

PEACE

Pollution and Ecosystem Adaptation to Changes in the Environment

Final workshop:

Ecosystem responses to chemical stress: studies between ecology and ecotoxicology

11th November 2019

Meeting room: FAROS, Toppenteret, Forskningsparken, Oslo

09:00 Welcome and introduction by project leaders (Eva Leu and Luca Nizzetto)

Invited Keynote Lectures

09:15 Ecosystem stress response seen from a trait ecology and complex adaptive system perspective (Jon Norberg, Stockholm Resilience Centre, Sweden)

09:45 Upgrading the Species Co-Tolerance Concept with species interactions and their functional identities (Rolf Vinebrooke, University of Alberta, Canada)

10:15 Questions & Discussion

10:30 Coffee break

10:45 The stability of biodiversity and ecosystem functions in a changing world (Frederik de Laender, Namur Research College, Belgium)

11:15 Incorporating Ecosystem Functioning into Environmental Quality Assessment (Mirco Bundschuh, University of Koblenz-Landau, Germany)

11:45 Questions & Discussion

12:00 Lunch

PEACE Project Results

13:00 PEACE project: Introduction to the project concept (Luca Nizzetto)

13:15 Novel Experimental Approaches to Study complex phytoplankton community responses (Eva Leu)

13:35 A single pulse of diffuse contaminants alters the size distribution of natural phytoplankton communities (Didier Baho)

13:55 A Trait Driver Ecological Theory predicts complex responses of phytoplankton exposed to chemical stress (Luca Nizzetto)

14:15 Resilience of natural lake phytoplankton communities to combined pulse disturbances from micropollutant exposure and water column mixing (Didier Baho)

14:35 Coffee break

14:50 Evidence of ecological memory in phytoplankton communities affected by long-term agricultural practice (Simone Rizzuto)

15:10 Dissolved organic carbon and pH modulate the outcome of functional trade-offs of induced tolerance to micropollutants (Simone Rizzuto)

15:30 Summary

15:40 Final discussion: Future research challenges and directions (Francesco Pomati)