



Program

● Sunday 24th April

Dinner

18:00 – 19:30

● Monday 25th April

Breakfast

8:00 – 9:00

Welcome and General Introduction

Zsófia Horváth (Centre for Ecological Research)
Meryem Beklioğlu (Middle East Technical University)
Sarah Hasnain (Middle East Technical University)

9:30 – 9:45

Session 1

Introduction to AQUACOSM-plus

Benefits of Mesocosm-based Research

Jens Nejstgaard (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

9:45 – 10:05

Transnational Access Opportunities in AQUACOSM-plus

Stella Berger (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

10:05 – 10:35

Coffee Break

10:35 – 10:55

Session 2

History of Mesocosm-based Research: Past, Present, & Future

Shallow Lakes

Erik Jeppesen (Aarhus University)

Streams and Rivers

Sam McCauley (Trinity College Dublin)

Open Ocean

Johan Wikner (Umeå Marine Science Center)

10:55 – 12:00

Lunch Break

12:00 – 13:30

Session 3

Addressing Grand Ecological Challenges with Mesocosm-based Research

Eutrophication of Lakes

Erik Jeppesen (Aarhus University)

13:30 – 14:30

Coffee Break

14:30 – 14:50

Session 4

Addressing Grand Ecological Challenges with Mesocosm-based Research

Salinization

Meryem Beklioğlu (Middle East Technical University)

Fragmentation & Connectivity Loss

Robert Ptacnik (WasserCluster Lunz)

Zsófia Horváth (Centre for Ecological Research)

14:50 – 17:00

Dinner

18:00 – 19:00

Wine Tasting

19:00 – 20:00

● Tuesday 26th April

Breakfast

8:00 – 9:00

Session 1

Addressing Grand Ecological Challenges with Mesocosm-based Research

Ecosystem Function Loss

Silke Langenheder (Uppsala University)

9:30 – 10:30

**Session 2****How to Set-up & Run Mesocosm Experiments**

Low-cost Mesocosm Enclosures

Bogdan Drugă (Institute of Biological Research Cluj)

Land Based Freshwater Mesocosms

Robert Ptacnik (WasserCluster Lunz)

10:30 – 11:10

Coffee Break

11:10 – 11:30

Highly Controlled Indoor Mesocosms

Lisette de Senerpont Domis (Netherlands Institute of Ecology)

Replicated Lake Mesocosms

Silke Langenheder (Uppsala University)

11:30 – 12:10

Lunch Break

12:10 – 13:40

Session 3**How to Set-up & Run Mesocosm Experiments**

Pond Mesocosms

Csaba Vad (Centre for Ecological Research)

Mesocosms for Ice & Winter Studies

Johan Wikner (Umeå Marine Science Center)

Mesocosms for Marine Systems

Iordanis Magiopoulos (Hellenic Centre for Marine Research)

Large Scale In-situ Mesocosms & Other Systems

Jens Nejstgaard (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

13:40 – 15:20

Coffee Break

15:20 – 15:40

Session 4**Data Handling & Management**

Heidrun Feuchtmayr (UK Centre for Ecology and Hydrology)

Discussion: What Can Go Wrong In a Mesocosm Experiment?

Moderators:

Jens Nejstgaard (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Sarah Hasnain (Middle East Technical University)

15:40 – 16:30

16:30 – 17:30

Session 5**Introduction to Scientific Method & Hypothesis Testing**

Meryem Beklioğlu (Middle East Technical University)

Group activity: Exploring Data & Developing a Research Question

Sarah Hasnain (Middle East Technical University)

17:30 – 17:50

17:50 – 19:00

Dinner

19:00 – 20:00

Wednesday 27th April**Full Day Field Trip****Dinner**

19:00 – 20:00

Thursday 28th April**Breakfast**

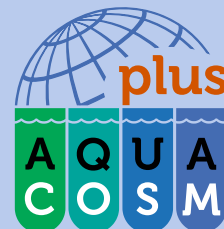
8:00 – 9:00

Session 1**Discussion:** Student Presentation of Results from Group Activity

9:30 – 11:00

Coffee Break

11:00 – 11:20

**Session 2**

11:20 – 11:50

Developing a Statistical Workflow & Addressing Problems with Ecological Data

Sarah Hasnain (Middle East Technical University)

Session 3: Choose your session

11:50 – 12:50

Advanced R for Data Analysis

Sarah Hasnain (Middle East Technical University)

Alexis Guislain (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

PlanktonScope - Low Cost & Hands-on Example of Image Based Analysis

Bronwyn Lira Dyson, Jens Nejstgaard (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Build a Low Cost Mesocosm

Bogdan Drugă (Institute of Biological Research Cluj)

Stella Berger (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Meryem Beklioğlu (Middle East Technical University)

Csaba Vad (Centre for Ecological Research)

Lunch Break

12:50 – 14:20

Session 4: Choose your session

14:20 – 15:20

Advanced R for Data Analysis

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Stella Berger (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Meryem Beklioğlu (Middle East Technical University)

Csaba Vad (Centre for Ecological Research)

Coffee Break

15:20 – 15:40

Interactive Session: Open & Fair Science

Lisette de Senerpont Domis (Netherlands Institute of Ecology)

Group activity & Free time

15:40 – 16:30

16:30 – 18:00

Dinner

18:00 – 19:30

Friday 29th April**Breakfast**

8:00 – 9:00

Session 1

9:30 – 11:00

Student Presentations: Final Experimental Set-up & Data Analysis**Coffee Break**

11:00 – 11:20

Session 2

11:20 – 12:00

Summary of Potential Transnational Access Projects for 2023

Stella Berger (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Feedback on Spring School – Survey**Closing Remarks**

Zsófia Horváth (Centre for Ecological Research)

Jens Nejstgaard (Leibniz Institute of Freshwater Ecology and Inland Fisheries)

Csaba Vad (Centre for Ecological Research)

Lunch Break

12:50 – 14:20

Departure**Dinner** (for those remaining at the hotel till April 30)

18:00 – 19:00