### 10<sup>th</sup> Norwegian Environmental Toxicology Symposium (NETS)

Stavanger 27<sup>th</sup> – 29<sup>th</sup> August 2025

at the University of Stavanger



### Programme at a glance

Thursday 28th August - AR Ø-110		
Time	Session	
8:10-8:30	Registration & Coffee	
8:30-8:45	Welcome to UiS	
8:45-9:30	Invited Speaker	
9:30-10:40	Session 1: Chemical Pollution and Ecosystem Health: Bridging Science and Policy	
10:40-11:10	Coffee break	
11:10-12:20	Session 2: Persistent Pollutants and Emerging Contaminants: Environmental Toxicology Challenges (1/2)	
12:20-13:20	Lunch, Poster & Poster highlights	
13:20-14:05	Invited Speaker	
14:05-15:00	Session 3: Persistent Pollutants (2/2) and From Wildlife to Humans: Toxicological Pathways and Risk Assessment and Management-merged with persistent pollutants	
15:00-15:30	Coffee break	
15:35-16:30	Session 4: Omics Technologies in Environmental Toxicology: omics, in vitro, and in silico strategies (1/2)	
16:30-18:00	Poster session & Poster Highlight	
19:00	Conference dinner in Stavanger downtown	
	Friday 29th August - AR Ø-120	
Time	Session	
8:30-9:15	Invited Speakers	
9:15-10:10	Session 5: Omics Technologies in Environmental Toxicology: omics, in vitro, and in silico strategies (2/2)	
10:30-11:00	Coffee break	
11:00-12:10	Session 6: Toxic Exposures in Polar Ecosystems: A Sentinel for Global Pollution	
12:10-13:10	Lunch, Poster & Poster highlights	
13:10-14:40	Session 7: Climate Change, Multiple Stressors, and Emerging Health Risks	
14:40-15:00	Closing, student award and next NETS	

#### Welcome to Stavanger

Nestled on Norway's southwestern coast, Stavanger is a city that seamlessly blends natural beauty, academic excellence, and cultural vibrancy. As the host region for the Norwegian Environmental Toxicology Symposium, Stavanger offers more than just a scenic backdrop—it's a living laboratory for environmental science and sustainability.



#### General info about UiS

UiS is a dynamic public research university with over 12,000 students and 2,200 staff. Established in 2005, it has quickly become a leader in innovation, sustainability, and interdisciplinary research.

#### What makes UiS stand out?

- Strong focus on environmental and marine sciences, energy transition, and technology
- Six faculties, including Science and Technology, Health Sciences, and the School of Business and Law
- Active research community with international collaborations and cutting-edge projects
- Beautiful campuses at Ullandhaug and Bjergsted, surrounded by nature and close to the city center

UiS is committed to challenging the known and exploring the unknown—making it an ideal academic partner for those passionate about environmental toxicology and sustainable development.

#### Transportation to the conference venue

Sola airport is just 15 minutes drive from our conference venue, and about 20 minutes from the city centre of Stavanger.

The use of public transport is encouraged. For bus timetables, tickets and different modes of public transport, you can download the Kolumbus ticket app and Kolumbus realtime bus tracker app.

If you are taking a bus from Stavanger city centre, route X60, route 6, and route 7 bring you to UiS campus Ullandhaug. All these buses leave from the main central station area, around Breiavatnet lake. They stop at the bus stations Jernbaneveien H and Vaktapoteket A.



#### Airport bus to/from Ullandhaug

The airport bus passes via the UiS campus Ullandhaug at the bus stop UiS Vest. This means that you can take the airport bus from and to bus stops on campus Ullandhaug. Read about Flybussen Stavanger.

To find your way around the university campus you might want to download the Maze Map App for <u>iPhone</u> or <u>Android</u>. Or <u>open this</u> <u>link in any web browser</u>.

### Welcome to NETS 2025

At the University of Stavanger, the One Health concept is at the heart of our efforts to understand the close ties between human, organism, and environmental health. Together with research partners, we strive to advance this holistic approach.

NETS 2025 is more than a meeting point, it is a platform to inspire and empower the next generation of researchers to carry the One Health perspective forward.

Thank you for being part of NETS 2025.

Prof. Daniela M. Pampanin (on behalf of the local committee)

#### **Conference Venue**

**Upon Arrival** 

Registration will take place in the main building, **Arne Rettedals** (AR) house (shown below).



Venue: Kjell Arholms gate 41, 4021 Stavanger

Room for 28. August: AR Ø-110 Room for 29. August: AR Ø-120 Lunch: Sentralen, AR building

Conference Dinner 28. Aug: Gaffel & Karaffel

### NETS-Young: Impactful scientific communication

Workshop, August 27th.

Join NETS-Young at the 10th Norwegian Environmental Toxicology Symposium! This exciting side event is tailored for students and early-career researchers, offering insights into science communication, creativity, and career development. We are proud to present three inspiring speakers:

- Hilde Garlid A veteran journalist and editor with 30+ years in the media industry, now leading communications and serving as program manager for the ULLTRA Future Festival (Stavanger2025).
- Margaux Huelvan A scientific illustrator with a biochemistry background, who will explore the value of illustration in scientific communication and its evolving role in the age of AI.
- Prof. Beatrice Opeolu Professor at Cape Peninsula University of Technology and CEO of Bee Solution and Consultancy Services, sharing her journey from academia to entrepreneurship.

Don't miss this unique opportunity to gain inspiration, build connections, and explore career pathways beyond traditional research roles.

15h-18h - Workshop

18h-22h - Pizza ice-breaker and party

Place: Room "hos Ingrid", Måltidets Hus i7, Innovasjonsparken (iPARK), Stavanger

# Participants of the NETS 2025 are welcome to join the Conference Dinner at Gaffel & Karaffel

Date and time: 28 August 2025, 19:00 Address: Øvre Holmegt. 20 4006 Stavanger



### Keynote speakers



**Dr. Khuong V. Dinh**, YRT Principal Researcher and Senior Lecturer at University of Oslo

Agent Orange: over 50 years of human and ecosystem harm

Dr. Khuong V. Dinh, an ecotoxicologist at the University of Oslo, investigates eco-evolutionary mechanisms underlying the vulnerability of marine and freshwater invertebrates to environmental stressors, including climate change and pollutants. His research, spanning Arctic to tropical ecosystems, integrates field, mesocosm, and laboratory approaches. Notably, he contributes to understanding the ecotoxicological impacts of Agent Orange (herbicides and dioxins) on ecosystems and human health. Dr. Dinh earned his PhD from KU Leuven, Belgium (2014) and held postdoctoral positions in Denmark (H.C. Ørsted Cofunded by Marie Curie Fellowship) and the USA. In 2021, he received a Young Research Talent Grant for Polar Night Stress Ecology and Ecotoxicology.



**Dr. Tarryn Lee Botha**, University of Johannesburg, South Africa

### Ripples from the South: African Insights into Global Aquatic Toxicology

Dr. Tarryn Lee Botha is a Senior Lecturer at the Zoology department in the University of Johannesburg, South Africa. She obtained her BSc in Biochemistry and Zoology with honours and continued to complete an MSc specializing in histopathology, and a PhD specializing in nanoecotoxicology, both in Aquatic Health. She has undergone training at Fraunhofer in Germany, Plymouth University in the UK and Hokkaido University in Japan. She was awarded an a NRF Y1 rating in 2022. Dr Botha serves as an Associate Editor for Wiley Publishers' Journal of Fish Biology. She is Vice President of the Society of Environmental Toxicology and Chemistry in Africa, the African representative for CheM panel on Chemicals Management, the Vice President of the Southern African Society of Aquatic Scientists, a founder and chair of the Zebrafish Interest Group of South Africa and an exco member of the South African Association for Laboratory Animal Science. She is also a member of Developing African Women in Academia; she has an expert role in the OECDs Working Party on Manufactured Nanomaterials and she serves on the SABS Technical Committee for Nanotechnologies. More information about his group's work can be found:

https://www.uj.ac.za/faculties/science/departments2/zoology/researchzoology/.

## A Fireside Chat on Oceans and Human Health: Reflections on Research, Impact, and Inspiration

A conversation through a range of topics relevant to the conference, such as Oceans and Human Health, the UN Decade of Ocean Science, Cytochrome P450s, personal journey into this field, and advice to the next generation of scientists.

With **Dr. John Stegeman** (Woods Hole Oceanographic Institution, USA) Moderated by Dist. **Prof. Daniel Schlenk** (University of California Riverside, USA)



Dr. John J. Stegeman is a Senior Scientist in the Biology Department at the Woods Hole Oceanographic Institution (WHOI), where he also serves as Director of the Woods Hole Center for Oceans and Human Health (WHCOHH). He earned his B.A. in Biology from St. Mary's College in 1966 and completed his Ph.D. in Biochemistry at Northwestern University in 1972.Dr. Stegeman's research focuses on biochemical toxicology, particularly the metabolism and effects of pollutants and natural products in marine organisms. His work has significantly advanced the understanding of cytochrome P450 enzymes, their evolution, regulation, and role in the metabolism of xenobiotics and steroid hormones across various aquatic species. His studies encompass a range of marine life, from vertebrates to deep-sea animals, and employ techniques such as cloning, expression analysis, and computational modeling to investigate structure-function relationships and species-specific responses to environmental contaminants . Throughout his career, Dr. Stegeman has contributed to numerous publications and has been instrumental in exploring the links between ocean health and human health. His leadership at WHOI and WHCOHH underscores his commitment to interdisciplinary research and education in marine science.



Daniel Schlenk, Ph.D. is Professor of Aquatic Ecotoxicology and Environmental Toxicology at the University of California Riverside. He has published more than 350 peer reviewed journal articles and book chapters on the identification of Molecular Initiating and Key Events within Adverse Outcome Pathways for emerging and legacy contaminants in wildlife and humans. He has particular expertise in contaminant metabolism, and the linkage of molecular and bioanalytical responses associated with neuroendocrine development and whole animal effects on reproduction, growth and survival. A Fellow of AAAS and SETAC, he has served as a permanent member and chair of the USEPA TSCA Chemical Safety Advisory Committee from 2016-2023 and was a permanent member and Chair of the USEPA FIFRA Science Advisory Panel. He has also served on Scientific Advisory Panels supported by the California State Water Board in the USA focused on the monitoring of recycled and surface waters for Emerging Contaminants. He is currently an Executive and Associate Editor for Environmental Science and Technology, and ES&T Letters. He was co-Editor-in Chief of Aquatic Toxicology from 2005-2011 and currently serves on its editorial board as well as the editorial boards of Toxicological Sciences, and Marine Environmental Research.

### Extended programme

#### Day 1

Thursday 28 August 2025, AR-Ø-110

8h10-8h30: Registration & Coffee

**8h30-8h45:** Welcome to UiS - *Helge Bøvik Larsen*, Vice Dean for Research, Faculty for Science & Technology

**8h45-9h30:** Keynote speaker: "Agent Orange: over 50 years of human and ecosystem harm" – *Dr. Khuong V. Dinh* (University of Oslo)

9h30-10h40: Session 1: Chemical Pollution and Ecosystem Health: Bridging Science and Policy

Chairs: Knut Erik Tollefsen, Elin Sørus

- Uncovering the National Treasures of the Norwegian Environmental Specimen Bank – Morten Jartun (NIVA)
- 2. Early developmental responses in Atlantic cod (*Gadus morhua*) to azamethiphos and imidacloprid: investigating temperature-dependent effects of aquaculture bath *Prescilla Perrichon* (Institute of Marine Research)
- Presence of pharmaceuticals and personal care products discharged via a wastewater treatment plant in the marine environment, what's next – Magne Olav Sydnes (University of Stavanger / University of Bergen)
- 4. Low level oil exposure alters development and behavior in a key forage fish *Elin Sørhus* (Institute of Marine Research)

10h40-11h10: Coffee break

### 11h10-12h20 Session 2: Persistent Pollutants and Emerging Contaminants: Environmental Toxicology Challenges (1/2)

Chairs: Odd André Karlsen, Marwin Jafari

- 5. Mechanism of ocular toxicity of antidepressants in zebrafish *Marwin Jafari* (University of Stavanger)
- 6. Integration of lines of evidence to facilitate prioritisation of plastic leachates for toxicity testing *Walter Zobl* (NIVA)
- 7. Analyzing the impacts of aquaculture farms on benthic scavenging amphipods in Northern Norway *Olivia O'connor* (Nord University)
- 8. Tracking chemicals from aquaculture feed pellets to sediments using non-target screening *Astrid Hyldbakk* (SINTEF Ocean)

12h20-12h50: Lunch, Poster session & Poster Highlight

12h50-13h20: Poster session & Poster Highlight

PH-1: European Monitoring Data Reveal Temporally Extended Pesticide
Occurrence Over Time – Larissa Z. Herrmann (RPTU Kaiserslautern Landau)

PH 2: Evolution of the Chemical Defenseme in Marine Mammals. Anders

PH-2: Evolution of the Chemical Defensome in Marine Mammals – *Anders Goksøyr* (University of Bergen)

PH-3: Marine mammals and polar bears in a petri dish: *in vitro* modeling to study multiple stressors on remote species – *Maud Van Essche* (UC Louvain)

**13h20-14h05**: **Keynote speaker:** Ripples from the South: African Insights into Global Aquatic Toxicology – *Dr. Tarryn Lee Botha* (University of Johannesburg)

14h05-15h00 Session 3: Persistent Pollutants (2/2) and From Wildlife to Humans: Toxicological Pathways and Risk Assessment and Management-merged with persistent pollutants

Chairs: Hans-Christian Teien, Sam Welch

- 9. Developmental effects and endocrine disrupting potential of in ovo exposure to per- and polyfluoroalkyl substances (PFASs) in mallard ducklings (*Anas platyrhynchos*) *Veerle Jaspers* (NTNU)
- 10. Perfluoroalkyl substances disrupt metabolic function in killer whale fibroblasts *Sara Zamani* (University of Bergen)
- 11. The Source To Outcome Pathway (STOP) Next Generation Risk Assessment (NGRA) put into practice *Knut Erik Tollefsen* (NIVA)

15h00-15h30: Coffee Break

15h35-16h30 Session 4: Omics Technologies in Environmental Toxicology: omics, in vitro, and in silico strategies (1/2)

Chairs: Anders Goksøyr, Walter Zobl

- 12. Insights Into The Stress Response Of The Red Seaweed *Palmaria palmata*Under Anthropogenic Pressure *Pierre Liboureau* (University of Stavanger)
- 13. Characterization of molting disruptors using Adverse Outcome Pathway (AOP)- informed screening tests in crustaceans *Li Xie* (NIVA)
- Polar bears on thin ice: effects of sea-ice decline and pollutants on plasma lipidome and adipose tissue transcriptome – Laura Pirard (Akvaplan-NIVA)

16h30-18h00: Poster session & Poster Highlight

#### 16h40-17h10

PH-4: eData: A format and FAIRification tool for exposure data by Sam A. Welch (NIVA)

PH-5: qData – a web-based FAIRification workflow for (eco)toxicological dose(concentration)-response data – *Knut Erik Tollefsen* (NIVA)

PH-6: Integrating point of departure and structural equation modelling to AOP development: A case study of diuron toxicity in microalgae – *Li Xie* (NIVA) PH-7: Development of a Pyrolysis-GCxGC-TOF method to analyze microplastic

pollution in water, food sources, and humans in the Arctic - Gabrielle Haddad-

Weiser (NMBU)

#### 17h20-17h50:

PH-8: A Novel Secondary Treatment Step for Tunnel Wash Water: Impact on Retention and Toxicity of Tire and Road Wear Particles, Tire Leachates, and Metals – *Ole Holthusen* (NMBU / Rambøll)

PH-9: Combined Effects of Climate Change and Insecticide Stress on Non-Target Insects in European Freshwater Habitats – *Larissa Z, Herrmann* (RPTU Kaiserslautern Landau)

PH-10: Empowering Researchers Through Tailored Scientific and Professional Capacity Development – *Beatrice Opeolu* (BEE Solutions and Consultancy Services)

19h00: Conference dinner in Stavanger downtown

#### Day 2

Friday 29 August 2025, AR-Ø-120

08h00-08h30: Coffee

**08h30-09h15: Keynote speakers:** A Fireside Chat on Oceans and Human Health: Reflections on Research, Impact, and Inspiration – *Dr. John Stegeman* (Woods Hole Oceanographic Institution) And Moderated by: *Dist. Prof. Daniel Schlenk* (University of California Riverside)

09h15-10h10 Session 5: Omics Technologies in Environmental Toxicology: omics, in vitro, and in silico strategies (2/2)

Chairs: Pål Olsvik, Maria Fernandez Miguez

- 15. Signs of life in precision-cut adipose tissue slices of whale species: A viable ex vivo model to study effects of environmental stressors Guillaume Lambilotte (UC Louvain)
- 16. Fish to flask: Advancing crude oil toxicity testing with ex vivo and in vitro techniques María Fernández Míguez (University of Bergen)
- 17. Metatranscriptomic Insights into Polar Cod Gut Microbiome Responses to Crude Oil Water-Soluble Fractions *Caio Cheohen* (University of Stavanger)
- 18. Development of a cell-free new approach methodology (NAM) for assessment of xenoestrogenic compounds in a non-model teleost species *Odd André Karlsen* (University of Bergen)

10h30-11h00: Coffee Break

11h00-12h10 Session 6: Toxic Exposures in Polar Ecosystems: A Sentinel for Global Pollution

Chairs: Augustine Arukwe, Pierre Liboureau

- 19. Anthropogenic particles in Svalbard waters; sea ice has an important role in regulating available particles in surface waters *Ingeborg Hallanger* (Norwegian Polar Institute)
- 20. Short- and medium-chain chlorinated paraffins in an arctic marine food chain *Julia Giebichenstein* (University of Oslo)
- 21. Anthropogenic particles in surface waters from Adventfjorden (Svalbard) *Ingeborg Hallanger* (Norwegian Polar Institute)
- 22. Marma-detox: Whales and polar bear in a petri dish: decoding marine mammal toxicology through in vitro and in silico approaches Sofie Søderstrøm (University of Bergen)

#### 12h10-12h40: Lunch, Poster session & Poster highlights

12h40-13h10: Poster & Poster highlights

PH-11: A Closer Look: Tracking Sertraline-Induced Visual Impairments in Zebrafish with ZebEyeTrack – *Yann Stehly* (University of Stavanger)

PH-12: Sensitivity of lesser sandeel (*Ammodytes marinus*) larvae to crude oil exposure – *Prescilla Perrichon* (Institute of Marine Research)

PH-13: Assessing effects of antifouling copper on Atlantic salmon (Salmo salar) using transcriptome analysis – Fekadu Yadetie (University of Bergen)

### 13h10-14h40: Session 7: Climate Change, Multiple Stressors, and Emerging Health Risks

Chairs: Katrina Borgå, Jan Ludvig Luche

- 23. Increased aluminium accumulation in fish gills in a fjord estuary due to mobilization of river transported colloidal aluminium species and the impact of flooding events *Hans-Christian Teien* (NMBU)
- 24. Tissue accumulation and toxicity of waterborne uranium and cadmium to Atlantic salmon (Salmo salar L.) depend on life stage and combined exposure Hans-Christian Teien (NMBU)
- 25. Timing of embryonic exposure to produced water discharges and toxicodevelopmental effects in lumpfish (*Cyclopterus lumpus*) – *Augustine Arukwe* (NTNU)
- 26. Blubber under stress: Immune Gene Expression in Humpback Whale Blubber Exposed to Stress Hormones *Veslemøy Mantor* (University of Tromsø)
- 27. When Tourism Meets Toxicants: Using the COVID-19 Lockdown to Investigate the Interactive Effect of Whale Watching and Contaminants on Cortisol in Norwegian Killer Whales *Clare Andvik* (University of Oslo)

14h40-15h00: Closing (Student award and next NETS)

### Poster presentations

#### Chemical Pollution and Ecosystem Health: Bridging Science and Policy

P-1: KnowSandeel. Realistic assessment of the effects of anthropogenic offshore activity on the habitats of a keystone ecological and commercial fish species – *Elin Sørhus* (Institute of Marine Research)

P-2: An assessment of the toxicity of nanogold containing SARS CoV-2 rapid test kits on *Daphnia pulex* and *Danio rerio – Rorisang Malatsi* (University of Johannesburg)

P-3: The effects of Emamectin Benzoate on Early Life Stages of the European Lobster (*Homarus gammarus*) – Hannah L. Sødal (University of Bergen / Institute of Marine Research)

### Persistent Pollutants and Emerging Contaminants: Environmental Toxicology Challenges

P-4: Molting inhibition in *Calanus finmarchicus* after exposure to the chitin synthesis inhibitor teflubenzuron – *Knut Erik Tollefsen* (NMBU, NIVA)

P-5: Is it clean? Analyzing environmental contaminants from novel aquaculture feed sources in a salmon feeding trial – *Mariana Paz* (NMBU)

P-6: Veterinary pharmaceuticals in African aquatic systems: One-health approach as a driver of SDG14 (Life Below Water) – *Beatrice Opeolu* (Bee Solutions and Consultancy Services)

P-7: Non-target screening: a tool for environmental pollution analysis – *Amaia Igartua* (SINTEF Ocean)

P-8: Plastic-related chemicals associated with polymers and their effects on thyroid hormones in fledglings of Northern fulmars (*Fulmarus glacialis*) from Svalbard – *Marthe Fivelstad* (UiT)

### From Wildlife to Humans: Toxicological Pathways and Risk Assessment and Management-merged with persistent pollutants

P-9: An Aggregate Exposure Pathway for Copper in Norway – Sam A. Welch (NIVA)

P-10: Alterations in behaviour after exposure to nanogold leachate from SARS CoV-2 colloidal gold test strips in *Danio rerio* (zebrafish) – *Christene Goldman* (University of Johannesburg)

P-11: Automated identification of histological lesions in fish liver for environmental assessment – *Pierre Liboureau* (University of Stavanger)

### Omics Technologies in Environmental Toxicology: omics, in vitro, and in silico strategies

P-12: Multi-omics and biomarker assessment of reproductive toxicity in polar cod (*Boreogadus saida*) exposed to crude oil – *María Fernández Míguez* (University of Bergen)

P-13: Toxicity screening of crude oil fractions using reporter gene assay for Atlantic cod receptors – *María Fernández Míguez* (University of Bergen)

P-14: Using precision-cut liver slices for assessing hepatic toxicity of components of crude oil on Atlantic cod (*Gadus morhua*) – *María Fernández Míguez* (University of Bergen)

P-15: Omics and Insights: Bioinformatics-driven environmental analysis of the red alga *Palmaria palmata – Klevia Dishnica* (University of Stavanger)

Toxic Exposures in Polar Ecosystems: A Sentinel for Global Pollution P-16: Physically Based Pharmacokinetic (PBPK) model for the Arctic fish species Atlantic halibut – *Knut Erik Tollefsen* (NMBU)

#### Climate Change, Multiple Stressors, and Emerging Health Risks

P-17: Swimming behaviour and respiration rate of two North Atlantic deepsea amphipods (*T. cicada* and *O. obtusa*, Lysianassidae) under temperature stress – *Juliane A. Riedel* (Nord University)

P-18: Stress-dependent shifts in genotoxic sensitivity of arctic zooplankton – *Nele Thomsen* (Scottish Association for Marine Science)

#### Scientific Committee & Organising Committee

Scientific Committee	
Anders Goksøyr	University of Bergen
Augustine Arukwe	Norwegian University of Science and Technology
Bjørn Henrik Hansen	SINTEF Ocean
Daniela M. Pampanin	University of Stavanger
Elin Sørhus	Institute of Marine Reseacrh
Hans-Christian Teien	NMBU
Jan Ludvig Lyche	NMBU
Jasmine Nahrgang	The Arctic University of Norway
Katrine Borgå	University of Oslo
Knut Erik Tollefsen	Norwegian Institute for water research
Odd Andre Karlsen	University of Bergen
Pål Olsvik	Nord University

Local Committee	
Daniela M. Pampanin	Project Leader, University of Stavanger
Päivi Annele Teivainen-Lædre	Head of Department, University of Stavanger
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Marwin Jafari	PhD, University of Stavanger
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### **Support and Exhibitions**







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Thank you!

### **Participants**

Name	Organisation
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