



Plastics2026

BRISBANE, AUSTRALIA

DRAFT CONFERENCE PROGRAM

SUNDAY 1st MARCH

12:30pm - 1:30pm Registration & Light refreshments

1:30pm - 1:50pm Official Opening and Welcome to Country

1:50pm - 2:00pm Welcome by The University of Queensland Vice-Chancellor, Professor Deborah Terry AC

2:00pm - 2:10pm To be confirmed.

2:10pm - 2:50pm **Keynote Speaker:** Dr Andrea Hinwood (United Nations Environment Programme)

2:50pm - 3:30pm **Keynote Speaker:** Emeritus Professor Sarah Dunlop (Minderoo Foundation)

3:30pm - 4:10pm **Keynote Speaker:** Dr Sivendra Michael (Fijian Government, Environment and Climate Change)

4:10pm - 4:15pm Welcome Event Close

4:15pm - 6:15pm Networking and Cocktail Event

MONDAY 2nd MARCH		
8:00am – 8:25am	Registration	
8:25am – 8:30am	Open/Welcome - Kevin Thomas	
	Inventory Session	
8:30am - 9:10am	Keynote Speaker: Professor Martin Wagner (Norwegian University of Science and Technology (NTNU))	
9:10am - 9:25am	Teresa McGrath (Habitable)	Quantifying the Hidden Plastic Burden: An Inventory of Plastic Materials and their additives in the Built Environment
9:25am - 9:40am	Birgit Geueke (Food Packaging Forum Foundation)	From Overview to Insight: Mapping Use, Exposure and Health Effects of Plastic Food Contact Chemicals
9:40am - 9:55am	Amanda Dawson (Griffith University)	Hidden Chemistry: What Leaches from Our Clothing Microfibres?
9:55am - 10:10am	Andara Manage Shashini Methsara (University of Kelaniya)	Restoration Under Pressure: Tracing Microplastic Influx Into an Actively Restored Mangrove Ecosystem.
10:10am - 10:40am	Morning tea	
10:40am - 10:55am	Derek Muir (Environment & Climate Change Canada)	Target and non-target analysis of plastic flakes and pellets from Canadian recycling programs
10:55am - 11:10am	Yannick Mulders (Minderoo Foundation)	PlasticHealthAware: a dashboard for presenting up to date Umbrella Review data on plastic chemicals and health outcomes
	Analytics Session	
11:10am - 11:50am	Keynote Speaker: Dr Cassandra Rauert (The University of Queensland, QAEHS)	
11:50am - 12:05pm	Douglas Walker (Emory University)	Operationalizing the plastic exposome with high-resolution mass spectrometry analytical workflows
12:05pm - 12:20pm	Karuna Singh (National Institute of Technology Delhi)	Tracing the Sources of Laboratory-Origin Microplastic Contamination Using Polymer Fingerprinting
12:20pm - 1:20pm	Lunch	
1:20pm - 1:35pm	Maria Hayder (Van’t Hoff Institute for Molecular Sciences, University of Amsterdam)	Tools for Analysis of Environmental Fate of Nanoplastics in Various Types of Samples
1:35pm - 1:50pm	Nico Merck (University of Rostock, Institute of General Electrical Engineering)	Toward In-Situ Microplastic Detection Using Broadband Excitation Spectroscopy and Machine Learning
1:50pm - 2:05pm	Helena Friedrich (King’s College London, Diamond Light Source)	FTIR spectroscopy methods to elucidate the interactions between microplastics and cells
2:05pm - 2:20pm	Alena Vdovchenko (Imperial College London)	Development and validation of a Raman microspectroscopy workflow for the detection of micro- and nanoplastics in human blood
2:20pm - 2:35pm	Federica Nardella (Vrije Universiteit Amsterdam)	Analytical advances in mass spectrometry–based detection and quantification of micro- and nanoplastics in human matrices

2:35pm - 3:05pm	Afternoon tea	
3:05pm - 3:20pm	Alessio Gomiero (Norwegian Research)	Exploring the potential of one-pot microwave-assisted pretreatments coupled with PY-GC-MS for the quantification of MPs and associated contaminants
3:20pm - 3:35pm	Alexandra Richardson (Imperial College London)	Analytical method development, optimisation, and evaluation for the detection and quantification of plastic oligomers in human blood
3:35pm - 3:50pm	Xianyu (Fisher) Wang (The University of Queensland, QAEHS)	Addressing low-concentration BPA quantification challenges in urine samples using a native analyte addition method
3:50pm - 4:05pm	Sijing Li (CSIRO)	Identification and prioritisation of chemical additives in plastic products using TGA coupled to GC/QTOF-MS
Flash Poster Talks		
<i>Analytics</i>		
4:05pm - 4:08pm	Grace Davies (The University of Queensland, QAEHS)	Defining Unequivocal: Increasing Confidence In The Analysis And Reporting Of Micro- And Nanoplastic Particles In Biological Matrices.
4:08pm - 4:11pm	Christian Dior Freeman (Emory University)	An All-Inclusive Pipeline for Quality Control Checks and Sample Grouping in PY-GC-HRMS Micro- and Nanoplastic Quantitation Utilizing Skyline and R-Programming
4:11pm - 4:14pm	Ronald Smith (Emory University)	Confirming Characteristic Pyrolysis Features of Microplastics in Placental Tissue
<i>Exposure</i>		
4:14pm - 4:17pm	Dorte Herzke (NIPH)	Car tire particles and their additives: biomarkers for recent exposure and implications for the human exposome
4:17pm - 4:20pm	Yarui Liu (Department of Toxicology and Health Inspection and Quarantine, School of Public Health, Tianjin Medical University)	Metabolites of phthalate and non-phthalate plasticizers in Australian pooled urine samples from 2020–2021
4:20pm - 4:23pm	Danielle E. Que (The University of Queensland, QAEHS)	Nonylphenol exposure in an Australian population using urinary biomarker analysis
4:23pm - 4:26pm	Chang He (Guangdong University of Technology)	Does the Presence of Chlorinated Paraffins in Plastic Fruit Stickers Adhesive Pose a Threat to Human Health?
4:26pm - 4:29pm	Birgit Geueke (Food Packaging Forum Foundation)	Tracing micro- and nanoplastics in food: The role of packaging
4:29pm - 4:32pm	Tim Couttas (Neuroscience Research Australia)	Characterisation of antibodies against plastic-derived chemicals and immunoreactivity in human brain tissue
4:32pm - 4:35pm	Julia Jaeger (Eurofins Environment Testing)	Harmonised Analysis of Airborne Microplastics: Results from the Plastic Dust Cloud Project
<i>Toxicology</i>		
4:35pm - 4:38pm	Aaron Schultz (Deakin University)	A One Health approach to understand plastic pollution risks
4:38pm - 4:41pm	Yokataa Geetha Saravanan (Saveetha Dental College and Hospitals)	Detection and Quantification of Phthalates and Bisphenol A (BPA) in Oral Squamous Cell Carcinoma Using High-Resolution Time-of-Flight Mass Spectrometry

4:41pm - 4:44pm	Andrew Lucas (The University of Western Australia)	Assessment of a 7 day low plastic dietary intervention on parameters of good health.
4:44pm - 4:47pm	Ramesh Ganpiseti (Alliance University)	Integrated Risk Assessment Framework for Micro and Nanoplastics in Drinking Water-An In Vivo Approach
4:47pm - 7:00pm	Poster session	

TUESDAY 3rd MARCH		
Exposure Session		
8:30am - 9:10am	Keynote Speaker: Professor Da Chen (Jinan University)	
9:10am - 9:25am	Adrian Covaci (University of Antwerp, Toxicological Center)	Ongoing exposure to endocrine disrupting plasticizers in neonatal intensive care unit patients
9:25am - 9:40am	Laura Puente-De La Cruz (The University of Queensland, QAEHS)	Assessment of infant oral exposure to micro and nanoplastics from plastic feeding and storage containers
9:40am - 9:55am	Shaowei Guo (The First Affiliated Hospital of Shantou University Medical College)	Multimodal detection and analysis of microplastics in human thrombi from multiple anatomically distinct sites
9:55am - 10:25am	Morning tea	
10:25am - 10:40am	Holger Martin Koch (Institute for Prevention and Occupational Medicine (IPA) of the German Social Accident Insurance (DGUV), Institute of the Ruhr University Bochum)	Plastics related chemicals in continuously archived 24-hour urine samples of the German Environmental Specimen Bank from 1995 to today: time trends, exposure and risk assessment
10:40am - 10:55am	Mercè Garí (Institute of Environmental Assessment and Water Research (IDAEA-CSIC))	Human exposure to Tire-Related Chemicals in Europe
1:55pm - 1:10pm	Hubert Dirven (Norwegian Institute of Public Health)	Micro and nanoplastics exposure in young athletes playing football on a field with tyre rubber granulates as infill .
	Amanda Durkin (University Medical Center Utrecht)	Determinants of exposure to micro- and nanoplastics in women of reproductive age
1:25pm - 1:40pm	Lara Cioni (Institute of Environmental Assessment and Water Research (IDAEA)-CSIC)	Human exposure to plastic additives through dermal contact with menstrual products
11:40am - 11:55am	Cheng (Ken) Tang (The University of Queensland, QAEHS)	Migration of plastic and adhesive-related oligomers (PAROs) from puree pouches: a comparison between food simulants and food samples
11:55am - 12:10pm	Marina Suzuki (The University of Queensland, QAEHS)	Per- and Polyfluoroalkyl Substances in the Human Brain
12:10pm - 1:10pm	Lunch	
1:10pm - 1:25pm	Todd Gouin (TG Environmental Research)	Evaluating microplastic particles as vectors of exposure for plastic additive chemicals using a food web model
1:25pm - 1:40pm	Natascha Schmidt (NILU)	Atmospheric Microplastics in Urban and Remote Areas: Occurrence, Sources and Seasonality
1:40pm - 1:55pm	Honglin Chen (The University of Queensland, QAEHS)	Understanding spatial and temporal trends of atmospheric microplastics and nanoplastics in laboratories
1:55pm - 2:10pm	Lynn Jacobs (McGill University)	Advancing Indigenous-led Microplastic and Nanoplastic Research in Indigenous Communities
Toxicology Session		
2:10pm - 2:50pm	Keynote Speaker: Associate Professor Phoebe Stapleton (Rutgers University)	

2:50pm - 3:05pm	Eric Auyang (Imperial College London)	Fabrication of Micro/Nanoplastic Particles and Fibres for In Vitro Alveolar Exposure Studies
3:05pm - 3:35pm	Afternoon tea	
3:35pm - 3:50pm	Stephanie Wright (Imperial College London)	The impacts of microplastics and indoor microplastic-aerosol mixtures on THP1 macrophage immunometabolism
3:50pm - 4:05pm	Julia Laskowska (Imperial College London)	Mechanistic studies of inhaled microplastics in the human lung in vitro
4:05pm - 4:20pm	Eduardo Albornoz (The University of Queensland, School of Biomedical Sciences)	Nanoplastics activate innate immunity in microglia and exacerbate α-synuclein–induced neurotoxicity
4:20pm - 4:35pm	Namrata Pandey (University of Plymouth)	Exploring the interaction of carboxylated polystyrene nanoplastics with hepatic cell lines and human precision-cut liver slices.
4:35pm - 4:50pm	Emine Merve Canga (University College Dublin)	Cytotoxicity of Polystyrene Nanoplastics: Role of Ageing-Driven Oxidation and Protein Corona Formation
4:50pm – 6:30pm	Break	
6:30pm – 7:00pm	Pre-dinner drinks (Foyer)	
7:00pm – 9:00pm	Conference dinner	

WEDNESDAY 4th MARCH		
Toxicology Session cont'd		
8:30am - 8:45am	Juliette Legler (Utrecht University)	Keeping the MOMENTUM going: highlights of 5 years of microplastics and health research in the Netherlands
8:45am - 9:00am	Patrick Lelliott (Baker Heart and Diabetes Institute)	Systemic inflammation and cardiometabolic dysfunction induced by nylon and polyester micro- and nanoplastic exposure
9:00am - 9:15am	Yufei (Lily) Pan (The University of Queensland, QAEHS)	Assessing the permeation of surface-modified nanoplastics (NPs) across in vitro human gut-blood and blood-brain barrier models
9:15am - 9:30am	Kirsty Meldrum (Swansea University)	Investigating isolated and combined co-exposure of micro(nano)plastics and air pollution particulate matter using in vitro models of the alveolar barrier
9:30am - 9:45am	Lanpeng Yang (Nankai University)	Novel Near-Infrared Imaging for Toxicological Studies of Microplastics and Nanoplastics
9:45am - 10:15am	Morning tea	
Risk & Epidemiology Session		
10:15am - 10:55am	Keynote Speaker: Dr Shoji Nakayama (National Institute for Environmental Studies)	
10:55am - 11:10am	Ahmed Elagali (Minderoo Foundation)	Pathway-Based Genetic Score for Xenobiotic Metabolism: An Indicator of Host Vulnerability to Plastics-Induced Neurological Conditions
11:10am - 11:25am	Katherine Drummond (The Florey Institute of Neuroscience and Mental Health)	Kynurenine metabolism in pregnancy: a central pathway linking prenatal chemical exposures to autism
11:25am - 11:40am	Thomas Boissiere-O'Neill (The University of Queensland)	Associations Between Maternal Phthalate Mixtures and the Gut Microbiome during Late Gestation
11:40am - 11:55am	Gro Dehli Andersen (Norwegian Institute of Public Health)	Prenatal Plastic-Associated Chemical Exposure and Child Neurodevelopment: Insights from the Norwegian Mother, Father and Child Cohort Study (MoBa)
11:55am - 12:10pm	Kinga Polanska (Department of Environmental and Occupational Health Hazards, Nofer Institute of Occupational Medicine)	Plastic related chemicals and neuropsychomotor development and mental health during childhood
12:10pm - 12:55pm	Lunch	
12:55pm - 1:15pm	Invited Speaker: Anne-Louise Ponsonby	
1:15pm - 1:30pm	Deborah Dewey (University of Calgary)	The influence of prenatal exposure to ‘plastic chemicals’ on maternal and child health, brain structure, neurodevelopmental outcomes, and the infant epigenome: Findings from APron Neurotox
1:30pm - 1:45pm	Adriano Winterton (Norwegian Institute of Public Health)	Socioeconomic latent classes modify the relationship between maternal PFAS exposure profiles and perinatal outcomes in the Norwegian Mother, Father and Child Cohort Study (MoBa)
1:45pm - 2:00pm	Ahmed Tiarniyu (Community Action Against Plastic Waste (CAPws))	Health at the Heart of Plastic Governance: A Grassroots-Informed Risk Framework for Vulnerable Populations
2:00pm - 2:30pm	Voices of the Pacific: Documentary screening	

2:30pm - 3:00pm	Voices of the Pacific: Q&A Panel with the film makers	
3:00pm - 3:30pm	Afternoon tea	
	Regulation & Policy Session	
3:30pm - 4:10pm	Keynote Speaker: Dr Jane Muncke (Food Packaging Forum Foundation)	
4:10pm - 4:25pm	Helene Wiesinger (Food Packaging Forum Foundation)	Grouping of chemicals into human-readable groups: a case study on food contact chemicals
4:25pm - 4:40pm	Daniel Weber (Australian Government Department of Climate Change, Energy, the Environment and Water)	Advancing Chemicals Risk Management Through Cheminformatics and Data Integration
4:40pm - 4:55pm	Louise Goodes (Minderoo Foundation)	Utilising evidence on PFAS to inform regulation, policy and behavioural change
4:55pm - 5:10pm	Teresa McGrath (Habitale)	Minnesota affordable housing policies lead the way in encouraging avoidance of worst in class plastic building materials and selection of healthier alternatives.
5:10pm - 5:25pm	Dinushika Yapa Abeywardhana (University of Peradeniya)	From National Policy to Local Crisis: Institutional Fragmentation, Open Burning, and Health Risks from Plastic Pollution in Kandy, Sri Lanka
5:25pm - 5:40pm	Temilola Oluseyi (University of Lagos)	Plastics Governance in Nigeria and Sub-Saharan Africa: Pathways to a Circular Future
5:40pm - 5:55pm	Awards and Close	