07:00 - 08:00 08:00 - 09:00	Student/New Researcher Breakfast Workhop: Social Studies? Exposure Scientists and Social Media Plenary Address 2: Respiratory health effects and livestock farming related to microbial and dust exposure
	Dick Heederik, Utrecht University, Institute for Risk Assessment Sciences, Utrecht, The Netherlands

09:00 - 10:30 Mo-SY-A1 Harmonization, access, transparency: improving environmental epidemiology for public health decision-making - I

Chair: Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States Chair: Donald Mattison, Risk Sciences International and McLaughlin Centre for Population Health Risk Assessment, University of Ottawa, Ottawa, Canada

09:00 - 09:18 Mo-SY-A1.1 Concordance, transparency, and access: Why do we need these in exposure science and health outcome research?

Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States

09:18 - 09:36 Mo-SY-A1.2 Combining large datasets on exposure and health outcome evolution of environmental epidemiology

Donald Mattison, Risk Sciences International and McLaughlin Centre for Population Health Risk Assessment, University of Ottawa, Ottawa, Canada

09:36 - 09:54 Mo-SY-A1.3 Lessons learned from registration of clinical studies, past to the present

Michael Goodman, Emory University Rollins School of Public Health, Atlanta, GA, United States

09:54 - 10:30 Mo-SY-A2.1 Ensuring harmonized and comparable laboratory measurements to improve public health programs

Hubert Vesper, Centers for Disease Control and Prevention/National Center for Environmental Health, Atlanta, GA, Un

09:00 - 10:30 Mo-SY-B1 Targeted activities for improving workplace exposure assessments Chair: Jan Urbanus, Shell (c/o Belgian Shell NV), Brussels, Belgium

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09:00 - 09:18 Mo-SY-B1.1 ECETOC TRA FOR WORKERS: Lessons learned from its use under reach Dook Noij, Dow Benelux, Terneuzen, The Netherlands

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MONDAY, OCTOBER 10, 2016

09:18 - 09:36	Mo-SY-B1.2 Describing the effectiveness of sector specific exposure controls
	Susanne Hesse, Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, Germany
09:36 - 09:54	Mo-SY-B1.3 Can worker dermal exposure predictions be improved based on current data sets?
	Jody Schinkel, TNO, Zeist, The Netherlands
09:54 - 10:12	Mo-SY-B1.4 How can worker exposure models be comprehensively validated? Implications of the
	ETEAM project results
	Urs Schlueter, BAuA - Federal Institute for Occupational Safety and Health, Dortmund, Germany
10:12 - 10:30	Mo-SY-B1.5 Re-thinking strategies for improving exposure assessments
	Chris Money, Cynara Consulting, Brockenhurst, United Kingdom
09:00 - 10:30	Mo-SY-C1 Intermittent Exposure in Risk Assessment
2,100 _0.50	Chair: Wouter ter Burg, RIVM, Bilthoven, The Netherlands
09:00 - 09:18	Mo-SY-C1.1 Introduction to intermittent exposure and examples from regulatory risk assessment of
0).00 0).10	consumer exposure situations
	Friederike Neisel, Federal Institute for Risk Assessment, Berlin, Germany
09:18 - 09:36	Mo-SY-C1.2 Setting typical intermittent or peak exposure profiles, focusing on consumer non-food
	and dietary exposure
	Wouter ter Burg, RIVM, Bilthoven, The Netherlands
09:36 - 09:54	Mo-SY-C1.3 Application of Habers rule, mode of action and role of toxicokinetics
	Wouter ter Burg, RIVM, Bilthoven, The Netherlands
09:54 - 10:12	Mo-SY-C1.4 Less than lifetime exposures to pesticide residues might need a risk assessment
	Jürg Zarn, Federal Food Safety and Veterinary Office (FSVO), Bern, Switzerland
00:00 10:70	Ma CV D4 From outcomel to internal companion the magazity of toyical instinction
09:00 - 10:30	Mo-SY-D1 From external to internal exposure: the necessity of toxicokinetic information Chair: Peter Bos, RIVM, Bilthoven, The Netherlands
09:00 - 09:18	Mo-SY-D1.1 Introduction to kinetics as connector of external and internal dose: importance for risk
	assessment
	Peter Bos, RIVM, Bilthoven, The Netherlands
09:18 - 09:36	Mo-SY-D1.2 The importance of information on toxicokinetics for human health risk assessment:
	specific issues for inhalation exposure
	Liesbeth Geraets, RIVM - National Institute for Public Health and the Environment, Utrecht, The
00:76 00:54	Netherlands
09:36 - 09:54	Netherlands Mo-SY-D1.3 Toxicokinetics for the oral route: human risk assessment of chemicals and food safety
	Netherlands Mo-SY-D1.3 Toxicokinetics for the oral route: human risk assessment of chemicals and food safety Jean Lou Dorne, EFSA, Parma, Italy
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09:54 - 10:12 10:12 - 10:30 09:00 - 10:30 09:00 - 09:18 09:18 - 09:36 09:36 - 09:54	Mo-SY-D1.3 Toxicokinetics for the oral route: human risk assessment of chemicals and food safety Jean Lou Dorne, EFSA, Parma, Italy Mo-SY-D1.4 Dermal Exposure Special Considerations Ursula Gundert-Remy, Retired, Berlin, Germany Mo-SY-D1.5 Kinetic Issues when Performing Biomonitoring Lisbeth E. Knudsen, University of Copenhagen, Copenhagen, Denmark Mo-SY-E1 Exposure to atmospherically dispersed hazards: assessment, public information and perspectives - I Chair: Ronald Hoogerbrugge, RIVM, Bilthoven, The Netherlands Mo-SY-E1.1 Exposure maps for NO2 and Particulate Matter in the Netherlands; spatial resolution versus temporal resolution Joost Wesseling, National Institute for Public Health and the Environment, Bilthoven, The Netherlands Mo-SY-E1.2 Air Quality Impact Assessement for Ringland Bino Maiheu, Flemish Institute for Technological Research, VITO nv, Mol, Belgium Mo-SY-E1.3 Chinas revised air quality index (AQI) compared to other AQI-s. Exposure and communication aspects of AQI design. Sef van den Elshout, DCMR Environmental Protection Agency Rijnmond, Schiedam, The Netherlands
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MONDAY, OCTOBER 10, 2016

09:00 - 10:30	Mo-SY-F1 Extending participatory sensing to personal exposure and policy support - I Chair: Luc Dekoninck, University of Ghent, Ghent, Belgium Chair: Stefan Reis, Centre for Ecology & Hydrology, Edinburgh, United Kingdom
09:00 - 09:18	Mo-SY-F1.1 Integrating low-cost sensor and model data to improve the assessment of personal exposure to air pollution in the urban-rural nexus. Stefan Reis, Centre for Ecology & Hydrology, Edinburgh, United Kingdom
09:18 - 09:36	Mo-SY-F1.2 The challenges of developing reliable air pollution exposure surfaces using ad-hoc participatory sensing data Laura Minet, McGill University, Montreal, Canada
09:36 - 09:54	Mo-SY-F1.3 Participant Use of Wireless Sensing Technologies in an Exposure Study Miranda Loh, Institute of Occupational Medicine, Edinburgh, United Kingdom
09:54 - 10:12	Mo-SY-F1.4 High resolution modeling of instantaneous personal exposure to traffic related Black Carbon using noise exposure as a proxy for traffic Luc Dekoninck, University of Ghent, Ghent, Belgium
10:12 - 10:30	Mo-SY-F1.5 On the use of smart phones to promote healthy and sustainable behaviors Audrey de Nazelle, Imperial College London, London, United Kingdom
09:00 - 10:30	Mo-SY-G1 Wastewater-based epidemiology (WBE) - from measuring illicit drug use towards understanding population health status - I Chair: Foon Yin Lai, University of Antwerp, Antwerp, Belgium
	Chair: Foon Fin Edi, University of Antwerp, Antwerp, Belgium Chair: Sara Castiglioni, Mario Negri Institute, Milan, Italy
09:00 - 09:18	Mo-SY-G1.1 Introduction to wastewater-based epidemiology: novelty and advancements of the approach Sara Castiglioni, Mario Negri Institute, Milan, Italy
09:18 - 09:36	Mo-SY-G1.2 5 years of flushing out drug use with sewage-based epidemiology Kevin Thomas, Norwegian Institute for Water Research (NIVA), Oslo, Norway
09:36 - 09:54	Mo-SY-G1.3 Integration of wastewater-based epidemiology in the national drug monitoring system of various countries Frederic Been, University of Antwerp, Antwerp, Belgium
09:54 - 10:12	Mo-SY-G1.4 Bridging the fields of wastewater-based epidemiology with classical epidemiology Sara Castiglioni, Mario Negri Institute, Milan, Italy
10:12 - 10:30	Mo-SY-G1.5 A modelling approach to estimate the number of people contributing to a wastewater sample using population biomarkers Jake O'Brien, University of Queensland, Brisbane, Qld., Australia
09:00 - 10:30	Mo-SY-H1 Advances in consumer exposure assessment - I Chair: Tatsiana Dudzina, ЕххопМовіl Biomedical Science Inc., Brussels, Belgium Chair: Christiaan Delmaar, RIVM, Bilthoven, The Netherlands
09:00 - 09:18	Mo-SY-H1.1 ConsExpo Web Introduction of Updated Tools for Consumer Exposure Assessment Christiaan Delmaar, RIVM, Bilthoven, The Netherlands
09:18 - 09:36	Mo-SY-H1.2 Overview of Consumer Exposure Model (CEM) Updates Cathy Fehrenbacher, U.S. Environmental Protection Agency, Washington, DC, United States
09:36 - 09:54	Mo-SY-H1.3 Effect of Varying Vapor Pressure Bands on Inhalation Exposure in REACH Consumer Exposure Modelling Tools Hua Qian, EMBSI, Annandale, VA, United States
09:54 - 10:12	Mo-SY-H1.4 Framework for Human Health Risk Assessment of Noncancer Effects Resulting from Short-duration and Intermittent Exposures to Chemicals Bette Meek, McLaughlin Centre for Risk Science, Ottawa, ON, Canada
10:12 - 10:30	Mo-SY-H1.5 Exploring Online Global Resources Useful for Consumer Exposure Assessments Rosemary Zaleski, ΕχκοηΜορίι Biomedical Sciences, Annandale, NJ, United States
09:00 - 10:30	Mo-PL-I1 Transportation Related Air Pollution - I Chair: Lovisa Romanoff, Center's for Disease Control and Prevention, Atlanta, GA, United States
09:00 - 09:18	Mo-PL-I1.1 Identifying and Quantifying Airport-related Impacts on Ambient Particle Number Concentrations in Boston Area Neelakshi Hudda, Tufts University, Medford, MA, United States

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09:18 - 09:36 09:36 - 09:54	Mo-PL-I1.2 Methods to Improve Traffic Flow and Noise Exposure Estimation on Minor Roads David Morley, Imperial College London, London, United Kingdom Mo-PL-I1.3 Commuting Patterns and Estimated Air Pollutant Exposures in the Rutgers Commuter Community Cohort (RC3) Study Robert Laumbach, Rutgers School of Public Health, Piscataway, NJ, United States
09:54 - 10:12	Mo-PL-I1.4 The Influence of Gas Price on Near-Road Air Quality Timothy Buckley, U.S. Environmental Protection Agency Office of Research & Development, Research Triangle Park, NC, U
10:12 - 10:30	Mo-PL-I1.5 Have urban traffic limitations influence on air quality? Ario Alberto Ruprecht, Fondazione IRCCS Istituto Nazionale dei Tumori and Italian College GPs SIMG, Milan, Italy
10:30 - 11:00	Poster viewing & Break - TransitZone
11:00 - 12:00	Mo-SY-A2 Harmonization, access, transparency: improving environmental epidemiology for public health decision-making - II Chair: Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States Chair: Donald Mattison, Risk Sciences International and McLaughlin Centre for Population Health Risk Assessment, University of Ottawa, Ottawa, Canada
11:00 - 11:20	Mo-SY-A1.5 Inclusion of citizen science and atypical environmental data in support of environmental health decision-making Aubrey Miller, National Institutes of Health, Bethesda, MD, United States
11:20 - 11:40	Mo-SY-A2.2 Opportunities from (U.S.) National Library of Medicine (NLM) to Identify, Access, Share, and Discuss information Aubrey Miller, National Institutes of Health, Bethesda, MD, United States
11:40 - 12:00	Mo-SY-A2.3 Panel Discussion Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States
11:00 - 12:00	Mo-SY-B2 Firefighters and Chemical Exposures: Protection Under Fire Chair: Jeff Burgess, University of Arizona, Tucson, AZ, United States
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11:00 - 11:20 11:20 - 11:40	Chair: Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.1 Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.2 Firefighters' Unique Exposure Profiles Kenneth Fent, National Institute for Occupational Safety and Health, Cincinnati, OH, United States
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11:00 - 11:20 11:20 - 11:40 11:40 - 12:00	Chair: Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.1 Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.2 Firefighters' Unique Exposure Profiles Kenneth Fent, National Institute for Occupational Safety and Health, Cincinnati, OH, United States Mo-SY-B2.3 Analysis of Combustion Byproducts in Fire Fighter urine using Mass Spectrometry and Bioassays Christiane Hoppe-Jones, University of Arizona, Tucson, AZ, United States Mo-SY-C2 Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure-response relationships for risk assessment - I Chair: Michelle Embry, ILSI Health and Environmental Sciences Institute, Washington, DC, United States Chair: Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Chair: Todd Gouin, Unilever, Sharnbrook, United Kingdom Mo-SY-C2.1 Utilizing mass balance modeling for the assessment of internal exposure in cell-based bioassays
11:00 - 11:20 11:20 - 11:40 11:40 - 12:00 11:00 - 12:00	Chair: Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.1 Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.2 Firefighters' Unique Exposure Profiles Kenneth Fent, National Institute for Occupational Safety and Health, Cincinnati, OH, United States Mo-SY-B2.3 Analysis of Combustion Byproducts in Fire Fighter urine using Mass Spectrometry and Bioassays Christiane Hoppe-Jones, University of Arizona, Tucson, AZ, United States Mo-SY-C2 Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure-response relationships for risk assessment - I Chair: Michelle Embry, ILSI Health and Environmental Sciences Institute, Washington, DC, United States Chair: Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Chair: Todd Gouin, Unilever, Sharnbrook, United Kingdom Mo-SY-C2.1 Utilizing mass balance modeling for the assessment of internal exposure in cell-based bioassays Luise Henneberger, UFZ Mo-SY-C2.2 Simulating the distribution and kinetics of neutral organic chemicals in in vitro test systems
11:00 - 11:20 11:20 - 11:40 11:40 - 12:00 11:00 - 12:00	Chair: Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.1 Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management Jeff Burgess, University of Arizona, Tucson, AZ, United States Mo-SY-B2.2 Firefighters' Unique Exposure Profiles Kenneth Fent, National Institute for Occupational Safety and Health, Cincinnati, OH, United States Mo-SY-B2.3 Analysis of Combustion Byproducts in Fire Fighter urine using Mass Spectrometry and Bioassays Christiane Hoppe-Jones, University of Arizona, Tucson, AZ, United States Mo-SY-C2 Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure-response relationships for risk assessment - I Chair: Michelle Embry, ILSI Health and Environmental Sciences Institute, Washington, DC, United States Chair: Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Chair: Todd Gouin, Unilever, Sharnbrook, United Kingdom Mo-SY-C2.1 Utilizing mass balance modeling for the assessment of internal exposure in cell-based bioassays Luise Henneberger, UFZ Mo-SY-C2.2 Simulating the distribution and kinetics of neutral organic chemicals in in vitro test

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11:00 - 12:00	Mo-SY-D2 15 years of Human Biomonitoring in Flanders: surveillance feeding policy and research - I Chair: Nathalie Lambrechts, VITO, Mol, Belgium Chair: Karen Van Campenhout, Flemish Government, Brussels, Belgium
11:00 - 11:20	Mo-SY-D2.1 Human biomonitoring studies in Flanders to support policy action Maja Mampaey, Flemish government, Brussels, Belgium
11:20 - 11:40	Mo-SY-D2.2 Human exposure trends in Flanders: 15 years of human biomonitoring Greet Schoeters, VITO, MOL, Belgium
11:40 - 12:00	Mo-SY-D2.3 Determinants of exposure to POPs and pesticides in the Flemish population Kim Croes, Vrije Universiteit Brussel, Brussels, Belgium
11:00 - 12:00	Mo-SY-E2 Exposure to atmospherically dispersed hazards: assessment, public information and perspectives - II Chair: Ronald Hoogerbrugge, RIVM, Bilthoven, The Netherlands
11:00 - 11:15	Mo-SY-E2.1 Assessment of exposure to vapour from plant protection products around treated fields Cor Jacobs, Alterra Wageningen UR, Wageningen, The Netherlands
11:15 - 11:30	Mo-SY-E2.2 Dynamic Assessment of Exposure to Air Pollution Using Mobile Phone Data Stijn Janssen, Ghent University, Ghent, Belgium
11:30 - 11:45	Mo-SY-E2.3 The value of citizen air pollution measurements for participants, NGOs and science: the 'Together for Healthy Air' campaign in the Netherlands Joost Wesseling, National Institute for Public Health and the Environment, Bilthoven, The Netherlands
11:45 - 12:00	Mo-SY-E2.4 Atmospheric measurements: do it yourself, do it together! Hester Volten, RIVM, Bilthoven, The Netherlands
11:00 - 12:00	Mo-SY-F2 Extending participatory sensing to personal exposure and policy support - II Chair: Luc Dekoninck, University of Ghent, Ghent, Belgium Chair: Stefan Reis, Centre for Ecology & Hydrology, Edinburgh, United Kingdom
11:00 - 11:20	Mo-SY-F2.1 High-resolution Characterization of the Spatial Variability of Traffic Related Air Pollution Exposure at the Neighbourhood Scale Kerolyn Shairsingh, University of Toronto, Toronto, Canada
11:20 - 11:40	Mo-SY-F2.2 Extending Participatory Sensing to Personal Exposure Assessments using Microscopic Land Use Regression Models Luc Dekoninck, University of Ghent, Ghent, Belgium
11:40 - 12:00	Mo-SY-F2.3 What can health policy learn from personal exposure measurements? Luc Int Panis, VITO, Mol, Belgium
11:00 - 12:00	Mo-SY-G2 Wastewater-based epidemiology (WBE) - from measuring illicit drug use towards understanding population health status - II Chair: Sara Castiglioni, Mario Negri Institute, Milan, Italy Chair: Foon Yin Lai, University of Antwerp, Antwerp, Belgium
11:00 - 11:20	Mo-SY-G2.1 Wastewater-based Epidemiology to Track Down the Actual Use of New Psychoactive Substances: Challenges and Recommendations Alexander van Nuijs, University of Antwerp, Antwerp, Belgium
11:20 - 11:40	Mo-SY-G2.2 Using wastewater-based epidemiology to monitor population alcohol and tobacco use Foon Yin Lai, University of Antwerp, Antwerp, Belgium
11:40 - 12:00	Mo-SY-G2.3 Future perspectives for wastewater-based epidemiology: Testing urban water for community-wide public health assessment Adrian Covaci, University of Antwerp, Wilrijk-Antwerp, Belgium
11:00 - 12:00	Mo-SY-H2 Advances in consumer exposure assessment - II Chair: Tatsiana Dudzina, ЕххопМовіl Biomedical Science Inc., Brussels, Belgium Chair: Christiaan Delmaar, RIVM, Bilthoven, The Netherlands
11:00 - 11:20	Mo-SY-H2.1 Effective Use of Human Exposure Data for Aggregate Consumer Exposure Assessment Sarah Tozer, Procter & Gamble, Egham, United Kingdom

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11:20 - 11:40	Mo-SY-H2.2 Development of a Harmonized Database of Reported and Predicted Consumer Product Ingredient Information Kristin Isaacs, US EPA, Research Triangle Park, NC, United States
11:40 - 12:00	Mo-SY-H2.3 The Application of Specific Consumer Exposure Determinants (SCEDs) to Refine Consumer Exposure Estimates
	Namali Corea, SC Johnson, Frimley Green, United Kingdom
11:00 - 12:00	Mo-PL-I2 Transportation-Related Air Pollution - II Chair: Yvonne de Kluizenaar, TNO, Delft, The Netherlands
11:00 - 11:20	Mo-PL-I2.1 Personal exposure monitoring of UFP in different micro-environments Yvonne de Kluizenaar, TNO, Delft, The Netherlands
11:20 - 11:40	Mo-PL-12.2 Increased oxidative potential of fine particulate matter (PM2.5) in major freeways of Los Angeles, CA
11:40 - 12:00	Constantinos Sioutas, University of Southern California, Los Angeles, CA, United States Mo-PL-I2.3 Sources of Quasi-Ultrafine, Fine and Coarse Particulate Matter in the Southern California Childrens Health Study Communities Rima Habre, University of Southern California, Los Angeles, CA, United States
12:00 - 14:00	Lunch - TransitZone
12:45 - 13:30	Awards Ceremony and RIVM ConsExpo Announcement
14:00 - 15:30	Mo-SY-A3 Multiple route exposure to multiple chemicals, the cocktail effect Chair: Jacob van Klaveren, RIVM, Bilthoven, The Netherlands
14:00 - 14:22	Mo-SY-A3.1 Dietary exposure assessment to mixtures of pesticides and other substances Corinne Sprong, RIVM, Bilthoven, The Netherlands
14:22 - 14:44	Mo-SY-A3.2 Aggregate exposure to pesticides from dietary and non-dietary exposure: A UK case study for residents, bystanders and spray operators Marc Kennedy, Fera, York, United Kingdom
14:44 - 15:06	Mo-SY-A3.3 Linking probabilistic exposure models for non-food and food sources to calculate aggregate consumer exposure: Case study on Bisphenol A Cecile Karrer, ETH Zurich, Zurich, Switzerland
15:06 - 15:30	Mo-SY-A3.4 Mixtures selection from combined exposure and PBPK modelling to aggregate exposure Amélie Crépet, ANSES, French agency for health and safety, Maisons-Alfort, France
14:00 - 15:30	Mo-SY-B3 From occupational to environmental biomonitoring: lessons to be learned. Chair: Kate Jones, Health & Safety Laboratory, Buxton, United Kingdom Chair: Silvia Fustinoni, University of Milan, Milan, Italy
14:00 - 14:18	Mo-SY-B3.1 Performing and understanding biological monitoring: how the experience in occupational toxicology can help. Peter J. Boogaard, Shell International by, The Hague, The Netherlands
14:18 - 14:36	Mo-SY-B3.2 Reference values: tools used to interpret biomonitoring Thomas Göen, University of Erlangen-Nuremberg, Erlangen, Germany
14:36 - 14:54	Mo-SY-B3.3 Biomonitoring for benzene exposure: from occupational exposure to environmental pollutant Silvia Fustinoni, University of Milan, Milan, Italy
14:54 - 15:12	Mo-SY-B3.4 Elemental speciation in biological samples - occupational exposure experiences for better risk characterisation Jackie Morton, Health & Safety Laboratory, Buxton, United Kingdom
15:12 - 15:30	Mo-SY-B3.5 Using PCB signatures and enantiomer fractions for source identification and to age date exposure David Megson, University of Toronto, Toronto, ON, Canada
14:00 - 15:30	Mo-SY-C3 Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to
± 4.00 - 13.30	quantify exposure-response relationships for risk assessment - II Chair: Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Chair: Todd Gouin, Unilever, Sharnbrook, United Kingdom

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14:00 - 14:18	Mo-SY-C3.1 Passive Dosing of hydrophobic organic chemicals to in vitro assays controlling, defining and linking exposure
14:18 - 14:36	Philipp Mayer, Technical University of Denmark, Kongens Lyngby, Denmark Mo-SY-C3.2 Examining underlying assumptions when translating in vitro bioassay results to in vivo conditions
14:36 - 14:54	Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Mo-SY-C3.3 A range of approaches for interpreting in vitro toxicity data: PBPK, PK, mass balance and biomonitoring
14:54 - 15:12	Sean Hays, Summit Toxicology, Lyons, CO, United States Mo-SY-C3.5 Qivive approaches to evaluate interindividual toxicokinetic variability Barbara Wetmore, US EPA, Research Triangle Park, NC, United States
15:12 - 15:30	Mo-SY-C3.6 Panel Discussion
14:00 - 15:30	Mo-SY-D3 15 years of Human Biomonitoring in Flanders: surveillance feeding policy and research - II
	Chair: Nathalie Lambrechts, VITO, Mol, Belgium Chair: Karen Van Campenhout, Flemish Government, Brussels, Belgium
14:00 - 14:22	Mo-SY-D3.1 Determinants of metal exposure in the biomonitoring campaigns of the Flemish Environment and Health Study (FLEHS)
14:22 - 14:44	Sam De Craemer, Vrije Universiteit Brussel, Brussels, Belgium Mo-SY-D3.2 Looking at human biomonitoring results through an environmental justice lens: the case of Flanders (Belgium) Bert Morrens, University of Antwerp, Antwerp, Belgium
14:44 - 15:06	Mo-SY-D3.3 Emerging contaminants in the Flemish Environment and Health biomonitoring Surveys (FLEHS) Adrian Covaci, University of Antwerp, Wilrijk-Antwerp, Belgium
15:06 - 15:30	Mo-SY-D3.4 Early-life exposure to multiple environmental contaminants and birth outcomes: pooled analysis in four Flemish birth cohorts Eva Govarts, VITO, Mol, Belgium
14:00 - 15:30	Mo-SY-E3 Assessing exposure to SVOCs in dust Chair: Natalie von Goetz, ETH Zurich, Zurich, Switzerland
14:00 - 14:18	Mo-SY-E3.1 Residential exposures to SVOCs: Identifying efficient and effective exposure measurements Robin Dodson, Silent Spring Institute, Newton, MA, United States
14:18 - 14:36	Mo-SY-E3.2 Modelling the Relevance of Dust as an Exposure Pathway Christiaan Delmaar, RIVM, Bilthoven, The Netherlands
14:36 - 14:54	Mo-SY-E3.3 SVOCs Transfer from Products into Dust: Model vs Measurements Vilma Sukiene, Swiss Federal Institute of Technology, (ETH Zurich), Zurich, Switzerland
14:54 - 15:12	Mo-SY-E3.4 Exploring house dust as a path of exposure Stefanie Klenow, Federal Institute for Risk Assessment, Berlin, Germany
15:12 - 15:30	Mo-SY-E3.5 SVOCs in Dust: Motivation and challenges for a cumulative approach to exposure & risk assessment Philippe Glorennec, EHESP - School of Public Health, Rennes, France
14:00 - 15:30	Mo-SY-F3 Thresholds of Toxicological Concern: an exposure-driven approach to risk assessment
	Chair: Heli M Hollnagel, Dow Europe GmbH, Horgen, Switzerland and Sean Hays, Summit Toxicology, Lyons, CO, United States Chair: Harvey Clewell, ScitoVation, Durham, NC, United States
14:00 - 14:18	Mo-SY-F3.1 Thresholds of Toxicological Concern (TTC) Introduction to the tiered concept
14:18 - 14:36	Kirstin Kosemund, Procter & Gamble, Schwalbach, Germany Mo-SY-F3.2 Ecological Threshold for Toxicological Concern (eco-TTC) Assessing the potential of a new tool for environmental hazard assessment Michelle Embry, ILSI Health and Environmental Sciences Institute, Washington, DC, United States
14:36 - 14:54	Mo-SY-F3.3 Progress in the Development of Internal TTC Approaches

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14:54 - 15:12	Mo-SY-F3.4 Assessment of co-exposures based on combination of TTC and specific data Heli M Hollnagel, Dow Europe GmbH, Horgen, Switzerland and Sean Hays, Summit Toxicology, Lyons, CO, United States
15:12 - 15:30	Mo-SY-F3.5 Development and application of a new TTC for oral exposure to proteins Manoj Aggarwal, Dow AgroSciences, Abingdon, United Kingdom
14:00 - 15:30	Mo-SY-G3 The role of analytical chemistry within exposure science. Chair: Felix Hernandez, University Jaume I of Castell Chair: Yuri Bruinen de Bruin, National Institute of Public Health and the Environment, Bilthoven, The Netherlands
14:00 - 14:15	Mo-SY-G3.1 Current analytical tools for wide-scope screening of organic pollutants in environmental samples Felix Hernandez, University Jaume I of Castell
14:15 - 14:30	Mo-SY-G3.2 Wastewater based epidemiology: recent advances Lubertus Bijlsma, University Jaume I, Castellon, Spain
14:30 - 14:45	Mo-SY-G3.3 Application of LC-full scan HRMS for non-targeted measurement of urinary biomarkers of exposure to modern pesticides Hans Mol, RIKILT - Wageningen UR, Wageningen, The Netherlands
14:45 - 15:00	Mo-SY-G3.4 Suspect screening of REACHs chemicals in environmental samples Thomas ter Laak, KWR watercycle research institute / Wageningen University, Nieuwegein, The Netherlands
15:00 - 15:15	Mo-SY-G3.5 Application of Effect Directed Analysis to Identify Mutagenic Nitrogenous Disinfection Byproducts of Advanced Oxidation Drinking Water Treatment Annemieke Kolkman, KWR Watercycle Research Institute, Nieuwegein, The Netherlands
15:15 - 15:30	Mo-SY-G3.6 Towards higher throughput in Effect-Directed Analysis: development of integrated platforms for micro-fractionation, suspect screening libraries and non-target analysis Marja Lamoree, Institute for Environmental Studies, Vrije Universiteit, Amsterdam, The Netherlands
14:00 - 15:30	Mo-SY-H3 Aggregate exposure assessment of contact allergens in consumer products Chair: Martine Bakker, RIVM, Bilthoven, The Netherlands Chair: Elena Garcia Hidalgo, ETH Z
14:00 - 14:18	Mo-SY-H3.1 Aggregate Exposure to Contact Allergens: Application of a Method of Quantitative Risk Assessment Martine Bakker, RIVM, Bilthoven, The Netherlands
14:18 - 14:36	Mo-SY-H3.2 Individual-based aggregate exposure assessment for isothiazolinones in cosmetics: Exposure factors and a calculation strategy for sensitizers Elena Garcia Hidalgo, ETH Z
14:36 - 14:54	Mo-SY-H3.3 Aggregate Exposure Assessment for Skin Sensitizing Fragrances: Using an Aggregate Exposure Model to Assign Maximum Concentration Levels. Cian O' Mahony, Creme Global, Dublin, Ireland
14:54 - 15:12	Mo-SY-H3.4 Estimating Aggregate Dermal Exposure to Preservatives for Skin Sensitization Quantitative Risk Assessment. Sarah Tozer, Procter & Gamble, Egham, United Kingdom
15:12 - 15:30	Mo-SY-H3.5 Aggregate exposure assessment to contact allergens from essential oil consumption A loophole in the risk assessment? Nicolas Dornic, LERCCO (Laboratory of chemical risk assessement for the consumer), Brest, France
14:00 - 15:30	Mo-PL-I3 Risk Assessment Chair: Maryam Zare Jeddi, Institute for Environmental Research (IER), Tehran University of Medical Sciences, Tehran, Iran
14:00 - 14:15	Mo-PL-I3.1 A conceptual framework to support exposure science research and complete the source-to-outcome continuum for risk assessment Justin Teeguarden, Pacific Northwest National Laboratory, Richland, WA, United States
14:15 - 14:30	Mo-PL-I3.2 Comparative Analysis of Human Biomonitoring Values and Health-Based Guidance Values Used in Risk Assessment of Chemicals in Food: An Update Judy Choi, BiPRO GmbH, Munich, Germany

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14:30 - 14:45	Mo-PL-I3.3 Rapid Environmental Assessment of Pesticide-Contaminated Sites An Expert System For Effective Preliminary Risk Assessment With Limited Resources John Keith, Pure Earth, New York, NY, United States
14:45 - 15:00	Mo-PL-I3.4 Human Biomonitoring of Endocrine-disrupting Phthalates Exposure in Children and Cumulative Risk Assessment Maryam Zare Jeddi, Institute for Environmental Research (IER), Tehran University of Medical Sciences,
	Tehran, Iran
15:00 - 15:15	Mo-PL-I3.5 The future of risk assessment and toxicity testing for chemical mixtures Report from the EFSA-RIVM Symposium 18-19 May 2016
15:15 - 15:30	Jacob van Klaveren, RIVM, Bilthoven, The Netherlands Mo-PL-I3.6 Assessing Exposure Risks from Synthetic Biology Andrew Gillespie, US Environmental Protection Agency, Research Triangle park, NC, United States
15:30 - 16:00	Poster viewing & Break - TransitZone
16:00 - 17:30	Mo-SY-A4 The Children's Health Exposure Analysis Resource Chair: David Balshaw, National Institute of Environmental Health Sciences, Morrisville, NH, United States
16:00 - 16:18	Mo-SY-A4.1 Accelerating Child Health Exposure Research with the CHEAR Data Center Patricia Kovatch, Icahn School of Medicine at Mount Sinai, New York, NY, United States
16:18 - 16:36	Mo-SY-A4.2 Interlaboratory Harmonization and External Quality Assessment for Quantifying Toxic Metals/Metalloids in Human Body Fluids Patrick Parsons, New York State Dept of Health, Albany, NY, United States
16:36 - 16:54	Mo-SY-A4.3 Quality Assurance Testing and Harmonization of Analysis of Organic Chemicals for CHEAR Andrea Hjerpe, Emory University, Atlanta, GA, United States
16:54 - 17:12	Mo-SY-A4.4 Integration of Targeted, Untargeted, and Biological Response Data Robert Wright, Mount Sinai School of Medicine, New York, NY, United States
17:12 - 17:30	Mo-SY-A4.5 Multi-laboratory Harmonization of Untargeted Exposomic Analyses Susan Sumner, RTI International, Research Triangle Park, NC, United States
16:00 - 17:30	Mo-SY-B4 New Biomarkers for Human Biological Monitoring in Occupational Health Chair: Paul Scheepers, Radboudumc, Nijmegen, The Netherlands
16:00 - 16:18	Mo-SY-B4.1 Multi-residue analysis of pesticides in human hair Hans Mol, RIKILT - Wageningen UR, Wageningen, The Netherlands
16:18 - 16:36	Mo-SY-B4.2 Use of unmetabolized xenobiotics as biomarkers of exposure Laura Campo, University of Milan and Fondazione IRCCS Ca
16:36 - 16:54	Mo-SY-B4.3 Urine collection methods for non-toilet trained children in environmental exposure assessment
16:5% - 17:12	Arné Oerlemans, Radboud university medical centre, Nijmegen, The Netherlands Mo-SY-B4.4 Non-Invasive Dosimetry of Volatile Compounds: A Breath-Taking Experience
16:54 - 17:12	Jacqueline Biesterbos, Radboudumc, Nijmegen, The Netherlands
17:12 - 17:30	Mo-SY-B4.5 New applications of human biological monitoring in petrochemical industry Peter J. Boogaard, Shell International bv, The Hague, The Netherlands
16:00 - 17:30	Mo-SY-C4 Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure-response relationships for risk assessment - III
	Chair: Michelle Embry, ILSI Health and Environmental Sciences Institute, Washington, DC, United States Chair: Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Chair: Todd Gouin, Unilever, Sharnbrook, United Kingdom
16:00 - 16:18	Mo-SY-C4.1 High Throughput PBTK: Evaluating EPAs Open-Source Data and Tools for Dosimetry and Exposure Reconstruction Barbara Wetmore, US EPA, Research Triangle Park, NC, United States
16:18 - 16:36	Mo-SY-C4.2 High Throughput Modeling of the Effects of Mixtures of ToxCast Chemicals on Steroid Hormone Cycles in Women
16:36 - 16:54	Emmanuel Lemazurier, INERIS, Verneuil en Halatte, France Mo-SY-C4.3 Endocrine activity of POPs accumulated in human silicone implants - transferring in vivo exposure into in vitro bioassays Dorothea Gilbert, Danmarks Tekniske Universitet, Kgs. Lyngby, Denmark

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16:54 - 17:12	Mo-SY-C4.4 Combining Fish In Vitro Systems with Computational Modelling to Predict Chemical Accumulation and Altered Growth in Fish
	Julita Stadnicka-Michalak, EPF Lausanne, School of Architecture, Civil and Environmental Engineering;
17:12 - 17:30	Eawag, Lausanne, Switzerl Mo-SY-C4.5 Dishing Up Nanoparticle Risks: Exposure-Based Computational Translation of In Vitro
-,,.50	Toxicity Data to Human Risk
	Justin Teeguarden, Pacific Northwest National Laboratory, Richland, WA, United States
16:00 - 17:30	Mo-SY-D4 Evidence-Based Research on Interventions to Reduce Personal Exposures to
	Environmental Pollutants Chair Sara Adar University of Michigan Ann Arbor MI United States
	Chair: Sara Adar, University of Michigan, Ann Arbor, MI, United States Chair: Cynthia Curl, Boise State University, Boise, ID, United States
16:00 - 16:18	Mo-SY-D4.1 Bridging the Ineffective Lead Treatment Gap: Lessons from Hurricane Katrina in New
	Orleans, USA for Establishing an Effective Lead Intervention Strategy
16:18 - 16:36	Howard Mielke, Tulane University School of Medicine, New Orleans, LA, United States Mo-SY-D4.2 Home Air in Agriculture Pediatric Intervention Trial (HAPI)
10.10 10.50	Catherine Karr, Univ WA, Seattle, VA, United States
16:36 - 16:54	Mo-SY-D4.3 Effect of a Randomized, Blinded Organic Diet Intervention on Pesticide Exposure among Pregnant Women
	Cynthia Curl, Boise State University, Boise, ID, United States
16:54 - 17:12	Mo-SY-D4.5 The UGAAR Randomized Controlled Trial of HEPA Filter Air Cleaner Use and Residential
	Fine Particulate Matter in Ulaanbaatar, Mongolia
	Enkhjargal Gombojav, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia
17:12 - 17:30	Mo-SY-D4.6 Effects of Low Emission Zones (LEZ) on air quality in Germany Josef Cyrys, Helmholtz Zentrum Muenchen, Neuherberg, Germany
	Josef Cyrys, Hellimoltz Zentrum Muenchen, Neunerberg, Germany
16:00 - 17:30	Mo-SY-E4 Toward an Understanding of Indoor exposures
	Chair: Hal Levin, Building Ecology Research Group, Santa Cruz, CA, United States
16:00 - 16:18	Mo-SY-E4.1 The added value of time-use studies in exposure science in the built environment
16.10.16.76	Jelle Laverge, Ghent University, Gent, Belgium
16:18 - 16:36	Mo-SY-E4.2 Integrated Indoor and Outdoor Exposure Assessment Framework for Fine Particulate Matter Pollution
	Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark
16:36 - 16:54	Mo-SY-E4.3 VOC exposures indoors: focus on VOCs most often found indoors Matti Jantunen, National Institute for Health and Welfare, Kuopio, Finland
16:54 - 17:12	Mo-SY-E4.4 SVOC Exposure Indoors
10.54 17.11	Charles Weschler, Rutgers University, Piscataway, NJ, United States
17:12 - 17:30	Mo-SY-E4.5 Microbial (fungal, viral, and bacterial) exposures indoors The Indoor Microbiome
	Hal Levin, Building Ecology Research Group, Santa Cruz, CA, United States
16:00 - 17:30	Mo-SY-F4 Exposure-Based Toxicity Testing
	Chair: Heli M Hollnagel, Dow Europe GmbH, Horgen, Switzerland and Sean Hays, Summit Toxicology,
	Lyons, CO, United States Chair: Theo Vermeire, RIVM, Bilthoven, The Netherlands
16:00 - 16:10	Mo-SY-F4.1 Exposure Based Testing- Introduction to the Symposium
	Heli M Hollnagel, Dow Europe GmbH, Horgen, Switzerland and Sean Hays, Summit Toxicology, Lyons, CO, United States
16:30 - 16:50	Mo-SY-F4.3 Exposure based testing for risk assessment
	Theo Vermeire, RIVM, Bilthoven, The Netherlands
16:50 - 17:10	Mo-SY-F4.4 Expossure based testing, an industry perspective on current situation and where to fo next
	Heli M Hollnagel, Dow Europe GmbH, Horgen, Switzerland and Sean Hays, Summit Toxicology, Lyons,
16:10 16:70	CO, United States Ma SV E4.2 A Data Drivan Framework for Incorporating New Tools for Toyicity, Evposure, and Bick
16:10 - 16:30	Mo-SY-F4.2 A Data-Driven Framework for Incorporating New Tools for Toxicity, Exposure, and Risk Assessment
	Barbara Wetmore, US EPA, Research Triangle Park, NC, United States
17:10 - 17:30	Mo-SY-F4.5 Results of audience debate
	Sean Hays, Summit Toxicology, Lyons, CO, United States

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16:00 - 17:30	Mo-SY-G4 Advanced mass spectrometric techniques for the analysis of environmental organic contaminants Chair: Leon Peters, Thermofisher Scientific and The University of Birmingham, Birmingham, United Kingdom
16:00 - 16:18	Mo-SY-G4.1 High resolution mass spectrometry provides novel insights into products of human metabolism of organophosphate and brominated flame retardants
16:18 - 16:36	Aristide Ganci, University of Birmingham, Birmingham, United Kingdom Mo-SY-G4.2 Untargeted identification of novel BFRs and their degradation/transformation product in environmental samples Aristide Ganci, University of Birmingham, Birmingham, United Kingdom
16:36 - 16:54	Mo-SY-G4.3 Explore the potential of state of the art Mass Spectrometry and dedicated software in identification of NBFRs and their metabolite/degradation products Khanh Hoang Nguyen, University of Birmingham, Birmingham, United Kingdom
16:54 - 17:12	Mo-SY-G4.4 The comprehensive characterisation of diesel exhaust nanoparticles using variable ionisation mass spectrometry Mohammed Alam, University of Birmingham, Birmingham, United Kingdom
17:12 - 17:30	Mo-SY-G4.5 The Thermo Scientific Q Exactive GC Orbitrap for Multi Dimensional Position Specific Isotope Analysis of Trace Organic Environmental Contaminants Leon Peters, Thermofisher Scientific and The University of Birmingham, Birmingham, United Kingdom
16:00 - 17:30	Mo-SY-H4 Analysis of Patterns of Co-Exposure: Methodologies and Applications
16:00 - 16:18	Mo-SY-H4.1 Analyzing patterns of co-exposure in exposure space Thomas Webster, Boston University School of Public Health, Boston, MA, United States
16:18 - 16:36	Mo-SY-H4.2 Co-variation in circulating levels of 45 environmental contaminants from different chemical classes in a human population. Lars Lind, Uppsala University, Uppsala, Sweden
16:36 - 16:54	Mo-SY-H4.3 Development of correlation globes to map out environment-wide associations and to determine the multiplicity burden of association tests Chirag Patel, Harvard Medical School, Boston, MA, United States
16:54 - 17:12	Mo-SY-H4.4 Identifying Robust Co-Occurrence Patterns in Personal Care Product Purchases Rogelio Tornero-Velez, U.S. EPA, Research Triangle Park, NC, United States
17:12 - 17:30	Mo-SY-H4.5 Quantifying Associations between Environmental Stressors and Demographic Factors Rogelio Tornero-Velez, U.S. EPA, Research Triangle Park, NC, United States
16:00 - 17:30	Mo-PL-14 VOCs and SVOCs Chair: Michael Bader, BASF SE, Ludwigshafen, Germany
16:00 - 16:18	Mo-PL-I4.1 Use of Indoor Dust Levels to Reconstruct Exposure to Semivolatile Organic Compounds Evaluation with NHANES biomarkers Hyeong-Moo Shin, University of California-Davis, Davis, CA, United States
16:36 - 16:54	Mo-PL-14.3 Reactive and Water-Soluble Organic Gases inside Several Residences in New Jersey and North Carolina
16:54 - 17:12	Sara Duncan, Rutgers University, New Brunswick, NJ, United States Mo-PL-14.4 Comparison of three biomarkers for benzene exposure during turnaround works and derivation of an assessment value for urinary benzene
17:12 - 17:30	Michael Bader, BASF SE, Ludwigshafen, Germany Mo-PL-14.5 Bioaccessibility of semi-volatile organic compounds (SVOCs) in settled dust Gaëlle Raffy, EHESP Irset-Inserm UMR 1085, Rennes, France
18:30 - 00:00	Conference Dinner - Ticketed Event at Winkel van Sinkel

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POSTER SESSIONS

Monday October 10, 2016

Biomonitoring

Mo-Po-01 Measurement of Urinary Phthalate Metabolites in a Pilot Study of Nail Salon Workers and Comparison to a Sample of the U.S. Population

Julia Varshavsky, UC Berkeley, Berkeley, United States

Mo-Po-O2 Measurement of urinary environmental chemicals in a convenience sample of 3 to 5 year old American children: a pilot study for NHANES

Mary Mortensen, U.S. Centers for Disease Control, Atlanta, GA, United States

Mo-Po-03 Urinary 1-nitropyrene metabolites as markers of exposure to diesel exhaust in an underground mine. *Christopher Simpson, University of Washington, Seattle, WA, United States*

Mo-Po-04 Metabolomic Indicators of Primary Traffic Exposures in the Dorm Room Inhalation to Vehicle Emissions (DRIVE) Study

Donghai Liang, Emory University, Atlanta, GA, United States

Mo-Po-05 Exposure assessment of multiple chemicals starting from biomonitoring data Evangelos Handakas, Aristotle University of Thessaloniki, Thessaloniki, Greece

Mo-Po-06 CDCs National Biomonitoring Program: State Biomonitoring 2016 update Lovisa Romanoff, Center's for Disease Control and Prevention, Atlanta, GA, United States

Environmental/Human Health

Mo-Po-07 Risk assessment of dietary exposures to aflatoxin for corn tortilla consumption in Veracruz city *Anne-Sophie Ficheux, Universit? Bretagne Occidentale, Brest, France*

Mo-Po-08 Effects of Low Emission Zones (LEZ) on air quality in Germany

Josef Cyrys, Helmholtz Zentrum Muenchen, Neuherberg, Germany

Mo-Po-09 Exposure to Indoor Wood Smoke as Measured by Low-cost Air Quality Monitor *Philip Hopke, Clarkson University, Potsdam, NY, United States*

Mo-Po-10 Estimating Exposure to DDTs and Potential Carcinogenic and Non-carcinogenic Risks among Breast-fed Infants

Maryam Zare Jeddi, Institute for Environmental Research (IER), Tehran University of Medical Sciences, Tehran, Iran

Mo-Po-12 Current knowledge on the health benefits and risks of indoor air ionization

Paul Scheepers, Radboudumc, Nijmegen, The Netherlands

Mo-Po-13 CITI-SENSE Edinburgh The empowerment potential of participatory tools for environmental monitoring of air quality

Susanne Steinle, Institute of Occupational Medicine, Edinburgh, United Kingdom

Mo-Po-14 Estimation of health risks associated with trace elements emitted from cooking with electric stove *Mehdi Amouei Torkmahalleh, School of Engineering, Nazarbayev University, Astana, Kazakhstan*

Mo-Po-15 Frequency, duration and severity of air pollution events: implications from repeated exposure to moderate *Yuli Huang, National Kaohsiung First University of Science and Technology, Kaohsiung, China, Republic of (Taiwan)*

Mo-Po-16 NICU-Based Phthalate Exposure Impacts Early Neurodevelopmental Performance

Christine Austin, Icahn School of Medicine at Mount Sinai, New York, NY, United States

Mo-Po-18 Housing, indoor air quality, and pediatric asthma in a low income multifamily housing site in Boston a systems science approach

M. Patricia Fabian, Boston University School of Public Health, Boston, MA, United States

Mo-Po-19 Cumulative Environmental Effects: Expanding Research with the Hopi Tribe Mary Kay O'Rourke, The University of Arizona, Tucson, AZ, United States

Measuring/monitoring/strategy

Mo-Po-20 Americans Exposure to the Insect Repellent N,N-diethyl-m-toluamide (DEET)

Maria Ospina, Centers for Disease Control and Prevention, Atlanta, GA, United States

Mo-Po-21 Exploring metallome risk of gestational diabetes mellitus on the context of meconium internal chemical environmental changes: A systems approach

Heging Shen, Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China, People's Republic of

Mo-Po-22 Potential Dermal and Inhalation Exposure of Workers During Pest Control of Oak Processionary Moth by Spray Application

Thomas Göen, University of Erlangen-Nuremberg, Erlangen, Germany

Mo-Po-25 From consumer use surveys of personal care products to chemical emission estimates at wastewater treatment plant level

Mélanie Douziech, Radboud University, Nijmegen, The Netherlands

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Mo-Po-26 Harmonization of Analysis of Real-Time Monitoring Data from RTI MicroPEM Through Open-Source Software Maëlle Salmon, ISGlobal, Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

Mo-Po-27 Policy Implications of the Health Co-benefit Assessment of Alternative GHG mitigation Strategies in Suzhou, China

Matti Jantunen, National Institute for Health and Welfare, Kuopio, Finland

Mo-Po-28 Development and application of traffic density-based parameters for studying near-road air pollutant exposure

Shi Liu, US EPA National Exposure Research Laboratory, Durham, NC, United States

Mo-Po-29 Impact of inter-coder differences in occupation and industry classification coding on exposure estimates obtained via job-exposure matrix: example of gasoline engine emissions in CANJEM *Marc-André Verner, Universit de Montral, Montreal, Canada*

Mo-Po-32 New approach to study the real exposure to fungi in cork industry: nasal swabs mycobiota investigation coupled with screening on fungal resistance to azoles

Carla Viegas, ESTeSL-IPL; ENSP - UNL, Lisbon, Portugal

Mo-Po-33 An algorithm for quantitatively estimating non-occupational pesticide exposure intensity for spouses in the Agricultural Health Study

Nicole Deziel, Yale School of Public Health, New Haven, CT, United States

Mo-Po-34 Exposure to the Non-Phthalate Plasticizer 1,2-Cyclohexane Dicarboxylic Acid, Diisononyl Ester (DINCH) in Portuguese Children

Luísa Correia-Sá, REQUIMTE/LAQV - Instituto Superior de Engenharia do Porto do Instituto Polit?cnico do Porto, Porto, Portugal

Mo-Po-35 Assessment of indoor temperature, relative humidity, carbon dioxide, noise and illuminance level in two general hospitals

Boram Lee, Seoul National University, Seoul, Korea, North

Mo-Po-36 Bioavailability of plasticizers in dust and food after oral administration in pigs

Veronika Plichta, Bavarian Health and Food Safety Authority, Munich, Germany

Mo-Po-37 Quantitative material releases from articles containing manufactured nanomaterials

Joonas Koivisto, National Research Centre for the Working Environment, Copenhagen, Denmark

Mo-Po-38 Exposure to Carbon Monoxide during the Operation of Recreational Watercraft a Public Health Hazard with Potentially Lethal Outcomes

Dale Stephenson, Boise State University, Boise, ID, United States

Mo-Po-39 Improving Personal Exposure Assessment for Trace Metals

Ashley Newton, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Mo-Po-40 Colorimetric Paper-Based Biosensing Device for the Assessment of Bisphenol A in Indoor Dust. Alan Rossner, Clarkson University, Potsdam, NY, United States

Mo-Po-41 Radionuclides in Contaminated Soils as Possible Source of Inhalation Exposure Olorunfemi Adetona, The Ohio State University, Columbus, OH, United States

Mo-Po-42 An Assessment of Legionella pneumophila and Mycobacterium avium in Residential and Commercial Structures

Lisa Melnyk, US EPA, Cincinnati, OH, United States

Mo-Po-43 Particle inhalation rate as a metric for ambient air pollution exposure *Laura Corlin, Tufts University, Medford, MA, United States*

Mo-Po-44 Concentration-Based High-Throughput Exposure Screening of Chemicals in Flooring Materials Vy Nguyen, University of Michigan Medical School, Ann Arbor, MI, United States

Mo-Po-46 Exposure to PM2.5 and Blood Lead Level in Two Populations in Ulaanbaatar, Mongolia Undarmaa Enkhbat, Mongolian National University of Medical Sciences, School of Public Health, Ulaanbaatar, Mongolia

Mo-Po-47 Seasonal variation of time activity pattern characteristics in Korean population

Kiyoung Lee, Seoul National University, Seoul, South Korea

Mo-Po-48 Assessment of Personal Exposure to Black Carbon and Nitrogen Dioxide in Contrasting Urban (Road Traffic) and Industrial (Fracking) Environments

Eliani Ezani, University of Strathclyde, Glasgow, United Kingdom

Mo-Po-49 Residential PM2.5 concentrations in Ger, traditional residence in Mongolia

Hyunkyung Ban, Seoul National University, Seoul, Korea, South

Mo-Po-50 Microenvironmental Exposure to Ultrafine Particles Among Adolescent Children Characterized by A Personal Sensor with High Spatial and Temporal Resolution

Christopher Wolfe, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

Mo-Po-53 Tracing POP-BDE routes through plastic waste streams in the Netherlands Sicco Brandsma, VU University Amsterdam, Amsterdam, The Netherlands

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 $\textbf{Mo-Po-55} \ \text{Measuring concentrations and sources of flame retardants and phthalates indoors}$

Joseph Okeme, University of Toronto, Toronto, Canada

Mo-Po-58 Exposure Measurement Error Reduced by Personal Air Pollutant Exposures Monitoring in an Active Young Adult Cohort

Donghai Liang, Emory University, Atlanta, GA, United States

Mo-Po-59 Determination of dietary patterns prior to exposure assessment of populations of Benin, Cameroon, Mali and Nigeria to harmful residues and contaminants

Luc Ingenbleek, Centre Pasteur of Cameroon, Yaounde, Cameroon

Mo-Po-60 Pesticide residue monitoring programs: valuable tools for refined dietary exposure assessment and support of minor crop agriculture

Manoj Aggarwal, Dow AgroSciences, Abingdon, United Kingdom

Late Breaking Abstracts

Mo-LBA-02 Young adult street vendors and reported health outcomes affected by measured exposures to near-roadway traffic-related air pollution in Bangkok, Thailand

Derek Shendell, Rutgers School of Public Health, and Environmental and Occupational Health Sciences Institute, Piscataway, NJ, United States

Mo-LBA-03 Target and nontarget screening of chemicals in the indoor environment for human exposure assessment - SHINE

Marja Lamoree, Institute for Environmental Studies, Vrije Universiteit, Amsterdam, The Netherlands

Mo-LBA-04 Residential attached garage intervention study: reducing pollutant transfer from garages through improved building envelope air tightness

Daniel Aubin, National Research Council of Canada, Ottawa, Canada

Mo-LBA-05 Re-analysis of the ETEAM Database for the ECETOC TRAv3 Model

Chris Money, Cynara Consulting, Brockenhurst, United Kingdom

Mo-LBA-06 Solid-Phase Microextraction Procedure to Measure Endocrine Disruptors in Personal Care Products Shih-Wei Tsai, National Taiwan University, Taipei, China, Republic of (Taiwan)

Mo-LBA-07 Metabolomics reveals metabolic disorders in mice exposed to thirdhand tobacco smoke Noelia Ramirez, Institut d'investigacio Sanitaria Pere Virgili-URV-CIBERDEM, Tarragona, Spain

Mo-LBA-09 A spatial analysis approach combining multi-media and human models to map the lead exposure of children in a French region

Céline Brochot, INERIS, Verneuil en Halatte, France

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PROGRAM

TUESDAY, OCTOBER 11, 2016

08:00 - 09:00	Plenary Address 3: The exposome: moving from concept to reality Chris Wild, International Agency for Research on Cancer (IARC), Lyon, France
09:00 - 10:30	Tu-SY-A1 The Exposome: From concept to practice - I Chair: Roel Vermeulen, Utrecht University, Utrecht, The Netherlands
09:00 - 09:22 09:22 - 09:44	Tu-SY-A1.1 Introduction: From concept to practice Tu-SY-A1.2 Early observations from HELIX - building the Human Early-Life Exposome Martine Vrijheid, CREAL, Barcelona, Spain
09:44 - 10:06	Tu-SY-A1.3 We do exposome as much as we can: Japan Environment and Childrens Study Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan
10:06 - 10:30	Tu-SY-A1.4 Early Observations from CHEAR Robert Wright, Mount Sinai School of Medicine, New York, NY, United States
09:00 - 10:30	Tu-SY-B1 Uncertainty in scientific assessments: Recent efforts by governmental bodies to develop guidance for assessors Chair: Natalie von Goetz, ETH Zurich, Zurich, Switzerland Chair: Caroline Gabrielle Merten, European Food Safety Authority, Parma, Italy
09:00 - 09:18	Tu-SY-B1.1 Why do we need to improve the treatment of uncertainty in exposure and risk assessment? Andy Hart, Fera Science Ltd., York, United Kingdom
09:18 - 09:36	Tu-SY-B1.2 EFSAs approach to uncertainty analysis in scientific assessment Andrea Germini, European Food Safety Authority (EFSA), Parma, Italy
09:36 - 09:54	Tu-SY-B1.3 The BfR-guidance on uncertainty assessment for exposure modelling Gerhard Heinemeyer, Federal Institute for Risk Assessment, Berlin, Germany
09:54 - 10:12	Tu-SY-B1.4 The Anses-guidance on evaluation of weight of evidence and uncertainty analysis Moez Sanaa, The French Agency for Food, Environmental and Occupational Health & Safety (ANSES), Maisons Alfo
10:12 - 10:30	Tu-SY-B1.5 Considering Uncertainty based on International Experience Bette Meek, McLaughlin Centre for Risk Science, Ottawa, ON, Canada
09:00 - 10:30	Tu-PL-C1 Aggregate and Cumulative Exposure Evaluations Chair: Daniela Fecht, Imperial College London, London, United Kingdom
09:00 - 09:18	Tu-PL-C1.1 Methods to evaluate housing and neighborhood-related environmental health disparities using public databases M. Patricia Fabian, Boston University School of Public Health, Boston, MA, United States
09:18 - 09:36	Tu-PL-C1.2 An automated protocol for assigning address-level air pollution exposure for longitudinal birth cohort studies Daniela Fecht, Imperial College London, London, United Kingdom
09:36 - 09:54	Tu-PL-C1.3 Time Varying Associations between Air Pollution and Birth Weight: Results from the MIREC Cohort Study in Canada Markey Johnson, Health Canada, Ottawa, ON, Canada
09:54 - 10:12	Tu-PL-C1.4 Screening and identification of high priority compounds in textile products Iris Meuwissen, Avans University of Applied Sciences, Breda, The Netherlands
10:12 - 10:30	Tu-PL-C1.5 Assessment of Childrens Residential Exposure to Agricultural Pesticides: the PIAMA Birth Cohort. Joseph Bukalasa, Utrecht University, Utrecht, The Netherlands
09:00 - 10:30	Tu-PL-D1 Land Use Regression Modeling - I Chair: Cole Brokamp, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States
09:00 - 09:18	Tu-PL-D1.1 Land Use Models for Elemental Components of Particulate Matter in an Urban Environment: A Comparison of Regression and Random Forest Models Cole Brokamp, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

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09:18 - 09:36 09:36 - 09:54	Tu-PL-D1.2 Comparison and Evaluation of Spatiotemporal Air Quality Exposure Fields Developed using Ten Methods Armistead Russell, Georgia Institute of Technology, Atlanta, GA, United States Tu-PL-D1.3 Development of Land Use Regression models for assessment of annual average PM10 and
07.50 07.54	endotoxin exposure levels in ambient air in a livestock dense area Myrna de Rooij, IRAS - Utrecht University, Utrecht, The Netherlands
09:54 - 10:12	Tu-PL-D1.4 Spatial and Temporal Assessment of Air Pollution in the Calgary, Alberta Air Zone Markey Johnson, Health Canada, Ottawa, ON, Canada
10:12 - 10:30	Tu-PL-D1.5 Land-use regression modelling of ultrafine particles in the Augsburg Region, Germany Josef Cyrys, Helmholtz Zentrum Muenchen, Neuherberg, Germany
09:00 - 10:30	Tu-SY-E1 Real-time measurements and integrated models to estimate traffic exposures in complex urban environments.
	Chair: Maria Costantini, Health Effects Institute, Boston, MA, United States Chair: Johanna Boogaard, Health Effects Institute, Boston, MA, United States
9:00 - 09:18	Tu-SY-E1.1 Addressing confounding by noise in air pollution studies John Gulliver, Imperial College, London, United Kingdom
09:18 - 09:36	Tu-SY-E1.2 Associations between green space and physical activity/being overweight depend strongly on exposure definition and specification Jochem Klompmaker, RIVM, Bilthoven, The Netherlands
09:36 - 09:54	Tu-SY-E1.3 The link between exposure to traffic-related air pollution and SES Jane Clougherty, University of Pittsburgh, Pittsburgh, PA, United States
09:54 - 10:12	Tu-SY-E1.4 Understanding the contribution of other sources than traffic in urban environments Gerard Hoek, University Utrecht, Utrecht, The Netherlands
10:12 - 10:30	Tu-SY-E1.5 Aggregate Exposure Pathway (AEP) and Exposure Science in the 21st Century (ES21) Vasu Kilaru, US Environmental Protection Agency, Research Triangle Park, NC, United States
09:00 - 10:30	Tu-SY-F1 OECD Task Force on Exposure Assessment - Better exposure science for better lives - I Chair: Takahiro Hasegawa, OECD, Paris, France
09:00 - 09:22	Tu-SY-F1.1 Overview on OECD activity on Exposure Assessment
09:22 - 09:44	Takahiro Hasegawa, OECD, Paris, France Tu-SY-F1.2 Development of Emission Scenarios
09:44 - 10:06	Nhan Nguyen, US EPA, Washington DC, VA, United States
	Tu-SY-F1.3 Children's health
10:06 - 10:30	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands
10:06 - 10:30	
	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure
	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure Gudrun Walendzik, BAuA, Federal Institute for Occupational Safety and Health, Dortmund, Germany Tu-SY-G1 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - I Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States Tu-SY-G1.1 Hand- and Object-Mouthing by Rural Bangladeshi Children 6-20 Months Old; Importance of Including Food-Related Contacts
09:00 - 10:30	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure Gudrun Walendzik, BAuA, Federal Institute for Occupational Safety and Health, Dortmund, Germany Tu-SY-G1 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - I Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States Tu-SY-G1.1 Hand- and Object-Mouthing by Rural Bangladeshi Children 6-20 Months Old; Importance of Including Food-Related Contacts Laura Kwong, Stanford University, Stanford, CA, United States Tu-SY-G1.2 Community-Level Stressors and Their Impacts on Food Contamination
09:00 - 10:30 09:00 - 09:18	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure Gudrun Walendzik, BAuA, Federal Institute for Occupational Safety and Health, Dortmund, Germany Tu-SY-G1 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - I Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States Tu-SY-G1.1 Hand- and Object-Mouthing by Rural Bangladeshi Children 6-20 Months Old; Importance of Including Food-Related Contacts Laura Kwong, Stanford University, Stanford, CA, United States Tu-SY-G1.2 Community-Level Stressors and Their Impacts on Food Contamination Lisa Melnyk, US EPA, Cincinnati, OH, United States Tu-SY-G1.3 The cumulative MeHg and PCBs exposure and risk of tribal and US general population
09:00 - 10:30 09:00 - 09:18 09:18 - 09:36 09:36 - 09:54	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure Gudrun Walendzik, BAuA, Federal Institute for Occupational Safety and Health, Dortmund, Germany Tu-SY-G1 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - I Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States Tu-SY-G1.1 Hand- and Object-Mouthing by Rural Bangladeshi Children 6-20 Months Old; Importance of Including Food-Related Contacts Laura Kwong, Stanford University, Stanford, CA, United States Tu-SY-G1.2 Community-Level Stressors and Their Impacts on Food Contamination Lisa Melnyk, US EPA, Cincinnati, OH, United States Tu-SY-G1.3 The cumulative MeHg and PCBs exposure and risk of tribal and US general population with SHEDS-multimedia Jianping Xue, EPA, RTP, NC, United States
09:00 - 10:30 09:00 - 09:18 09:18 - 09:36	Gerlienke Schuur, RIVM, Bilthoven, The Netherlands Tu-SY-F1.4 Occupational Exposure Gudrun Walendzik, BAuA, Federal Institute for Occupational Safety and Health, Dortmund, Germany Tu-SY-G1 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - I Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States Tu-SY-G1.1 Hand- and Object-Mouthing by Rural Bangladeshi Children 6-20 Months Old; Importance of Including Food-Related Contacts Laura Kwong, Stanford University, Stanford, CA, United States Tu-SY-G1.2 Community-Level Stressors and Their Impacts on Food Contamination Lisa Melnyk, US EPA, Cincinnati, OH, United States Tu-SY-G1.3 The cumulative MeHg and PCBs exposure and risk of tribal and US general population with SHEDS-multimedia

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09:00 - 10:30	Tu-PL-H1 Analytical Methods - I Chair: Susan Viet, Westat, Rockville, MD, United States
09:00 - 09:18	Tu-PL-H1.1 Considerations for Stability of Environmental Samples in Storage in Childrens Environmental Epidemiology Studies Susan Viet, Westat, Rockville, MD, United States
09:18 - 09:36	Tu-PL-H1.2 Combination of multiple analytical platforms and nontargeted approaches for comprehensive risk assessment characterization: thirdhand tobacco smoke as case study Noelia Ramirez, Institut d'investigacio Sanitaria Pere Virgili-URV-CIBERDEM, Tarragona, Spain
09:36 - 09:54	Tu-PL-H1.3 Sample extraction strategies for target and non-target analysis of xenobiotics in biological fluids Christine Baduel, University of Queensland, Brisbane, Qld., Australia
09:54 - 10:12	Tu-PL-H1.4 Screening persistent polar contamination in drinking water with UHPLC-QTOF: focus on reverse osmosis applied to riverbank filtrate Vittorio Albergamo, University of Amsterdam - Institute for Biodiversity and Ecosystem Dynamics, Amsterdam, The Netherla
10:12 - 10:30	Tu-PL-H1.5 Contamination, Exposure and Risk Assessment: Pyrazol Case in the Dutch surface water Erik Emke, KWR Watercycle Research Institute (KWR), Nieuwegein, The Netherlands
09:00 - 10:30	Tu-PL-I1 Quantitative Methods Chair: Joost Westerhout, TNO, Zeist, The Netherlands
09:00 - 09:18	Tu-PL-I1.1 Integrated approach for external and internal exposure assessment: 2 case studies with benzene and chlorpyrifos Joost Westerhout, TNO, Zeist, The Netherlands
09:18 - 09:36	Tu-PL-I1.2 Assessing Tobacco Smoke Exposure Categories from Continuous Biomarker Measurements Using Cumulative ROC Curve Analysis Rey deCastro, U.S. Centers for Disease Control, Atlanta, GA, United States
09:36 - 09:54	Tu-PL-I1.3 Models to estimate asbestos exposure of brake mechanics without sampling Juan Ramos-Bonilla, Universidad de los Andes, Bogot
09:54 - 10:12	Tu-PL-I1.4 Bayesian Approach for Summarizing Uncertainties Related to a Prevalence Estimate Matthias Greiner, Federal Institute for Rissk Assessment (BfR) and Veterinary University Hannover (TiHo), Berlin, Germ
10:12 - 10:30	Tu-PL-I1.5 Lifetime exposome modeling Olivier Jolliet, University of Michigan, Ann Arbor, MI, United States
10:30 - 11:00	Poster viewing & Break - TransitZone
11:00 - 12:00	Tu-SY-A2 The Exposome: From concept to practice - II Chair: Roel Vermeulen, Utrecht University, Utrecht, The Netherlands
11:00 - 11:30	Tu-SY-A2.1 Early Observations from EXPOSoMICS Marc Chadeau-Hyam, Imperial College London, London, United Kingdom
11:30 - 12:00	Tu-SY-A2.2 Early observations from HEALS Dimosthenis Sarigiannis, Aristotle University of Thessaloniki, Thessaloniki, Greece
11:00 - 12:00	Tu-SY-B2 Uncertainty in scientific assessments: Recent efforts by governmental bodies to develop guidance for assessors Chair: Natalie von Goetz, ETH Zurich, Zurich, Switzerland Chair: Caroline Gabrielle Merten, European Food Safety Authority, Parma, Italy
11:00 - 11:20	Tu-SY-B2.1 Application of Quantitative Methods for Uncertainty Assessment in Chemical Risk Assessment: 2-Dimensional-Monte Carlo Method for PBDEs in Food Natalie von Goetz, ETH Zurich, Zurich, Switzerland
11:20 - 11:40	Tu-SY-B2.2 APROBA-Plus: An Excel tool for an approximate probabilistic risk assessment taking uncertainties into account Wout Slob, RIVM, Bilthoven, The Netherlands
11:40 - 12:00	Tu-SY-B2.3 EFSA target audience research project on communicating scientific uncertainties Anthony Smith, European Food Safety Authority, Parma, Italy

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TUESDAY, OCTOBER 11, 2016

11:00 - 12:00	Tu-SY-C2 Use of Agent Based Models in Exposure Assessment Chair: Paul Price, US EPA, RTP, NC, United States
11:00 - 11:20	Tu-SY-C2.1 Towards an in silico Experimental Platform for Air Quality: Houston, TX as a Case Study Paul Price, US EPA, RTP, NC, United States
11:20 - 11:40	Tu-SY-C2.2 Using agent-based modelling for interpreting the individual exposome Dimosthenis Sarigiannis, Aristotle University of Thessaloniki, Thessaloniki, Greece
11:40 - 12:00	Tu-SY-C2.3 A framework for the use of agent based modeling to simulate inter- and intra-individual variation in human behaviors Paul Price, US EPA, RTP, NC, United States
11:00 - 12:00	Tu-PL-D2 Land Use Regression Modeling - II Chair: Kees de Hoogh, Swiss Tropical and Public Health Institute, Basel, Switzerland
11:00 - 11:20	Tu-PL-D2.1 Effect of Monitoring Network Design on Land Use Regression Model for Estimating Residential NO2 Concentration
11:20 - 11:40	Hao Wu, University of Edinburgh, Edinburgh, United Kingdom Tu-PL-D2.2 European models incorporating satellite and chemical transport modelling with local variables in LUR
11:40 - 12:00	Kees de Hoogh, Swiss Tropical and Public Health Institute, Basel, Switzerland Tu-PL-D2.3 Modeling the Intraurban Variation in Traffic Exposure in Urban Areas in Kathmandu Valley, Nepal Anobha Gurung, Yale University, New Haven, CT, United States
11:00 - 12:00	Tu-SY-E2 Exposure science meets social science: Tools for the effective communication of the health risks associated with air pollution exposure and implications for policy development
44:00 44:20	Chair: Benjamin Barratt, King's College London, London, United Kingdom
11:00 - 11:20	Tu-SY-E2.1 Personalised Air Quality Data Gathered Through Community-Based Projects as a Tool For Communicating Air Pollution as a Public Health Risk. Diana Silva, King
11:20 - 11:40	Tu-SY-E2.2 Environmental exposure and citizen sensing: New modes of monitoring, new modes of politics Helen Pritchard, Goldsmiths, University of London, London, United Kingdom
11:40 - 12:00	Tu-SY-E2.3 Evidences of a social sciences pilot research from the FP7 SEFIRA Socio-economic implications for individual responses to Air Pollution Policies in EU +27. Benjamin Barratt, King's College London, London, United Kingdom
11:00 - 12:00	Tu-SY-F2 OECD Task Force on Exposure Assessment - Better exposure science for better lives - II Chair: Takahiro Hasegawa, OECD, Paris, France
11:00 - 11:20	Tu-SY-F2.1 Combined Exposure Assessment Takahiro Hasegawa, OECD, Paris, France
11:20 - 11:40	Tu-SY-F2.2 Development of Internationally Harmonized Use Codes Cathy Fehrenbacher, U.S. Environmental Protection Agency, Washington, DC, United States
11:40 - 12:00	Tu-SY-F2.3 An industry perspective on future exposure science needs to support chemical risk assessment Oliver Price, Unilever, Sharnbrook, United Kingdom
11:00 - 12:00	Tu-SY-G2 Environmental Justice: Developing the Scientific Foundation Supporting Cumulative Exposures/Risks/Impacts and Disparate Impacts Research - II Chair: Eric Hall, US Environmental Protection Agency, Durham, NC, United States
11:00 - 11:20	Tu-SY-G2.1 Quantifying Exposure and Risk Disproportionality in Environmental Justice Populations Timothy Barzyk, U.S. EPA, Research Triangle Park, NC, United States
11:20 - 11:40	Tu-SY-G2.2 Connecting the dots: Linking quantifiable environmental justice indicators to exposure assessment methodologies Timothy Barzyk, U.S. EPA, Research Triangle Park, NC, United States
11:40 - 12:00	Tu-SY-G2.3 For Better or For Worse: Environmental Health Promotion in Support of Community Action Eric Hall, US Environmental Protection Agency, Durham, NC, United States

TUESDAY, OCTOBER 11, 2016

11:00 - 12:00	Tu-PL-H2 Analytical Methods - II
11:00 - 11:20	Tu-PL-H2.1 Towards a metrological validation of gas sensors for exposure assessment Stefan Persijn, VSL, Delft, The Netherlands
11:20 - 11:40	Tu-PL-H2.3 A Novel Method for the Multi-Element Analysis of Dried Blood Spots Jessica Pawly, McGill University, Montreal, PQ, Canada
11:40 - 12:00	Tu-PL-H2.4 Proficiency tests for external quality assurance of human biomonitoring data Thomas Göen, University of Erlangen-Nuremberg, Erlangen, Germany
11:00 - 12:00	Tu-PL-12 Close Contact: Contaminants in Clothing Chair: Ike van der Veen, VU University Amsterdam, Amsterdam, The Netherlands
11:00 - 11:15	Tu-PL-I2.1 Accumulation of SVOCs in clothing from air Tunga Salthammer, Fraunhofer WKI, Braunschweig, Germany
11:15 - 11:30	Tu-PL-12.2 Effects Of Weathering On PFASs Used In Durable Water Repellence Of Textiles Ike van der Veen, VU University Amsterdam, Amsterdam, The Netherlands
11:30 - 11:45	Tu-PL-I2.3 Measurements of Dermal Uptake of Nicotine Directly from Air and Clothing Gabriel Bek, Technical University of Denmark, Lyngby, Denmark
11:45 - 12:00	Tu-PL-I2.4 SPME-based C-history method, accurate measurement of important parameters for assessing SVOC dermal exposure: diffusion and partition coefficients of SVOCs adsorbed by clothing Yinping Zhang, Tsinghua University, Beijing, People's Republic of China
12:00 - 14:00	Lunch - TransitZone
12:30 - 14:00	General Membership Meeting
14:00 - 15:30	Tu-SY-A3 The Exposome: From concept to practice - III Chair: Roel Vermeulen, Utrecht University, Utrecht, The Netherlands
14:00 - 14:22	Tu-SY-A3.1 Sensor Technologies and the Exposome Miranda Loh, Institute of Occupational Medicine, Edinburgh, United Kingdom
14:22 - 14:44	Tu-SY-A3.2 A Time Geography of the Exposome Michael Jerrett, University of California, Los Angeles, Los Angeles, CA, United States
14:44 - 15:06	Tu-SY-A3.3 Metabolomics for Environmental Biomonitoring Dean Jones, Emory University, Atlanta, GA, United States
15:06 - 15:30	Tu-SY-A3.4 Transcriptomics: at the interface of exposure and biological response Jelle Vlaanderen, IRAS, Utrecht University, Utrecht, The Netherlands
14:00 - 15:30	Tu-PL-B3 Urinary Biomarkers Chair: Martin Kraft, North Rhine Westphalian State Agency for Nature, Environment and Consumer Protection, Recklinghausen
14:00 - 14:18	Tu-PL-B3.1 Three-Year Temporal Variability in Urinary Concentrations of Environmental Chemicals among a Multi-Ethnic Cohort Of Girls In The United States.
14:18 - 14:36	Susan L. Teitelbaum, Icahn School of Medicine at Mount Sinai, New York, NY, United States Tu-PL-B3.2 Antibiotic internal exposure levels of School Children in East China based on biomonitoring Study Ying Zhou, Fudan University, Shanghai, People's Republic of China
14:36 - 14:54	Tu-PL-B3.3 Plasticizer monitoring in the urine of 2 to 6 year old children from North Rhine-Westphalia, Germany exposure trends within a period of 4 years Martin Kraft, North Rhine Westphalian State Agency for Nature, Environment and Consumer Protection,
14:54 - 15:12	Recklinghausen Tu-PL-B3.4 Assessing the impact of a single biomarker measurement to reconstruct the exposure of pregnant women to Di(2-ethylhexyl) phthalate Florence Zeman, INERIS, Verneuil-en-Halatte, France
15:12 - 15:30	Tu-PL-B3.5 Urinary concentrations of parabens in young children - A human biomonitoring study fron north Rhine Westphalia, Germany Yvonni Chovolou, North Rhine-Westphalian State Agency for Nature, Environment and Consumer
	Protection, Essen, Germany

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14:00 - 15:30	Tu-SY-C3 Health effects of air pollutants Chair: Otto Hänninen, National Institute for Health and Welfare, Kuopio, Finland
14:00 - 14:18	Tu-SY-C3.1 Global burden of diseases, injuries and risk factors, a bridge between disease epidemiology, risk assessment and public health policy Mohammad Forouzanfar, IHME, Seattle, WA, United States
14:18 - 14:36	Tu-SY-C3.2 Disease Burden Estimates for Ambient Air Pollution in Finland and Related Parametric ar Model Uncertainties Heli Lehtom, National Institute for Health and Welfare (THL), Kuopio, Finland
14:36 - 14:54	Tu-SY-C3.3 External cost of air pollution in Nordic countries evaluation using latest evidence in EVA model and development needs Mikael Skou Andersen, Aarhus University, Aarhus, Denmark
14:54 - 15:12	Tu-SY-C3.4 Air pollution and fetal growth- a study on ultrasound measures of Swedish children Ebba Malmqvist, Lund University, Lund, Sweden
15:12 - 15:30	Tu-SY-C3.5 Implications of Nordic building stock on concentration-exposure and respiratory uptake relationships Otto Hänninen, National Institute for Health and Welfare, Kuopio, Finland
14:00 - 15:30	Tu-SY-D3 How can knowledge of toxicokinetics, mode of action and biomonitoring help you in human exposure risk assessment of chemicals? Chair: Manoj Aggarwal, Dow AgroSciences, Abingdon, United Kingdom Chair: Sean Hays, Summit Toxicology, Lyons, CO, United States
14:00 - 14:05	Tu-SY-D3.1 How can knowledge of toxicokinetics, mode of action and biomonitoring help you in human exposure risk assessment of chemicals? Manoj Aggarwal, Dow AgroSciences, Abingdon, United Kingdom
14:05 - 14:27	Tu-SY-D3.2 Use of animal toxicokinetic and human biomonitoring data in human risk assessments Sean Hays, Summit Toxicology, Lyons, CO, United States
14:27 - 14:48	Tu-SY-D3.3 Innovative Strategies for Agrochemical Safety Assessments: Use of Toxicokinetic Data fo ArylexTM and RinskorTM Manoj Aggarwal, Dow AgroSciences, Abingdon, United Kingdom
14:48 - 15:09	Tu-SY-D3.4 Kinetics in vitro versus in vivo in the context of quantitative in vitro in vivo extrapolation (QIVIVE) Nynke Kramer, Utrecht University, Utrecht, The Netherlands
15:09 - 15:30	Tu-SY-D3.5 Use of mode of action (MoA)/adverse outcome pathways (AOP) un human health risk assessments Bette Meek, McLaughlin Centre for Risk Science, Ottawa, ON, Canada
14:00 - 15:30	Tu-SY-E3 The Effects of Climate Change on Human Exposures to Air Pollution Chair: Lisa Baxter, United States Environmental Protection Agency, Research Triangle Park, NC, United States
14:00 - 14:18	Tu-SY-E3.1 Climate change impacts on human exposures to air pollution Lisa Baxter, United States Environmental Protection Agency, Research Triangle Park, NC, United States
14:18 - 14:36	Tu-SY-E3.2 A changing climate: impacts on human exposures to O3 using an integrated modeling methodology Kathie Dionisio, U.S. EPA, Research Triangle Park, NC, United States
14:36 - 14:54	Tu-SY-E3.3 Quantifying recent associations between meteorology and multipollutant day types to inform future air quality projections John Pearce, Medical University of South Carolina, Charleston, SC, United States
14:54 - 15:12	Tu-SY-E3.4 Statistical Projections of Future Ozone Levels and Their Health Impacts in 5 US Cities Howard Chang, Emory University, Atlanta, GA, United States
15:12 - 15:30	Tu-SY-E3.5 Impact of Ambient Temperature on Pollutant Infiltration and Exposure Processes: How Current Field Studies Inform Future Climate Change Effects Donghai Liang, Emory University, Atlanta, GA, United States

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TUESDAY, OCTOBER 11, 2016

14:00 - 15:30	Tu-SY-F3 Current opportunities and challenges in exposure surveillance to implement prevention strategies at the national and European scale
	Chair: Sébastien Denys, Santé publique France, Saint Maurice, France
14:00 - 14:22	Tu-SY-F3.1 Occupational exposures to some chemical carcinogens by gender in France (from Matgn program).
14:22 - 14:44	Corinne Pilorget, French Institute for Public Health Surveillance / University of Lyon, Lyon, France Tu-SY-F3.2 Component of the Esteban study 2014-2016 to describe exposures to environmental contaminants in the French general population Clémence Fillol, French Institute for Public Health Surveillance, Saint Maurice, France
14:44 - 15:06	Tu-SY-F3.3 Using human biomonitoring to assess chemical exposures in French mothers of newborns 2011: results obtained in the framework of the French biomonitoring program Clémentine Dereumeaux, French Institute for Public Health Surveillance, Saint-Maurice, France
15:06 - 15:30	Tu-SY-F3.4 Improved Risk Assessment through the integration of toxicokinetic modelling to connect external exposure to internal dose: the case of persistent chemicals Camille Béchaux, ANSES, Maisons-Alfort, France
14:00 - 15:30	Tu-SY-G3 Advancing human exposure metrics in Life Cycle Assessment (LCA) and
	Chemical Alternatives Assessment (CAA) - I
	Chair: Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark Chair: Kathie Dionisio, U.S. EPA, Research Triangle Park, NC, United States
14:00 - 14:15	Tu-SY-G3.1 Framework for Multi-Pathway Cumulative Exposure for Comparative Assessments Tom McKone, University of California, Berkeley, CA, United States
14:15 - 14:30	Tu-SY-G3.2 What are the elements for considering exposure in alternative assessments? Ann Mason, American Chemistry Council, Washington, DC, United States
14:30 - 14:45	Tu-SY-G3.3 What are the elements required to improve exposure estimates in life cycle assessments? Alexi Ernstoff, DTU, Lyngby, Denmark
14:45 - 15:00	Tu-SY-G3.4 The Current State of Alternatives Assessment in REACH An Evaluation of 100+ Authorization Applications Steffen Foss Hansen, Technical University of Denmark, Kgs. Lyngby, Denmark
15:00 - 15:15	Tu-SY-G3.5 Identifying critical hazard and exposure information for Chemical Alternatives Assessment (CAA) decision-making
15:15 - 15:30	Cal Baier-Anderson, US Environmental Protection Agency, Washington, DC, United States Tu-SY-G3.6 Panel discussion "Ideas and debate around current challenges and gaps in addressing exposure in LCA and CAA"
	Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark
14:00 - 15:30	Tu-PL-H3 Pesticides Chair: Susanne Rudzok, North Rhine Westphalian State Agency for Nature, Environment and Consumer
	Protection, Recklinghausen
14:00 - 14:18	Tu-PL-H3.1 Influence of pesticide toxicokinetic parameters on the association between plasma and hair concentration Caroline Chata, LIH, Luxembourg, Luxembourg
14:18 - 14:36	Tu-PL-H3.2 Matphyto: a French program for retrospective pesticide exposure assessment Mounia El Yamani, French Institute for Public Health Surveillance, Paris, France
14:54 - 15:12	Tu-PL-H3.4 Relevance of hair analysis for the biomonitoring of pesticide exposure comparison with blood and urine in an animal model
15:12 - 15:30	Brice M.R. Appenzeller, Luxembourg Institute of Health, Esch-sur-Alzette, Luxembourg Tu-PL-H3.5 Detection of Glyphosate and its metbolite AMPA in the urine of 2- to 6-year children from the German state North Rhine-Westphalia Susanne Rudzok, North Rhine Westphalian State Agency for Nature, Environment and Consumer
	Protection, Recklinghausen
14:00 - 15:30	Tu-PL-13 Understanding Exposure Measurement Error Chair: Donghai Liang, Emory University, Atlanta, GA, United States
14:00 - 14:18	Tu-PL-I3.1 Assessment of Multi-Pollutant Indicators of Primary Traffic Pollution in a Near-Road Setting

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Donghai Liang, Emory University, Atlanta, GA, United States

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14:18 - 14:36	Tu-PL-I3.2 Evaluation of a Novel Approach to Refine Exposure Assessment in Epidemiological Studies of Chemicals with Short Half-Lives
14:36 - 14:54	Marc-André Verner, Universit de Montral, Montreal, Canada Tu-PL-I3.3 3D variability of different particle metrics in urban areas: findings from the supersito project in bologna (Italy)
14:54 - 15:12	Stefano Zauli Sajani, Arpae Emilia Romagna, Modena, Italy Tu-PL-I3.4 Data Assimilation for Improved Exposure Modeling of Source Impacts on PM2.5 for Continental United States
15:12 - 15:30	Armistead Russell, Georgia Institute of Technology, Atlanta, GA, United States Tu-PL-I3.5 Toddlers' inhalation exposure to pyrethroids in homes Jiaqi Zhou, Rutgers, The State University of New Jersey, Piscataway, NJ, United States
15:30 - 16:00	Poster viewing & Break - TransitZone
16:00 - 17:30	Tu-SY-A4 The Exposome: From concept to practice - IV Chair: Roel Vermeulen, Utrecht University, Utrecht, The Netherlands
16:00 - 16:22	Tu-SY-A4.1 Statistical Inference from Multipollutant Models in Exposome Studies Lützen Portengen, Institute for Risk Assessment Sciences (IRAS), Utrecht University, Utrecht, The Netherlands
16:22 - 16:44	Tu-SY-A4.2 Bioinformatics methods to enable exposome-based discovery Chirag Patel, Harvard Medical School, Boston, MA, United States
16:44 - 17:06	Tu-SY-A4.3 Causal Assessment of the Exposome Roel Vermeulen, Utrecht University, Utrecht, The Netherlands
17:06 - 17:30	Tu-SY-A4.4 Panel Discussion
16:00 - 17:30	Tu-PL-B4 Occupational Exposures Chair: Carla Viegas, ESTeSL-IPL; ENSP - UNL, Lisbon, Portugal
16:00 - 16:18	Tu-PL-B4.1 Differences in Fine Particulates and Estimated Pulmonary Ventilation Rate with Respect to Work Tasks of Wildland Firefighters: A Repeated Measures Study Anna Adetona, University of Georgia, Athens, GA, United States
16:18 - 16:36	Tu-PL-B4.2 Occupational Heat Exposure in Washington State Roofers: A Comparison of Area, Personal, and Core Body Temperatures. Miriam Calkins, University of Washington, Seattle, WA, United States
16:36 - 16:54	Tu-PL-B4.3 Airborne dioxins, furans and polycyclic aromatic hydrocarbons exposure to military personnel in Iraq Philip Hopke, Clarkson University, Potsdam, NY, United States
16:54 - 17:12	Tu-PL-B4.4 Fungi spores dimension matters in health effects: A methodology for more detail fungi exposure assessment
17:12 - 17:30	Carla Viegas, ESTeSL-IPL; ENSP - UNL, Lisbon, Portugal Tu-PL-B4.6 Influence of Genetic Variance on Occupational Exposure Assessment for 1,6-Hexamethylene Diisocyanate Leena A Nylander-French, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States
16:00 - 17:30	Tu-SY-C4 Advanced methods for characterizing air pollution exposures at community
	scale Michael Breen, US Environmental Protection Agency, Research Triangle Park, NC, United States
16:00 - 16:22	Tu-SY-C4.1 The evaluation of advanced human exposure models using personal exposure measurements Sean Beevers, King's College London, London, United Kingdom
16:22 - 16:44	Tu-SY-C4.2 Modeling Air Pollution Exposure Metrics for the Diabetes and Environment Panel Study (DEPS)
16:44 - 17:06	Michael Breen, US Environmental Protection Agency, Research Triangle Park, NC, United States Tu-SY-C4.3 Detailed near-port dispersion modeling for exposure assessments in Norfork, VA Sarayanan Arynachalam University of North Carolina at Changel Hill, Changel Hill, NC, United States
17:06 - 17:30	Saravanan Arunachalam, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States Tu-SY-C4.4 Web-based models for exposure assessment on a community scale Saravanan Arunachalam, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

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16:00 - 17:30	Tu-SY-D4 Human Biological Monitoring Following Chemical Incidents Paul Scheepers, Radboudumc, Nijmegen, The Netherlands
16:00 - 16:18	Tu-SY-D4.1 The role of human biological monitoring in civil protection in Germany Michael Mueller, University Medical Center Goettingen, Goettingen, Germany
16:18 - 16:36	Tu-SY-D4.2 Human biological monitoring following chemical incidents. Use of a guideline to support decisions to use or not use biomonitoring in The Netherlands. Paul Scheepers, Radboudumc, Nijmegen, The Netherlands
16:36 - 16:54	Tu-SY-D4.3 Assessing exposures to PCBs after an accidental fire in an electric transformer in France: (ir)relevance of human biomonitoring Philippe Pirard, InVS, Saint-Maurice, France
16:54 - 17:12	Tu-SY-D4.4 Human biomonitoring for emergency responders A valuable tool for exposure analysis and feedback on protection measures Michael Bader, BASF SE, Ludwigshafen, Germany
17:12 - 17:30	Tu-SY-D4.5 Human biomonitoring as a tool of objective exposure assessment: A case-study of a major train accident with acrylonitrile in Belgium An Van Nieuwenhuyse, Scientific Institute of Public Health Belgium, Brussels, Belgium
16:00 - 17:30	Tu-SY-E4 Air pollution exposure assessment getting personal: a European perspective Chair: Luc Int Panis, VITO, Mol, Belgium
16:00 - 16:15	Tu-SY-E4.1 The use of low cost sensors to assess personal exposure to air pollution: results from the HEALS pilot study Susanne Steinle, Institute of Occupational Medicine, Edinburgh, United Kingdom
16:15 - 16:30	Tu-SY-E4.2 Mobile-phone based air pollution exposure assessment Audrey de Nazelle, Imperial College London, London, United Kingdom
16:30 - 16:45	Tu-SY-E4.3 Measuring personal exposure to ultra-fine particles in the EXPOsOMICS project John Gulliver, Imperial College, London, United Kingdom
16:45 - 17:00	Tu-SY-E4.4 Using Wearables To Quantify Personal Levels Of Physical Activity And Exposure To Traffic Related Air Pollution In Three European Cities Evi Dons, VITO, Mol, Belgium
17:00 - 17:15	Tu-SY-E4.5 Moving from short-term to long-term personal exposure monitoring the COPE study Benjamin Barratt, King's College London, London, United Kingdom Tu SY E4.6 The CITE STREE Citizens Observators To the survival light and developing sixtings.
17:15 - 17:30	Tu-SY-E4.6 The CITI-SENSE Citizens Observatory Toolbox: visualising and evaluating citizen- contributed environmental exposure information Alena Bartonova, NILU - Norwegian Institute for Air Research, Kjeller, Norway
16:00 - 17:30	Tu-SY-F4 Advancing Exposure Science to Address Complex Environmental Issues Chair: Annette Guiseppi-Elie, US Environmental Protection Agency, Research Triangle Park, NC, United States
16:00 - 16:18	Tu-SY-F4.1 Advancing Exposure Science to Solve Complex Environmental Issues Jennifer Orme-Zavaleta, US Environmental Protection Agency, Research Triangle Park, NC, United States
16:18 - 16:36	Tu-SY-F4.2 Advancing Exposure Science Through Technology: Focus on Sensors Timothy Watkins, US Environmental Protection Agency, Research Triangle Park, NC, United States
16:36 - 16:54 16:54 - 17:12	Tu-SY-F4.3 Advancing Research on Exposures to Chemical Stressors Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada Tu-SY-F4.4 Exposure Science Research Preparedness- The Disaster Research Response Program
17:12 - 17:30	Aubrey Miller, National Institutes of Health, Bethesda, MD, United States Tu-SY-F4.5 Panel Discussion: Making Collaborations on Complex Environmental Issues Successful Annette Guiseppi-Elie, US Environmental Protection Agency, Research Triangle Park, NC, United States
16:00 - 17:30	Tu-SY-G4 Advancing human exposure metrics in Life Cycle Assessment (LCA) and Chemical Alternatives Assessment (CAA) - II Chair: Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark Chair: Kathie Dionisio, U.S. EPA, Research Triangle Park, NC, United States
16:00 - 16:15	Tu-SY-G4.1 Integrating Exposure into Chemical Alternatives Assessment Using a Qualitative Approach Bill Greggs, Soleil Consulting, LLC, Sanibel, FL, United States

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6:15 - 16:30	Tu-SY-G4.2 A flexible matrix-based human exposure assessment framework suitable for LCA and CAA Olivier Jolliet, University of Michigan, Ann Arbor, MI, United States
.6:30 - 16:45	Tu-SY-G4.3 Integrated approach for characterizing and comparing exposure-based impacts with life cycle impacts
6:45 - 17:00	Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark Tu-SY-G4.4 A modular Human Exposure Model (HEM) framework to characterize near-field chemical exposure in LCIA and CAA
7:00 - 17:15	Kathie Dionisio, U.S. EPA, Research Triangle Park, NC, United States Tu-SY-G4.5 Automated human and environmental exposure estimation to support prioritization of chemicals management actions
.7:15 - 17:30	Joseph Rinkevich, SciVera LLC, Charlottesville, VA, United States Tu-SY-G4.6 Panel discussion "Challenging and discussing the presented approaches and tools to address exposure in LCA and CAA" Peter Fantke, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark
16:00 - 17:30	Tu-PL-H4 Kinetics Chair: Céline Brochot, INERIS, Verneuil en Halatte, France
.6:00 - 16:18	Tu-PL-H4.1 Using Exposure Bands for Rapid Decision-Making in the RISK21 Tiered Exposure Assessment
.6:18 - 16:36	Bonnie Gaborek, DuPont, Newark, DE, United States Tu-PL-H4.2 Estimating the early-life exposure to two perfluorinated compounds (PFOS and PFOA) using PBPK modeling and biomarker measurements Céline Brochot, INERIS, Verneuil en Halatte, France
6:36 - 16:54	Tu-PL-H4.3 Simple Pharmacokinetic Modeling of Infant Impacts From Exposure to PCB 153 in Mothers Milk
.6:54 - 17:12	Matthew Lorber, United States Environmental Protection Agency, Washington, DC, United States Tu-PL-H4.4 Using biologically motivated models for the lactating mother and nursing infant to link iodine deficiency with thyroid hormone production and hypothyroxinemia Jeffrey Fisher, US Food and Drug Administration/ National Center for Toxicological Research, Jefferson,
7:12 - 17:30	AR, United S Tu-PL-H4.5 Integration of environmental and human PBPK exposure models: application of MERLIN-Expo modelling tool to POPs exposure in Venice lagoon. Artur Radomyski, University Ca' Foscari Venice, Venice, Italy
L6:00 - 17:3 0	Tu-PL-14 Neurotoxicants Chair: Megan Horton, Icahn School of Medicine at Mount Sinai, New York, NY, United States
.6:00 - 16:18	Tu-PL-I4.1 Outdoor Air Pollution and Brain Morphology in the Adult Health and Behavior II and Pittsburgh Imaging Project Cohorts
16:18 - 16:36	Sheila Tripathy, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States Tu-PL-I4.2 Dvelopmental neurotoxicity assessment of chemical mixtures in children Pim Leonards, VU University, Amsterdam, The Netherlands
6:36 - 16:54	Tu-PL-I4.3 Developing PBPK/PD model to characterize the mixture effect of TCDD and DEHP altering estradiol kinetic in ovary via crosstalk mechanism Raju Sharma, Universitat Rovira i Virgili, Tarragona, Spain
6:54 - 17:12	Tu-PL-I4.4 Use of Biomonitoring for Arsenic, Mercury and Lead to Assess Exposure and Health Risks in Children in a Northern Canadian Smelter Community
7:12 - 17:30	Adam Safruk, Intrinsik Environmental Sciences Inc., Mississauga, ON, Canada Tu-PL-I4.5 Perinatal lead exposure and white matter microstructure in children Megan Horton, Icahn School of Medicine at Mount Sinai, New York, NY, United States
7:45 - 19:00	European Strategy Workshop
.7:30 - 19:30	QIVIVE meeting (closed)
17:30 - 20:00	UNEP/SETAC Toxicity Workshop (closed)
9:00 - 20:30	Women's Networking Event - University Hall in Utrecht

TUESDAY, OCTOBER 11, 2016

POSTER SESSIONS

Tuesday October 11, 2016

Biomonitoring

- **Tu-Po-01** Urinary formic acid as a dose biomarker for Occupational Exposure to Formaldehyde *Giovanna Tranfo, INAIL Research, Monte Porzio Catone (RM), Italy*
- **Tu-Po-02 A** Perspective on Guidelines for Interpreting Risk at the Individual Level Derived from Biomonitoring Data for Northern First Nations

Brian Laird, University of Waterloo, Waterloo, Canada

- Tu-Po-03 Human Biomonitoring of Phthalates in Portuguese Children
 - Luísa Correia-Sá, REQUIMTE/LAQV Instituto Superior de Engenharia do Porto do Instituto Polit?cnico do Porto, Porto, Portugal
- **Tu-Po-04** The development of a point of care fluorescent immunosensor for the benzene biomarker S-PMA in human urine

Cees Koopal, TNO, Zeist, The Netherlands

- Tu-Po-05 Human Biomonitoring of Di(2-ethylhexyl) terephthalate in Portuguese Children
 - Frederik Lessmann, Institute for Prevention and Occupational Medicine of the German Social Accident Insurance, Institute of the Ruhr-Universit?t Bochum (IPA), Bochum, Germany
- **Tu-Po-06** Concentrations of urinary biomarkers of non-persistent environmental pollutants among 316 Polish men patients of infertility clinic.

Anna Klimowska, Medical University of Gda?sk, Gda?sk, Poland

Tu-Po-07a Development of capability and capacity to conduct biomonitoring in NJ

Zhi-Hua (Tina) Fan, New Jersey Department of Health, Trenton, NJ, United States

Environmental/Human Health

- **Tu-Po-07b** From the farm to the fork: fungal occupational exposure in the swine meat supply chain *Carla Viegas, ESTeSL-IPL; ENSP UNL, Lisbon, Portugal*
- **Tu-Po-09** Harmonizing exposure metrics and methods for sustainability assessments of food contact materials *Alexi Ernstoff, DTU, Lyngby, Denmark*
- **Tu-Po-12** Exposure to diesel emissions among truck drivers and consequent health risks prevention through PAH biomonitoring assessment

Audil Rashid, PMAS Arid Agriculture University, Rawalpindi, Pakistan

- **Tu-Po-13** Development of emission standards for metallurgical industry based on results of human health risk assessment
 - Arina Petrosian, State Institution "O.M. Marzeyev Institute for Public Health of the National Academy of Medical Sciences of Ukraine, Kyiv, Ukraine
- Tu-Po-16 Assessing and managing infectious risk: a conceptual model for exposure scientists

Yuli Huang, National Kaohsiung First University of Science and Technology, Kaohsiung, China, Republic of (Taiwan)

Tu-Po-17 Heritability of Synergistic Interactions Following Co-Exposure to Anticancer Drugs in Genetically-Diverse Lymphoblastoid Cell Lines

David Reif, North Carolina State University, Raleigh, NC, United States

Tu-Po-18a Improving Risk assessment of Metal mixture for Neurotoxicity: in-vitro Toxicological interactions studies of metal mixture

Raju Sharma, Universitat Rovira i Virgili, Tarragona, Spain

Measuring/monitoring/strategy

- **Tu-Po-19** Creating a risk index for allergic diseases with indoor and outdoor risk factors in Seoul: SungChul Seo, Korea University, Seoul, Korea, South
- **Tu-Po-20** Importance of size-selective particle sampling for assessing occupational exposures Results from three different occupational settings

Susana Viegas, ESTeSL-IPL, Lisbon, Portugal

- Tu-Po-21 French interregional variability of exposure to sunscreen products
 - Nicolas Dornic, LERCCO (Laboratory of chemical risk assessement for the consumer), Brest, France
- **Tu-Po-23** TTC for botanicals data analysis to substantiate and extend the TTC approach to botanicals *Kirstin Kosemund, Procter & Gamble, Schwalbach, Germany*
- **Tu-Po-24** Characterization of indoor air quality by canister sampling and TD-GC-MS analysis Gwendolyn Beckmann, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands

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Tu-Po-25 Recovery rates in the measurements of the concentrations of organophosphorus pesticide metabolites in urine extracted from childrens diaper

Naoko Oya, Naqoya City University Graduate School of Medical Sciences, Naqoya, Japan

Tu-Po-26 A study design to assess exposure levels of insecticides in 1.5-year-old children in Aichi Regional Subcohort of the Japan Environment and Childrens Study

Yuki Ito, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

Tu-Po-27 Indoor air quality in French hospitals: large scale sampling campaigns and first physical-chemical results *Arnaud Florentin, Lorraine University, Nancy, France*

Tu-Po-28 Testing a procedure for the identification of emerging chemical risks in the food chain *Caroline Gabrielle Merten, European Food Safety Authority, Parma, Italy*

Tu-Po-29 Assessment of exposure to Aflatoxin M1 Oaxaca cheese in the population of Veracruz City, Mexico Anne-Sophie Ficheux, Universit? Bretagne Occidentale, Brest, France

Tu-Po-30 Associations between plasma concentrations of PCB 28 and possible indoor exposure sources in Danish school children and mothers

Lisbeth E. Knudsen, University of Copenhagen, Copenhagen, Denmark

Tu-Po-31 General rules for a unified Hazard banding in compliance with the new Globally Harmonised System (GHS) for use in control banding tools

Mario Arnone, IFA of the DGUV, Sankt Augustin, Germany

Tu-Po-32 Identification and Treatment Options for Waste Streams of Certain Bromine Containing Flame Retardants (WAFER) *Mohamed Abdallah, University of Birmingham, Birmingham, United Kingdom*

Tu-Po-33 Consumer behaviour - compilation and evaluation of primary data

Astrid Heiland, Federal Institute for Risk Assessment (BfR), Berlin, Germany

Tu-Po-34 ETS personal exposure levels of Japanese people measured by using a passive nicotine sampler Satoshi Nakai, Yokohama National University, Yokohama, Japan

Tu-Po-35 Features of the air pollution from the pig farm in view of targeted chemical pollutants

Eugene Slautenko, State Institution "Public Health Institute" National Academy of Medical Sciences of Ukraine,

Kiev, Kiev, Ukraine

Tu-Po-36 How to reach harmonised exposure assessment under REACH (on behalf of REACH Exposure Expert Group - REEG)

Astrid Heiland, Federal Institute for Risk Assessment (BfR), Berlin, Germany

Tu-Po-37 Aggregate exposures to indoor semivolatile organic compounds in France.

Maud Pelletier, INSERM-U1085, Irset-Research Institute for Environmental and Occupational Health, Rennes, France

Tu-Po-38 Exposure to particulate matter in temple

Lin Ching-Chun, National Taiwan University/Institute of Occupational Medicine and Industrial Hygiene, Taipei, China, Republic of (Taiwan)

Tu-Po-39 Measurement of cortisol in human hair as a biological marker of chronic stress

Meng-Shan Tsai, National Taiwan University/Institute of Occupational Medicine and Industrial Hygiene, Taipei, China, Republic of (Taiwan)

Tu-Po-43 Magnitude and spatial patterns of ultrafine particulate matter associated with aircraft arrivals near Boston Logan Airport.

Chloe Kim, Boston University School of Public Health, Boston, MA, United States

Tu-Po-44 Personal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs), Fine Particulate Matter (PM2.5), and Carbon Monoxide (CO) During Cookstove Use in Rwandan Households

Leena A Nylander-French, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Tu-Po-45 Viability of Cultured Primary Human Skin Cells Treated with HDI Monomer and HDI Isocyanurate Leena A Nylander-French, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Tu-Po-47 Estimation of the daily soil/dust (SD) ingestion rate of children via hand-to-mouth contact using tracer elements Jin Ma, Chinese Research Academy of Environmental Sciences, Beijing, China, People's Republic of

Tu-Po-48 Aeroallergenic Monitoring of Ambrosia in Kyiv

Irina Kovtunenko, Marzeyev Institute for Public Health, National Academy of Medical Sciences of Ukraine, Kyiv, Ukraine

Tu-Po-49 Health based policy advice on consumption of home-produced eggs to achieve exposure reduction for POPs Ann Colles, Flemish Institute for Technological Research (VITO), Mol, Belgium

Tu-Po-51 Personal particulate matter exposure assessment of rural Malawian children and device wearability considerations

Ryan Chartier, RTI International, Research Triangle Park, NC, United States

Tu-Po-53 An Integrative Oxidative Potential Assay for Data Sharing and Validation Across Laboratories *Michelle North, University of Toronto, Toronto, ON, Canada*

Tu-Po-54 Legacy and Emerging Flame Retardants in Fire Station Dust Beverly Shen, University of California, Berkeley, Berkeley, CA, United States

Tu-Po-55 Developing a new Indoor Stationary and Personal Passive Air Sampler from PDMS and XAD-coated PDMS *Joseph Okeme, University of Toronto, Toronto, Canada*

Tu-Po-56 Personal, indoor and outdoor PM2.5 exposure characterization for household air pollution related to cooking in Lampang, Thailand

Ilse Ottenbros, Utrecht University, Nijmegen, The Netherlands

Tu-Po-58 Development of a new microextraction method and on-line derivatization coupled with GC-MS for analyzing of five metabolites of synthetic pyrethroids in urine samples

Anna Klimowska. Medical University of Gda?sk. Gda?sk. Poland

Tu-Po-59 Risk Assessment Guidance for Enzyme-containing Products

Francis Kruszewski, American Cleaning Institute, Washington, DC, United States

Tu-Po-60 Characterization of E-cigarette Users: a Descriptive Analysis of Participants Exposed to E-cigarettes in Maryland.

Stephanie Jarmul, Johns Hopkins University, Baltimore, MD, United States

Tu-Po-61 Generation of omics data using challenging samples *Kirsten Hertoghs, GenomeScan, Leiden, The Netherlands*

Late Breaking Abstracts

Tu-LBA-11 Human in vitro skin permeation rates for polycyclic aromatic hydrocarbons (PAHs) are altered with co-exposures to solar ultraviolet radiation (UVs)

Nancy B. Hopf, Institute for Work and Health (IST), Epalinges-Lausanne, Switzerland

Tu-LBA-12 AirSensEUR: Open platform and open access air quality monitoring Laurent Spinelle, European Comission - Joint Research Center, Ispra, Italy

Tu-LBA-13 Exposure to Flame Retardant Chemicals in the Home and Increased Risk for Papillary Thyroid Cancer *Heather Stapleton, Duke University, Durham, NC, United States*

Tu-LBA-14 Disposition of Silver Nanoparticles and C60 in Non-pregnant and Pregnant Rats After Intravenous or Oral Exposure and the Effect on the Biochemical Profile in Urine

Ninell Mortensen, RTI International, RTP, NC, United States

Tu-LBA-15 Assessing the effect of using exposure imputation approaches on the association between nitrate concentrations in public drinking water and birth outcomes in Ohio, 2006-2013

Larissa Pardo, United States Environmental Protection Agency (U.S. EPA), Washington, DC, United States

Tu-LBA-16 Biomarkers to assess exposure to nickel and chromium from e-cigarette use

Angela Aherrera, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Tu-LBA-17 Metal concentrations in e-cigarette liquid and aerosol samples: the contribution of the metallic coils. *Pablo Olmedo-Palma, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

Tu-LBA-18 Metal concentrations in processed meat samples.

Pablo Olmedo-Palma, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

WEDNESDAY, OCTOBER 12, 2016

08:30 - 10:00 We-SY-A1 Detection of new and emerging risks of chemicals (NERCs); the need for interdisciplinary cooperation Chair: Nicole Palmen, RIVM, Bilthoven, The Netherlands Chair: Annet Lenderink, Netherlands Center for Occupational Diseases, Amsterdam, The Netherlands 08:30 - 08:48 We-SY-A1.1 SIGNAAL, OSH-vigilance put into practice Annet Lenderink, Netherlands Center for Occupational Diseases, Amsterdam, The Netherlands 08:48 - 09:06 We-SY-A1.2 The Dutch approach on handling occupational dermatology Thomas Rustemeyer, VUmc university medical centre, Amsterdam, The Netherlands We-SY-A1.3 Talc dust: Food for thought 09:06 - 09:24 Remko Houba, NECORD, Utrecht, The Netherlands We-SY-A1.4 The NIOSH Health Hazard Evaluation Program and Investigations of New and Emerging 09:24 - 09:42 Teresa Seitz, U.S. Centers for Disease Control and Prevention / National Institute for Occupational Safety and Health

09:42 - 10:00 We-SY-A1.5 Panel Discussion

Nicole Palmen, RIVM, Bilthoven, The Netherlands

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WEDNESDAY, OCTOBER 12, 2016

08:30 - 10:00	We-SY-B1 The Worker Health and Efficiency (WE) Program: Understanding and mitigating the risks of Chronic Kidney Disease in El Salvadorian Sugarcane Cutters. Chair: Brian Curwin, National Institute for Occupational Safety and Health, Cincinnati, OH, United States
08:30 - 08:48	We-SY-B1.1 Mesoamerican Nephropathy A Primer Ilana Weiss, La Isla Foundation, Chicago, IL, United States
08:48 - 09:06	We-SY-B1.2 Pesticide and silica exposure in sugarcane cutters in El Salvador Brian Curwin, National Institute for Occupational Safety and Health, Cincinnati, OH, United States
09:06 - 09:24	We-SY-B1.3 Assessing Heat and Dehydration in Sugarcane Harvesters Rebekah Lucas, University of Birmingham, Birmingham, United Kingdom
09:24 - 09:42	We-SY-B1.4 Assessing Heat Stress Symptoms using Repeated Symptom Questionnaires in Sugarcane Cutters
09:42 - 10:00	Catharina Wesseling, Karolinska Institutet, Stockholm, Sweden We-SY-B1.5 From Intervention to Policy Jason Glaser, La Isla Foundation, Chicago, IL, United States
08:30 - 10:00	We-SY-C1 What are the requirements for nanomaterial exposure models? - I Chair: Joris Quik, RIVM, Bilthoven, The Netherlands Chair: Claus Svendsen, CEH, Oxford, United Kingdom
08:30 - 08:48	We-SY-C1.1 caLIBRAte establishment of the next generation nano-risk risk governance framework Keld Alstrup Jesen, National Research Centre for the Working Environment, Copenhagen, Denmark
08:48 - 09:06	We-SY-C1.2 Development of ConsExpo nano: a tool to investigate potential consumer exposure to nanomaterials in consumer spray products Susan Wijnhoven, RIVM, Bilthoven, The Netherlands
09:06 - 09:24	We-SY-C1.3 The SUN 3-Tier modelling-based consumer and worker exposure assessment models Antti Joonas Koivisto, National Research Centre for the Working Environment, Copenhagen, Denmark
09:24 - 09:42	We-SY-C1.4 Guidance for linking exposure assessment to risk assessment of nanomaterials Albert Koelmans, Wageningen University, Wageningen, The Netherlands
09:42 - 10:00	We-SY-C1.5 Modeling the fate of nano- and microplastic in freshwater systems Ellen Besseling, Wageningen University, Wageningen, The Netherlands
08:30 - 10:00	We-SY-D1 Biomonitoring: The Genie is out of the Bottle: Challenges in Data Quality and Interpretation Chair: Mary Mortensen, U.S. Centers for Disease Control, Atlanta, GA, United States Chair: Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States
08:30 - 08:52	We-SY-D1.1 Study quality: Biomonitoring, Environmental Epidemiology and Short-lived Chemicals (BEES-C) Instrument
08:52 - 09:14	Judy LaKind, LaKind Associates, LLC, Catonsville, MD, United States We-SY-D1.3 Urinary dilutiondo we know what we are doing? Correction methods and controversies Pablo Olmedo-Palma, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States
09:14 - 09:36	We-SY-D1.4 Temporal variability of environmental chemical urinary biomarkers – how predictive is a single sample? Susan L. Teitelbaum, Icahn School of Medicine at Mount Sinai, New York, NY, United States
09:36 - 10:00	We-SY-D1.5 Challenges in Interpreting Biomonitoring Data: Special Considerations in Childhood and Pregnant Women Mary Mortensen, U.S. Centers for Disease Control, Atlanta, GA, United States
08:30 - 10:00	We-SY-E1 Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - I Chair: John Little, Virginia Tech, Blacksburg, VA, United States
08:30 - 08:48	We-SY-E1.1 Exposure to SVOCs in the Indoor Environment Products, Emissions, Exposure, Pharmacokinetics and Biomarkers John Little Virginia Tech Blackshura, VA. United States
08:48 - 09:06	John Little, Virginia Tech, Blacksburg, VA, United States We-SY-E1.2 Comparison of available methods to measure the source/sink characteristic parameters important for estimating indoor exposure to SVOCs Yinping Zhang, Tsinghua University, Beijing, People's Republic of China
09:06 - 09:24	We-SY-E1.3 Predicting SVOC Emissions into Air and Foods in Support of High-Throughput Exposure Assessment Kristin Isaacs IIS EPA Research Triangle Park NC United States

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09:24 - 09:42	We-SY-E1.4 A quantitative visual dashboard to explore exposures to consumer product ingredients Daniel Vallero, National Exposure Research Laboratory, Research Triangle Park, NC, United States
09:42 - 10:00	We-SY-E1.5 PFASs and PFRs as SVOCs: Measurements and Modeling Thomas Webster, Boston University School of Public Health, Boston, MA, United States
08:30 - 10:00	We-SY-F1 Exposure science informing policy decision-making - I Chair: Tatsiana Dudzina, ExxonMobil Biomedical Science Inc., Brussels, Belgium
08:30 - 08:48	We-SY-F1.1 Improving chemical exposure scenarios for informed regulatory risk management Jan Urbanus, Shell (c/o Belgian Shell NV), Brussels, Belgium
08:48 - 09:06	We-SY-F1.2 Approaches for feeding use and exposure information into prioritisation of substances for regulatory action under REACH Andreas Ahrens, European Chemicals Agency, Helsinki, Finland
09:06 - 09:24	We-SY-F1.3 Potential policy impact of REACH restrictions (Article 68.2) on CMR substances present in construction articles in the EU and the related consumer exposure Katleen De Brouwere, VITO, Mol, Belgium
09:24 - 09:42	We-SY-F1.4 Approaches for refining the assessment of short-term infrequent consumer exposures in support of risk management decision making Tatsiana Dudzina, ExxonMobil Biomedical Science Inc., Brussels, Belgium
09:42 - 10:00	We-SY-F1.5 Development of an Ontology for Occupational Exposure Daniel Vallero, National Exposure Research Laboratory, Research Triangle Park, NC, United States
08:30 - 10:00	We-SY-G1 Pesticide Exposure: Developing Monitoring, Methods and Modeling in Human Health Risk Assessments (Consumer and Worker Risk) - I Chair: Jennifer Lantz, Bayer Crop Science, Research Triangle Park, NC, United States
08:30 - 08:48	We-SY-G1.1 The use of small-scale human volunteer studies in pesticide exposure assessment
	Kate Jones, Health & Safety Laboratory, Buxton, United Kingdom
08:48 - 09:06	We-SY-G1.2 Exposure assessment using biological monitoring for pesticide users in amenity horticulture. Alison Connolly, National University of Ireland, Galway, Galway, Ireland
09:06 - 09:24	We-SY-G1.3 Developing an operator exposure database in Brazil Daniele Lautenschalaeger, PROHUMA, Sao Paulo, Brazil
09:24 - 09:42	We-SY-G1.4 Residential Exposure Assessment to Direct Spray Drift in the United States: A Review of the Environmental Protection Agency Approach and Comparison to the European Approach Curt Lunchick, Bayer, Durham, NC, United States
09:42 - 10:00	We-SY-G1.5 Residential Exposure Assessment to Direct Spray Drift in Europe: A Critical View on EFSAs Default Values for Groundboom Applications Christian Kuester, Bayer, Monheim, Germany
08:30 - 10:00	We-SY-H1 Tool and methods for an exposure driven safe by design approach for
08:30 - 08:48	nanomaterials - I We-SY-H1.1 Safe by Design for nanomaterials, products and processes: the role of exposure science. Martie van Tongeren, Institute of Occupational Medicine, Edinburgh, United Kingdom
08:48 - 09:06	We-SY-H1.2 Framework on Release of nanomaterials: Concept, test procedures and link to exposure assessments
09:06 - 09:24	Burkhard Stahlmecke, IUTA, Duisburg, Germany We-SY-H1.3 Safety by design using dustiness and release rate data in modelling of potential exposure Keld Alstrup Jesen, National Research Centre for the Working Environment, Copenhagen, Denmark
09:24 - 09:42	We-SY-H1.4 Mesocosms: an approach for a realistic assessment of environmental release of nanomaterials
09:42 - 10:00	Armand Masion, CNRS-CEREGE, Aix en Provence, France We-SY-H1.5 GUIDEnano safe by design strategies to reduce release of NM from nano-enabled products Socorro Vázquez-Campos, LEITAT Technological Center, Barcelona, Spain
08:30 - 10:00	We-PL-I1 Waterborne Contaminants Chair: Konstantinos Makris, Cyprus University of Technology, Limassol, Cyprus
08:30 - 08:48	We-PL-I1.1 Circadian Exposomics and Diurnal Variation of Urinary Trihalomethanes Konstantinos Makris, Cyprus University of Technology, Limassol, Cyprus

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08:48 - 09:06	We-PL-I1.2 Disinfection by-product exposures and the risk of specific cardiac birth defects John Kaufman, Association of Schools and Programs of Public Health, Cincinnati, OH, United States
09:06 - 09:24	We-PL-I1.3 Associations Between Musculoskeletal Birth Defects and Disinfection By-Product Exposures in Massachusetts, USA
09:24 - 09:42	John Kaufman, Association of Schools and Programs of Public Health, Cincinnati, OH, United States We-PL-11.4 Spatial-temporal Indoor Exposures in Homes Affected by Trichloroethylene (TCE) -contaminated Soil and Groundwater Preliminary Findings Leonid Turczynowicz, University of Adelaide, Adelaide, SA, Australia
09:42 - 10:00	We-PL-I1.5 New Approaches to Legionella Detection in Environmental Samples The Way to Better Risk Assessment in Outbreak Situations Bernadett Bartha, Bavarian Health and Food Safety Authority, Munich, Germany
10:00 - 10:30	Poster viewing & Break - TransitZone
10:30 - 12:00	We-SY-A2 New Data Streams for 21st Century Exposure Science
10:30 - 10:48	We-SY-A2.1 Merging methods, measurements and models to estimate metabolism rates in fish and select mammal species
10:48 - 11:06	Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada We-SY-A2.2 Leveraging Publically Available Chemical Functional Use Data in Support of Exposure
10.40 - 11.00	Prediction
11:06 - 11:24	Kristin Isaacs, US EPA, Research Triangle Park, NC, United States We-SY-A2.3 New Data from EPAs Exposure Forecasting (ExpoCast) Project
11.00 - 11.24	Kristin Isaacs, US EPA, Research Triangle Park, NC, United States
11:24 - 11:42	We-SY-A2.4 Rapid methods to estimate exposure to VOCs and SVOCs in the indoor environment John Little, Virginia Tech, Blacksburg, VA, United States
11:42 - 12:00	We-SY-A2.5 Targeted and Non-Targeted Approaches to Measuring SVOC Exposure Using Handwipes
	and Indoor Dust
	Heather Stapleton, Duke University, Durham, NC, United States
10:30 - 12:00	We-PL-B2 Exposure Factors Chair: Audil Rashid, PMAS Arid Agriculture University, Rawalpindi, Pakistan
10:30 - 10:48	We-PL-B2.1 Update to the U.S. EPAs Guidelines for Human Exposure Assessment
10:48 - 11:06	Nicolle Tulve, U.S. Environmental Protection Agency, Research Triangle Park, NC, United States We-PL-B2.2 Total Exposure Health - A Revolutionary Way to Think of Exposure and Primary Prevention Kirk Phillips, US Air Force, Fall Church, VA, United States
11:24 - 11:42	We-PL-B2.4 Emerging exposure and policy interventions: A vulnerability analysis for urban
	population to air-borne particulate matter
11:42 - 12:00	Audil Rashid, PMAS Arid Agriculture University, Rawalpindi, Pakistan We-PL-B2.5 Human Exposure Factors as a Potential Determinant of Heterogeneity in City-Specific
	Associations between PM2.5 and Mortality
	Lisa Baxter, United States Environmental Protection Agency, Research Triangle Park, NC, United States
10:30 - 12:00	We-SY-C2 What are the requirements for nanomaterial exposure models? - II
	Chair: Joris Quik, RIVM, Bilthoven, The Netherlands Chair: Claus Svendsen, CEH, Oxford, United Kingdom
10:70 10:53	
10:30 - 10:52	We-SY-C2.1 A Multimedia Model For Nanoparticle Fate And Biotic Update In The Environment Stephen Lofts, NERC Centre for Ecology and Hydrology, Lancaster, United Kingdom
10:52 - 11:14	We-SY-C2.2 Modeling Environmental Interactions of Nanomaterials in Aquatic Ecosystems
	Mark Wiesner, Duke University, Center for the Environmental Implications of NanoTechnology, Durham, NC, United Sta
11:14 - 11:36	We-SY-C2.3 Environmental Exposure Modeling Of Engineered Nanoparticles
44.76 40.00	Johannes Meesters, Radboud University Nijmegen, Nijmegen, The Netherlands
11:36 - 12:00	We-SY-C2.4 Panel discussion on the requirements for nanomaterial exposure models Joris Quik, RIVM, Bilthoven, The Netherlands

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10:30 - 12:00	We-SY-D2 Biomonitoring: Uses in Policy and Regulations and Enhancements as a Result of Collaborative Efforts
	Chair: Marike Kolossa-Gehring, German Environment Agency (UBA), Berlin, Germany Chair: Antonia Calafat, US Centers for Disease Control and Prevention, Atlanta, GA, United States
10:30 - 10:48	We-SY-D2.1 The US National Health and Nutrition Examination Survey (NHANES) Antonia Calafat, US Centers for Disease Control and Prevention, Atlanta, GA, United States
10:48 - 11:06	We-SY-D2.2 Health Canada's human biomonitoring initiatives and their use in public policy Ellen Lye, Health Canada, Ottawa, Canada
11:06 - 11:24	We-SY-D2.3 The German Human Biomonitoring Program Marike Kolossa-Gehring, German Environment Agency (UBA), Berlin, Germany
11:24 - 11:42	We-SY-D2.4 The Flemish Environment and Health studies, a participative approach with impact on policies Greet Schoeters, VITO, MOL, Belgium
11:42 - 12:00	We-SY-D2.5 European Human Biomonitoring Initiative: objectives and strategy Marike Kolossa-Gehring, German Environment Agency (UBA), Berlin, Germany
10:30 - 12:00	We-SY-E2 Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - II Thomas Webster, Boston University School of Public Health, Boston, MA, United States
10:30 - 10:52	We-SY-E2.1 Investigating Associations Between Flame Retardant Application in Televisions and Furniture with Indoor House Dust Levels
11:52 - 11:14	Stephanie Hammel, Duke University, Durham, NC, United States We-SY-E2.2 Fate and Transport of Phthalates in Indoor Environments and the Influence of Temperature: A Case Study in a Test House Ying Xu, The University of Texas at Austin, Austin, TX, United States
11:14 - 11:36	We-SY-E2.3 Distribution of SVOCs between gas phase, particle phase and settled house dust Tunga Salthammer, Fraunhofer WKI, Braunschweig, Germany
11:36 - 12:00	We-SY-E2.4 A rapid method for measuring the air/surface partition coefficient of SVOCs Clara Eichler, Virginia Tech, Blacksburg, VA, United States
10:30 - 12:00	We-SY-F2 Exposure science informing policy decision-making - II Chair: Tatsiana Dudzina, ExxonMobil Biomedical Science Inc., Brussels, Belgium
10:30 - 10:48	We-SY-F2.1 Analyzing short-term benzene exposure data to assess the effectiveness of control measures in the refining sector
10:48 - 11:06	Daan Huizer, Caesar Consult, Nijmegen, The Netherlands We-SY-F2.2 Practical workplace specific risk communication including exposure assessment data Koen Verbist, Cosanta B.V., Amstelveen, The Netherlands
11:06 - 11:24	We-SY-F2.3 Interval testing: A new validation method for models in occupational safety and health Dorothea Koppisch, Institute of Occupational Safety an Health of the German Social Accident Insurance (IFA), Sankt Augu
11:24 - 11:42	We-SY-F2.4 Integrated exposure assessment to PAHs arising from the use of petroleum substances Katleen De Brouwere, VITO, Mol, Belgium
11:42 - 12:00	We-SY-F2.5 A study preparing for a strategy for a non-toxic environment, according to the 7th Environmental Action Programme Urban Boije, DG Environment of the European Commission, Brussels, Belgium
10:30 - 12:00	We-SY-G2 Pesticide Exposure: Developing Monitoring, Methods and Modeling in Human Health Risk Assessments (Consumer and Worker Risk) - II Chair: Jennifer Lantz, Bayer Crop Science, Research Triangle Park, NC, United States
10:30 - 10:48	We-SY-G2.1 Pesticide Exposure: Developing Monitoring, Methods and Modeling in Human Health Risk
10:48 - 11:06	Assessments (Consumer and Worker Risk) Muriel Ramirez-Santana, Universidad Catolica del Norte, Coquimbo, Chile We-SY-G2.2 The Cumulative Aggregate Risk Evaluation System - Next Generation (CARES NG) Model:
	Progress and Next Steps Bruce Young, Bayer CropScience, RTP, NC, United States
11:06 - 11:24	We-SY-G2.3 Approaches to Assessing Longitudinal Dietary Exposure in the CARES NG Software Giulia Vilone, Creme Global Ltd, Dublin, Ireland

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11:24 - 11:42	We-SY-G2.4 Case Study Comparison of Acute and 21-Day Rolling Average Dietary Exposure Assessments Conducted with DEEM-FCID and CARES NG Jason Johnston, The Acta Group, Washington, DC, United States
11:42 - 12:00	We-SY-G2.5 Quantification of Dermal Pesticide Absorption from Dried Foliar Residues James Clarke, University of Bath, Bath, United Kingdom Neil Morgan, Syngenta, Bracknell, United Kingdom
10:30 - 12:00	We-SY-H2 Tool and methods for an exposure driven safe by design approach for nanomaterials - II Chair: Martie van Tongeren, Institute of Occupational Medicine, Edinburgh, United Kingdom
10:30 - 10:48	We-SY-H2.1 Harmonisation of exposure assessment strategies and data storage to support data- driven safe by design approaches Wouter Fransman, TNO, Zeist, The Netherlands
10:48 - 11:06	We-SY-H2.2 Occupational exposure during the production, simulated use and end-of-life stages of nanoenabled products for energy harversting and energy storage Simon Clavaguera, CEA, Grenoble, France
11:06 - 11:24	We-SY-H2.3 Prevention through design (PtD): selection of proven risk management measures (RMMs) to control the exposure to ENMs Carlos Fito, ITENE, Paterna, Spain
11:24 - 11:42	We-SY-H2.4 The use of quantitative exposure models within the safe by design concepts Araceli Sanchez Jimenez, Institute of Occupational Medicine, Edinburgh, United Kingdom
11:42 - 12:00	We-SY-H2.5 Is the environment the great post release equaliser for nanomaterials, and can we design to help it? Claus Svendsen, CEH, Oxford, United Kingdom
10:30 - 12:00	We-PL-I2 Indoor Environment
	Chair: Michelle North, University of Toronto, Toronto, ON, Canada
10:30 - 10:48	We-PL-I2.1 Flammability Standards Impact Flame Retardant Concentrations in Dust Robin Dodson, Silent Spring Institute, Newton, MA, United States
10:48 - 11:06	We-PL-I2.2 Individual-Level Home Environmental Exposures are Associated with Respiratory Outcomes in the Kingston Allergy Birth Cohort (KABC) Michelle North, University of Toronto, Toronto, ON, Canada
11:06 - 11:24	We-PL-I2.3 The application of the DYLOS to assess indoor residential PM2.5 aerosols in the HEALS pilot study Remy Franken, TNO, Zeist, The Netherlands
11:24 - 11:42	We-PL-I2.4 Naturally ventilated schools located near traffic hotspots in developing countries: Risks and exposure to carcinogenic pollutants Darpa Jyethi, Indian Statistical Institute, North-East Centre, Tezpur, India
11:42 - 12:00	We-PL-I2.5 Indoor Exposure to Particulate Matter What do we know about exposures and their health consequences? David Butler, National Academies of Sciences, Engineering, and Medicine, Washington, DC, United States
12:00 - 13:30	Lunch - TransitZone
12:15 - 13:15	JESEE Board Meeting (closed)
12:15 - 13:15	2017 Kick-Off Meeting
12:30 - 13:15	ISES East Asia Chapter meeting
13:30 - 15:00	We-SY-A3 New Frontiers in Toxicology Create New Challenges for Risk Assessment: What must Exposure Scientists do to Meet the Challenge? Chair: Cian O' Mahony, Creme Global, Dublin, Ireland Chair: Joseph Rodricks, Ramboll Environ, Arlington, United States
13:30 - 13:58	We-SY-A3.2 PBPK Modelling for Environmental Chemicals: Linking to In Vitro Data Harvey Clewell, ScitoVation, Durham, NC, United States

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13:58 - 14:16	We-SY-A3.3 Multi-route Temporal Exposure Models for Pesticides in CARES NG and Linking to PBPK Modelling Cian O' Mahony, Creme Global, Dublin, Ireland		
14:16 - 14:34	We-SY-A3.4 Going from in vitro (hazard) data to final assessment and the need for refined exposure estimates in the assessment of genotoxicity risk Christina Hickey, Firmenich, Plainsboro, NJ, United States		
14:34 - 14:52			
13:30 - 15:00	We-SY-B3 Occupational Exposure Models - Development and/or Evaluation of REACH and other European and US models and tools (including tool for nanomaterials) - I		
13:30 - 13:45	We-SY-B3.1 The challenge of model building		
13:45 - 14:00	John Cherrie, Institute of Occupational Medicine, Edinburgh, United Kingdom We-SY-B3.2 ETEAM: Overview of the project background Martin Tischer, Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany		
14:00 - 14:15	We-SY-B3.3 Conceptual Evaluation and Uncertainty of Tier 1 Exposure Assessment Models Used Under REACH		
14.15 - 14.70	Susanne Hesse, Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, Germany We-SY-B7, 4 Validation and between user variability of tier 1 exposure models		
14:15 - 14:30 We-SY-B3.4 Validation and between-user variability of tier 1 exposure models Martie van Tongeren, Institute of Occupational Medicine, Edinburgh, United Kingdom			
14:30 - 14:45	We-SY-B3.5 Implications of the eteam project results		
	Martin Tischer, Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany		
14:45 - 15:00	We-SY-B3.6 External validation of exposure assessment tools used under REACH Eun Gyung (Emily) Lee, National Institute for Occupational Safety and Health, Morgantown, WV, United States		
13:30 - 15:00	We-SY-C3 Wristband Samplers Advancing Chemical Exposure Science - I Chair: Kim A. Anderson, Oregon State University, Corvallis, OR, United States		
13:30 - 13:48	We-SY-C3.1 The wristband sampler saga Kim A. Anderson, Oregon State University, Corvallis, OR, United States		
13:48 - 14:06	We-SY-C3.2 Moving Forward: Personal Exposure Monitoring, Citizen Science, and Disaster Research Aubrey Miller, National Institutes of Health, Bethesda, MD, United States		
14:06 - 14:24	We-SY-C3.3 Using Simple Wristband Samplers to Detect Chemical Exposures, Engage Citizen Scientists, and Inform Policy Lindsay McCormick, Environmental Defense Fund, Washington, DC, United States		
14:24 - 14:42	Lindsay McCormick, Environmental Defense Fund, Washington, DC, United States We-SY-C3.4 Assessing preschool childrens exposure to flame retardants, using silicone wristbands, and links with teacher-rated social behaviors		
	Molly Kile, Oregon State University, Corvallis, OR, United States		
14:42 - 15:00	We-SY-C3.5 Quantifying Exposure to Flame Retardants and Polyfluorinated Compounds using Silicone Wristbands and Handwipes		
	Stephanie Hammel, Duke University, Durham, NC, United States		
13:30 - 15:00	We-SY-D3 UBA HBM Colloquium I - Human Biomonitoring in International Population Studies Improving our Knowledge of Environmental Public Health		
13:30 - 13:48	We-SY-D3.1 Describing exposures to pesticides in French pregnant women: results from the perinatal component of the French HBM program based on the Elfe cohort Clémentine Dereumeaux, French Institute for Public Health Surveillance, Saint-Maurice, France		
13:48 - 14:06	We-SY-D3.2 The German Human Biomonitoring Program: a Powerful Tool for Accomplishing Public Health Tasks		
14:06 - 14:24	André Conrad, German Environment Agency (UBA), Berlin, Germany We-SY-D3.3 NHANES: Biomonitoring experience and results		
	Antonia Calafat, US Centers for Disease Control and Prevention, Atlanta, GA, United States		
14:24 - 14:42	We-SY-D3.4 Biomonitoring as part of exposome measurement in Japan Environment and Children's Study Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan		

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14:42 - 15:00	We-SY-D3.5 Canadian Health Measures Survey: Derivation of human biomonitoring reference values for the general population Douglas Haines, Environmental and Radiation Health Sciences Directorate, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Canada	
13:30 - 15:00	We-SY-E3 Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - III Chair: John Little, Virginia Tech, Blacksburg, VA, United States	
13:30 - 13:45	We-SY-E3.1 Using Ultrafine Particles as a Metric for Characterizing SVOC Contamination of Surfacharles Weschler, Rutgers University, Piscataway, NJ, United States	
13:45 - 14:00	We-SY-E3.2 Contribution of Dermal Absorption to Body Burdens of SVOCs: Absorption from Air vs. Absorption from Skin Surface Lipids Charles Weschler, Rutgers University, Piscataway, NJ, United States	
14:00 - 14:15		
14:30 - 14:45	We-SY-E3.5 The role of clothing in dermal uptake of SVOCs from indoor air	
14:45 - 15:00	Glenn Morrison, Missouri University of Science & Technology, Rolla, MO, United States We-SY-E3.6 Towards understanding the role of clothing in human exposure to SVOCs Joseph Okeme, University of Toronto, Toronto, Canada	
13:30 - 15:00	We-SY-F3 Measuring marijuana exposure in a changing legal landscape Chair: Benjamin Blount, Centers for Disease Control and Prevention, Chamblee, GA, United States Chair: Karen Wilson, University of Colorado School of Medicine, Aurora, CO, United States	
13:30 - 13:48	We-SY-F3.1 Exposure to THC in Dutch suspected impaired drivers Beitske Smink, Netherlands Forensic Institute, The Hague, The Netherlands	
13:48 - 14:06	We-SY-F3.2 Exposures Related to Marijuana use by Smoking, Vaping, and Ingesting Benjamin Blount, Centers for Disease Control and Prevention, Chamblee, GA, United States	
14:06 - 14:24	We-SY-F3.3 Marijuana smoke exposure among hospitalized children exposed to tobacco smoke Karen Wilson, University of Colorado School of Medicine, Aurora, CO, United States	
14:24 - 14:42	We-SY-F3.4 Exposures Resulting From Active Use of Marijuana via Smoking Peggy Van der Pol, Trimbos-instituut, Utrecht, The Netherlands	
14:42 - 15:00	We-SY-F3.5 Diversity of Modes of Exposure to Marijuana in a Sample of US Adult Co-Users of Marijuana and Tobacco Erica Peters, Battelle Public Health Center for Tobacco Research, Baltimore, MD, USA	
13:30 - 15:00	We-SY-G3 Exposure Science and 21st century oil and gas development - I Chair: Lisa McKenzie, Colorado School of Public Health, University of Colorado Anschutz Campus, Aurora, CO, United States Chair: Erin Haynes, University of Cincinnati, Cincinnati, OH, United States	
13:30 - 13:48	We-SY-G3.1 Unconventional Natural Gas Waste Injection and Public Health Erin Haynes, University of Cincinnati, Cincinnati, OH, United States	
13:48 - 14:06	We-SY-G3.2 A summary of fires, explosions, and pollutant releases at Oil and Gas Operations in Colorado from 2000 to 2014. Lisa McKenzie, Colorado School of Public Health, University of Colorado Anschutz Campus, Aurora, CO,	
14:06 - 14:24	United States We-SY-G3.3 Spatial and Temporal Patterns of Methane, Carbon Dioxide, Carbon Monoxide, and Ozon in the Denver-Julesburg Basin Across Regions of Various Oil and Gas Production Densities Joanna Casey, University of Colorado at Boulder, Boulder, CO, United States	
14:24 - 14:42	We-SY-G3.4 Noise Levels from a Producing Oil Well Pad and their Potential Impacts on the Surrounding Community John Adgate, University of Colorado, Aurora, CO, United States	
14:42 - 15:00	We-SY-G3.5 Movement of PAHs emitted from natural gas extraction wells L. Blair Paulik, Oregon State University, Corvallis, OR, United States	

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13:30 - 15:00	We-PL-H3 Spatio-Temporal Measures - I Chair: Jane Clougherty, University of Pittsburgh, Pittsburgh, PA, United States	
13:30 - 13:48	We-PL-H3.1 Measuring and assessing individual exposures of external radiation doses in the evacuation zone in Fukushima	
13:48 - 14:06	Wataru Naito, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan We-PL-H3.2 Bridging Exposure Science and Randomized Controlled Clinical Trials (RCCTs) Jane Clougherty, University of Pittsburgh, Pittsburgh, PA, United States	
14:06 - 14:24	We-PL-H3.3 Long-Duration Spatiotemporal Modeling of Nitrogen Oxides for Exposure Estimation at High Resolutions	
14:24 - 14:42	Rima Habre, University of Southern California, Los Angeles, CA, United States We-PL-H3.4 Measurement and Geospatial Modelling of Ultrafine Particle Concentrations Greg Evans, Southern Ontario Centre for Atmospheri Aerosol Research, University of Toronto, Toronto, ON, Canada	
14:42 - 15:00	We-PL-H3.5 Seasonal difference of exposure factors of personal care products in Korea Miyoung Lim, Graduate School of Public Health, Seoul National University, Seoul, Korea, South	
13:30 - 15:00	We-PL-I3 Sensor Technology Chair: John Bolte, The Hague University of Applied Sciences, The Hague, The Netherlands & RIVM, Bilthoven, The Netherlands	
13:30 - 13:48	We-PL-I3.1 A Trial of Low-Cost Sensors to Observe Variations and Sources of Airborne Particle Levels in Homes in a Wood-Burning Community Ian Longley, National Institute of Water & Atmospheric Research, Auckland, New Zealand	
13:48 - 14:06	We-PL-I3.2 Metabolomic and inflammatory responses to in-vehicle traffic pollution in a panel of car commuters Donghai Liang, Emory University, Atlanta, GA, United States	
14:06 - 14:24	We-PL-I3.3 Using Wearable Cameras to Identify Microenvironments Relevant to Particulate Exposure in India	
14:24 - 14:42	Maëlle Salmon, ISGlobal, Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain We-PL-13.4 Individual variation in temporal relationships between exposure to radiofrequency electromagnetic fields and non-specific physical symptoms: A new approach in studying electrosensitivity John Bolte, The Hague University of Applied Sciences, The Hague, The Netherlands & RIVM, Bilthoven, The Netherlands	
14:42 - 15:00	We-PL-13.5 Low-cost sensors to estimate long-term exposure to household air pollution Ariadna Curto, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain	
15:00 - 15:30	Poster viewing & Break - TransitZone	
15:30 - 17:00	We-SY-A4 Exposure Sciences with Stakeholders in Contested Societal Debates About the Risk of Toxic Substances Chair: Paul Scheepers, Radboudumc, Nijmegen, The Netherlands Chair: Nicole Palmen, RIVM, Bilthoven, The Netherlands	
15:30 - 15:52	We-SY-A4.1 Including stakeholders in exposure science. An introduction to tailor-made approaches in The Netherlands	
15:52 - 16:14	Jeroen Devilee, RIVM, Bilthoven, The Netherlands We-SY-A4.2 Exposure to Hexavalent Chromium and Health Effects among Military Personnel: Designing the Study Using Input from Stakeholders Rob Beelen, National Institute of Public Health and the Environment (RIVM), Bilthoven, The Netherlands	
16:14 - 16:36	We-SY-A4.3 Public risk perception of exposure to poly-urethane used in house insulation The Dutch approach of developing an evidence-based diagnostic guideline Thomas Rustemeyer, VUmc university medical centre, Amsterdam, The Netherlands	
16:36 - 17:00	We-SY-A4.4 Exposure science, what else? Pesticides and residents. Mark Montforts, National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands	

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WEDNESDAY, OCTOBER 12, 2016

15:30 - 17:00	We-SY-B4 Occupational Exposure Models - Development and/or Evaluation of REACH and other European and US models and tools (including tool for nanomaterials) - II Chair: Eun Gyung (Emily) Lee, National Institute for Occupational Safety and Health, Morgantown, WV, United States	
15:30 - 15:48	We-SY-B4.1 TREXMO: a Translation Tool to Support the Use of Regulatory Occupational Exposure Models	
15:48 - 16:06	Nenad Savic, Institute for Work and Health (IST), Lausanne, Switzerland We-SY-B4.2 Confirmation of the NIOSH Occupational Exposure Banding Process Lauralynn McKernan, National Institute for Occupational Safety and Health, Cincinnati, OH, United States	
16:06 - 16:24	We-SY-B4.3 Evaluation of available dermal exposure models. Jody Schinkel, TNO, Zeist, The Netherlands	
16:24 - 16:42	We-SY-B4.4 Evaluation of tools for estimating (occupational) exposure to nanomaterials Araceli Sanchez Jimenez, Institute of Occupational Medicine, Edinburgh, United Kingdom	
16:42 - 17:00	We-SY-B4.5 ChemSTEER: A Computerized Tool for Assessing Workplace Releases and Exposures of Chemicals Nhan Nguyen, US EPA, Washington DC, VA, United States	
15:30 - 17:00	We-SY-C4 Wristband Samplers Advancing Chemical Exposure Science - II Chair: Kim A. Anderson, Oregon State University, Corvallis, OR, United States	
15:30 - 15:48	We-SY-C4.1 Silicone Wristbands as a Complementary PAH Exposure Assessment Tool Holly Dixon, Oregon State University, Corvallis, OR, United States	
15:48 - 16:06	We-SY-C4.2 Passive wristband samplers assess PAH exposure of individuals living near natural gas extraction	
16:06 - 16:24	L. Blair Paulik, Oregon State University, Corvallis, OR, United States We-SY-C4.3 Passive Sampler Devices (PSDs) Adapted for Use in Horses -Sentinels for Human Health Risks	
16:24 - 16:42	Kathleen Mullen, College of Veterinary Medicine - Cornell University, Ithaca, NY, United States We-SY-C4.4 Silicone wristbands detect individuals pesticide exposures in West Africa Carey Donald, Oregon State University, Corvallis, OR, United States	
16:42 - 17:00	We-SY-C4.5 Personal Passive Sampling in Peru: Magnitude and Sources of Diverse Chemicals Measured with Silicone Wristbands	
	Alan Bergmann, Oregon State University, Corvallis, OR, United States	
15:30 - 17:00	We-SY-D4 UBA HBM Colloquium II - Human Biomonitoring in Europe Harmonising Instruments and Data for Science and Policy-making	
15:30 - 15:45	We-SY-D4.1 Marike Kolossa-Gehring, German Environment Agency (UBA), Berlin, Germany	
15:45 - 16:00	We-SY-D4.2 New biomonitoring methods for HBCDD, BHT and 4-MBC Wolfgang Gries, Currenta GmbH & Co. OHG, Leverkusen, Germany	
16:00 - 16:15	We-SY-D4.3 Urinary metabolites of the UV filter Ethylhexyl Salicylate to be used as biomarkers of exposure in human biomonitoring Daniel Bury, Institute for Prevention and Occupational Medicine of the German Social Accident Insurance (IPA), Bochum, Germany	
16:15 - 16:30	We-SY-D4.4 Human biomonitoring of the exposure to the flavorant 2-(4-tert-butylbenzyl) propionaldehyde (lysmeral) Gerhard Scherer, Bioanalytical Laboratory (ABF GmbH), Munich, Germany	
16:30 - 16:45	We-SY-D4.5 Human metabolism of the biocidal compounds methylisothiazolinone and chloromethylisothiazolinone: excretion kinetics of N-methylmalonamic acid in urine Thomas Schettgen, Institute and Out-patient Clinic of Occupational Medicine, Aachen, Germany	
16:45 - 17:00	We-SY-D4.6 Human Biomonitoring of the fragrant compound Geraniol – The challenge of exposure assessment of natural products and nature-identical chemicals Michael Bader, BASF SE, Ludwigshafen, Germany	

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15:30 - 17:00	We-SY-E4 Exposure to SVOCs in the Indoor Environment - Products, Emissions, Exposure, Pharmacokinetics and Biomarkers - IV Chair: Thomas Webster, Boston University School of Public Health, Boston, MA, United States	
15:30 - 15:48	We-SY-E4.1 Probabilistic prediction of indoor aggregate SVOC exposure John Kissel, University of Washington, Seattle, WA, United States	
15:48 - 16:06	We-SY-E4.2 Characterizing Cumulative Uptake of Indoor SVOCs Based on Physicochemical Interactions Between Humans and Their Residential Environments Tom McKone, University of California, Berkeley, CA, United States	
16:06 - 16:24	We-SY-E4.3 A modelling framework to link aggregate exposure pathways with internal exposures Jon Arnot, ARC Arnot Research and Consulting, Toronto, ON, Canada	
16:24 - 16:42	We-SY-E4.5 Biomarkers of human exposure to organophosphate flame retardants Adrian Covaci, University of Antwerp, Wilrijk-Antwerp, Belgium	
16:42 - 17:00	We-SY-E4.6 Panel Discussion	
15:30 - 17:00	We-SY-F4 E-Cigarettes, Exposures, and (Health) Effects Chair: Jona Johnson, UGA, Athens, GA, United States Chair: Jonathan Thornburg, RTI International, Research Triangle Park, NC, United States	
15:30 - 15:48	We-SY-F4.1 An Overview of Centers for Disease Control and Prevention (CDC)s E-cigarette work Patrick Breysse, Centers for Disease Control and Prevention, Atlanta, GA, United States	
15:48 - 16:06	We-SY-F4.2 Properties of E-Cigarette Emissions that Promote Secondhand Exposure Jonathan Thornburg, RTI International, Research Triangle Park, NC, United States	
16:24 - 16:42	We-SY-F4.4 The Health Risks of Using E-cigarettes Wouter Visser, Dutch National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands	
16:42 - 17:00	We-SY-F4.5 Electronic Cigarette Social Gatherings: Attendees and Exposures Jona Johnson, UGA, Athens, GA, United States	
15:30 - 17:00	We-SY-G4 Exposure Science and 21st century oil and gas development - II	
15:30 - 15:52 15:52 - 16:14	We-SY-G4.1 Exposure Assessment in Unconventional Natural Gas and Health Studies Sara Rasmussen, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States We-SY-G4.2 Study Design and Implementation Approaches for Conducting Population-Based Studies Near Oil and Natural Gas Development Sites: A Case Study from the Denver Julesburg Basin	
16:14 - 16:36	John Adgate, University of Colorado Denver, Aurora, CO, United States We-SY-G4.3 Assessing the potential link between chemical exposures from unconventional oil and gas development and risk of childhood leukemia Nicole Deziel, Yale School of Public Health, New Haven, CT, United States	
16:36 - 17:00	We-SY-G4.4 Childhood Leukemia and Residential Proximity to Oil and Gas Development Lisa McKenzie, Colorado School of Public Health, University of Colorado Anschutz Campus, Aurora, CO, United States	
15:30 - 17:00	We-PL-H4 Spatio-Temporal Measures - II Chair: Kyle P Messier, University of Texas at Austin; Environmental Defense Fund, Austin, ТХ, United States	
15:30 - 15:48	We-PL-H4.1 Assessing the Impact of the El Nio Southern Oscillation Phenomenon upon Extreme Weather/Climate Events at the Local and Regional Level Across the Contiguous United States Sutyajeet Soneja, University of Maryland, College Park, College Park, MD, United States	
15:48 - 16:06	We-PL-H4.2 Spatial Variability of Air Quality Data from Extensive Mobile Monitoring with Google Street View Cars	
16:06 - 16:24	Kyle P Messier, University of Texas at Austin; Environmental Defense Fund, Austin, TX, United States We-PL-H4.3 Temporal Trends in Exposure to C4-C8 Perfluoroalkyl Substances among U.S. Adults Sherry (Xiaoyun) Ye, Centers for Disease Control and Prevention, Atlanta, GA, United States	
16:24 - 16:42	We-PL-H4.4 Spatial and temporal variation of traffic-related air pollution in two urban neighborhoods in the Boston metropolitan area (MA, USA) John Durant, Tufts University, Medford, MA, United States	
16:42 - 17:00	We-PL-H4.5 Relationships of Indoor, Outdoor, and Personal Exposure to Fine Particles Concentrations in Hong Kong	

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15:30 - 17:00	We-PL-14 Continuous/Real Time Measures Chair: Sean Tyrrel, Cranfield University, Cranfield, United Kingdom	
15:30 - 15:48	We-PL-I4.1 Wearable and Stationary IoT Chemical and Location Sensor Devices with Emergency Communication. Kenneth Brown, NIOSH, Cincinnati, OH, United States	
15:48 - 16:06	We-PL-I4.2 Exposure Assessment Using Long Term Sampling with Evacuated Canisters in both Occupational and Non-Occupational Indoor Environments. Alan Rossner, Clarkson University, Potsdam, NY, United States	
16:06 - 16:24	We-PL-I4.3 Innovative Sensors and Models for City-Level Air Pollution Exposure Monitoring Nicholas Hamm, University of Twente, Enschede, The Netherlands We-PL-I4.4 Real time detection and characterization of bioaerosols from environmental sources Sean Tyrrel, Cranfield University, Cranfield, United Kingdom	
16:24 - 16:42		
16:42 - 17:00	We-PL-14.5 Characterizing real-time vertical air pollution gradients in an urban environment - Vegas (vertical gradient study) Marloes Eeftens, Swiss Tropical and Public Health Institute, Basel, Switzerland	
17:00 - 17:30	Student/New Researcher Mixer	
17:30 - 19:00	IT/Sensor Fair, Exhibitor fair and ISES Committee Fair - TransitZone	

POSTER SESSIONS

Wednesday October 12, 2016

Biomonitoring

We-Po-01 Relationship between the external exposure and biomarker of 1-bromopropane in workplace *Yu-Wen Lin, Fu Jen Catholic University, New Taipei City, China, Republic of (Taiwan)*

We-Po-02 Human Urinary Biomarkers of the UV Filter Ethylhexyl Salicylate

Daniel Bury, Institute for Prevention and Occupational Medicine of the German Social Accident Insurance (IPA),

Bochum, Germany

We-Po-03 Detection of tetrahydroxylated metabolites in hair as biomarkers of human exposure to Polycyclic Aromatic Hydrocarbons

Brice M.R. Appenzeller, Luxembourg Institute of Health, Esch-sur-Alzette, Luxembourg

We-Po-04 Trisaminohexyl Isocyanurate, a Biomarker for HDI Isocyanurate Exposure

Leena A Nylander-French, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Environmental/Human Health

We-Po-05 Indoor environmental quality in multi storey office buildings and implication on the health and safety of workers. Evaluation of Lagos State Government buildings in Nigeria

Shamusideen Kadiri, Zub Chord Tech Ventures, Lagos, Nigeria

We-Po-06 Long-term exposure to ambient air pollution and ischemic heart disease among elderly residents of Tokyo metropolitan area, Japan

Haruya Sakai, Japan Automobile Research Institute, Tsukuba, Japan

We-Po-08 Life-stage specific windows of susceptibility to lead and manganese exposure and childrens behavior *Megan Horton, Icahn School of Medicine at Mount Sinai, New York, NY, United States*

We-Po-11 Short-term effects of exposure to air pollution and mortality: are those previously diagnosed with cancer at greater risk?

Paul Villeneuve, Carleton University, Ottawa, Canada

We-Po-13 Factors Affecting Occupational Health Among Mushroom Farmers Dond Poo Daeng Village Huai Po Sub Distric, Muang Distric, Kalasin Province

Kallaya Harnpicharnchai, Faculty of Public Health, Mahasarakham, Thailand

We-Po-15 Mercury exposure and it's health effect on children in six cities, China Daeseon Kim, National Institute of Environmental Research, Korea, Inchon, Korea, South

We-Po-16 Toward a Comprehensive Assessment of the Health Effects of Chronic VOC Releases from Gas Stations Markus Hilpert, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

We-Po-17 Municipal Solid Waste Burning: Discoloring the Taj Mahal and Human Health Impacts in Agra Raj Lal, Georgia Institute of Technology, Atlanta, GA, United States

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Measuring/monitoring/strategy

We-Po-18 Associations among personal care product use patterns and exogenous hormone use in the NIEHS Sister Study *Kyla Taylor, NIEHS, Durham, United States*

We-Po-19 Factors determining the variability of exposure to contact allergens from topical aromatherapy *Nicolas Dornic, LERCCO (Laboratory of chemical risk assessement for the consumer), Brest, France*

We-Po-20 Task-based approach used on surfaces sampling strategy definition The case of antineoplastic occupational exposure

Susana Viegas, ESTeSL-IPL, Lisbon, Portugal

We-Po-22 The MAPEC_LIFE Study: indoor/outdoor air pollution exposure and lifestyles of the prospective cohort *Antonella De Donno, University of Salento, Lecce, Italy*

We-Po-23 Interpolation in between Road Measurements in Radiofrequency Electromagnetic Field Exposure Assessment John Bolte, The Haque University of Applied Sciences, The Haque, The Netherlands & RIVM, Bilthoven, The Neth

We-Po-24 Exploring determinants of exposure to formaldehyde in a hospital pathology laboratory *Cornelis van Loon, Radboudumc, Nijmegen, The Netherlands*

We-Po-25 Pesticide residues in bayberry (Myrica rubra) and cumulative exposure assessment for consumers in Zhejiang, China

Guiling Yang, Zhejiang Academy of Agricultural Sciences, Institute of Quality and Standard of Agricultural Products, Hangzhou, China, People's Republic of

We-Po-26 Combination of food monitoring and total diet studies in a combined food safety approach Results from the TDS-Exposure Project

Anna Elena Kolbaum, Federal Institute for risk assessment (BfR), Berlin, Germany

We-Po-27 Analysis of Toolkit and Strategy Developments for the Exposure Assessment of Nanomaterials in Consumer Products

Yasmin Sommer, Federal Institute for Risk Assessment (BfR), Berlin, Germany

We-Po-28 Development of an on-line analytical method for the quantification of carbamate pesticides and metabolites in human matrices

Pim Leonards, VU University, Amsterdam, The Netherlands

We-Po-29 Mercury exposure in small and artisanal gold mining in Suriname

Romilda Boerleider, Radboud Institute for Health Sciences, Radboudumc, Nijmegen, The Netherlands

We-Po-30 Research on Fugitive Formaldehyde and TVOC in Public Exhibition AreaA Measurement and Control Study Chane-Yu Lai, Chung Shan Medical University, Taichung, China, Republic of (Taiwan)

We-Po-31 Study on Bioaerosol Characteristics in Semi-indoor Wood Processing Workplace Chane-Yu Lai, Chung Shan Medical University, Taichung, China, Republic of (Taiwan)

We-Po-32 Sampling Evaluation of Bioaerosol and Antibiotic-Resistant Characteristics in Intensive Care Unit Chane-Yu Lai, Chung Shan Medical University, Taichung, China, Republic of (Taiwan)

We-Po-33 Polydimethylsiloxane as a Personal Passive Air Sampler (PPAS) for Measuring Semi-Volatile Organic Compounds

Joseph Okeme, University of Toronto, Toronto, Canada

We-Po-34 Non-Euclidean distance based kriging, water quality monitoring, and remote sensing data to predict Vibrio parahaemolyticus in the Chesapeake Bay

Benjamin Davis, Johns Hopkins School of Public Health, Baltimore, MD, United States

We-Po-35 Integration of Alternative Methods for an Ab Initio Chemical Safety Assessment *Alicia Paini, Joint Research Centre, Ispra, Italy*

We-Po-36 Toxicokinetics Strategy highlighting In vitro to In vivo Extrapolation *Alicia Paini, Joint Research Centre, Ispra, Italy*

We-Po-37 Examining The Association Between Natural Gas Compressor Stations and Residential Noise In West Virginia, USA Sutyajeet Soneja, University of Maryland, College Park, College Park, MD, United States

We-Po-38 Determining Exfiltration Estimates for Particulate Matter from the Use of Alternative Cookstoves in a Village-Like Household in Rural Nepal

Sutyajeet Soneja, University of Maryland, College Park, College Park, MD, United States

We-Po-39 Indoor exposure to outdoor air pollutants controlled by different urban design strategies *Zhiwen Luo, University of Reading, Reading, United Kingdom*

We-Po-40 Associations Between Lifestyle and Air Pollution Exposure

Maciej Strak, Institute for Risk Assessment Sciences (IRAS), Utrecht, The Netherlands

We-Po-44 IPCheM: the reference platform for chemical monitoring data in Europe

Stylianos Kephalopoulos, European Commission, Joint Research Centre, Ispra, Italy
We-Po-45 Development of a Source-Exposure Matrix for Occupational Exposure Assessment of Electromagnetic Fields

in the INTEROCC Study

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Javier Vila, ISGlobal, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain

We-Po-46 Development of a generic PBPK model for pyrethroids to assess the cumulative exposure of populations *Paul Quindroit, French National Institute for Industrial Environment and Risks (INERIS), Verneuil-en-Halatte, France*

We-Po-47 Computer simulation of particulate matter formation during heating commercial cooking oils *Ulmeken Kaibaldiyeva, Nazarbayev University, Astana, Kazakhstan*

We-Po-48 On the importance of developing integrative modelling approaches within the framework of human exposure assessment.

Mouhamadou Sv, Federal Institute for Risk Assessment (BfR), Berlin, Germany

We-Po-51 Conceptual framework describing a childs total (built, natural, social) environment in order to optimize health and well-being

Nicolle Tulve, U.S. Environmental Protection Agency, Research Triangle Park, NC, United States

We-Po-53 A three dimensional land use regression model for NO2 in an urban environment - Vegas (vertical gradient study)

Danyal Odabasi, Swiss Tropical and Public Health Institute, Basel, Switzerland

We-Po-54 Modeling the Health Benefits of Local and Regional Emission Control Policies in the US Aviation Sector Lindsay Underhill, Boston University School of Public Health, Boston, MA, United States

We-Po-56 Combining background and local effects models of ambient ultrafine particle concentration to predict exposure at residences in an urban area

Matthew Simon, Tufts University, Medford, MA, United States

We-Po-57 Analyzing participant interactions with personalized report-back: data from DERBI, an online reporting tool *Robin Dodson, Silent Spring Institute, Newton, MA, United States*

We-Po-58 Urban air quality assessments using low-cost mobile sensor AirBeam *Chris Lim, NYU School of Medicine, New York, NY, United States*

We-Po-59 NanoSafer version 1.1. Demonstration of a dynamic web-based precautionary risk assessment and management tool for manufactured nanomaterials

Keld Alstrup Jesen, National Research Centre for the Working Environment, Copenhagen, Denmark

We-Po-60 Application of Integrated urban models to simulating health risks

Tor Oiamo, University of Windsor, Windsor, Canada

Late Breaking Abstracts

We-LBA-19 Indoor Air Quality Assessment in an Electronic Cigarette Vaping Convention *Rui Chen, Johns Hopkins University, Baltimore, MD, United States*

We-LBA-20 Evaluation of the Association between Airborne Real-Time Concentrations of Black Carbon (BC) and Fine Particulate Matter (PM2.5) in Urban Hotspots of South Korea Sol Yu, Soonchunhyang University, Asan, Korea, South

We-LBA-21 Exposure Science and Policy Challenges of the Future: Learning from European Experience

Ekaterina Svyatets, University of Southern California, Los Angeles, CA, United States

We-LBA-22 Operator, worker and bystander tool (OWB) for screening assessment of co-formulants in plant protection products

Matthias Wormuth, Syngenta Crop Protection AG, Basel, Switzerland

We-LBA-23 Approach to correct the MicroPEM shifting baseline issues

Ting Zhang, Columbia University, New York, NY, United States

We-LBA-24 Occurrence and exposure to phthalate metabolites and bisphenol analogues in urine from Korean children *Jeongim Park, Soonchunhyang University, Ansan, Korea, South*

We-LBA-25 Perfluoroalkyl acids among Korean children and adolescents: serum levels in 4 to 18 years of age and related exposure sources

Habyeong Kang, Seoul National University, Seoul, Korea, South

We-LBA-26 Human exposure assessment of nonylphenol and octylphenol a review *Habyeong Kang, Seoul National University, Seoul, Korea, South*

We-LBA-27 Occupational Hazards of Standing Work: Work-Related Effects on Musculoskeletal Discomforts

Wei-Cheng Lin, National Kaohsiung First University of Science and Technology, Kaohsiung, China, Republic of (Taiwan)

We-LBA-28 Particulate matter (PM10, PM0,5) and early biological effects in children living in Lecce (Italy) by buccal micronucleus cytome assay

Francesca Serio, University of the Salento, Lecce, Italy

We-LBA-29 Fruit intake as a source of organophosphate pesticide exposure among pregnant woman in the Netherlands

Michiel van den Dries, Erasmus MC, Rotterdam, The Netherlands

THURSDAY, OCTOBER 13, 2016

08:00 - 09:00	Plenary Address 4: Potential of metabolomics in chemical risk analysis Gaud Dervilly Pinel, LABERCA, Nantes, France Th-SY-A1 The exposome: a transdisciplinary paradigm for improved environment and health associations - I		
09:00 - 10:30			
	Chair: Dimosthenis Sarigiannis, Aristotle University of Thessaloniki, Thessaloniki, Greece		
09:00 - 09:18	Th-SY-A1.1 Multiscale connectivity in HEALS - a high dimension biology approach to unravel the exposome		
09:18 - 09:36	Dimosthenis Sarigiannis, Aristotle University of Thessaloniki, Thessaloniki, Greece Th-SY-A1.2 The HEALS environmental data management system the backbone of the external exposome dataset in Europe John Bartzis, University of Western Macedonia, Kozani, Greece		
09:36 - 09:54	Th-SY-A1.3 Multi-sensor data fusion for location and activity tracking in HEALS Eelco Kuijpers, TNO, Zeist, The Netherlands		
09:54 - 10:12	Th-SY-A1.4 Personal exposure assessment fusing multi-sensor data and Agent Based Modelling (ABN Dimitris Chapizanis, Aristotle University of Thessaloniki, Thessaloniki, Greece		
10:12 - 10:30	Th-SY-A1.5 The importance of internal dosimetry in unravelling the exposome Spyros Karakitsios, Aristotle University of Thessaloniki, Thessaloniki, Greece		
09:00 - 10:30	Th-SY-B1 Tooth-matrix biomarkers to reconstruct the early life exposome Chair: Manish Arora, Icahn School of Medicine at Mount Sinai, New York, NY, United States		
09:00 - 09:18	Th-SY-B1.1 Reconstructing the Early Life Environment Using Micro-Spatial Analysis of Teeth Manish Arora, Icahn School of Medicine at Mount Sinai, New York, NY, United States		
09:18 - 09:36	Th-SY-B1.2 Novel Biomarkers of Dietary Transitions and Composition Christine Austin, Icahn School of Medicine at Mount Sinai, New York, NY, United States		
09:36 - 09:54	Th-SY-B1.3 Prenatal and Early Childhood Exposure to Multi-class Organic Chemicals Using Tooth- Matrix Biomarkers Syam Andra, Icahn School of Medicine at Mount Sinai, New York, NY, United States		
09:54 - 10:12	Th-SY-B1.4 Novel Statistical Methods to Uncover Time Varying Critical Developmental Windows to Chemical Mixtures		
10:12 - 10:30	Chris Gennings, Icahn School of Medicine at Mount Sinai, New York, NY, United States Th-SY-B1.5 Critical Windows of Neurodevelopmental Susceptibility to Chemical Mixtures: Case Studies from Across the Globe		
	Birgit Claus Henn, Boston University, Boston, MA, United States		
09:00 - 10:30	Th-SY-C1 Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - I Chair: Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan Chair: Andrew Gooley, Trajan Scientific and Medical, Victoria, Australia		
09:00 - 09:18	Th-SY-C1.1 Importance of Human Biomonitoring for Public Health and Chemical Risk Management Antonia Calafat, US Centers for Disease Control and Prevention, Atlanta, GA, United States		
09:18 - 09:36	Th-SY-C1.2 Recent Developments in Microsampling for Quantitative Bioanalysis Neil Spooner, Spooner Bioanalytical Solutions, Hertford, United Kingdom		
09:36 - 09:54	Th-SY-C1.3 hemaPEN, an intuitive device for unassisted and accurate collection of Dried Blood Spot samples Florian Lapierre, University of Tasmania, Ringwood, Vic., Australia		
09:54 - 10:12	Th-SY-C1.4 Quality Assurance and Quality Control of Portable Devises using a Standard Reference Material Jessica Reiner, NIST, Charleston, SC, United States		
10:12 - 10:30	Th-SY-C1.5 Panel Discussion Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan		

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THURSDAY, OCTOBER 13, 2016

09:00 - 10:30	Th-PL-D1 Exposure Modeling Chair: Philippe Ciffroy, Electricit	
09:00 - 09:18	Th-PL-D1.1 Effect of Model Choice on Estimates of Ultrafine Particle Number Concentrations near Roadways	
09:18 - 09:36	Allison Patton, Rutgers University, Piscataway, NJ, United States Th-PL-D1.2 Human exposure to household cleaning products: Application of a two-field model Vy Nguyen, University of Michigan Medical School, Ann Arbor, MI, United States	
09:36 - 09:54	Th-PL-D1.3 Modelling PM2.5 exposure and health impact from agricultural emissions: dairy farms in three U.S. location Katerina Stylianou, University of Michigan, Ann Arbor, MI, United States Th-PL-D1.4 Testing the accuracy of the MERLIN-Expo modelling tool in predicting human Pb biomonitoring data. Philippe Ciffroy, Electricit	
09:54 - 10:12		
10:12 - 10:30	Th-PL-D1.5 Modeling Exposure to Traffic-Related Air Pollutants for the Residential Human Health Risl Assessment Study in Kyiv, Ukraine Oksana Ananyeva, Institute for Public Health of the National Academy of Medical Sciences of Ukraine, Kyiv, Ukraine	
09:00 - 10:30	Th-SY-E1 Methodologies in finding new and/or emerging risks of chemicals (NERCs) - I Chair: Nicole Palmen, RIVM, Bilthoven, The Netherlands	
09:00 - 09:18	Th-SY-E1.1 Development of priority EDCs list in integrated risk assessment and management for endocrine disrupting chemicals (IRAMe) Kiyoung Lee, Seoul National University, Seoul, South Korea	
09:18 - 09:36	Th-SY-E1.2 Identification, prioritization and evaluation of potential New Emerging Risk of Chemicals (NERCs) for Consumers Lya Soeteman-Hernandez, RIVM, Bilthoven, The Netherlands	
09:36 - 09:54	Th-SY-E1.3 Identification, prioritization and evaluation of potential New and Emerging Risk of Chemicals (NERCs) for Workers Nicole Palmen, RIVM, Bilthoven, The Netherlands	
09:54 - 10:12	Th-SY-E1.4 Identification, prioritization and evaluation of potential New Emerging Risk of Chemicals (NERCs) for the environment Joost Bakker, National Institute for Public Health and the Environment, Bilthoven, The Netherlands	
10:12 - 10:30	Th-SY-E1.5 General aspects in developing methods for identifying new and or emerging risks of chemicals threatening human health and/or environment Yuri Bruinen de Bruin, National Institute of Public Health and the Environment, Bilthoven, The Netherlands	
10:30 - 11:00	Break - TransitZone	
11:00 - 12:00	Th-SY-A2 The exposome: a transdisciplinary paradigm for improved environment and health associations - II Chair: Dimosthenis Sarigiannis, Aristotle University of Thessaloniki, Thessaloniki, Greece	
11:00 - 11:20	Th-SY-A2.1 The Arylhydrocarbon Receptor in the context of the chemical exposome Robert Barouki, Universit	
11:20 - 11:40	Th-SY-A2.2 Environmental origin of neurodevelopmental disorders: in vivo and human models to unraveling complex aetiologies Gemma Calamandrei, Istituto Superiore di Sanit	
11:40 - 12:00	Th-SY-A2.3 Assessment of health risks for vulnerable population groups posed by exposure to mercury and its compounds Milena Horvat, Jozef Stefan Institute, Ljubljana, Slovenia	
11:00 - 12:00	Th-SY-B2 Aspects to consider for Fungi and Mycotoxins occupational exposure and risk assessment	
11:00 - 11:20	Chair: Susana Viegas, ESTeSL-IPL, Lisbon, Portugal Th-SY-B2.1 Exposure and risk assessment in occupational exposure to fungi Aspects to consider in highly contaminated settings Carla Viegas, ESTeSL-IPL; ENSP - UNL, Lisbon, Portugal	

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11:20 - 11:40	Th-SY-B2.2 From lab to labor detailed exposure characterization as basis for protective measures in rarely considered occupational settings Stefan Mayer, Statutory institution for accident insurance and prevention in the trade and goods logistics, Mannhe	
11:40 - 12:00	Th-SY-B2.3 Occupational exposure to mycotoxins Aspects to consider for the aggregate and cumulative risk assessment Susana Viegas, ESTeSL-IPL, Lisbon, Portugal	
11:00 - 12:00	Th-SY-C2 Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies - II Chair: Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan Chair: Andrew Gooley, Trajan Scientific and Medical, Victoria, Australia	
11:00 - 11:15	Th-SY-C2.1 Gas Chromatography with Ultraviolet Photometric Detection for Elemental Mercury Analysis Ronda Gras, Dow Chemical Canada, Fort Saskatchewan, AB, Canada	
11:15 - 11:30	Th-SY-C2.2 Microsampling and Screening Technologies for Human Biomonitoring of Selected Persistent Organic Pollutants (POPs)	
11:30 - 11:45	Jef Focant, University of Liege, Liege, Belgium Th-SY-C2.3 Diaper Use for Exposure Assessment of Infants and Toddlers Michihiro Kamijima, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan	
11:45 - 12:00	Th-SY-C2.4 Panel discussion: Development of personal sampling devices and chemical screening methods for large-scale epidemiology and human biomonitoring studies Shoji Nakayama, National Institute for Environmental Studies, Tsukuba, Japan	
11:00 - 12:00	Th-SY-D2 Environmental Exposure Monitoring in Birth & Early Life Cohort Studies Chair: Benjamin Barratt, King's College London, London, United Kingdom	
11:00 - 11:20	Th-SY-D2.1 Acceptability and Usability of Novel Technologies to Assess Environmental Exposure during Pregnancy Artemis Doutsi, King's College London, London, United Kingdom	
11:20 - 11:40		
11:40 - 12:00	Th-SY-D2.3 The SCAMP Study: Capturing Use of Mobile Phones, Wireless Technologies, and Electromagnetic Field Exposures in Todays Adolescents Irene Chang, MRC-PHE Centre for Environment and Health, Imperial College London, London, United Kingdom	
11:00 - 12:00	Th-SY-E2 Methodologies in finding new and/or emerging risks of chemicals (NERCs) - II	
11:00 - 11:20	Th-SY-E2.1 Anses approach for the detection and investigation of emerging diseases in occupational health Natalie Vongmany, ANSES - French Agency for Food, Environmental and Occupational Health & Safety, Paris, France	
11:20 - 11:40	Th-SY-E2.2 The International Health Regulations (2005): A Global Platform for Collaboration and Capacity Building to Identify, Prevent, Prepare for and Respond to Chemical Risks Richard Brown, World Health Organization, Geneva, Switzerland	
11:40 - 12:00	Th-SY-E2.3 An integrated strategy for marine toxins of cell based bioassays and analytical tools to ensure safe seafood. Toine Bovee, RIKILT Wageningen UR, Wageningen, The Netherlands	
12:00 - 12:30	Closing/Wrap-Up	
13:15-17:30	Excursion: The Muiderslot & Naarden tour	

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