



**Annual Meeting of the
Irish Freshwater Sciences Association 2023**
Hosted by Atlantic Technological University

Friday, 10 March 2023

Venue: Theatre 1000, ATU Galway, Dublin Road, Galway, H91 T8NW

09:30-9:45	REGISTRATION
09:45	Welcome & Overview. Hugh Feeley (IFSA Chair) & Rick Officer (VP for Research and Innovation at ATU) [& Pascal Sweeney (short obituary)]
Session 1a	<i>Freshwaters in a Changing World</i> (talks = 12 minutes) Session chair: Hugh Feeley
10:00	Bernie White (LAWPRO) River Basin Management Planning – a look back at the 2nd cycle & planning for the 3rd cycle.
10:12	Luca Mirimin (ATU) Environmental DNA (eDNA) as a new tool for the detection and monitoring of aquatic species in Irish freshwater systems.
10:24	Bogna Griffin (MI) Environmental DNA (eDNA) surveillance of crayfish plague, potential vectors, and white-clawed crayfish in Ireland, a national monitoring program.
10:36	Roisin Nash (ATU) Sources, pathways, and environmental fate of microplastics in freshwater ecosystems.
10:48	OPEN DISCUSSION PANEL: Q & A with Session 1a speakers (15-20 mins)
11:05 – 11:35	COFFEE BREAK (30 minutes)
Session 1b	<i>Freshwaters in a Changing World</i> (talks = 12 minutes) Session chair: Heather Lally
11:35	Giovanni Cappelli (ATU) Physicochemical characterisation and biological communities' assessment of protected lake habitats in Ireland: Determining their conservation needs.
11:47	Pascal Sweeney (Sweeney Consultancy) Population structure and reproduction of the Australian Common Yabby in an Irish lake.
11:59	Jan-Robert Baars (UCD) Quagga replacing zebra mussel and extending impact on lakes and rivers.
12:11	Elvira de Eyto (MI) Captive breeding of freshwater pearl mussels in Ireland – progress so far at the Marine Institute hatchery.
12:23	OPEN DISCUSSION PANEL: Q & A with Session 1b speakers (15-20 mins)
12:45 – 13:30	LUNCH (45 minutes)

Session 2	<i>Ongoing and Finished Projects</i> (talks = 7 minutes + questions) Session chair: Mary Kelly-Quinn
13:30	Dave Wall (NBDC) Dragonfly Ireland 2019 – 2024.
13:40	Helen Barber-James (UM) Preliminary studies of Ephemeroptera, Plecoptera and Trichoptera (EPT) taxa in Northern Ireland.
13:50	Eithne Davis (ATU) Invasive alien species: Improving understanding and communication.
14:00	Daire Ó hUallacháin (Teagasc) A riparian mitigation measures selection tool.
14.10	Darragh Murphy (UCC) Nature-based catchment management solutions in practice on an Irish farm.
14:20	Marcin Penk (TCD) Combined impact of climatic and land-use stressors on stream algae – preliminary findings from a field mesocosm experiment.
14:30	Aoife Robertson (TCD) An examination of nonlinearities and interactions of biological responses to multiple stressors.
14:40	Emma Gray & Heather Lally (ATU) Using desmids as an indicator of conservation status for dystrophic lake habitats in western Ireland.
14:50	Cilian Roden (ATU) Are erosion patterns in limestone rock an indicator of marl lakes?
15:00	Áine O'Connor (NPWS) NPWS update on freshwater and wetland habitats and species.
15:10 – 15:30	COFFEE BREAK (20 minutes)
Session 3	<i>New Science and Research</i> (elevator pitches = 2 minutes) Session chair: Frances Lucy
15:30	Osato Idelegbagbon * (DCU) Development of CRISPR-based assays for the detection of Irish freshwater fish species.
15:33	Emily Rick * (UCD) Investigating hydromorphology in intensively farmed grassland catchments under a changing climate.
15:36	Dieu Anh Dinh * (DKIT) Remote sensing of global surface waters – RETINA.
15:39	Yanika Rhule * (UCD) The hydromorphological and ecological impacts of forestry operations on rivers in Ireland.
15:41	Dimitrios Kakavas * (DCU) The impact of surface to volume ratio on the toxicity of nanoinks in daphnids.
15:44	Bridget Fox * (UCD) Assessment and impact of deposited sediment in rivers in Irish agricultural catchments.
15:47	Ciara McGlade (RT) Citizen science projects from the Rivers Trust All Ireland.
15:50	Mary Kelly-Quinn (UCD) HydroGen - Environmental DNA in the service of the Water Framework Directive.
15:53	Hugh Feeley (IFSA) British and Irish stoneflies (Plecoptera) – a new key to adults and larvae.
15:56	* Elevator Pitch student prize award – Heather Lally & Hugh Feeley <i>Kindly sponsored by the Department of Natural Sciences and the Environment, ATU, Galway.</i>
16:00	OPEN DISCUSSION & Annual General Meeting of IFSA Letizia Cocchiglia (IFSA Secretary)
16:30	MEETING FINISH

ATU = Atlantic Technological University, DCU = Dublin City University, DKIT = Dundalk Institute of Technology, IFSA = Irish Freshwater Science Association, LAWPRO = Local Areas Water Programme, MI = Marine Institute, NBDC = National Biodiversity Data Centre, NPWS = National Parks and Wildlife Service, RT = Rivers Trust, TCD = Trinity College Dublin, UCC = University College Cork, UCD = University College Dublin, UM = Ulster Museum.