

Silwood Park mesocosm facility January 2023

Summary of mesocosms

- **Mesocosms** Name of the mesocosm or group of ponds with common history or involved in an experiment: Mes_1 to Mes_6
- **Ponds** Number of ponds in mesocosm
- **Capacity** Volume of ponds in the category given in litres
- **Diameter** Inner diameter of the upper side of ponds in centimeters
- **Depth** Depth of ponds in centimeters
- **Experiment** Name of experiment or grant
- **PI** Name of the principal investigator(s)
- **Pond setting** Approximate date when ponds were filled with a layer of sediments, water and was seeded with freshwater organisms
- **Stressors** Treatments applied to ponds

- **State** Weather the project is active or not

- **Notes** Additional information

The facility also counts with a water purification system and tanks with the capacity to store up to 18,700 litres of rain/ distilled water

Mesocosms	Ponds	Capacity	Diameter	Depth	Experiment	PI	Pond setting	Stressors	State	Notes
Mes_1	96	1800	183	69	A Novel Framework for Predicting Emerging Chemical Stressor Impacts in Complex Ecosystems	Guy Woodward	March 2016	Biocides & warming	ongoing	A to H columns, 1-12 rows. NERC NE/S000348/1 & NE/M020843/1 (2015-2019)
Mes_2	96	1800	183	69	None	Guy Woodward	December 2019	None	inactive	
Mes_3	48	1000	152	59	eDNA for bioassessment of water quality	Vincent Savolainen, Guy Woodward	May 2020	Biocides, ammonia, pharmaceuticals & care products	finished	Seeding water from 12 Mes_4 and 1 feeding pond
Mes_4	20	1000	152	59	Global experiment ponds	Guy Woodward,	July 2017	Biocides	ongoing	Since 2021 part of Mes_4 and Mess_3 (May 2020). Replicates of this setting in Canada, Norway & Sussex
Mes_5	10	1800	183	69	None	Vincent Savolainen	NA	NA	inactive	
Mes_6	1	1800	183	69	Dragonfly pond	Huai-Ti Lin ICL Bioengineering	November 2021	None	ongoing	Set to harvest dragonfly nymphs