



**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

010:30-11:00	REGISTRATION / TEA & COFFEE
11:00	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
11:20	Bernie White (LAWPRO) River Basin Management Planning – a look back at the 2nd cycle & planning for the 3rd cycle.
11:32	Luca Mirimin (ATU) Environmental DNA (eDNA) as a new tool for the detection and monitoring of aquatic species in Irish freshwater systems.
11:44	Bogna Griffin (MI) Environmental DNA (eDNA) surveillance of crayfish plague, potential vectors, and white-clawed crayfish in Ireland, a national monitoring program.
11:56	Roisin Nash (ATU) Sources, pathways, and environmental fate of microplastics in freshwater ecosystems.
12:08	Giovanni Cappelli (ATU) Physicochemical characterisation and biological communities' assessment of protected lake habitats in Ireland: Determining their conservation needs.
12:20	Pascal Sweeney (Sweeney Consultancy) Population structure and reproduction of the Australian Common Yabby in an Irish lake.
12:32	Jan-Robert Baars (UCD) Quagga replacing zebra mussel and extending impact on lakes and rivers.
12:44	Elvira de Eyto (MI) Captive breeding of freshwater pearl mussels in Ireland – progress so far at the Marine Institute hatchery.
13:00 – 13:45	LUNCH (45 minutes)
Session 2	<i>Ongoing and Finished Projects</i> (talks = 7 minutes + questions) Session chair: Mary Kelly-Quinn
13:45	Dave Wall (NBDC) Dragonfly Ireland 2019 – 2024.
13:55	Helen Barber-James (UM) Preliminary studies of Ephemeroptera, Plecoptera and Trichoptera (EPT) taxa in Northern Ireland.

13:05	Eithne Davis (ATU) Invasive alien species: Improving understanding and communication.
14:15	Darragh Murphy (UCC) Nature-based catchment management solutions in practice on an Irish farm.
14.25	Marcin Penk (TCD) Combined impact of climatic and land-use stressors on stream algae – preliminary findings from a field mesocosm experiment.
14:35	Aoife Robertson (TCD) An examination of nonlinearities and interactions of biological responses to multiple stressors.
14:45	Cilian Roden (ATU) Are erosion patterns in limestone rock an indicator of marl lakes?
14:55	Áine O'Connor (NPWS) NPWS update on freshwater and wetland habitats and species.
13:05 – 15:30	COFFEE BREAK (25 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.
15:42	Dimitrios Kakavas * (DCU) The impact of surface to volume ratio on the toxicity of nanoinks in daphnids.
15:45	Bridget Fox * (UCD) Assessment and impact of deposited sediment in rivers in Irish agricultural catchments.
15:48	Mary Kelly-Quinn (UCD) HydroGen - Environmental DNA in the service of the Water Framework Directive.
15:51	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, **TCD** = Trinity College Dublin, **UCC** = University College Cork, **UCD** = University College Dublin, **UM** = Ulster Museum.