



International Council of
Chemical Associations

12-14 JUNE 2023

2023 ICCA MARII WORKSHOP

Alexis Royal Sonesta Hotel
Seattle, USA

#microplastics

PROGRAMME

Monday 12 June

Time (PST) / Room	Event	
8:30 - 9:00 Author's Corner	Welcome	
9:00 - 10:45	Elevator pitches MARII Projects (6x15min) <i>Chair: Blanca Serrano</i> ECO56 - UTOPIA: Development of a mUltimedia uniT world OPen-source model for mIcroplAstic <i>Matt MacLeod – Stockholm University</i> ECO57 – μ BETR Global – A global scale high-resolution multimedia environmental fate & transport model for micro- and nanoplastics <i>Antonia Praetorius – University of Amsterdam</i> ECO61 Emission factors for micro and nanoplastics <i>Sam Harrison – UKCEH</i> ECO 61 HERA-MP - Establishment of a Holistic Environmental Risk Assessment for MicroPlastics in the terrestrial environment using the study of environmentally relevant particles <i>Karsten Schlich – Fraunhofer IME</i> Characterizing Composition Profiles and Environmental Risk of Microplastics in Tokyo Bay, Japan <i>Wataru Naito – AIST</i>	
10:45 - 11:15	Coffee break	
11:15 - 12:30 Author's Corner	Elevator pitches MARII Projects (3x15min) Characterization of Exposures to Airborne Human-Respirable Microplastic Particles <i>Alison Elder - University of Rochester</i> Development of MNP Health & Environmental Literature Platform (MNP-HELP): A curated Literature Repository for Risk Assessment Research <i>Julie Panko – ToxStrategies</i> Brigid Project <i>Camilla Carteny - PlasticsEurope</i>	
12:30 - 1:30	Lunch	
1:30 - 3:00	Parallel sessions	
	Break-out room: Author's Corner	Break-out room: Gallery
	Reference Materials - Status and Needs <i>Chair: John Norman & Wendel Wohleben</i> The need for reference materials in microplastics studies from a toxicological perspective <i>by Ingeborg Kooter, TNO</i> Reference materials: Literature review <i>by Todd Gouin, TG Environment</i>	Microplastic effects testing with relevance for environmental modelling and risk assessment <i>Chair: Albert A. Koelmans</i> Unveiling the effects of microplastics: QA/QC, effect thresholds and effect mechanisms <i>by Vera de Ruijter, WUR</i> A recipe for environmentally realistic microplastic to use in effect tests <i>by Bart Koelmans, WUR</i> Current research initiatives and strategies for microplastic management in California <i>by Leah Thornton Hampton, SCCWRP</i>



3:00 - 3:30	<i>Coffee break</i>	
3:30 - 5:00	Parallel sessions (cont'd)	
	Reliably Generating Microplastic Particles for Laboratory Testing <i>by Christie Sayes, Baylor University</i> Progress with Reference Materials in Europe <i>by Wendel Wohlleben, BASF and Luke Parker, TNO</i> General Discussion <i>John Norman – ACC</i>	Higher-tier community effects of nano- and microplastics in the context of risk assessment <i>by Paula Redondo Hasselerharm, IMDEA Water</i> Microplastic particle effects and risks: The way forward <i>by Todd Gouin, TG Environment</i> General Discussion <i>Albert A. Koelmans - WUR</i>
6:00 – 7:30	<i>Networking reception at Alexis Royal Sonesta Hotel (Restaurant and Patio)</i>	

Tuesday 13 June

8:30 - 8:45	Recap from day 1 and outline day 2	
8:45 - 10:00	Parallel session	
	Break-out room: Author's Corner	Break-out room: Gallery
	Degradation Processes of Microplastics Chair: Kara L. Law & Jing Hu Opening <i>Kara L. Law</i> Generation of Microplastics in the Ocean Environment <i>by Anthony Andrady, North Carolina State University</i> Linking Formulation to the Fate and Impacts of Plastics in Sunlit Surface Waters <i>by Bryan James, WHOI</i> Processes of Environmental Plastic Weathering and Biodegradation in Natural Systems (and how to study them) <i>by Melissa Duhaime, University of Michigan (online)</i>	IVIVE in human toxicology assessment of microplastics Chair: Robert Ellis-Hutchings and Tanja Hansen Opening <i>Robert Ellis Hutchings – Dow</i> Some Fundamentals of Particle Dosimetry for Risk-Directed Studies <i>by Justin Teeguarden, PNNL</i> Earlier and Novel Findings from Inhalation Studies of Ultrafine Particles: Predictors for Effects and Biokinetics of Inhaled Micro- and Nano-Plastics? <i>by Günter Oberdörster, U. Rochester</i> In-vitro inhalation microplastics assessments: IVIVE approaches <i>By Tanja Hansen, Fraunhofer ITEM</i>
10:00 - 10:30	<i>Coffee break</i>	
10:30 - 12:00	Parallel sessions (cont'd)	
	Predicting plastic fragmentation in the environment <i>by Sam Harrison, UKCEH</i> General Discussion <i>Jing Hu - Dow</i>	Well-characterized nanoplastics for oral exposure studies in vivo <i>by Leah Johnson, RTI International</i> General Discussion <i>Tanja Hansen – Fraunhofer ITEM</i>
12:00 - 1:00	<i>Lunch</i>	
1:00 - 2:45 Author's Corner	Joint session: A risk assessment framework for microplastic particles Chair: Jens C. Otte & Todd Gouin (TBC)	

	<p>Opening <i>Jens Otte, BASF</i></p> <p>Risk assessment of Microplastic particles for human health and environment, a probabilistic view <i>by Bart Koelmans, WUR</i></p> <p>Lost in parameter space – Can we reduce the complexity in microplastic research? <i>by Holger Kress, University of Bayreuth</i></p> <p>Assessing Risks of Microplastics in Drinking Water and the Aquatic Environment to Inform Risk Management Strategies in California <i>by Scott Coffin, California State Water Resources Control Board</i></p> <p>Human health risk frameworks – needs for human health microplastics risk assessment <i>by Raymond Pieters - Utrecht University</i></p> <p>General discussion <i>Todd Gouin, Jens Otte</i></p>
2:45 - 3:15	Conclusions and Next Steps
3:15 - 3:45	<p>Case Study – Microparticle monitoring at the Seattle Aquarium: Life before and after Covid-19 <i>by Veronica Padula, Seattle Aquarium</i></p>
3:45 - 6:00	Walk to Seattle Aquarium and free time to tour the Aquarium
6:00 - 7:30	Networking drinks and snacks at the Pike Brewing Company , 1415 1st Ave, Seattle (6 minutes walking from the Seattle Aquarium)

Wednesday 14 June – Additives workshop

9:00-9:30 Author's Corner	Welcome
9:30-10:30	<p>Overview of chemical additives & Risk based scientific principles</p> <p>Additives in Polyethylene and Copolymers <i>By Alexander Williamson, Dow</i></p> <p>The role of additives in a circular plastics economy <i>By Ricarda Fieber, ETH Zurich</i></p>
10:30-11:00	Coffee break
11:00-12:30	<p>Chemical Additives in Plastic – A framework towards risk-based approaches</p> <p>LRI ECO58 - Comprehensive additive release and bioaccessibility model for risk assessment of micro- and nano-plastics in the environment <i>by P. Lee Ferguson, Duke University</i></p> <p>U.S. Regulation of Food Contact Substances and Microplastics Implications <i>by Katie Skaggs, Keller and Heckman LLP</i></p>
12:30 - 2:00	Lunch
2:00 - 3:30	<p>Risk assessment Framework for Additives</p> <p>Additives risk assessment Framework <i>Craig Davis & Jing Hu</i></p> <p>Brainstorming and next steps</p>
3:30-4:00	Coffee break
4:00-5:00	Debrief from brainstorming
5:00-5:30	Wrap up and next steps