

ICCA-LRI and JRC Workshop

Como, Italy · 21–22 June 2017

Fit-For-Purpose Exposure Assessments For Risk-Based Decision Making

Workshop Co-Chairs

Stylios Kephelopoulos

Joint Research Centre

Tim Meijster

Shell Health



Program at a Glance

	Wednesday, 21 June	Thursday, 22 June
7:00		7:00 – 8:00 Registration, Coffee, and Poster Viewing
8:00		8:00 – 8:15 Welcome and Day 2 Opening Remarks
9:00		8:15 – 10:15 Regulatory Science Applications: What's Working Now and What's on the Horizon
10:00		10:15 – 10:40 Morning Break
11:00	11:00 – 13:00 Registration and Lunch	10:40 – 12:20 Regulatory Science Applications: What's Working Now and What's on the Horizon (continued)
12:00		12:20 – 13:20 Lunch and Poster Viewing
13:00	13:00 – 13:15 Welcome and Opening Remarks	
	13:15 – 14:15 Setting the Stage	13:20 – 14:00 Poster Discussion Session
14:00	14:15 – 15:05 Overarching Challenges and Opportunities	14:00 – 15:15 Next Generation of Exposure Science
15:00	15:05 – 15:35 Afternoon Break	15:15 – 15:35 Afternoon Break
16:00	15:35 – 17:50 Overarching Challenges and Opportunities (continued)	15:35 – 17:20 Next Generation of Exposure Science (continued)
17:00		17:20 – 17:30 Day 2 Conclusion
18:00		
19:00	18:30 – 23:30 Group Dinner and Poster Reception	
20:00		
21:00		
22:00		
23:00		
24:00		

Day 1: Wednesday, 21 June 2017

11:00 – 13:00 Registration and Lunch *Ferrè + Gauguin*

Welcome and Opening Remarks *Spazio Como*

13:00 – 13:15 *Welcome Address*

Kathleen Plotzke – ICCA-LRI Chair, The Dow Chemical Company, USA

Opening Remarks and Day 1 Workshop Goals

Stylios Kephelopoulos – Workshop Co-Chair, Joint Research Centre, Italy

Tim Meijster – Workshop Co-Chair, Shell Health, The Netherlands

Session 1: Setting the Stage

Session Chair: Bruno Hubesch, European Chemical Industry Council (Cefic), Belgium

13:15 – 13:45 *Fit-for-Purpose Exposure Assessment into Risk-Based Decision Making: Framing the Technical Challenges and Opportunities*

Jon Arnot – ARC Arnot Research & Consulting, Canada

13:45 – 14:15 *The National Institute for Public Health (RIVM) Exposure Science Strategy*

Joop de Knecht – National Institute for Public Health (RIVM), The Netherlands

Session 2: Overarching Challenges and Opportunities

Session Chairs: Jos Bessems, Flemish Institute for Technological Research (VITO), Belgium

Lawrence Reiter, Private Consultant, USA

14:15 – 14:40 *High Throughput Exposure Assessment for Thousands of Chemicals (Use of Existing Data – Systematic Empirical Evaluation of Models (SEEM)/ExpoCast)*

John Wambaugh – U.S. Environmental Protection Agency, USA

14:40 – 15:05 *Development and Application of Exposure Models and Tools for Risk Assessment: Experience and Perspective of the National Institute of Advanced Industrial Science and Technology, Japan*

Wataru Naito – National Institute of Advanced Industrial Science and Technology, Japan

15:05 – 15:35 Afternoon Break *Ferrè + Gauguin*

15:35 – 16:00 *Extrapolating the Applicability of Worker Exposure Measurement*

Wouter Fransman – The Netherlands Organization for Applied Scientific Research (TNO), The Netherlands

16:00 – 16:25 *Enhancing Decision Making by Interrogation of Exposure Models*

Matthew MacLeod – Stockholm University, Sweden

16:25 – 16:50 *Advancing Consumer Product Composition and Use Information to Facilitate Risk-Based Decision Making*

Kristin Isaacs – U.S. Environmental Protection Agency, USA

16:50 – 17:15 *Overarching Challenge and Opportunity: Harmonizing Human Health and Ecological Exposure Assessment Practices*

Jean Lou Dorne – European Food Safety Authority, Italy

17:15 – 17:50 Panel Discussion**Moderators:**

- **Jos Bessems** – Flemish Institute for Technological Research (VITO), Belgium
- **Lawrence Reiter** – Private Consultant, USA

Panelists:

- **Jean Lou Dorne** – European Food Safety Authority, Italy
- **Wouter Fransman** – The Netherlands Organization for Applied Scientific Research (TNO), The Netherlands
- **Kristin Isaacs** – U.S. Environmental Protection Agency, USA
- **Matthew MacLeod** – Stockholm University, Sweden
- **Wataru Naito** – National Institute of Advanced Industrial Science and Technology, Japan
- **John Wambaugh** – U.S. Environmental Protection Agency, USA

Day 1 Conclusion

17:50 – 18:00 Stylianos Kephelopoulos – Workshop Co-Chair, Joint Research Centre, Italy
Tim Meijster – Workshop Co-Chair, Shell Health, The Netherlands

Group Dinner and Poster Reception*Teatro Sociale*

18:30 The group dinner will be held at [Teatro Sociale di Como](#) (Via Bellini, 3 – 22100 Como).

Day 2: Thursday, 22 June 2017

7:00 – 8:00 **Registration and Poster Viewing** **Spazio Como**

Welcome and Day 2 Opening Remarks **Spazio Como**

8:00 – 8:15 **Welcome, Review of Day 1, and Setting the Stage for Day 2**
Stylios Kephelopoulos – Workshop Co-Chair, Joint Research Centre, Italy
Tim Meijster – Workshop Co-Chair, Shell Health, The Netherlands

Session 3: Regulatory Science Applications: What's Working Now and What's on the Horizon

Session Chairs: Robert Barter, ExxonMobil Biomedical Sciences, Inc., USA
John Wambaugh, U.S. Environmental Protection Agency, USA

8:15 – 8:30 **Exposure Assessment Under Canada's Chemicals Management Plan – A Look at New Exposure Trends, Tools and Approaches**
Angelika Zidek – Health Canada, Canada

8:30 – 8:45 **Regulatory Perspective – Frank R. Lautenberg Chemical Safety for the 21st Century Act**
Cathy Fehrenbacher – U.S. Environmental Protection Agency, USA

8:45 – 9:00 **Dietary Exposure Estimation in Food Safety Risk Assessment**
Davide Arcella – European Food Safety Authority, Italy

9:00 – 9:15 **Regulatory Perspective**
Stylios Kephelopoulos – Joint Research Centre, Italy (on behalf of the European Chemicals Agency)

9:15 – 9:50 **Panel Discussion**
Moderators:

- **Robert Barter** – ExxonMobil Biomedical Sciences, Inc., USA
- **John Wambaugh** – U.S. Environmental Protection Agency, USA

Panelists:

- **Davide Arcella** – European Food Safety Authority, Italy
- **Cathy Fehrenbacher** – U.S. Environmental Protection Agency, USA
- **Stylios Kephelopoulos** – Joint Research Centre, Italy
- **Angelika Zidek** – Health Canada, Canada

9:50 – 10:15 **Fit-for-Purpose Strategies for Source to Contact Screening Exposure Evaluations**
Chris Money – Cynara Consulting, United Kingdom

10:15 – 10:40 **Morning Break** **Ferrè + Gauguin**

10:40 – 11:05 **Aligning Exposures Across Toxicity/Bioassay Test Systems and Exposure Scenarios**
Fabian Fischer – Helmholtz Centre for Environmental Research (UFZ), Germany

11:05 – 11:30 **Exposure Analysis of Difficult Substances for Risk Assessment Under the Japan Chemical Substances Control Law**
Shino Kuwa – National Institute of Technology and Evaluation, Japan

11:30 – 11:55 **Physiologically-Based Kinetic Modelling in Risk Assessment: Reaching a Whole New Level in Regulatory Decision Making**
Alicia Painsi – Joint Research Centre, Italy

11:55 – 12:20	<i>Integrated Approach to Risk Assessment</i> Gerald Bachler – Shell International, The Netherlands	
12:20 – 13:20	Lunch and Poster Viewing	<i>Ferrè + Gauguin</i>
	Poster Discussion Session	<i>Spazio Como</i>
	Session Chair: Sarah Brozena, American Chemistry Council, USA	
13:20 – 14:00	<i>Facilitated Discussion</i>	
	Session 4: Next Generation of Exposure Science	
	Session Chairs: Stylianos Kephelopoulos, Joint Research Centre, Italy Rosemary Zaleski, ExxonMobil Biomedical Sciences, Inc., USA	
14:00 – 14:25	<i>Exposome: Importance of Life-Course Total Exposure Assessment and Current Status in a Large-Scale Cohort Study</i> Tomohiko Isobe – National Institute for Environmental Studies, Japan	
14:25 – 14:50	<i>Integrated Aggregate and Cumulative Exposure Assessment on Operationalizing the Exposome for Improving Chemical Risk Assessment Following the 21st Century Exposure Science Guidelines</i> Denis Sarigiannis – Aristotle University of Thessaloniki, Greece	
14:50 – 15:15	<i>Integrating Aggregate Exposure Pathway (AEP) and Adverse Outcome Pathway (AOP) Frameworks to Estimate Exposure-Relevant Responses</i> Cecilia Tan – U.S. Environmental Protection Agency, USA	
15:15 – 15:35	Afternoon Break	<i>Ferrè + Gauguin</i>
15:35 – 16:00	<i>Solving the Chemical Puzzle: Understanding Chemical Exposure and Effects to Humans and the Environment: The Role of the European Commission's Information Platform for Chemical Monitoring (IPChem) and its Next Generation Development Plans</i> Stylianos Kephelopoulos – Joint Research Centre, Italy	
16:00 – 16:25	<i>Global Modeling Platform for Consumer Exposure: Tool Comparison and Population Life-Course Exposure to Health Effects Model (PLETHEM)</i> Harvey Clewell – ScitoVation, USA	
16:25 – 16:50	<i>Models, Data and Software For Cumulative and Aggregate Exposure</i> Cian O'Mahony – Creme Global, Ireland	
16:50 – 17:20	<i>Panel Discussion</i> Moderators: <ul style="list-style-type: none"> ▪ Stylianos Kephelopoulos – Joint Research Centre, Italy ▪ Rosemary Zaleski – ExxonMobil Biomedical Sciences, Inc., USA Panelists: <ul style="list-style-type: none"> ▪ Harvey Clewell – ScitoVation, USA ▪ Tomohiko Isobe – National Institute for Environmental Studies, Japan ▪ Cian O'Mahony – Creme Global, Ireland ▪ Cecilia Tan – U.S. Environmental Protection Agency, USA ▪ Denis Sarigiannis – Aristotle University of Thessaloniki, Greece 	
	Day 2 Conclusion	
17:20 – 17:30	Stylianos Kephelopoulos – Workshop Co-Chair, Joint Research Centre, Italy Tim Meijster – Workshop Co-Chair, Shell Health, The Netherlands	