



EIFAAC
Symposium – Ireland
June 20th–21st 2022
Killarney, Co. Kerry, Ireland

Inland Fisheries and Aquaculture
Advances in Technology, Stock Assessment
and Citizen Science in an Era of Climate Change
Programme



An Roinn Comhshaoil,
Aeráide agus Cumarsáide
Department of the Environment,
Climate and Communications



Iascach Iníre Éireann
Inland Fisheries Ireland



Food and Agriculture
Organization of the
United Nations

EUROPEAN INLAND
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(EIFAAC) International Symposium –2022

“Inland Fisheries and Aquaculture - Advances in Technology, Stock Assessment and Citizen Science in an Era of Climate Change”, 20th and 21st June 2022, Killarney, Co. Kerry, Ireland.”

Programme

Sunday 19 th June		
17:00-18:15	Registration	DROMHALL HOTEL (Lobby to Shelbourne room)
19:00-22:00	Ice breaker event	Bus leaves from Dromhall Hotel at 19:00
Monday 20 th June – DAY 1		
8:00-9:00	Registration	
9:00-9:30	Welcome (Irish Minister, IFI and EIFAAC/FAO)	
9:30-17:00	Theme 1: Stock assessment	Session chair – Sam Shephard
9:30-10:30	KEYNOTE: Dysfunctional information feedbacks cause the emergence of stocking as a management panacea	Robert Arlinghaus
10:30-10:50	Effectiveness of fish stocking with multiple fish species in small lakes	Sven Matern
10:50-11:10	Habitat enhancement to improve fish stocks in gravel pit lakes - Insights from a large-scale replicated whole-lake study	Johannes Radinger
11:10-11:30	TEA/COFFEE BREAK	Restaurant – Dromhall Hotel
11:30-11:50	Sustainability of indigenous brown trout <i>Salmo trutta</i> fishery in Serbia and Croatia	Predrag Simonovic
11:50-12:10	Growth, survival and yield of glass eel (<i>Anguilla Anguilla</i>) in semi natural ponds depends on stocking density	Michael Ingemann Pedersen
12:10-12:30	A case study of European eel (<i>Anguilla anguilla</i>) population in Delta Neretva, Croatia - Importance of health assessment and biosecurity measures for stock assessment and management plans	Ana Gavrilović
12:30-12:50	“Trust is good, control is better” – Confronting model-based estimates of silver eel escapement with reality	Leander Höhne
12:50-13:00	DISCUSSION	
13:00-14:00	LUNCH	Restaurant – Dromhall Hotel
14:00-14:40	GUEST SPEAKER: Assessment of data-limited inland fish populations	Sam Shephard
14:40-15:00	What data is needed to understand change in a multi-species lake fishery of recreational and commercial importance? Lessons from 3 decades of fish surveys of Lower Lough Erne, Ireland	Kevin Gallagher
15:00-15:20	A novel method of site selection for a national fish monitoring programme	Ronan Matson
15:20-15:40	TEA/COFFEE BREAK	Restaurant – Dromhall Hotel
15:40-16:00	Monitoring solutions for the cryptic river lamprey	Nicola O’ Gorman
16:00-16:20	Sometimes being small is better than large: American mink (<i>Neovison vison</i>) preying on naive and wild brown trout juveniles in semi-natural streams	Teppo Vehanen
16:20-16:40	The documentation of cormorant impact on river fish	Niels Jepsen
16:40-17:00	DISCUSSION	

17:30-18:30	POSTER SESSION Monday 20 th June	Dromhall Hotel – corridor to Shelbourne Room
	Theme 1: Stock assessment	
1	Elaboration of the methodology for monitoring of European river lamprey (<i>Lampetra fluviatilis</i>) larvae	Kaspars Abersons
2	Fish kills in Ireland – history, current status and recovery	Ronan Matson
3	Discrimination of morphological traits between brown trout lineages from the Danube Basin of Croatia	Marina Piria
4	Data-limited stock assessment for artisan fisheries in developing countries: choosing for fisher participation.	Rehab Farouk Abdelfattah Soliman
5	Importance of lake bathymetry in the selection of fish monitoring stations	Jānis Dumpis (presented by Ruta Medne)
6	Salmon (<i>Salmo salar</i>) spawning and post-spawning migration behaviour in Salaca river – first results	Jānis Bajinskis (presented by Ruta Medne)
7	Eel quality assessment in the River Daugava	Jānis Bajinskis (presented by Ruta Medne)
	Theme 2: Developments in freshwater fish monitoring technology with an emphasis on non-destructive methods Technology	
8	Detection of migrating silver eel through the SeaMonitor acoustic array between Ireland and Scotland	Derek Evans
9	Autonomous networks for fishery monitoring across marine and inland waters to track exploited stocks of anadromous and catadromous species	Ana Gavrilović
10	A new way to fish for data with underwater angling cameras?	Sebastian Uhlmann (presented by Tom McDermott)
11	Development of environmental DNA methodology for detection of rare and invasive fish and crayfish species in Latvia” has been accepted for an oral presentation.	Amanda Lazdina (presented by Kaspars Abersons)
	Theme 3: The problems and challenges of climate change and its impacts on inland aquatic resources and fisheries	
12	Sufficient ecological flow in a small hydroelectric power plant – a challenge for both science and management	Kaspars Abersons
13	Seasonal feeding ecology of fish in Lake Sauka, Latvia	Elina Ellere
	Theme 4 – Citizen Science	
14	Catch and release practice in city of Riga inland waters - an example of zander and northern pike	Jānis Dumpis (presented by Ruta Medne)
	Theme 5 – Aquaculture – Traditional freshwater systems vs recirculation systems (pros and cons)	
15	Salmon and sea trout rearing (farming) in flow through and recirculation systems for restocking in Latvia rivers	Ilze Rutkovska (presented by Ruta Medne)

	Tuesday 21st June - Day 2 (Session 1 of 2)	Dromhall Hotel – Shelbourne Room
8:30-9:00	Registration	DROMHALL HOTEL (Lobby to Shelbourne room)
9:00-12:40	Theme 2: Developments in freshwater fish monitoring technologies with an emphasis on non-destructive methods	Session chair: Jan Kubecka
9:00-9:40	Guest speaker: Fish friendly sampling: can we get a true picture without harming fish?	Jan Kubecka
9:40-10:00	From river to sea; behaviour and survival of Atlantic salmon during freshwater and early marine migration.	James Barry
10:00-10:20	Acoustic telemetry data infers survival and behavioural aspects of sea trout smolts in the Currane catchment, Co. Kerry.	Ryan Murray
10:20-10:40	The National Salmonid Index Catchment River Erriff	Michael Millane
10:40-11:00	The illuminating world of glass eel migration	Andrew Moore
11:00-11:20	TEA/COFFEE BREAK	Restaurant – Dromhall Hotel
11:20-11:40	How many species? A question for the Irish Arctic char	Paulo Prodohl
11:40-12:00	Using scale trace elements, genetics and aging techniques to characterize marine feeding ground usage by wild salmon	Elizabeth Tray
12:00-12:20	Applying CRISPR-Cas technology to environmental DNA for single species monitoring	Anne Parle-McDermott
12:20-12:40	Qualitative and Quantitative evaluation of the eDNA tools performance comparing to the Trawling in Fisheries assessment	Yassine Kasmi
12:40-13:40	LUNCH	Restaurant – Dromhall Hotel
13:40-17:30	Theme 3: The problems and challenges of climate change and its impacts on inland aquatic resources and fisheries	Session chair: Faye Jackson
13:40-14:20	Guest speaker: Developing large-scale monitoring and modelling of river temperature and woodland effects to inform management strategies to protect rivers under climate change	Faye Jackson
14:20-14:40	Getting into hot water: how vulnerable are Ireland's freshwater fish to climate change.	James Barry
14:40-15:00	Regional- and local-scale differences in the response of Irish salmonid catchments to climate change	Sean Kelly
15:00-15:20	Small lakes as thermal refugia for cold-water fish species	John Coyne
15:20-15:40	Asymmetric impact of climate change on salmonid migration in a fragmented riverscape	Brian Coghlan
15:40-16:00	TEA/COFFEE BREAK	Restaurant – Dromhall Hotel
16:00-16:20	Will warmer summers result in greater damage to the European eel as a result of increased infections by <i>Anguillicola crassus</i> ?	Rob Cruikshanks
16:20-16:40	DiadES: looking at ecosystem services of diadromous species in a climate change context	Ciara O' Leary
16:40-17:00	Biological parameters of an imperilled pike-perch (<i>Sander lucioperca</i> L.) population in Central Europe	Million Tesfaye Godana
17:00-17:20	Incorporating hydro-thermal regimes into environmental flows assessments	Rossa O' Briain
17:20-17:30	DISCUSSION	

	Tuesday 21st June – Day 2 (Session 2 of 2)	Dromhall Hotel – Deerhunter Room
9:00-12:40	Theme 4 – Citizen Science	Session chair: Joe Pecorelli
9:00-9:40	Guest speaker: What can Citizen Science offer fish conservation?	Joe Pecorelli
9:40-10:00	Involvement of outdoor enthusiasts in mapping fish migration barriers in Latvian rivers – information collected and lessons learned	Kaspars Abersons
10:00-10:20	Juggling ecological and social complexities in a stakeholder-inclusive approach – using structured decision making to develop recommendations for pike fisheries management	Robert Arlinghaus (for Elias Ehrlich)
10:20-10:40	Data collection systems for the inland fisheries of Europe	Teppo Vehanen
10:40-11:00	Improved data methodology for sustainable management of inland fisheries resources in the West Balkans	Victoria Chomo
11:00-11:20	TEA/COFFEE BREAK	Restaurant – Dromhall Hotel
11:20-11:40	Invasive Alien Species: Project on improvement of understanding and communication amongst the aquatic recreation sector	Eithne Davis
11:40-12:00	A novel approach to mapping the distribution of Sea lamprey, White clawed crayfish and Freshwater Pearl Mussel in a large Irish catchment combining citizen science with eDNA monitoring techniques.	Fran Igoe
12:00-12:20	Trends in angler's specimen fish catches 1955-2019	William Roche
12:20-12:40	DISCUSSION	
12:40-13:40	LUNCH	
DAY 2	Theme 5 – Aquaculture – Traditional freshwater systems vs recirculation systems (pros and cons)	Session chair: Jamie Downes
13:40-14:20	Guest speaker: Advances in Aquaculture technology: trials and challenges of Recirculation aquaculture systems	Jamie Downes
14:20-14:40	Various reasons for introducing a recirculation system in aquaculture	Ana Gavrilović
14:40-15:00	Evaluation of rearing environment on metabolic variability in two commercial Strains of Atlantic salmon (<i>Salmo salar</i>).	Elizabeth Ryder
15:00-15:15	DISCUSSION	

9:30-11:00	Wednesday 22nd June	Optional tour
9:30	Depart Dromhall Hotel to Killarney Lakes by Coach	
10-11:00	Boat Tour of Lough Leane	Waterbus tour (<i>M.V. Pride of the Lakes</i>) from Ross Castle
11:00	Return to Hotel with delegates	