

**Sunday, 07. August 2022**

*Workshops*  
09:00 - 11:00

Parallel 6 C4

**Workshop: Effective and efficient peer review: Interacting across career stage and limnology societies to build a skilled reviewer pool**

*Chair:* Mary R. Gradoville, US  
*Chair:* Bridget R. Deemer, US  
*Chair:* Renee M. van Dorst, DE

*Workshops*  
10:00 - 12:00

Room A3

**Workshop: Alliance for Freshwater Live: developing a network strategy and roadmap of activities**

*Chair:* Sonja Jähnig, DE  
*Chair:* Sybille Schroer, DE  
*Chair:* Michael Monaghan, US  
*Chair:* Jonathan Jeschke, DE  
*Chair:* Ian Harrison, US  
*Chair:* Ivan Jarić, HU

*Workshops*  
11:15 - 14:15

Parallel 5 B5

**Workshop: Negotiating gender roles in academia - a courageous exploration**

*Chair:* Clara Mendoza-Lera, DE  
*Chair:* Sathbh Juárez-Bourke, DE  
*Chair:* Anna Lupon, ES  
*Chair:* Jonathan Jeschke, DE  
*Chair:* Ian Harrison, US

*Workshops*  
11:15 - 14:15

Parallel 6 C4

**Workshop: Network for mesocosms and flumes as tools to study multiple stressors in streams**

*Chair:* Patrick Fink, DE  
*Chair:* Florian Leese, DE  
*Chair:* Iris Madge Pimentel, DE  
*Chair:* Philipp M. Rehsen, DE  
*Chair:* Arne J. Beermann, DE  
*Chair:* Sam Macaulay, GB

*Workshops*  
12:30 - 14:30

Room A3

**Workshop: Limnology at the crossroads: its role in freshwater conservation and management?**

*Chair:* Cécilia Barouillet, FR  
*Chair:* Juan David González Trujillo, ES  
*Chair:* Philip J. Boon, GB

*Opening/Closing*

14:45 - 15:35

Plenary Room Berlin 3-6 Live Streamed!

### **Opening Ceremony**

*Chair:* Rita Adrian, DE

*Chair:* Mark O. Gessner, DE

*Chair:* Lars Tranvik, SE

**Opening** 14:45 - 15:00

**Greetings** 15:00 - 15:30

**Vattenringar by Dan Gisen Malmquist** 15:30 - 15:35

*Opening/Closing*

14:45 - 16:25

Plenary Room Berlin 3-6 Live Streamed!

### **Opening Ceremony**

*Opening/Closing*

15:35 - 16:30

Plenary Room Berlin 3-6 Live Streamed!

### **Presidential Keynote**

*Chair:* Rita Adrian, DE

**Diversity of researcher types and plurality of philosophical concepts in limnology** 15:35 - 16:05

*Speaker:* Thomas Mehner, DE

**Some reflections on 6 decades of international limnology** 16:05 - 16:20

*Speaker:* Gene Likens, US

**Water Music by Georg Friedrich Händel** 16:20 - 16:25

*Plenary lectures*

16:30 - 17:30

Plenary Room Berlin 3-6 Live Streamed!

### **Plenary Lecture Nancy Grimm**

*Chair:* Ryan Sponseller, SE

*Chair:* Emma Kritzberg, SE

**Resilience to climate change in streams and cities: looking to the past and the future** 16:30 - 16:30

*Speaker:* Nancy B. Grimm, US

*Networking Activities and Assemblies*

17:30 - 19:30

Exhibition Area Foyer C

### **Welcome Reception**

**Celebrating 100 years of discovery and scholarship** 17:30 - 17:30

**The Collection of articles prepared for SIL100, with introduction, and selected papers of Inland Waters prepared by Jack Jones** 17:30 - 17:30

## Monday, 08. August 2022

*ePosters*

08:00 - 17:30

Poster Area C2, C3

### **ePosters on Demand**

*ePosters*

08:00 - 17:30

Poster Area C2, C3

### **Invasive alien species in inland waters: invasion trends, impacts and management**

- |       |  |               |
|-------|--|---------------|
| EP146 | <b>Assessment of public awareness in freshwater alien species and anura by digital data analysis</b><br><i>Presenter:</i> Woong-Bae Park, KR   | 08:00 - 08:00 |
| EP147 | <b>Distribution trends of invasive Asian carps (<i>Hypophthalmichthys molitrix</i> and <i>Aristichthys nobilis</i>) in Europe in the context of climate change</b><br><i>Presenter:</i> Oksana Nekrasova, UA | 08:00 - 08:00 |
| EP148 | <b>Invasive alien species in freshwater systems of Georgia</b><br><i>Presenter:</i> Bella Japoshvili, GE   | 08:00 - 08:00 |
| EP149 | <b>Biological invasion success of <i>Pontogammarus robustoides</i> G. O. Sars, 1894 in the Daugava River (Latvia)</b><br><i>Presenter:</i> Aija Brakovska, LV  | 08:00 - 08:00 |
| EP185 | <b>Cytogenetic alterations in the invasive species of gammarids caused by the water ion composition changes</b><br><i>Presenter:</i> Mariia Goncharova, UA   | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

### **Ecology and conservation of temporary aquatic ecosystems**

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|-------|---|---------------|
| EP137 | <b>Decadal ecological recovery associated with removing overgrown macrophytes</b><br><i>Presenter:</i> Kanako Ishikawa, JP  | 08:00 - 08:00 |
| EP138 | <b>Assessment of cladocerans recolonization from the egg bank in a neotropical temporary pond</b><br><i>Presenter:</i> Carlos López, EC   | 08:00 - 08:00 |
| EP139 | <b>Environmental filtering and limiting similarity as driving forces of macroinvertebrate community structure in drought effected lowland streams</b><br><i>Presenter:</i> Júlia Szeles, HU | 08:00 - 08:00 |
| EP140 | <b>A collapse of a European temporary protected wetland: the plankton dynamics leading to an ecological disaster</b><br><i>Presenter:</i> Maria Demertzioglou, GR                           | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

- EP141      **Using heat-adapted microalgae to prevent cyanobacterial blooms**      08:00 - 08:00  
*Presenter:* Maria Nicoară, RO
- EP142      **Cyanobacterial dominance in the regulated Moselle River in 2017-2020 correlates with low flow conditions and high temperatures**      08:00 - 08:00  
*Presenter:* Julia Kleinteich, DE
- EP143      **Key environmental factors controlling primary production of phytoplankton in Yeongju Dam, Korea**      08:00 - 08:00  
*Presenter:* Huiwon Lee, KR
- EP144      **Cyanobacterial blooms in remote Minnesota lakes prompt exploration of atmospheric nutrient deposition and carbon dioxide as controls on algal community dynamics**      08:00 - 08:00  
*Presenter:* Lienne Sethna, US
- EP145      **Effects of cyanotoxins on the demography of successive generations of the rotifer *Brachionus calyciflorus*.**      08:00 - 08:00  
*Presenter:* Carlos Sánchez Zamora, MX

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08:00 - 17:30

Poster Area C2, C3

**Urban inland waters - hotspots of global change**

- EP049      **The effects of road crossings on stream macroinvertebrate diversity**      08:00 - 08:00  
*Presenter:* Blanka Gál, HU
- EP050      **The former lakes of Valley of Mexico, a retrospective study from Alexander von Humboldt to the present**      08:00 - 08:00  
*Presenter:* Eugenia López-López, MX

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08:00 - 17:30

Poster Area C2, C3

**Open dialogue on world water issues and solutions across generations**

- EP129      **The disappearance of *Bdellocephala annandalei* in conjunction with environmental changes in Lake Biwa**  
□ **Latest results of lake bottom monitoring**      08:00 - 08:00  
*Presenter:* Runo Sato, JP
- EP130      **What is happening in the world's third ancient lake "Lake Biwa"**      08:00 - 08:00  
*Presenter:* Rui Kurokawa, JP
- EP131      **Global Warming and its Impact on Lake Biwa Ecosystems - Changes in water temperature and**      08:00 - 08:00

	<b>decrease of endemic Biwa-salmon in Lake Biwa</b> <i>Presenter: Tomoaki Takahashi, JP</i>	
EP132	<b>My Research in Lake Biwa Part 1</b> <i>Presenter: Naoki Endo, JP</i>	08:00 - 08:00
EP133	<b>New initiative in Shiga prefecture</b> <i>Presenter: Sotaro Maki, JP</i>	08:00 - 08:00
EP134	<b>Water issues and school lunches</b> <i>Presenter: Yuha Oka, JP</i>	08:00 - 08:00
EP135	<b>The relationship between the number of native fishes and the number of alien fishes in Lake Biwa</b> <i>Presenter: Toma Asakawa, JP</i>	08:00 - 08:00
EP136	<b>Lower the water temperature of Lake Biwa by using the treated water of the sewage treatment plant that flows into Lake Biwa</b> <i>Presenter: Shin Atago, JP</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Using aquatic mesocosms for ecosystem studies, environmental engineering and nature-based solutions to experimentally tackle ecosystem grand challenges**

EP179	<b>Next-generation sequencing for studying spatio-temporal composition of phytoplankton communities in thermally stratified mesocosms</b> <i>Presenter: Ayagoz Meirkhanova, KZ</i>	08:00 - 08:00
EP180	<b>Using UV-fluorescence fingerprints to assess lake browning effects</b> <i>Presenter: Nicolas Clercin, FR</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

EP126	<b>Transcriptomic responses of the blooming cyanobacteria <i>Microcystis aeruginosa</i> against PAC: Implications for ecological adaptation</b> <i>Presenter: Eun-Jeong Kim, KR</i>	08:00 - 08:00
EP127	<b><i>Planktothrix agardhii</i> Bloom in Yahuarcocha lake - Ecuador</b> <i>Presenter: María de Lourdes Guerra C., ES</i>	08:00 - 08:00
EP128	<b>Transfer of microcystins in the food chain - a case study in Lake Mindelsee, Germany</b> <i>Presenter: Eva Riehle, DE</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

- |       |   |               |
|-------|---|---------------|
| EP120 | <b>Remote Quantification of the Turbidity of Chinese Lakes (&gt;1 km<sup>2</sup>)</b><br><i>Presenter: Sijia Li, CN</i>   | 08:00 - 08:00 |
| EP121 | <b>S-Oases: An open-source database on the environmental and cultural state and future development of oases globally</b><br><i>Presenter: Juan Antonio Hernández-Agüero, DE</i> | 08:00 - 08:00 |
| EP122 | <b>Lake surface water temperature is a good indicator to evaluate the warmer trend in ice-covered lakes in Tibetan plateau?</b><br><i>Presenter: Xin Zhang, CN</i>              | 08:00 - 08:00 |
| EP123 | <b>Ecological status of Tunisia's coastal lagoons using remote sensing</b><br><i>Presenter: Rebeca Pérez-González, ES</i>   | 08:00 - 08:00 |
| EP124 | <b>An integrated monitoring and modelling system for the shallow subtropical Ypacaraí Lake (Paraguay)</b><br><i>Presenter: Gregorio Alejandro López Moreira Mazacotte, PY</i>   | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**The future of small water bodies in the context of global change**

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|-------|--|---------------|
| EP115 | <b>Microcystin-LR accumulation in fish and agricultural crops: implications on public health</b><br><i>Presenter: Cesar Alejandro Zamora Barrios, MX</i>                             | 08:00 - 08:00 |
| EP116 | <b>The effect of land use intensity on pond biodiversity and GHG emissions</b><br><i>Presenter: Robby Wijns, BE</i>  | 08:00 - 08:00 |
| EP117 | <b>Preliminary study on isotopic niches of freshwater planktonic crustaceans in three lakes functioning under different thermal regimes</b><br><i>Presenter: Wojciech Krztoń, PL</i> | 08:00 - 08:00 |
| EP118 | <b>The effect of buffer strip size on the ecological state of small ponds in agricultural areas in Belgium and Germany</b><br><i>Presenter: Louisa-Marie von Plüskow, BE</i>         | 08:00 - 08:00 |
| EP119 | <b>Pioneer temporary moraine ponds: a specific freshwater habitat in Maritime Antarctica</b><br><i>Presenter: Vesela Evtimova, BG</i>  | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Sustainable freshwater management in the 21st century**

- |       |  |               |
|-------|--|---------------|
| EP107 | <b>Water quality evaluation and environmental awareness: a case study of European and Brazilian rivers</b><br><i>Presenter:</i> Camila Pimenta, HU   | 08:00 - 08:00 |
| EP108 | <b>Degradation of charophytes in a mesotrophic lake and attribution to herbicide application in sub-catchments</b><br><i>Presenter:</i> Christiane Krambeck, DE  | 08:00 - 08:00 |
| EP109 | <b>Attempts to develop a non-invasive method of phosphorus removal from eutrophic lakes</b><br><i>Presenter:</i> Agnieszka Bańkowska-Sobczak, PL   | 08:00 - 08:00 |
| EP111 | <b>The Future of the River Network Toolkit (RivTool)</b><br><i>Presenter:</i> Gonçalo Duarte, PT   | 08:00 - 08:00 |
| EP112 | <b>Nitrate treatment as a tool for lake restoration in agricultural watersheds</b><br><i>Presenter:</i> Renata Dondajewska-Pielka, PL  | 08:00 - 08:00 |
| EP113 | <b>Historical changes of the dissolved silicate supply and its effects on benthic animals in a tidal flat ecosystem</b><br><i>Presenter:</i> Megumu Fujibayashi, JP  | 08:00 - 08:00 |
| EP114 | <b>Chemical precipitation of phosphorus with polyaluminium chloride: water quality development five and twenty years after treatment in two eutrophicated lakes</b><br><i>Presenter:</i> Jouko Sarvala, FI | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

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|-------|---|---------------|
| EP102 | <b>Holocene ecosystem development as recorded from benthic cladocerans in Laguna de Río Seco (Sierra Nevada, S Spain)</b><br><i>Presenter:</i> Charo López-Blanco, ES | 08:00 - 08:00 |
| EP103 | <b>The challenge of finding a metabarcoding region for cladocerans in sedimentary DNA</b><br><i>Presenter:</i> Charo López-Blanco, ES                                 | 08:00 - 08:00 |
| EP104 | <b>Evolutionary Adaptation of Arctic Daphnia to Environmental Change</b><br><i>Presenter:</i> Athina Karapli Petritsopoulou, DE                                       | 08:00 - 08:00 |
| EP105 | <b>Potential of waterbird environmental DNA to investigate ecosystem changes in Lake Constance</b>  | 08:00 - 08:00 |

**and surroundings**

*Presenter:* Rebecca Kühner, DE

- EP106      **Climatic and human induced vegetational changes recovered by sedaDNA from Lake Tiefer See, Germany**      08:00 - 08:00

*Presenter:* Theresa Wietelmann, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Plastics in inland waters: pathways and impact**

- EP101      **An empirical assessment of the threat of suspended microplastics to aquatic food webs in a neotropical freshwater wetland**      08:00 - 08:00

*Presenter:* Carlos López, EC

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

- EP094      **Long-term observations of the progressive urbanization to the trophic state of an urban meromictic lake**      08:00 - 08:00

*Presenter:* Renata Tandyrak, PL

- EP095      **The reaction of bottom sediments of shallow, restored lake (Mielenko Lake, Poland) to the prolonged circulation due to lack of ice-cover during winter season**      08:00 - 08:00

*Presenter:* Renata Augustyniak-Tunowska, PL

- EP096      **An innovative method of lakes restoration - selective water flow control**      08:00 - 08:00

*Presenter:* Michał Łopata, PL

- EP097      **Mass balance and critical load of phosphorus in the Lago del Fuerte reservoir (Tandil, Argentina)**      08:00 - 08:00

*Presenter:* Marisol Roxana Cifuentes, AR

- EP098      **Influence of the addition of calcium nitrate and oxygen-enriched water (Schäfersee-Verfahren®) on the hypolimnion of a contaminated urban lake**      08:00 - 08:00

*Presenter:* Robin Burgold, DE

- EP099      **Spatial and temporal pattern of phosphorus release from sediments of a eutrophying clear-water lake**      08:00 - 08:00

*Presenter:* Johann Holdt, DE

- EP100      **Pathways of nutrient pollution in the Volga Reservoirs**      08:00 - 08:00

*Presenter:* Oxana Erina, RU



*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Adjusting reservoir management to global change**

- EP088      **Lake Długie in Olsztyn (Olsztyn Lakeland) as an example of good practice in lakes restoration**      08:00 - 08:00  
*Presenter:* Jolanta Grochowska, PL
- EP089      **What are the current sources of nutrient pollution and effects on lake stability for the Rappbode Reservoir System, in Germany?**      08:00 - 08:00  
*Presenter:* Floran Clopin, NL
- EP090      **Structure of microbial communities in benthic biofilms of glacier-fed streams from Patagonia, Argentina**      08:00 - 08:00  
*Presenter:* Evelyn Vega, AR
- EP091      **The making of a river: Microbial dispersal and resource transport in a lab meta-ecosystem**      08:00 - 08:00  
*Presenter:* Tania Sosa-Jiron, AT
- EP092      **Experimental studies on the succession of phytobenthos with the simulation of different climate change scenarios**      08:00 - 08:00  
*Presenter:* Zoltán Novák, HU
- EP093      **The effects of climate warming on the periphyton community in the River Thames (Oxford, England)**      08:00 - 08:00  
*Presenter:* Adriana Mordente, GB

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Novel insights into freshwater ecosystem processes by stable isotopes**

- EP086      **Environmental fate and trophic transfer of synthetic musk compounds and siloxanes in Geum River, Korea: Compound-specific nitrogen isotope analysis of amino acids**      08:00 - 08:00  
*Presenter:* Dokyun Kim, KR
- EP087      **Organic carbon transfer across the river-sea interfaces in three estuary systems in South Korea**      08:00 - 08:00  
*Presenter:* Sujin Kang, KR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

- EP083      **Transcriptome response of *Gasterosteus aculeatus* in natural habitats affected by multiple anthropogenic stressors**      08:00 - 08:00  
*Presenter:* Camilo Escobar-Sierra, DE
- EP084      **Exposure pathways of agricultural run-off matter for**      08:00 - 08:00

**regime shifts in phototrophic communities**

*Presenter:* Bastian H. Polst, DE

- EP085      **Toxicity of profenofos to early life stage of whitegoby (*Glossogobius giuris*Hamilton)**      08:00 - 08:00  
*Presenter:* Ma. Vivian Camacho, PH

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Links between landscapes and surface water chemistry**

- EP073      **Biogeochemical heterogeneity at the stream-riparian interface of boreal headwaters**      08:00 - 08:00  
*Presenter:* Melissa Reidy, SE

- EP074      **Concentration-Discharge Relationships to Identify Catchment Controls on Carbon and Nutrient Exports from a Boreal Landscape**      08:00 - 08:00  
*Presenter:* Virginia Mosquera, SE

- EP075      **Nitrogen and phosphorus transport throughout Mediterranean watersheds in response to land-use changes and hydrology**      08:00 - 08:00  
*Presenter:* Daniele Nizzoli, IT

- EP076      **Analysis of dissolved organic carbon effects on the mobilization of metals in a historic mine drainage**      08:00 - 08:00  
*Presenter:* Anita Sanchez, DE

- EP077      **Carbon bioavailability and oxygen consumption in a future scenario - A case study in Lake Bolmen**      08:00 - 08:00  
*Presenter:* Johanna Sjöstedt, SE

- EP078      **Linking forest to fish: the story of coastal darkening**      08:00 - 08:00  
*Presenter:* Dag Hessen, NO

- EP079      **Seasonal variation in transport of bioavailable organic carbon**      08:00 - 08:00  
*Presenter:* Kevin Jones, SE

- EP080      **Metal pollution assessment in the region of the former Texcoco Lake (Basin of México), a multivariate approach**      08:00 - 08:00  
*Presenter:* Jacinto Elías Sedeño-Díaz, MX

- EP081      **Fish scale stable isotopes as potential indicators of nutrient pollution**      08:00 - 08:00  
*Presenter:* Mojmír Vašek, CZ

- EP082      **Effect of Land Use on Stream Water Quality and Biological Conditions in Multi-scale Watersheds**      08:00 - 08:00  
*Presenter:* Jong-Won Lee, KR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Linking physical and biogeochemical lake modeling**

- EP071      **A new process-based model for regional-scale assessment of lake CH<sub>4</sub> emissions: resolving the spatio-temporal variability in diffusive and ebullitive fluxes from European lakes**      08:00 - 08:00  
*Presenter:* Manon Maisonnier, BE
- EP072      **Three-dimensional hydrodynamic-biogeochemical modelling of a small urban lake**      08:00 - 08:00  
*Presenter:* Francesco Piccioni, FR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Large and deep lakes under stress: how resilient are lake ecosystems?**

- EP068      **Climate as the main driver of nutrients and phytoplankton dynamics in a deep oligomictic lakes South of the Alps**      08:00 - 08:00  
*Presenter:* Michela Rogora, IT
- EP069      **Do invasive quagga mussels grow faster than zebra mussels? Growth rates of dreissenids under multiple simulated field conditions**      08:00 - 08:00  
*Presenter:* Hui Zhang, DE
- EP070      **Past, present and future anthropogenic stressors in a large Swedish lake**      08:00 - 08:00  
*Presenter:* Friederike Ermold, SE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Land-use impacts and other stressors on freshwater ecosystems**

- EP062      **Macroinvertebrate community at a restored river site shows resistance to increased salinity**      08:00 - 08:00  
*Presenter:* Iris Madge Pimentel, DE
- EP063      **Intensive human land-uses impairs ecosystem functioning through reducing taxonomic and functional diversities**      08:00 - 08:00  
*Presenter:* Dieison Moi, BR
- EP064      **A deep dive into methylparaben: Investigating its natural presence in freshwater biota**      08:00 - 08:00  
*Presenter:* Katarina A. Cetinić, HR
- EP065      **The effects of multiple stressors on biotic interactions in riverine ecosystems: A case study on predator-mediated shifts induced by fish**      08:00 - 08:00  
*Presenter:* Anna-Maria Vermiert, DE
- EP066      **Altered streams significantly contribute to the**      08:00 - 08:00

**regional diversity of aquatic invertebrates in the Atlantic Forest**

*Presenter:* Marcelo Moretti, BR

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|-------|--|---------------|
| EP067 | <b>Environmental Flow Requirements of Estuaries: Providing resilience to current and future climate and direct anthropogenic changes</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Daniel Chilton, AU   |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

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|-------|--|---------------|
| EP058 | <b>Nutrients and microorganism assemblages in snowpacks in North-Patagonian Andes Mountain</b>   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Agustina Iglesias Louis, AR  |               |
| EP059 | <b>Glacier melt-down changes habitat characteristics and unique microbial community composition and physiology in Alpine lakes sediments</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Christiane Zarfl, DE   |               |
| EP060 | <b>Evolution of surface temperatures in Austrian alpine lakes under climate change</b>   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Katharina Enigl, AT  |               |
| EP061 | <b>Fish as sentinels of hydromorphological impact</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Stelian Stanescu, RO   |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Gases in inland waters: production, accumulation, and emission**

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|-------|---|---------------|
| EP051 | <b>Assessing the controls on respiratory quotient across the land to sea continuum</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Konstantinos-Marios Vaziourakis, SE   |               |
| EP052 | <b>Lake Yambo as a model crater lake to better understand methane dynamics in tropical East Asia</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Justine de Leon, PH   |               |
| EP053 | <b>Impact of bioturbators on methane emission across the sediment-water interface from a model perspective</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Lucia Cabrera-Lamanna, NL   |               |
| EP054 | <b>Bioturbation effects on sediment CO<sub>2</sub> and CH<sub>4</sub> emissions from inland waters</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Ilenia Marquina Luevano, NL   |               |
| EP055 | <b>Methane production in the oxic water column of shallow lakes from the Pampean Plain with different alternative regimes (Buenos Aires, Argentina)</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Sofia Baliña, AR  |               |

EP056 **Hydrology drives GHG dynamics in a boreal headwater stream affected by clear-cutting** 08:00 - 08:00  
*Presenter:* Demian Hauptmann, SE

EP057 **Sediment microbial ecology and methane dynamics during resuspension events in a hypersaline coastal lagoon** 08:00 - 08:00  
*Presenter:* Christopher Keneally, AU

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**From macroecology to spatio-temporal ecology in freshwaters**

EP043 **Divergent litter traits of riparian plant species in humid and drier biomes within the tropics** 08:00 - 08:00  
*Presenter:* Guilherme Sena, BR

EP044 **Decomposing distributions into life stage-specific modules in freshwater Species Distribution Models** 08:00 - 08:00  
*Presenter:* Graciela Patricia Medina Madariaga, DE

EP045 **Sediment replenishment mitigates riverbed environments and benthic macroinvertebrates communities downstream of a dam** 08:00 - 08:00  
*Presenter:* Izumi Katano, JP

EP046 **Trophic status of the filter-feeder larvae and quantity and quality of drifted fine particle materials in a dam river** 08:00 - 08:00  
*Presenter:* Sara Soroji, JP

EP047 **Effects of a tributary inflow and sediment replenishment on riverbed environments and benthic macroinvertebrates communities downstream of a dam** 08:00 - 08:00  
*Presenter:* Naoko Hara, JP

EP048 **Dammed Fish - Impact of structural and functional river network connectivity losses on fish biodiversity - Optimizing management solutions** 08:00 - 08:00  
*Presenter:* Paulo Branco, PT

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

EP039 **Unravelling the drivers of nitrous oxide emissions from streams (DrivNOS)** 08:00 - 08:00  
*Presenter:* Joachim Audet, DK

EP040 **Title: Radiocarbon Stocktaking of Swiss Lakes: Relevance to Carbon Budgets and Dynamics** 08:00 - 08:00  
*Presenter:* Benedict Mittelbach, CH

EP041 **Does burial of organic carbon reduce recent atmospheric CO<sub>2</sub> concentrations: a case study at a German reservoir** 08:00 - 08:00

*Presenter:* Jörg Tittel, DE

EP042 **Bottom-up vs top-down observations highlight potential overestimation of methane sediment fluxes in freshwaters with high sulphate concentrations** 08:00 - 08:00

*Presenter:* Aurora Pinto, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Fish ecology, management and conservation**

EP034 **Temporal dynamics of freshwater fish assemblages - a systematic review** 08:00 - 08:00

*Presenter:* István Czeglédi, HU

EP035 **On-site ultra-rapid environmental DNA detection for freshwater fish** 08:00 - 08:00

*Presenter:* Hideyuki Doi, JP

EP036 **First results of great cormorant GPS tracking at a large Central European lake** 08:00 - 08:00

*Presenter:* Bálint Preiszner, HU

EP037 **Response in the fish assemblage due to temporal opening test of the Nakdong estuarine barrage** 08:00 - 08:00

*Presenter:* Donghyun Hong, KR

EP038 **Towards an Ecosystem-based management (EBM) in Sweden's second largest lake** 08:00 - 08:00

*Presenter:* Malin Setzer, SE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

EP024 **The effect of drought on bottom fauna succession in streams in primeval forest, North Eastern Poland** 08:00 - 08:00

*Presenter:* Jacek Koszałka, PL

EP025 **Changes in catchment modifies alpine lakes heat budget** 08:00 - 08:00

*Presenter:* Isabel Herr, CH

EP026 **Do chrysophyte cysts reflect the changes in meteorological conditions? A case study from northeastern Poland** 08:00 - 08:00

*Presenter:* Agnieszka Szczerba, PL

EP027 **Effects of changes in meteorological/environmental conditions on diatom deposition and taxonomic** 08:00 - 08:00

**structure in lakes Łazduny and Rzęsniki, northeast Poland**

*Presenter:* Agnieszka Szczerba, PL

EP028 **Impact of climate change on the water column anoxia in a small urban lake** 08:00 - 08:00

*Presenter:* Brigitte Vinçon Leite, FR

EP029 **Římov Reservoir dataset - the family silver of the Czech long-term limnological research** 08:00 - 08:00

*Presenter:* Petr Znachor, CZ

EP030 **Temperature-mediated diet preference in the invasive crustacean *Limnomysis benedeni*** 08:00 - 08:00

*Presenter:* Varsha Rani, HU

EP031 **Cyanobacterial blooms like it hot - or not** 08:00 - 08:00

*Presenter:* Sandra Rabow, SE

EP032 **Does solar activity affect the dynamics of cyanobacteria community worldwide and how?** 08:00 - 08:00

*Presenter:* Gaël Dur, JP

EP033 **Compiling and harmonizing thermal tolerance data to assess variability within species and across organism groups, size, and phylogeny** 08:00 - 08:00

*Presenter:* Helena Soraya Bayat, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Dynamics of freshwater bacteria, fungi, and viruses**

EP020 **Disentangling the relative importance of water quality and spatial factors on aquatic fungal assemblages across 50 reservoirs** 08:00 - 08:00

*Presenter:* Maiko Kagami, JP

EP021 **The prevalence of chytrid fungus infection of glacier algae on a glacier in Alaska** 08:00 - 08:00

*Presenter:* Kino Kobayashi, JP

EP022 **Phylogeny and biogeography of the novel parasitic chytrids infecting snow algae in alpine ecosystems** 08:00 - 08:00

*Presenter:* Hiroaki Nakanishi, JP

EP023 **Impact of a widely used herbicide on the chytrid infection of toxigenic cyanobacteria** 08:00 - 08:00

*Presenter:* Erika Berenice Martinez-Ruiz, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Dynamics of dissolved and particulate organic matter in inland waters**

EP016 **Dissolved organic matter quality variations as function of time and space in two drinking water** 08:00 - 08:00

**reservoirs in Germany**

*Presenter:* Peter Herzsprung, DE

- |       |   |               |
|-------|---|---------------|
| EP017 | <b>Alteration of dissolved organic matter from particulate organic matter in the riverine environment by <i>Ephemera</i> mayflies</b>           | 08:00 - 08:00 |
|       | <i>Presenter:</i> Tomohiro Okabe, JP  |               |
| EP018 | <b>Estimating inputs of aquaculture-derived nutrients to streams using dissolved organic matter fluorescence and in situ sensors detections</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Sebastian Osorio, CL  |               |
| EP019 | <b>Salt pulsed effects on leaf litter decomposition extend beyond contamination cessation and depends on leaf colonization status</b>           | 08:00 - 08:00 |
|       | <i>Presenter:</i> Ricardo Oliveira, PT  |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Cross-boundary interactions: from aquatic to terrestrial ecosystems**

- |       |   |               |
|-------|---|---------------|
| EP014 | <b>Trophic transfer of marker and essential fatty acids from chironomids emerged from saline siberian lakes to riparian orb-weaving spiders</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Nadezhda Sushchik, RU   |               |
| EP015 | <b>Metabarcoding reveals effects of anti-mosquito agent on non-target chironomid communities</b>  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Nina Röder, DE  |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Connectivity of aquatic ecosystems**

- |       |  |               |
|-------|--|---------------|
| EP008 | <b>Go with the flow - impact of connectivity on nutrient regimes and phytoplankton dynamics in river-connected lakes</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Christine Kiel, DE   |               |
| EP009 | <b>Irrigation dams alter biogeochemicals cycling in intermittent streams of Appenines</b>                                | 08:00 - 08:00 |
|       | <i>Presenter:</i> Edoardo Cavallini, IT  |               |
| EP010 | <b>Prioritizing pond restoration to recover the habitat connectivity of a pond-dwelling turtle</b>                       | 08:00 - 08:00 |
|       | <i>Presenter:</i> Pedro Segurado, PT   |               |
| EP011 | <b>Diel variation of water column CH<sub>4</sub> and emission fluxes in a eutrophic lake</b>                             | 08:00 - 08:00 |
|       | <i>Presenter:</i> Hanqing Yuan, CN   |               |
| EP012 | <b>Natural Vs. Artificial River Network Fragmentation in Europe</b>  | 08:00 - 08:00 |



*Presenter:* Tamara Leite, PT

- EP013      **Effectiveness monitoring of 5 fish ladders in Catalonia, NE of the Iberian Peninsula**      08:00 - 08:00  
*Presenter:* Quim Pou-Rovira, ES

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08:00 - 17:30

Poster Area C2, C3

**Combining data-driven and process-based models: Perspectives for limnological studies**

- EP003      **A model coupling dispersal and resource fluxes in fluvial meta-ecosystems**      08:00 - 08:00  
*Presenter:* Matthew Talluto, AT
- EP004      **Analysis of the influence of different meteorological factors on lake surface water temperature across different climates**      08:00 - 08:00  
*Presenter:* Marco Toffolon, IT
- EP005      **Modelling the effect of variability of inflow nutrient concentrations on lake nutrient retention**      08:00 - 08:00  
*Presenter:* Maria Determann, DE
- EP006      **Modelling a deep oligomictic lake: the relevance of the quality of input data**      08:00 - 08:00  
*Presenter:* Claudia Dresti, IT
- EP007      **The precipitation retention time in Lake Biwa and its catchment area using the response function**      08:00 - 08:00  
*Presenter:* Maho Iwaki, JP

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08:00 - 17:30

Poster Area C2, C3

**Collecting diverse lake data from automated buoys or floating research platforms to promote interdisciplinarity**

- EP001      **A web-platform to ease access and overview of collected real-time buoy data**      08:00 - 08:00  
*Presenter:* Anders Nielsen, DK
- EP002      **Combining modelling and automated monitoring at the hydroelectric reservoir of Eguzon to predict the evolution of water quality and algae blooms**      08:00 - 08:00  
*Presenter:* Mathieu Caffin, FR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Climate impacts of human-made freshwater systems**

- EP182      **Methane Emissions due to Reservoir Flushing: An Overlooked High-impact Pathway?**      08:00 - 08:00  
*Presenter:* Frank Peeters, DE

EP183      **Combatting eutrophication and recycling of nutrients: can fishpond sediments be used for crop cultivation?**      08:00 - 08:00  
*Presenter:* Ana Paula Dalbem Barbosa, BR

EP184      **Dam removal and the fate of sediment: can macrophytes minimize sediment leakage of greenhouse gases, nutrients and heavy metals?**      08:00 - 08:00  
*Presenter:* Anna Bottone, SE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Bio-manipulations for eutrophic waters restoration**

EP181      **Phytoplankton dynamics shaping the efficiency of phosphorus accumulation by periphyton in the eutrophic reservoir**      08:00 - 08:00  
*Presenter:* Marija Pečić, RS

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Biodiversity, community assembly and functioning in plankton communities**

EP163      **Plankton diversity in tropical-highland wetlands under different hydrological influences (Lake Tana, Ethiopia)**      08:00 - 08:00  
*Presenter:* Abrehet Mehari, BE

EP165      **Effects of climate change and grazing on assembly processes and ecosystem functioning in bacterioplankton communities**      08:00 - 08:00  
*Presenter:* Berenike Bick, SE

EP166      **Biodiversity-ecosystem function relationships under resource-replete conditions - an experimental approach**      08:00 - 08:00  
*Presenter:* Fernanda Miranda, SE

EP167      **Morphometric variations of rotifers in a high altitude reservoir in Central Mexico**      08:00 - 08:00  
*Presenter:* Sergio González Gutiérrez, MX

EP168      **Spread of invasive and alien cyanobacterial species: phenomena of blooms, non-blooms, and biodiversity loss**      08:00 - 08:00  
*Presenter:* Agnieszka Napiórkowska-Krzebietke, PL

EP169      **Zooplankton networks conditioned by winter warming in small anthropogenic reservoirs**      08:00 - 08:00  
*Presenter:* Anna Goździejewska, PL

EP170      **Effectiveness of stable isotope analysis in understanding the nutrient reliance of ectoparasites in freshwater ecosystem to their respective hosts**      08:00 - 08:00  
*Presenter:* Justine de Leon, PH

EP171	<b>Synergistic effects of crowding and food shortage on growth, reproduction, and longevity in <i>Daphnia magna</i></b> <i>Presenter: Syuhei Ban, JP</i>	08:00 - 08:00
EP172	<b>Winter diatom ecology in a eutrophying lake and effects on summer biogeochemistry</b> <i>Presenter: Valeria Fárez-Román, DE</i>	08:00 - 08:00
EP173	<b>Roles of the host phylogeny on the formation of host-associated microbiota in <i>Daphnia pulex</i></b> <i>Presenter: Ryotaro Ichige, JP</i>	08:00 - 08:00
EP174	<b>How does environmental temperature impact the ability of <i>Daphnia</i> to resist a novel fungal parasite?</b> <i>Presenter: Joe Money, PL</i>	08:00 - 08:00
EP175	<b>G x G interactions between algal and zooplankton clones isolated during the spring season</b> <i>Presenter: Domiziana Cristini, DE</i>	08:00 - 08:00
EP176	<b>Influence of temperature and nitrogen on the growth of <i>Raphidiopsis raciborskii</i> strains originating from different climate zones</b> <i>Presenter: Agnieszka Brzozowska, PL</i>	08:00 - 08:00
EP177	<b>Comparisons of heliozoan abundance between deep and shallow basins of Lake Biwa with special reference to optimal growth temperature, food resource and habitat use</b> <i>Presenter: Junya Yoshida, JP</i>	08:00 - 08:00
EP178	<b>Zooplankton Communities as Bioindicators of Water Quality in Lake Palacpaquen and Lake Pandin, San Pablo City, Philippines</b> <i>Presenter: Ma. Vivian Camacho, PH</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Assessment and biomonitoring of inland waters**

EP150	<b>Digital microscopy for diatom-based ecological status assessment - case study two international rivers (Sava and Tisa rivers, Serbia)</b> <i>Presenter: Danijela Vidakovic, DE</i>	08:00 - 08:00
EP151	<b>Application of benthic diatom community developed on brick artificial substrate in ecological status assessment of soda ponds</b> <i>Presenter: Miloš Ćirić, RS</i>	08:00 - 08:00
EP152	<b>Responses of microphytobenthic communities to multiple stressors increase and release in a large-scale ExStream mesocosm experimental setting</b> <i>Presenter: Albert Serge Ntambwe Mayombo, DE</i>	08:00 - 08:00

EP153	<b>Digital microscopy improves diatom research</b> <i>Presenter: Andrea Burfeid-Castellanos, DE</i>	08:00 - 08:00
EP154	<b>National scale patterns of diatom-environment relationships in rivers and streams of the United States based on DNA metabarcoding</b> <i>Presenter: Nathan Smucker, US</i>	08:00 - 08:00
EP156	<b>Diatom Community Dynamics in Recovering Agricultural Stream in Milledgeville, Georgia, USA</b> <i>Presenter: Sydney Brown, US</i>	08:00 - 08:00
EP157	<b>The diversity of microsporidian parasites infecting divergent coexisting lineages of the <i>Gammarus fossarum</i> species complex in the Western Carpathians</b> <i>Presenter: Nataša Katanić, CZ</i>	08:00 - 08:00
EP158	<b>Evaluating the utility of citizen science in bird monitoring</b> <i>Presenter: Yerim Lee, KR</i>	08:00 - 08:00
EP159	<b>Applicability of advanced molecular tools for river benthic diatom biomonitoring in southern Europe</b> <i>Presenter: Juan Antonio Villaescusa Vinader, ES</i>	08:00 - 08:00
EP160	<b>Effect of dredging on the phytobenthos composition, structure and ecological status (based on phytobenthos) of hilly streams</b> <i>Presenter: Éva Ács, HU</i>	08:00 - 08:00
EP161	<b>Diverse diatom communities of an oxbow lake of the River Tisza with the description a new <i>Mayamaea</i> species</b> <i>Presenter: Mónika Duleba, HU</i>	08:00 - 08:00
EP162	<b>Avian diversity in Nyangezi wetlands: the case of Nyamubanda Swamp in Territory of Walungu, Sud-Kivu, Democratic Republic of Congo</b> <i>Presenter: Baguma Balagizi Gabriel, CD</i>	08:00 - 08:00

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08:00 - 17:30

Oral Presentations on Demand

<b>Invasive alien species in inland waters: invasion trends, impacts and management</b>		
OR075	<b>Trichoptera species on the North-Atlantic islands with emphasis on Iceland</b>	08:00 - 08:00
OR076	<b>Impacts of alien species on native freshwater megafauna</b> <i>Presenter: Xing Chen, DE</i>	08:00 - 08:00
OR077	<b>Effect of copper (Cu) and temperature on the feeding behavior of the invasive (<i>Mesocyclops pehpeiensis</i>) and native (<i>Mesocyclops longisetus</i> and <i>Microcyclops</i>)</b>	08:00 - 08:00

***dubitabilis*) copepods (Crustacea: Copepoda)**

*Presenter:* Leticia Esmeralda Cruz-Escalante, MX

OR078 **The role of intra-specific diversity on microbial invasions in lakes** 08:00 - 08:00

*Presenter:* Guntram Weithoff, DE

OR079 **What do we know about variation of the crayfish plague pathogen? Overview from both invaded and native ranges** 08:00 - 08:00

*Presenter:* Adam Petrusek, CZ

**Freshwater crayfish introductions in Africa** 08:00 - 08:00

*Speaker:* Takudzwa Comfort Madzivanzira, ZA

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08:00 - 17:30

Oral Presentations on Demand

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

OR025 **Bitter facts of India's largest inland saline wetland: 96 years of analysis** 08:00 - 08:00

*Presenter:* Rajashree Naik, IN

OR026 **Simulation of flow pattern in ice-covered lakes using a 3d circulation model** 08:00 - 08:00

*Presenter:* Fatemeh Sadat Sharifi, DE

OR027 **Smart sensors to predict entrainment of freshwater mussels: A new tool in freshwater habitat assessment** 08:00 - 08:00

*Presenter:* Edward Curley, GB

OR028 **Techniques and applications for Cyanobacteria and Phytoplankton monitoring at high spatio-temporal resolution using multiple satellite sensors** 08:00 - 08:00

*Presenter:* Karin Schenk, DE

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08:00 - 17:30

Oral Presentations on Demand

**Orals on Demand**

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08:00 - 17:30

Oral Presentations on Demand

**Aquatic microbial biofilms and global change**

OR128 **Constraining effect of moving river bedforms on sediment microbial community is not influenced by variability in ripple migration velocity** 08:00 - 08:00

*Presenter:* Anna Oprei, DE

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08:00 - 17:30

Oral Presentations on Demand

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

- OR125      **Record-setting algal bloom in polymictic Lake Balaton (Hungary): a synergistic impact of climate change and (mis)management**      08:00 - 08:00  
*Presenter: Vera Istvánovics, HU*
- OR126      **An evolutionary ecological mechanism of CyanoHABs: unavoidable consequences when low nutrient requirements meet eutrophication**      08:00 - 08:00  
*Presenter: Huansheng Cao, CN*
- OR127      **Comparison of utilization advantages of *Microcystis aeruginosa* and *Scenedesmus quadricaudatus* on different nitrogen and phosphorus forms**      08:00 - 08:00  
*Presenter: Xiuli Hou, CN*

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08:00 - 17:30

Oral Presentations on Demand

**Assessment and biomonitoring of inland waters**

- OR121      **A Europe-wide overview of variation in river phytobenthos**      08:00 - 08:00  
*Presenter: Martyn Kelly, GB*
- OR122      **eDNA metabarcoding revealed phytoplankton diversity and community structure in Dianchi Lake and the three inflowing rivers**      08:00 - 08:00  
*Presenter: Lin Yuanyuan, CN*
- OR123      **Lake Sevan, Armenia: Assessment of current phytoplankton and ecological state**      08:00 - 08:00  
*Presenter: Gor Gevorgyan, AM*
- OR124      **Developing and Testing Diatom Indicators of Ecological Change for Wetlands in Big Cypress Nature Preserve**      08:00 - 08:00  
*Presenter: R. Jan Stevenson, US*

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08:00 - 17:30

Oral Presentations on Demand

**Adjusting reservoir management to global change**

- OR118      **The effect of iron coagulant on submerged vegetation in conditions of increased temperature - laboratory experiment**      08:00 - 08:00  
*Presenter: Joanna Rosińska, PL*
- OR119      **Response of thermal stratification to sediment in subtropical reservoirs**      08:00 - 08:00  
*Presenter: Lei Zhu, CN*
- OR120      **Influence of irrigation infrastructures and water**      08:00 - 08:00

**quality on fish assemblages in Lake Tana tributaries,  
north-west Ethiopia**

*Presenter:* Abebe Getahun, ET

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Bio-manipulations for eutrophic waters restoration**

OR115 **Combined effect of hydrogen peroxide, aeration, and zooplankton on *Microcystis* spp** 08:00 - 08:00

*Presenter:* Michael Anai Figueroa Sanchez, MX

OR116 **New methodologies for living zooplankton separation and their applications in large-scale experiments** 08:00 - 08:00

*Presenter:* Žiga Ogorelec, SI

OR117 **Fish removal at high external loading: it costs and it pays** 08:00 - 08:00

*Presenter:* Ilkka Sammalkorpi, FI

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08:00 - 17:30

Oral Presentations on Demand

**Climate emergency at the Three Poles: structural and functional impacts on inland waters**

OR113 **Internal nutrient cycling promotes net autotrophy in small and shallow lakes of the Canadian Arctic** 08:00 - 08:00

*Presenter:* Paola Ayala-Borda, CA

OR114 **Terrestrial DOC mobilization across the northern circumpolar permafrost region; a systematic review** 08:00 - 08:00

*Presenter:* Liam Heffernan, SE

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08:00 - 17:30

Oral Presentations on Demand

**Climate impacts of human-made freshwater systems**

OR111 **Towards critical white ice conditions in lakes under global warming** 08:00 - 08:00

*Presenter:* Gesa Weyhenmeyer, SE

OR112 **Limnological dynamics of methane and carbon dioxide emissions from a tropical hypertrophic reservoir** 08:00 - 08:00

*Presenter:* Martin Merino-Ibarra, MX

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08:00 - 17:30

Oral Presentations on Demand

**Combining data-driven and process-based models: Perspectives for limnological studies**

OR110 **Decision support tools for river diagnostics and management** 08:00 - 08:00

Presenter: Christian K. Feld, DE

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08:00 - 17:30

Oral Presentations on Demand

**Dynamics of dissolved and particulate organic matter in inland waters**

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|-------|--|---------------|
| OR104 | <b>Spatial and temporal organic carbon dynamics in a non-perennial river basin</b><br><i>Presenter: Oriana Llanos Paez, ES</i>   | 08:00 - 08:00 |
| OR105 | <b>Saharan dust promotes acidic polysaccharides coagulation and carbon export in an eutrophic reservoir</b><br><i>Presenter: Andrés Martínez-García, ES</i>                | 08:00 - 08:00 |
| OR106 | <b>Altered plant detritus processing in streams affected by multiple stressors in the Argeş River basin, Romania</b><br><i>Presenter: Geta Risnoveanu, RO</i>              | 08:00 - 08:00 |
| OR107 | <b>Seasonal compensation-flow changes from reservoirs modify leaf litter decomposition and biofilm accrual in UK upland rivers</b><br><i>Presenter: Tapiwa Zimunya, GB</i> | 08:00 - 08:00 |
| OR108 | <b>Carrion subsidies of inland waters</b><br><i>Presenter: M. Eric Benbow, US</i>  | 08:00 - 08:00 |
| OR109 | <b>Field experiments increase benthic densities of plant detritus and dependent organisms in small and large rivers</b><br><i>Presenter: William Bovill, AU</i>            | 08:00 - 08:00 |

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08:00 - 17:30

Oral Presentations on Demand

**Dynamics of freshwater bacteria, fungi, and viruses**

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|-------|--|---------------|
| OR101 | <b>Origin, fluxes, and reservoirs of <i>Escherichia coli</i> in aquatic ecosystems of a French floodplain</b><br><i>Presenter: Charles Henriot, FR</i> | 08:00 - 08:00 |
| OR102 | <b>Non-detrimental viral infections in cultured algae</b><br><i>Presenter: Petronella Wessman, SE</i>  | 08:00 - 08:00 |
|       | <b>Aquatic Ecosystems: habitat and vector for antimicrobial resistance (AMR) transmission</b><br><i>Presenter: Pau De Yebra Rodó, DE</i>               | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Ecology and conservation of temporary aquatic ecosystems**

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|-------|--|---------------|
| OR098 | <b>Physiological conservation of anuran: Application of combined veterinary clinical examinations to</b> | 08:00 - 08:00 |
|-------|--|---------------|



**diagnose the health condition in frogs**

*Presenter:* Jun-Kyu Park, KR

OR100 **Factors controlling zooplankton communities in temporary rock pools** 08:00 - 08:00

*Presenter:* Luciana Barbosa, BR

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Fish ecology, management and conservation**

OR097 **Assessment of physicochemical properties and capture fisheries/cage culture activities in Koga Reservoir, West Gojjam, Ethiopia** 08:00 - 08:00

*Presenter:* Abebe Getahun, ET

ON008 **Food web structure in Mediterranean streams: influences of invaders and habitat change (recorded presentation)** 08:00 - 08:12

*Presenter:* Joana Martelo, PT

**Human land-use alter the trophic ecology of omnivorous fish in Neotropical streams** 08:12 - 08:12

*Speaker:* Mayara Neves, BR

OR130 **Fatty acid content and composition in various tissues of freshwater fish (*Thymallus baicalensis*), with a special focus on DHA synthesis** 08:12 - 08:12

*Presenter:* Olesia Makhutova, RU

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

OR096 **Production and oxidation of methane (CH<sub>4</sub>) in sediments of tropical lakes, Chiapas, Mexico** 08:00 - 08:00

*Presenter:* Andrea P. Guzmán-Arias, MX

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Gases in inland waters: production, accumulation, and emission**

OR086 **Experimental analysis and numerical modelling for dissolved gases transfer through spillways** 08:00 - 08:00

*Presenter:* Xiaolong Cheng, CN

OR087 **Eutrophication impacts on methane emission from temperate mediterranean lakes: a case study** 08:00 - 08:00

*Presenter:* Mariana Vargas-Sánchez, MX

OR088 **Damming river shapes distinct patterns and processes of planktonic bacterial and microeukaryotic communities** 08:00 - 08:00

*Presenter:* Qiong Tang, CN

OR089	<b>ROS-driven methane formation across living organisms: new perspectives for understanding of methane formation in oxic aquatic environments</b> <i>Presenter: Frank Keppler, DE</i>	08:00 - 08:00
OR090	<b>Nexus analysis of Water-Electricity-Carbon emissions and strategies for carbon reduction and electricity lowering</b> <i>Presenter: Xinxia He, CN</i>	08:00 - 08:00
OR091	<b>The net GHG emissions of the Three Gorges Reservoir in China in full-scale synthesis</b> <i>Presenter: Zhe Li, CN</i>	08:00 - 08:00
OR092	<b>Evidence of methane transformations near oxic/anoxic interface of Georgian Bay's embayment, Lake Huron</b> <i>Presenter: Khoren Avetisyan, CA</i>	08:00 - 08:00
OR093	<b>Experimental Study on Adsorption Effect of Porous Media on Supersaturated Total Dissolved Gas</b> <i>Presenter: Chonglin Wang, CN</i>	08:00 - 08:00
OR094	<b>A novel high-resolution in situ tool for studying carbon biogeochemical processes in aquatic systems: the Lake Aiguebelette case study</b> <i>Presenter: Roberto Grilli, FR</i>	08:00 - 08:00
ON123	<b>Methane fluxes in Amazon floodplain lakes: measurements and modeling</b> <i>Presenter: John Melack, US</i>	08:00 - 08:00
ON251	<b>Methane production by Cyanobacteria isolated from soda lakes in the Brazilian Pantanal</b> <i>Presenter: Carolinne Rosa de Carvalho, BR</i>	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

OR080	<b>Mineral sedimentation in landslide fen deposits: temporary mountain lakes affected by extreme rainfalls - from present day records to the past; Polish Western Carpathians</b> <i>Presenter: Włodzimierz Margielewski, PL</i>	08:00 - 08:00
OR081	<b>Typification of oligotrophic lakes using the ciliate assemblage structure re-visited</b> <i>Presenter: Miroslav Macek, MX</i>	08:00 - 08:00
OR082	<b>Seasonality enhances protist coexistence in planktonic oligotrophic communities</b> <i>Presenter: Jordi Catalan, ES</i>	08:00 - 08:00
OR083	<b>Diatoms as indicators of habitat and chemical</b>	08:00 - 08:00

**characteristics of páramo lakes in Colombia**

*Presenter:* Carlos A. Rivera-Rondón, CO

- |       |  |               |
|-------|--|---------------|
| OR084 | <b>From a lake to a fen - a detailed record of the Late Glacial short-term climatic oscillations from the Klaklowo fen deposits (the Western Carpathians, Poland)</b><br><i>Presenter:</i> Jolanta Pilch, PL | 08:00 - 08:00 |
| OR085 | <b>Unexpected multi-year changes within biotic communities in warming alpine streams</b><br><i>Presenter:</i> Leopold Füreder, AT  | 08:00 - 08:00 |
| OR129 | <b>Elevational patterns of trait composition and functional diversity of stream macroinvertebrates in the Hengduan Mountains region, Southwest China</b><br><i>Presenter:</i> Sicheng Ao, CN                 | 08:00 - 08:00 |

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**From macroecology to spatio-temporal ecology in freshwaters**

- |       |  |               |
|-------|--|---------------|
| OR069 | <b>Spatiotemporal dynamics of stream fish size spectra under global changes</b><br><i>Presenter:</i> Ignasi Arranz, FR   | 08:00 - 08:00 |
| OR070 | <b>Evaluating the ecological status of large rivers in the context of the WFD: the new phytoplankton index for French large rivers</b><br><i>Presenter:</i> Albin Meyer, FR  | 08:00 - 08:00 |
| OR071 | <b>Particulate organic matter properties shape the microbial metacommunity in river networks</b><br><i>Presenter:</i> Edurne Estévez, AT   | 08:00 - 08:00 |
| OR072 | <b>Different habitat requirements of <i>Ranunculus aquatilis</i> and <i>R. peltatus</i> in running waters</b><br><i>Presenter:</i> Daniel Gebler, PL   | 08:00 - 08:00 |
| OR073 | <b>Overview of coastal lagoons in mediterranean Basin by remote sensing</b><br><i>Presenter:</i> Juan Soria, ES  | 08:00 - 08:00 |
| OR074 | <b>Wetland detritus vs. stream detritus - Food quality determines fitness of juveniles of the highly endangered freshwater pearl mussel (<i>Margaritifera margaritifera</i>)</b><br><i>Presenter:</i> Felix Grunicke, DE | 08:00 - 08:00 |

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Land-use impacts and other stressors on freshwater ecosystems**

- |       |   |               |
|-------|---|---------------|
| OR066 | <b>Effects of urbanization-induced local alterations on</b> | 08:00 - 08:00 |
|-------|---|---------------|

**the diversity and assemblage structure of macroinvertebrates in low-order streams**

*Presenter:* Attila Bohus, HU

- |       |   |               |
|-------|---|---------------|
| OR067 | <b>Flow intermittency and light pollution: the effect of multiple interacting stressors on freshwater invertebrates</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Gemma Burgazzi, DE  |               |
| OR068 | <b>Trophic plasticity of a widespread top predator across a land use and stream productivity gradient</b>               | 08:00 - 08:00 |
|       | <i>Presenter:</i> Daniel Perkins, GB  |               |

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Large and deep lakes under stress: how resilient are lake ecosystems?**

- |       |  |               |
|-------|--|---------------|
| OR061 | <b>The Aral Sea: mixing regime of its basins after desiccation and restoration measures</b>                  | 08:00 - 08:00 |
|       | <i>Presenter:</i> Georgiy Kirillin, DE   |               |
| OR062 | <b>Genotype specific and microbiome effects of hypoxia in the model organism <i>Daphnia magna</i>.</b>       | 08:00 - 08:00 |
|       | <i>Presenter:</i> Manon Coone, BE  |               |
| OR063 | <b>Geological determinants of cholera outbreaks along the African Rift</b>                                   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Gudrun Bornette, FR  |               |
| OR064 | <b>Microplastics occurrence in surface waters and sediments in lakes Edward and George in Uganda</b>         | 08:00 - 08:00 |
|       | <i>Presenter:</i> Haruna Lubega, UG  |               |
| OR065 | <b>Insights on sediment management for macroinvertebrate forage resources in Northern Great Plains lakes</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Iain Phillips, CA  |               |

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Links between landscapes and surface water chemistry**

- |       |  |               |
|-------|--|---------------|
| OR057 | <b>Spatiotemporal analysis of water quality using multivariate statistical techniques for the Usumacinta River, southeast Mexico</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Ismael Soria-Reinoso, MX   |               |
| OR058 | <b>Aged riverine DOC export to the two contrasting estuary systems: Geum and Seomjin, South Korea</b>                                | 08:00 - 08:00 |
|       | <i>Presenter:</i> Sujin Kang, KR   |               |
| OR059 | <b>Plant protectant agents and metabolites in freshwater systems - new insights into process understanding</b>                       | 08:00 - 08:00 |

Presenter: Karin Meinikmann, DE

- OR060      **Physico-chemical characterisation of protected oligotrophic lakes in Ireland**      08:00 - 08:00  
Presenter: Giovanni Cappelli, IE

Oral Presentations on Demand  
08:00 - 17:30

Oral Presentations on Demand

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

- OR051      **Effects of different concentrations of Methylene Blue on the growth and reproduction of *Daphnia magna***      08:00 - 08:00  
Presenter: Shuhui Li, CN
- OR052      **A process-based microcosm model to disentangle the combined effects of multiple stressors in lentic and slow-flowing shallow aquatic ecosystems**      08:00 - 08:00  
Presenter: Gregorio Alejandro López Moreira Mazacotte, DE
- OR053      **Pharmaceutical disruption: Effect of psychoactive pharmaceuticals on behavior of freshwater snail, *Lymnaea stagnalis* and their role in disrupting anti-predator response to kairomone from Common carp, *Cyprinus carpio***      08:00 - 08:00  
Presenter: Nandini Vasantha Raman, NL
- OR055      **Neonicotinoid Occurrence in Environmental Waters of Indramayu Regency, Indonesia**      08:00 - 08:00  
Presenter: Zanne Sandriati Putri, JP

Oral Presentations on Demand  
08:00 - 17:30

Oral Presentations on Demand

**Open dialogue on world water issues and solutions across generations**

- OR050      **Freshwater Ichthyology: A New Way for Interpreting Organism Responses to Changing Environmental Conditions? (recorded presentation)**      08:00 - 08:00  
Presenter: Ryusuke Kimitsuki, CA

Oral Presentations on Demand  
08:00 - 17:30

Oral Presentations on Demand

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

- OR042      **Phosphorus diagenesis linked to methane and iron in lake sediments of a coastal embayment of eastern Georgian Bay, Lake Huron**      08:00 - 08:00  
Presenter: Xiaoqing Shao, CA
- OR043      **Relationship between cyanobacteria and phosphorus during 24 solar terms in Lake Taihu, China**      08:00 - 08:00  
Presenter: Guangwei Zhu, CN
- OR044      **Links between cellular phosphorus storage and P**      08:00 - 08:00

**uptake strategies of freshwater cyanobacteria populations**

*Presenter:* Man Xiao, CN

OR045      **Development of Phosphorous Removing Bioreactors with Woodchip and Eggshell Substrates for Agricultural Land**      08:00 - 08:00

*Presenter:* Zachary Diloreto, CA

OR047      **Reducing internal phosphorus loading and preventing flooding in a popular Wisconsin, USA seepage lake using a siphon pipe system**      08:00 - 08:00

*Presenter:* Richard C. Lathrop, US

OR048      **Cyanobacterial biomass in freshwaters of the Americas: revisiting the main predicting factors**      08:00 - 08:00

*Presenter:* Sylvia Bonilla, UY

OR049      **How does the *Raphidiopsis raciborskii* adapt to environmental phosphorus?**      08:00 - 08:00

*Presenter:* Fang Bai, CN

**Physico-chemical conditions in Lake Abaya, Southern Ethiopia**      08:00 - 08:00

*Speaker:* Samuel Tessema, ET

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

OR040      **Human - environment interaction during the last millennium: A multi-proxy sediment record from Lake Höglwörth, Bavaria**      08:00 - 08:00

*Presenter:* Sudip Acharya, DE

OR041      **Reconstruction of the regional environment and biogeochemical evolution of high altitude relict Himalayan Lake using stable isotopes**      08:00 - 08:00

*Presenter:* Abdur Rahman, IN

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Sustainable freshwater management in the 21st century**

OR036      **Safeguarding freshwater ecosystems and biodiversity in the African Great Lakes: evidence synthesis for researchers and decision-makers**      08:00 - 08:00

*Presenter:* Kevin Obiero, KE

OR037      **Zooplankton indicators of Water quality in three reservoirs in the State of Mexico**      08:00 - 08:00

*Presenter:* Nandini Sarma, MX

OR038 **Study of invasive exotic aquatic plants in the Cedillo and Alcántara reservoirs with Sentinel-1 and Sentinel-2 images. *First results.*** 08:00 - 08:00

*Presenter:* Bárbara Alvado, ES

OR039 **Why we need broader monitoring for more successful freshwater restoration** 08:00 - 08:00

*Presenter:* Laurence Carvalho, NO

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Plastics in inland waters: pathways and impact**

OR035 **Effect of microplastics on the population growth of rotifers (Rotifera)** 08:00 - 08:00

*Presenter:* José Antonio Hernández-Lucero, MX

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**The future of small water bodies in the context of global change**

OR032 **A multi-scale analysis and classification of the hydrogeomorphological characteristics of Irish headwater streams** 08:00 - 08:00

*Presenter:* Edward Cox, IE

OR033 **How often a monomictic subtropical lake will remain stratified throughout the year under expected climate changes?** 08:00 - 08:00

*Presenter:* Yael Amitai, IL

OR034 **Connectivity across the European waterscape: relevance of source-sink dynamics across freshwater bioregions** 08:00 - 08:00

*Presenter:* David Cunillera-Montcusi, ES

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

OR031 **Harmful algal blooms - Putting toxigenic genotypes and nontoxic mutants of microcystin-producing cyanobacteria on a map** 08:00 - 08:00

*Presenter:* Rainer Kurmayer, AT

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Urban inland waters - hotspots of global change**

OR030 **Coupling conductivity and stable water isotopes to infer chloride transport and flow paths in an urban stream** 08:00 - 08:00

*Presenter:* Cody Ross, CA

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08:00 - 17:30

Oral Presentations on Demand

**Biodiversity, community assembly and functioning in plankton communities**

- OR001      **Unusual abundance of bloom forming *Aulacoseira* spp. diatom populations in an anthropogenically impacted stretch of lower part of the River Ganga**      08:00 - 08:00  
*Presenter:* Chakresh Kumar, IN
- OR002      **Zooplankton abundance and biomass in shallow eutrophic Yeniçağa Lake (Bolu, Turkey)**      08:00 - 08:00  
*Presenter:* Bura Uğur Sorguç, TR
- OR003      **Effect of crustacean (cladocerans and copepods) conditioned medium on the algal food intake and filtration rates of the rotifer *Brachionus havanaensis* (Rotifera)**      08:00 - 08:00  
*Presenter:* Ana Nayeli López-Rocha, MX
- OR004      **Impact of cyanobacteria on the physiological performance of *Daphnia magna***      08:00 - 08:00  
*Presenter:* Bettina Zeis, DE
- OR005      **Novel view on a framework of *Microcystis* spp. blooms: imaging flow cytometry analysis of bloom development in a mesocosm experiment**      08:00 - 08:00  
*Speaker:* Adina Zhumakhanova, KZ
- OR006      **Rapid evolution of morphological defences in *Daphnia galeata***      08:00 - 08:00  
*Presenter:* Pelita Octorina, DE
- OR007      **Temporal monitoring of cyanotoxin dynamics in the Lalla Takerkoust dam and transfer to the surrounding farms**      08:00 - 08:00  
*Presenter:* Richard Mugani, MA
- OR008      **The enemy of my enemy - a new microsporidian symbiont and its context-dependent effects on *Daphnia***      08:00 - 08:00  
*Presenter:* Marcin K. Dziuba, US
- OR009      **Single-cell population genomics of a bloom-forming microalga**      08:00 - 08:00  
*Presenter:* Raphael Gollnisch, SE

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08:00 - 17:30

Oral Presentations on Demand

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

- OR012      **An extreme drought event homogenises the diatom composition of two shallow lakes in southwest China**      08:00 - 08:00  
*Presenter:* Anna-Marie Klamt, DK
- OR013      **Mitigating cyanobacterial harmful algal blooms**      08:00 - 08:00



- (CyanoHABs) in a world facing increasing human and climatic perturbations**  
*Presenter: Hans Paerl, US*
- OR014 **Trace elements distribution of the sediment core in a high sedimentation reservoir** 08:00 - 08:00  
*Presenter: He Wen-yan, CN*
- OR015 **Isotopic disentanglement of moisture sources: Insights into the precipitation histories of mountain river systems** 08:00 - 08:00  
*Presenter: Bibhasvata Dasgupta, IN*
- OR016 **Evaluation of Metal (loid) Accumulation in the Surficial Sediment of Mavi Lake, Ankara** 08:00 - 08:00  
*Presenter: Şeyda Fikirdeşici Ergen, TR*
- OR017 **Impacts on ancient lakes: Loss of level in Prespa Lakes (North Macedonia) as a case of study** 08:00 - 08:00  
*Presenter: Juan Soria, ES*
- OR018 **Assessing lake ecosystem recovery from acidification and responses to emerging environmental stressors: a paleolimnological perspective** 08:00 - 08:00  
*Presenter: Yuanyu Cheng, CA*
- OR019 **Flexible life history is essential for the mayfly, *Hexagenia limbata*, to survive in western Lake Erie** 08:00 - 08:00  
*Presenter: Ron Griffiths, CA*
- OR021 **Unique ecological characteristics of pristine bog lakes in Latvia** 08:00 - 08:00  
*Presenter: Matiss Zagars, LV*
- OR022 **Multiple stressors impact macroinvertebrate shredder communities. Insights from a microcosm experiment** 08:00 - 08:00  
*Presenter: Valentin Dinu, RO*
- OR023 **The Resulting Threats of Pollutants in the Solomon's Pools (Borak Suleiman), Bethlehem Governorate, Palestine (Occupied), Added to the Already Existing Threats** 08:00 - 08:00  
*Presenter: Hilmi S. Salem, PS*
- OR024 **Environmental stress increases the effects of pesticides** 08:00 - 08:00  
*Presenter: Naeem Shahid, DE*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Novel insights into freshwater ecosystem processes by stable isotopes**

- OR010 **Nutrient export from agricultural catchments to eutrophic lakes in New Zealand: insight from isotopes** 08:00 - 08:00

**to inform catchment management**

*Presenter:* Meti Yulianti, NZ

- OR011      **Primary production determined by <sup>13</sup>C-labelling is a viable alternative to the classic radiocarbon incubation**      08:00 - 08:00  
*Presenter:* Alexander H. Frank, DE

*Exhibition*

08:00 - 17:30

Exhibition Area Foyer C

**Exhibition**

*Biogeochemistry and Microbes*

08:30 - 10:10

Plenary Room Berlin 3-6 Live Streamed!

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

*Chair:* Maria Dittrich, CA

*Chair:* Michael Hupfer, DE

*Chair:* Man Xiao, CN

*Chair:* David Hamilton, AU

*Chair:* Michele Burford, AU

*Chair:* Ingrid Chorus, DE

*Chair:* Hans Paerl, US

**Introduction**

08:30 - 08:32

- ON009      **Biogeochemical focusing in stratified lakes: Unexpected consequences for redox-controlled P release**      08:32 - 08:44

*Presenter:* Michael Hupfer, DE

- ON010      **Internal loading in slow-motion: High resolution in situ monitoring of benthic P-fluxes reveals pulsed regimes in a polymictic lake**      08:44 - 08:56

*Presenter:* Tallent Dadi, DE

- ON011      **Historical anthropogenic inputs dominate modern sedimentary phosphorus dynamics in eutrophic lakes in southern Finland**      08:56 - 09:08

*Presenter:* Siqi Zhao, FI

- ON012      **Oxygen-dependent phosphorus dynamics on short and long time scales for a eutrophic cascade reservoir system**      09:08 - 09:20

*Presenter:* Karel As, DE

- ON013      **Can a living fossil save our soils?**      09:20 - 09:32

*Presenter:* Renske Vroom, NL

- OR046      **How do we manage our lakes to reduce blooms of cyanobacteria?**      09:32 - 09:44

*Presenter:* Laurence Carvalho, NO

- ON015      **The potential for using lanthanum modified bentonite**      09:44 - 09:56

	<b>to mitigate eutrophication of Lake Hålandsvatn, Norway</b>	
	<i>Presenter: Åge Molversmyr, NO</i>	
ON016	<b>Pilot study on the use of Fe-rich water treatment residuals for the remediation of internal P loading in a peaty freshwater system</b>	09:56 - 10:08
	<i>Presenter: Melanie Münch, NL</i>	
	<b>Closing Remarks</b>	10:08 - 10:10
<i>Data and Models</i>		
08:30 - 10:10		Parallel 2 Berlin 1
<b>From macroecology to spatio-temporal ecology in freshwaters</b>		
<i>Chair: Gonçalo Duarte, PT</i>		
<i>Chair: Afroditi Grigoropoulou, DE</i>		
<i>Chair: Paulo Branco, PT</i>		
<i>Chair: Maria Üblacker, DE</i>		
	<b>Introduction</b>	08:30 - 08:32
ON025	<b>Hybrid species distribution models inform flow management in a world of water scarcity</b>	08:32 - 08:44
	<i>Presenter: Katie Irving, US</i>	
ON026	<b>Hierarchical modelling of lentic odonate communities using opportunistically sourced data</b>	08:44 - 08:56
	<i>Presenter: Maxime Fajgenblat, BE</i>	
ON027	<b>Species abundance models in freshwaters: Developments for fish and macroinvertebrates in a large catchment</b>	08:56 - 09:08
	<i>Presenter: Coline Picard, FR</i>	
ON028	<b>The Global EPTO Database: a worldwide inventory of aquatic insect occurrences</b>	09:08 - 09:20
	<i>Presenter: Afroditi Grigoropoulou, DE</i>	
ON029	<b>Distribution of fish species in a boreal stream network mirror spatial patterns in the landscape, mediated by stream water chemistry and physical habitat</b>	09:20 - 09:32
	<i>Presenter: Ishi Buffam, SE</i>	
ON030	<b>Spatial patterns and knowledge gaps of the threats to European freshwater fishes</b>	09:32 - 09:44
	<i>Presenter: Gonçalo Duarte, PT</i>	
ON032	<b>How contingent are clusters of freshwater habitats on spatial scale?</b>	09:44 - 09:56
	<i>Presenter: Maria Üblacker, DE</i>	
ON031	<b>Hydrography90m: a new global seamless, standardised hydrographic network</b>	09:56 - 10:08
	<i>Presenter: Jaime Garcia Marquez, DE</i>	

	<b>Closing Remarks</b>	10:08 - 10:10
	<i>Biodiversity and ecosystem functioning</i>	
	08:30 - 10:10	Parallel 3 Berlin 2
	<b>Fish ecology, management and conservation</b>	
	<i>Chair: Sven Matern, DE</i>	
	<i>Chair: Elias Ehrlich, DE</i>	
	<b>Introduction</b>	08:30 - 08:32
ON001	<b>Short term population trends for freshwater fish species in Germany - The decline of the common species and a new data-set to aid conservation efforts</b> <i>Presenter: Martin Friedrichs-Manthey, DE</i>	08:32 - 08:44
ON002	<b>Decades of warming alters maturation and reproductive investment in fish</b> <i>Presenter: Jingyao Niu, SE</i>	08:44 - 08:56
ON003	<b>Can size distributions of European lake fish communities be predicted by trophic positions of their fish species?</b> <i>Presenter: Renee M. van Dorst, DE</i>	08:56 - 09:08
ON004	<b>Post-mining effects on fish communities and food web dynamics</b> <i>Presenter: Kristin Scharnweber, DE</i>	09:08 - 09:20
ON005	<b>Community assembly of cladoceran zooplankton in relation to pond age: the interplay of dispersal and the establishment of macrophytes and fish</b> <i>Presenter: Pieter Lemmens, BE</i>	09:20 - 09:32
ON006	<b>Suitability models at mesohabitat scale of native freshwater fish and mussels for their application in environmental flows assessment in the NE of the Iberian Peninsula</b> <i>Presenter: Dídac Jorda-Capdevila, ES</i>	09:32 - 09:44
ON007	<b>Towards a species-specific migration barrier to stop invasive fish</b> <i>Presenter: Philipp Hirsch, CH</i>	09:44 - 09:56
	<b>Closing Remarks</b>	09:56 - 09:58
	<i>Biogeochemistry and Microbes</i>	
	08:30 - 10:10	Parallel 4 A1
	<b>Dynamics of freshwater bacteria, fungi, and viruses</b>	
	<i>Chair: Christopher Bellas, AT</i>	
	<i>Chair: Christian Wurzbacher, DE</i>	
	<i>Chair: Maiko Kagami, JP</i>	
	<i>Chair: Julia Reiss, GB</i>	

	<b>Introduction</b>	08:30 - 08:32
ON017	<b>Protists with different phagotrophic modes differently structure freshwater bacterial communities by selective grazing</b> <i>Presenter: Marina Ivanković, AT</i>	08:32 - 08:44
ON018	<b>Predation increases multiple components of microbial diversity in activated sludge communities</b> <i>Presenter: Pavel Kratina, GB</i>	08:44 - 08:56
ON019	<b>It more than adds up: interaction of antibiotic mixing and temperature</b> <i>Presenter: Julia Reiss, GB</i>	08:56 - 09:08
ON020	<b>Under pressure: Global change effects on freshwater fungi</b> <i>Presenter: Alena Gsell, NL</i>	09:08 - 09:20
ON021	<b>A groundbreaking approach for the identification and documentation of aquatic fungal diversity</b> <i>Presenter: Joana Mariz, DE</i>	09:20 - 09:32
ON022	<b>Diversity and functional potential of aquatic fungi in permafrost ecosystems</b> <i>Presenter: Mariana Kluge, SE</i>	09:32 - 09:44
ON023	<b>Polintoviruses in freshwater ecosystems</b> <i>Presenter: Christopher Bellas, AT</i>	09:44 - 09:56
ON024	<b><i>Legionella</i> adaptations to high-sodium and grazing pressure in four natural spring-clusters surrounding the sea of Galilee (recorded presentation)</b> <i>Presenter: Oded Bergman, IL</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Stressors*  
08:30 - 10:10

Parallel 5 B5

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

*Chair: Erik Sperfeld, DE*  
*Chair: Jason Stockwell, US*  
*Chair: Eleanor Jennings, IE*  
*Chair: Alexander Wacker, DE*

	<b>Introduction</b>	08:30 - 08:32
ON041	<b>Surviving heat waves: Dietary sterol supply modulates <i>Daphnia's</i> heat tolerance</b> <i>Presenter: Apostolos-Manuel Koussoroplis, FR</i>	08:32 - 08:44
ON042	<b>Diet modulates ectotherm responses to temperature variance</b> <i>Presenter: Marine Van Baelen, FR</i>	08:44 - 08:56

ON043	<b>Effects of different fluctuation regimes at high temperatures on the performance of <i>Daphnia magna</i> clones differing in thermal sensitivity</b> <i>Presenter: Erik Sperfeld, DE</i>	08:56 - 09:08
ON045	<b>Impacts of shelter on the relative dominance of primary producers and trophic transfer efficiency in aquatic food webs: implications for shallow lake restoration</b> <i>Presenter: Hui Jin, NL</i>	09:08 - 09:20
ON046	<b>Temperature and species competition drive co-limitation of light and nutrients in phytoplankton</b> <i>Presenter: Anna Lena Heinrichs, DE</i>	09:20 - 09:32
ON047	<b>Two sides of the same coin? Effects of fluctuating light spectrum and intensity on phytoplankton growth and community structure</b> <i>Presenter: Brian Schulze, DE</i>	09:32 - 09:44
ON048	<b>Extreme climatic events impacts on trophic network complexity and community multidimensional stability of freshwater ecosystems</b> <i>Presenter: Francesco Polazzo, ES</i>	09:44 - 09:56
	<b>Closing Remarks</b>	09:56 - 09:58

*Data and Models*  
08:30 - 10:10

Parallel 6 C4

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

*Chair: Abolfazl Irani Rahaghi, CH*

*Chair: Tiit Kutser, EE*

	<b>Introduction</b>	08:30 - 08:32
ON033	<b>Developing future Copernicus inland water services</b> <i>Presenter: Tiit Kutser, EE</i>	08:32 - 08:44
ON034	<b>Digital applications to access and integrate operational freshwater monitoring from space at highest spatio-temporal scale</b> <i>Presenter: Karin Schenk, DE</i>	08:44 - 08:56
ON035	<b>Emerging technologies to address current gaps in satellite remote sensing</b> <i>Presenter: Carmen Cillero Castro, ES</i>	08:56 - 09:08
ON036	<b>Retrieval of Inherent Optical Properties from Multiple Aquatic Systems using a Quasi-Analytical Algorithm for Several Water Types</b> <i>Presenter: Igor Ogashawara, DE</i>	09:08 - 09:20
ON037	<b>On the use of satellite data to investigate the overturning behavior of lakes within a warming world</b>	09:20 - 09:32

	<i>Presenter:</i> Elisa Calamita, CH	
ON038	<b>Weakening of inverse stratification in northern lakes</b> <i>Presenter:</i> Joachim Jansen, SE	09:32 - 09:44
ON039	<b>From local to regional and continental scale early warning and forecasting of water quality (recorded presentation)</b> <i>Presenter:</i> Klaus Joehnk, AU	09:44 - 09:56
ON040	<b>Evaluating the skill of hydrodynamic simulations in two stratified lakes by Principal Component Analysis (recorded presentation)</b> <i>Presenter:</i> John Wells, JP	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Stressors*

08:30 - 10:10

Parallel 7 A4

**Climate emergency at the Three Poles: structural and functional impacts on inland waters**

*Chair:* Nuria Catalan, FR

*Chair:* Warwick Vincent, CA

*Chair:* Ada Pastor, DK

*Chair:* Wendong Kong, CN

*Chair:* Anne Kellerman, US

*Chair:* Rachael Morgan-Kiss, US

*Chair:* Nicolas Valiente, NO

*Chair:* Laure Gandois, FR

	<b>Introduction</b>	08:30 - 08:32
ON049	<b>Antarctic lake phytoplankton and bacteria from near surface waters exhibit high sensitivity to climate-driven disturbance</b> <i>Presenter:</i> Rachael Morgan-Kiss, US	08:32 - 08:44
ON050	<b>The influence of stream and internal diffusive nutrient loads on trophogenic zone primary productivity in Lake Fryxell, Antarctica</b> <i>Presenter:</i> John Prisco, US	08:44 - 08:56
ON052	<b>Rising algal- and soil-derived dissolved organic matter modifies interactions between bacteria and phytoplankton in a high-altitude lake</b> <i>Presenter:</i> Flavia Dory, FR	08:56 - 09:08
ON053	<b>Space-for-time: Shifts in Arctic and sub-Arctic freshwater food webs along latitudinal gradients using stable isotopes and fatty acids as trophic biomarkers</b> <i>Presenter:</i> Fernando Chaguaceda, SE	09:08 - 09:20
ON054	<b>Geomorphology defines the impact of climate change on organic carbon processing in NE Greenland</b>	09:20 - 09:32

**streams**

*Presenter:* Nuria Catalan, FR

ON055 **Glaciofluvially-derived dust modifies benthic algal growth in West Greenland lakes** 09:32 - 09:44

*Presenter:* Suzanne McGowan, NL

ON056 **Arctic sentinel lakes at the coastal margin of the Last Ice Area** 09:44 - 09:56

*Presenter:* Warwick Vincent, CA

ON051 **Effects of salt stress on microbial diversity and their CO<sub>2</sub>-fixing potential in the third pole lakes (recorded presentation)** 09:56 - 10:08

*Presenter:* Wendong Kong, CN

**Closing Remarks** 10:08 - 10:10

*Coffee Break*

10:10 - 10:40

Plenary Room Berlin 3-6 Live Streamed!

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 2 Berlin 1

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 3 Berlin 2

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 4 A1

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 5 B5

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 6 C4

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 7 A4

**Coffee Break**



*Biogeochemistry and Microbes*  
10:40 - 12:20

Plenary Room Berlin 3-6 Live Streamed!

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

*Chair:* Maria Dittrich, CA  
*Chair:* Michael Hupfer, DE  
*Chair:* Man Xiao, CN  
*Chair:* David Hamilton, AU  
*Chair:* Michele Burford, AU  
*Chair:* Ingrid Chorus, DE  
*Chair:* Hans Paerl, US

	<b>Introduction</b>	10:40 - 10:42
ON184	<b>Spatio-temporal variations in sediment P dynamics in large shallow Lake Peipsi</b> <i>Presenter:</i> Olga Tammeorg, EE	10:42 - 10:54
ON185	<b>An examination of sediment algal interactions in the enrichment of cyanobacterial blooms in Lake Superior</b> <i>Presenter:</i> Ayooluwateso Coker, US	10:54 - 11:06
ON186	<b>Internal ammonium dynamics in the water column of a eutrophic lake: how non-nitrogen-fixing cyanobacteria thrive despite severe nitrogen stress</b> <i>Presenter:</i> Margot Sepp, EE	11:06 - 11:18
ON187	<b>Phosphorus is most often the limiting nutrient in eutrophied Norwegian lakes, but nitrogen-limitation or co-limitation is likely in one third of the lakes</b> <i>Presenter:</i> Anne Lyche Solheim, NO	11:18 - 11:30
ON188	<b>Long-term total nitrogen to total phosphorus ratios might support the management of shallow-lake eutrophication</b> <i>Presenter:</i> Daniel Graeber, DE	11:30 - 11:42
ON189	<b>Understanding the time-varying importance of consistent drivers of river phytoplankton dynamics</b> <i>Presenter:</i> Eunsong Jung, KR	11:42 - 11:54
ON190	<b>Achieving chlorophyll-a concentration targets in Ireland's largest lake: N or P control</b> <i>Presenter:</i> Yvonne McElarney, GB	11:54 - 12:06
ON191	<b>Rapid and enigmatic eutrophication of a clear water lake: Potential causes and consequences</b> <i>Presenter:</i> Thomas Gonsiorczyk, DE	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Data and Models*

10:40 - 12:20

Parallel 2 Berlin 1

**From macroecology to spatio-temporal ecology in freshwaters**

*Chair:* Gonçalo Duarte, PT

*Chair:* Afroditi Grigoropoulou, DE

*Chair:* Paulo Branco, PT

*Chair:* Maria Üblacker, DE

	<b>Introduction</b>	10:40 - 10:42
ON200	<b>From individuals to communities: Habitat complexity affects all levels of organization in aquatic environments</b> <i>Presenter:</i> David Boukal, CZ	10:42 - 10:54
ON202	<b>Using metacommunity ecology to understand the relationship of periphyton community structure and niche partitioning across a river network</b> <i>Presenter:</i> Thomas Fuß, AT	10:54 - 11:06
ON203	<b>Shedding light on zooplankton diversity from the Congo River Basin</b> <i>Presenter:</i> Gilmar Perbiche-Neves, BR	11:06 - 11:18
ON204	<b>Trait dynamics reveal functional changes of a phytoplankton community during the resilient states of a regime shift</b> <i>Presenter:</i> Anton Pranger, DE	11:18 - 11:30
ON205	<b>Investigating spatial and anthropogenic drivers to explain river water temperature trend variability - a comprehensive German-wide approach</b> <i>Presenter:</i> Ulrike Scharfenberger, DE	11:30 - 11:42
ON206	<b>Insight into long-term ecological dynamics from the Lynn Brianne Observatory</b> <i>Presenter:</i> Stefano Larsen, IT	11:42 - 11:54
ON207	<b>Impact of fish ponds on temperature regimes of streams with endangered freshwater pearl mussel</b> <i>Presenter:</i> Rebecca Hoess, DE	11:54 - 12:06
	<b>Closing Remarks</b>	12:06 - 12:08

*Biodiversity and ecosystem functioning*

10:40 - 12:20

Parallel 3 Berlin 2

**Fish ecology, management and conservation**

*Chair:* Sven Matern, DE

*Chair:* Elias Ehrlich, DE

	<b>Introduction</b>	10:40 - 10:42
ON168	<b>Does personality have an effect on bait selectivity of Northern Pike (<i>Esox lucius</i>)?</b> <i>Presenter:</i> Jorrit Lucas, DE	10:42 - 10:54

ON169	<b>European-wide river restoration needs</b> <i>Presenter: Maria Teresa Ferreira, PT</i>	10:54 - 11:06
ON171	<b>Development of a natal origin reattribution model using otolith microchemistry for the anadromous Allis shad (<i>Alosa alosa</i>) in the Rhine system</b> <i>Presenter: Elodie Boussinet, DE</i>	11:06 - 11:18
ON172	<b>Genetic monitoring of the Atlantic salmon conservation and restocking program in the river Rhine catchment area</b> <i>Presenter: Anne Schrimpf, DE</i>	11:18 - 11:30
ON173	<b>Biodiversity and anthropogenic impacts on fishes of Shohimardon River drainage, Ferghana valley, Central Asia</b> <i>Presenter: Bakhtiyor Karimov, UZ</i>	11:30 - 11:42
ON174	<b>Bet-hedging strategies determine daily choices in effort allocation for Nile perch fishers of Lake Victoria (recorded presentation)</b> <i>Presenter: Happy K. Peter, TZ</i>	11:42 - 11:54
ON175	<b>Genetic population structure of the critically endangered stellate sturgeon (<i>Acipenser stellatus</i>) in the Black Sea basin: : implications for conservation and sustainable use (recorded presentation)</b> <i>Presenter: Daniela Nicoleta Holostenco, RO</i>	11:54 - 12:06
ON170	<b>Experimental study on the effect of vegetation in flowing water on dissipation of supersaturated total dissolved gas (recorded presentation)</b> <i>Presenter: Youquan Yuan, CN</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Biogeochemistry and Microbes*  
10:40 - 12:20

Parallel 4 A1

**Aquatic microbial biofilms and global change**

*Chair: Núria Perujo, DE*

*Chair: Anna Freixa, ES*

	<b>Introduction</b>	10:40 - 10:42
ON192	<b>Microbial invasion and resistance profiles of river biofilms under flow constrain and rising temperature</b> <i>Presenter: Giulia Gionchetta, CH</i>	10:42 - 10:54
ON193	<b>Biofilm extracellular enzyme activities in response to temperature: a latitudinal study</b> <i>Presenter: Anna Freixa, ES</i>	10:54 - 11:06
ON194	<b>Can grazers control eutrophication in streams? How biofilm food quality mediates stream ecosystem health</b>	11:06 - 11:18

	<i>Presenter:</i> Patrick Fink, DE	
ON195	<b>Freshwater salinisation induces biodiversity loss and cyanobacteria dominance in periphyton: a salinity gradient experiment in shallow lake mesocosms</b> <i>Presenter:</i> Juan Pablo Pacheco, UY	11:18 - 11:30
ON196	<b>Human pressures and functional status of Atlantic river ecosystems</b> <i>Presenter:</i> Miriam Colls, ES	11:30 - 11:42
ON197	<b>Disconnected effects of oscillating light and frequent mechanical stress on the microbial community structure and activity in river migrating ripples</b> <i>Presenter:</i> José Schreckinger, DE	11:42 - 11:54
ON198	<b>Assessment of the wastewater depuration capacity of natural microbial communities in a bench scale bioreactor</b> <i>Presenter:</i> Lluís Bertrams-Tubau, ES	11:54 - 12:06
ON199	<b>Cell molecular bases of freshwater diatoms segregation along pH gradients: an experimental approach</b> <i>Presenter:</i> Xènia Rodríguez-Miret, ES	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Stressors*  
10:40 - 12:20

Parallel 5 B5

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

*Chair:* Erik Sperfeld, DE  
*Chair:* Jason Stockwell, US  
*Chair:* Eleanor Jennings, IE  
*Chair:* Alexander Wacker, DE

	<b>Introduction</b>	10:40 - 10:42
ON216	<b>A simple model for predicting oxygen depletion of Lakes under Climate Change</b> <i>Presenter:</i> Lipa Nkwilale, DE	10:42 - 10:54
ON217	<b>Effects of nutrient enrichment and top predator loss on oxygen concentration variability in small ponds</b> <i>Presenter:</i> Rosalie Bruel, FR	10:54 - 11:06
ON218	<b>Zooplankton dynamics in lakes of different trophic state, depth and climatic region - a test of the PEG model</b> <i>Presenter:</i> Dietmar Straile, DE	11:06 - 11:18
ON219	<b>Environmental niche modelling for a rare charophyte species suggests that it may benefit from climate warming</b>	11:18 - 11:30

	<i>Presenter:</i> Michał Brzozowski, PL	
ON220	<b>Bulking phytoplankton: under-ice nutrient status</b> <i>Presenter:</i> Rebecca North, US	11:30 - 11:42
ON222	<b>Climate change as the major driver of changes in shallow lake functioning during the last 1600 years</b> <i>Presenter:</i> María de los Ángeles González Sagrario, AR	11:42 - 11:54
ON221	<b>Smoke on the Water! The Influence Regional Wildfires on the Ecological Structure of Castle Lake (CA, USA) (recorded presentation)</b> <i>Presenter:</i> Sudeep Chandra, US	11:54 - 12:06
ON223	<b>Long-term effects of radioactive contamination on aquatic biota in the Chernobyl NPP exclusion zone (recorded presentation)</b> <i>Presenter:</i> Dmitri Gudkov, UA	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Data and Models*  
10:40 - 12:20

Parallel 6 C4

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

*Chair:* Abolfazl Irani Rahaghi, CH

*Chair:* Tiit Kutser, EE

	<b>Introduction</b>	10:40 - 10:42
ON208	<b>Unraveling a widespread algal bloom in a deep large lake: Challenges and opportunities of combining remote sensing, in situ data and numerical modeling</b> <i>Presenter:</i> Abolfazl Irani Rahaghi, CH	10:42 - 10:54
ON209	<b>Integration of space-borne Thermal and Synthetic Aperture Radar data with atmospheric and hydrodynamic models for mapping and monitoring lake surface dynamics</b> <i>Presenter:</i> Marina Amadori, IT	10:54 - 11:06
ON210	<b>Dimensioning artificial floods for restoration of a complex floodplain system using hydromorphological modelling, UAV remote sensing and in situ measurements</b> <i>Presenter:</i> Michael Doering, CH	11:06 - 11:18
ON211	<b>Hydrodynamic drivers of nutrient and phytoplankton dynamics in a subtropical reservoir</b> <i>Presenter:</i> Mayra Ishikawa, DE	11:18 - 11:30
ON212	<b>Towards a new indicator of ecological integrity based on the fine scale detection of submerged aquatic vegetation patterns in fluvial lakes</b> <i>Presenter:</i> Arthur de Grandpré, CA	11:30 - 11:42

ON213	<b>Combining remote sensing and ethnography to study social-ecological flows in the Draa River Basin, Morocco</b> <i>Presenter: Elisabeth Berger, DE</i>	11:42 - 11:54
ON214	<b>Machine learning models for suspended particulate matter estimates: a global inland waters perspective (recorded presentation)</b> <i>Presenter: Kaishan Song, CN</i>	11:54 - 12:06
ON215	<b>Assessment of phytoplankton dynamics and algal bloom events in an anthropised eutrophic tropical system using Sentinel-2 MSI time series (recorded presentation)</b> <i>Presenter: Matheus Tavares, BR</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Biodiversity and ecosystem functioning*  
10:40 - 12:20

Parallel 7 A4

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

*Chair: Jordi Catalan, ES*

*Chair: Fengzhi He, CN*

*Chair: Leopold Füreder, AT*

*Chair: Xiling Deng, DE*

*Chair: Sami Domisch, DE*

*Chair: Davnah Urbach, CH*

	<b>Introduction</b>	10:40 - 10:42
ON176	<b>Structuring forces of stream macroinvertebrate communities in the Hengduan Mountains</b> <i>Presenter: Fengzhi He, CN</i>	10:42 - 10:54
ON177	<b>Comparative phylogeography of alpine/subalpine Himalopsyche species revealed distinct genetic structures in the Himalayas and Hengduan Mountains</b> <i>Presenter: Xiling Deng, DE</i>	10:54 - 11:06
ON178	<b>Non-biting midges at risk in high altitude streams of the Pyrenees</b> <i>Presenter: Narcís Prat, ES</i>	11:06 - 11:18
ON179	<b>Lake density across altitude shapes macroinvertebrate biodiversity in mountain areas</b> <i>Presenter: Guillermo de Mendoza, ES</i>	11:18 - 11:30
ON180	<b>Long-term functional responses of macroinvertebrates to flow restoration in an alpine river</b> <i>Presenter: Gabriele Consoli, CH</i>	11:30 - 11:42
ON181	<b>Are mountain passes higher in Ecuador line than in southern limit of the tropic? A trend for hygropetric insects</b>	11:42 - 11:54

	<i>Presenter:</i> Erika Mayumi Shimabukuro, BR	
ON182	<b>GloBios - Global Observatory Network for Freshwater Biodiversity in High Mountain Streams: First Results from the European Alps</b> <i>Presenter:</i> Oskar Schröder, DE	11:54 - 12:06
ON183	<b>Taxonomy, ontogeny, and ecology of <i>Tonnacypris stewarti</i> (Daday, 1908) comb. nov., an ostracod from high altitudes, Lake Nam Co, Tibet</b> <i>Presenter:</i> Mauricio Bonilla Flores, DE	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 2 Berlin 1
	<b>Lunch Break</b>	
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 3 Berlin 2
	<b>Lunch Break</b>	
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 4 A1
	<b>Lunch Break</b>	
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 5 B5
	<b>Lunch Break</b>	
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 6 C4
	<b>Lunch Break</b>	
	<i>Lunch Break</i> 12:20 - 13:50	Parallel 7 A4
	<b>Lunch Break</b>	
	<i>Networking Activities and Assemblies</i> 12:45 - 13:45	Plenary Room Berlin 3-6 Live Streamed!
	<b>SIL General Assembly</b>	
	<i>Chair:</i> Thomas Mehner, DE	
	<i>Chair:</i> Tamar Zohary, IL	
	<b>Presidential address</b>	12:45 - 12:45
	<i>Speaker:</i> Thomas Mehner, DE	
	<b>Activity report &amp; Financial statements</b>	12:45 - 12:45
	<i>Speaker:</i> Tamar Zohary, IL	
	<b>Naumann-Thienemann Medals</b>	12:45 - 12:45

**Announcement of Kilham and Baldi lecturers for 2022** 12:45 - 12:45

**Presentation of changes to Governance** 12:45 - 12:45

**SIL100** 12:45 - 12:45

**Close General Assembly** 12:45 - 12:45

*Plenary lectures*

13:50 - 14:35

Plenary Room Berlin 3-6 Live Streamed!

**Plenary Lecture Christiane Zarfl**

*Chair:* Mark O. Gessner, DE

**Global anthropogenic pressures on river ecosystems** 13:50 - 13:50

*Speaker:* Christiane Zarfl, DE

*Plenary lectures*

14:35 - 15:20

Plenary Room Berlin 3-6 Live Streamed!

**Plenary Lecture Spencer Hall**

*Chair:* Justyna Wolinska, DE

**Ecologists really should study parasites in freshwater ecosystems - an introduction to how and why** 14:35 - 14:35

*Speaker:* Spencer R. Hall, US

*Coffee Break*

15:20 - 15:50

Plenary Room Berlin 3-6 Live Streamed!

**Coffee Break**

*Coffee Break*

15:20 - 15:50

Parallel 2 Berlin 1

**Coffee Break**

*Coffee Break*

15:20 - 15:50

Parallel 3 Berlin 2

**Coffee Break**

*Coffee Break*

15:20 - 15:50

Parallel 4 A1

**Coffee Break**

*Coffee Break*

15:20 - 15:50

Parallel 5 B5

**Coffee Break**

*Coffee Break*

15:20 - 15:50

Parallel 6 C4

**Coffee Break**



Coffee Break  
15:20 - 15:50

Parallel 7 A4

**Coffee Break**

Biogeochemistry and Microbes  
15:50 - 17:30

Plenary Room Berlin 3-6 Live Streamed!

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

Chair: Maria Dittrich, CA  
Chair: Michael Hupfer, DE  
Chair: Man Xiao, CN  
Chair: David Hamilton, AU  
Chair: Michele Burford, AU  
Chair: Ingrid Chorus, DE  
Chair: Hans Paerl, US

	<b>Introduction</b>	15:50 - 15:52
ON352	<b>Can nutrient - biomass relationships in lakes infer nutrient limitation and help manage eutrophication?</b> <i>Presenter: Tom Shatwell, DE</i>	15:52 - 16:04
ON353	<b>What nutrient enrichment experiments (don't) tell us about underlying co-limitation mechanisms</b> <i>Presenter: Jordyn Stoll, US</i>	16:04 - 16:16
ON354	<b>Internal nitrogen loading in eutrophic lakes: moving beyond nutrient concentration measurements and Liebig's Law</b> <i>Presenter: Mark J McCarthy, EE</i>	16:16 - 16:28
ON355	<b>Ecosystem stoichiometry constraints on nitrogen fixation and toxin production by cyanobacteria</b> <i>Presenter: Thad Scott, US</i>	16:28 - 16:40
ON356	<b>Dynamics of P or N limitation of phytoplankton in a polymictic lake</b> <i>Presenter: Jan Köhler, DE</i>	16:40 - 16:52
ON357	<b>Eutrophication control: what does it take?</b> <i>Presenter: Miquel Lürling, NL</i>	16:52 - 17:04
ON358	<b>Different nutrient and light scenarios in human impacted shallow lakes host persistent cyanobacterial harmful blooms</b> <i>Presenter: Inés O'Farrell, AR</i>	17:04 - 17:16
ON359	<b>Session concluding discussion: Questions for research and management to develop criteria for site-specific nutrient-based mitigation of eutrophication</b> <i>Presenter: Hans Paerl, US</i> <i>Presenter: Ingrid Chorus, DE</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Ecosystem linkages*

15:50 - 17:30

Parallel 2 Berlin 1

**Cross-boundary interactions: from aquatic to terrestrial ecosystems**

*Chair:* Dominic Martin-Creuzburg, DE

*Chair:* Ralf Schulz, DE

*Chair:* Andreas Lorke, DE

*Chair:* Alessandro Manfrin, DE

*Chair:* John Strand, SE

*Chair:* Martin Kainz, AT

*Chair:* Tarn Preet Parmar, DE

*Chair:* Cornelia Twining, CH

	<b>Introduction</b>	15:50 - 15:52
ON368	<b>Arthropod biodiversity increases energy and nutrient availability across terrestrial and aquatic food webs</b> <i>Presenter:</i> Cornelia Twining, CH	15:52 - 16:04
ON369	<b>Changes in the quality of subsidies affect the functions of riparian ecosystem</b> <i>Presenter:</i> Stephen Osakpolor, DE	16:04 - 16:16
ON370	<b>Current-use organic pesticides in freshwater ecosystems: effects on emerging aquatic insects propagating to terrestrial predators</b> <i>Presenter:</i> Alexis Pieter Roodt, DE	16:16 - 16:28
ON371	<b>Indirect effects of stream pollution on riparian food webs: activity and hunting behaviour of terrestrial insectivores</b> <i>Presenter:</i> Maike Huszarik, DE	16:28 - 16:40
ON372	<b>Stream pollution impacts are transmitted to wintering insectivorous birds through increased aquatic emergence</b> <i>Presenter:</i> Fabio Lepori, CH	16:40 - 16:52
ON373	<b>Anthropogenic modifications and riparian vegetation responses in East Mediterranean rivers</b> <i>Presenter:</i> Eva Papastergiadou, GR	16:52 - 17:04
ON375	<b>Macroinvertebrate assemblages and functional traits in ashfall-impacted littoral zones of Lake Taal after the Taal volcano eruption in January 2020 (recorded presentation)</b> <i>Presenter:</i> John Claude Renan Salluta, PH	17:04 - 17:16
	<b>Closing Remarks</b>	17:16 - 17:18

*Biodiversity and ecosystem functioning*

15:50 - 17:30

Parallel 3 Berlin 2

**Invasive alien species in inland waters: invasion trends, impacts and management**

*Chair:* Vadim Panov, FI

	<b>Introduction</b>	15:50 - 15:52
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ON336	<b>Tracking the establishment and effect of neozoa in Lake Constance using (historical) environmental DNA</b> <i>Presenter: Laura Epp, DE</i>	15:52 - 16:04
ON337	<b>Successful invasions to freshwater systems increase with climate warming</b> <i>Presenter: Romana Salis, SE</i>	16:04 - 16:16
ON338	<b>Population dynamics of native mixed phytoplankton communities exposed to the invasive cyanobacterium <i>Raphidiopsis raciborskii</i> along gradients of N:P and temperature</b> <i>Presenter: Carlotta Meriggi, SE</i>	16:16 - 16:28
ON339	<b>Should they stay or should they go: New insights on the removal of invasive macrophytes from a biodiversity perspective</b> <i>Presenter: Benjamin Misteli, FR</i>	16:28 - 16:40
ON340	<b><i>Limnoperna fortunei</i> infestation estimation in the Urubupungá Complex, Brazil</b> <i>Presenter: Humberto Fortunato, BR</i>	16:40 - 16:52
ON341	<b>Water hyacinth infestation in Lake Tana, Ethiopia - a review of population dynamics</b> <i>Presenter: Ji Cai, JP</i>	16:52 - 17:04
ON343	<b>Impacts of an invasive omnivore shrimp on plankton communities: a mesocosm experiment from a food web perspective (recorded presentation)</b> <i>Presenter: Katalin Patonai, HU</i>	17:04 - 17:16
ON342	<b>Feeding efficiency of the exotic copepod <i>Mesocyclops pehpeiensis</i> in the presence of the native species <i>Mesocyclops longisetus curvatus</i> (recorded presentation)</b> <i>Presenter: Meetzli Alejandra Valencia Vargas, MX</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Biodiversity and ecosystem functioning*  
15:50 - 17:30

Parallel 4 A1

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

*Chair: Simon Belle, SE*

*Chair: Cécilia Barouillet, FR*

	<b>Introduction</b>	15:50 - 15:52
ON344	<b>Recent ecological changes in Canada's "Northern Great Lakes": a comparative paleolimnological perspective</b> <i>Presenter: John Smol, CA</i>	15:52 - 16:04
ON345	<b>Recent environmental transformation of Tatra lake</b>	16:04 - 16:16

	<b>ecosystem reflected in the stable carbon and nitrogen isotope composition of two <i>Daphnia</i> color morphs: paleolimnological approach</b>	
	<i>Presenter:</i> Marta Wojewódka-Przybył, PL	
ON346	<b>Paleoenvironmental changes recorded in two small Arctic Lakes from the Northwest Territories, Canada</b>	16:16 - 16:28
	<i>Presenter:</i> Brittany Brasier, CA	
ON347	<b>Methodological Strategies for Extracting Sedimentary Ancient DNA from Tropical Lake Regions</b>	16:28 - 16:40
	<i>Presenter:</i> Sevgi Kaynar, DE	
ON348	<b>Ecosystem changes of Lake Constance and its surroundings in the past 14000 years</b>	16:40 - 16:52
	<i>Presenter:</i> Yi Wang, DE	
ON349	<b>Out of the Blue Comes Green: Reconstructing 1000 years of lake multi-trophic responses to anthropogenic and natural disturbances</b>	16:52 - 17:04
	<i>Presenter:</i> Mailys Picard, NZ	
ON350	<b>Studying the long-term dynamic of freshwater ecosystems through sedimentary DNA research: a potential tool for management and conservation</b>	17:04 - 17:16
	<i>Presenter:</i> Cécilia Barouillet, FR	
ON351	<b>Lake ecosystem change at the wetland-dominated southern boundary of permafrost in Western Canada (recorded presentation)</b>	17:16 - 17:28
	<i>Presenter:</i> Jennifer Korosi, CA	
	<b>Closing Remarks</b>	17:28 - 17:30

*Stressors*

15:50 - 17:30

Parallel 5 B5

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

*Chair:* Erik Sperfeld, DE

*Chair:* Jason Stockwell, US

*Chair:* Eleanor Jennings, IE

*Chair:* Alexander Wacker, DE

	<b>Introduction</b>	15:50 - 15:52
ON384	<b>The sublethal effects of warming - Developmental response of aquatic insects</b>	15:52 - 16:04
	<i>Presenter:</i> Jonas Jourdan, DE	
ON385	<b>Effects of environmental variability and flood intensity on aquatic macroinvertebrates in the Karun river catchment (Iran)</b>	16:04 - 16:16
	<i>Presenter:</i> Ali Reza Esmaeili Ofogh, IR	
ON386	<b>Effects of high and low flows on population</b>	16:16 - 16:28

	<b>abundance of fish species in small Central European streams</b>	
	<i>Presenter:</i> Lucas Mignien, DE	
ON387	<b>Global evidence of extreme climate events on river biodiversity and functions</b>	16:28 - 16:40
	<i>Presenter:</i> Juan David González Trujillo, ES	
ON388	<b>Lagrangian profiles of riverine autotrophy, organic matter transformation, and micropollutants at extreme drought and the consequences in the estuary</b>	16:40 - 16:52
	<i>Presenter:</i> Norbert Kamjunke, DE	
ON389	<b>Wetlands in a future climate: How will drier summers affect wetland nitrogen removal?</b>	16:52 - 17:04
	<i>Presenter:</i> Josefin Nilsson, SE	
ON390	<b>Spatial and temporal variability of greenhouse gases ebullition from fish ponds</b>	17:04 - 17:16
	<i>Presenter:</i> Carolin Waldemer, DE	
ON391	<b>How is the temporal variability of stream methane regulated? - evidence from long term monitoring</b>	17:16 - 17:28
	<i>Presenter:</i> Peifang Leng, DE	
	<b>Closing Remarks</b>	17:28 - 17:30

*Data and Models*  
15:50 - 17:30

Parallel 6 C4

**Collecting diverse lake data from automated buoys or floating research platforms to promote interdisciplinarity**

*Chair:* Natacha Tofield-Pasche, CH

*Chair:* Bastiaan Ibelings, CH

	<b>Introduction</b>	15:50 - 15:52
ON360	<b>Automated lake buoys as platforms for discovery</b>	15:52 - 16:04
	<i>Presenter:</i> Paul Hanson, US	
ON361	<b>The promising example of the LÉXPLORE platform to promote interdisciplinary research on a large lake</b>	16:04 - 16:16
	<i>Presenter:</i> Natacha Tofield-Pasche, CH	
ON362	<b>Monitoring primary production in a shallow polymictic lake: methods and uncertainty, compartments and drivers</b>	16:16 - 16:28
	<i>Presenter:</i> Anne Schechner, DE	
ON363	<b>Estimating the impact of climate change on German lakes using high-frequency monitoring data and modelling</b>	16:28 - 16:40
	<i>Presenter:</i> Robert Schwefel, DE	
ON364	<b>Towards a deeper understanding of hypolimnetic</b>	16:40 - 16:52

	<b>anoxia by integration of campaign-based and monitoring data</b>	
	<i>Presenter:</i> Maximilian Lau, DE	
ON365	<b>Pilot project for continuous monitoring of the thermal structure of Swiss lakes</b>	16:52 - 17:04
	<i>Presenter:</i> Martin Schmid, CH	
ON366	<b>Establishment of an algal platform for the management of algal blooming areas</b>	17:04 - 17:16
	<i>Presenter:</i> Hee Suk Lee, KR	
ON367	<b>Primary production in the Great Lakes measured from autonomous underwater vehicles</b>	17:16 - 17:28
	<i>Presenter:</i> Marguerite Xenopoulos, CA	
	<b>Closing Remarks</b>	17:28 - 17:30
<i>Inland waters and Society</i>		
15:50 - 17:30		Parallel 7 A4
<b>Urban inland waters - hotspots of global change</b>		
<i>Chair:</i> Sabine Hilt, DE		
<i>Chair:</i> Soren Brothers, CA		
<i>Chair:</i> Claire Oswald, CA		
	<b>Introduction</b>	15:50 - 15:52
ON376	<b>Urban Footprints and Urban Shadows - Determining A Framework for Analyzing Greenhouse Gas Emissions from Urban Waters</b>	15:52 - 16:04
	<i>Presenter:</i> Soren Brothers, CA	
ON377	<b>Respiring cities: Carbon dioxide fluxes from an urban aquatic network</b>	16:04 - 16:16
	<i>Presenter:</i> Clara Romero González-Quijano, DE	
ON378	<b>Changes in water quality of Lake Sevan as an ecosystem services provider for urban development</b>	16:16 - 16:28
	<i>Presenter:</i> Garabet Kazanjian, AM	
ON379	<b>Mediterranean streams vulnerability, functions and services for the cities: The case of a hyper-salinized stream in Marseilles</b>	16:28 - 16:40
	<i>Presenter:</i> Evelyne Franquet, FR	
ON380	<b>Spit it out!? - Influence of invasive quagga mussels on cyanobacteria blooms during heat waves</b>	16:40 - 16:52
	<i>Presenter:</i> Jonas Mauch, DE	
ON381	<b>Getting to the bottom of urban lakes - understanding benthic primary producer dynamics to secure high water quality</b>	16:52 - 17:04
	<i>Presenter:</i> Sabine Hilt, DE	
ON383	<b>Under the bridge: light pollution affects zooplankton</b>	17:04 - 17:16

**distribution in an urban river and at illuminated bridges**

*Presenter:* Andreas Jechow, DE

**Climate Adaptation of the Water cycle management in the metropolitan region of Berlin**

17:16 - 17:16

*Speaker:* Regina Gnirss, DE

**Closing Remarks**

17:16 - 17:18

*Networking Activities and Assemblies*

17:30 - 20:00

Poster Area C2, C3

**Meet the ePoster Authors with beer and pretzels**

*Networking Activities and Assemblies*

20:15 - 22:00

Plenary Room Berlin 3-6 Live Streamed!

**Movie Night: Afterwater**

## Tuesday, 09. August 2022

ePosters

08:00 - 17:30

Poster Area C2, C3

### Assessment and biomonitoring of inland waters

- |       |   |               |
|-------|---|---------------|
| EP150 | <b>Digital microscopy for diatom-based ecological status assessment - case study two international rivers (Sava and Tisa rivers, Serbia)</b><br><i>Presenter: Danijela Vidakovic, DE</i>                    | 08:00 - 08:00 |
| EP151 | <b>Application of benthic diatom community developed on brick artificial substrate in ecological status assessment of soda ponds</b><br><i>Presenter: Miloš Ćirić, RS</i>                                   | 08:00 - 08:00 |
| EP152 | <b>Responses of microphytobenthic communities to multiple stressors increase and release in a large-scale ExStream mesocosm experimental setting</b><br><i>Presenter: Albert Serge Ntambwe Mayombo, DE</i>  | 08:00 - 08:00 |
| EP153 | <b>Digital microscopy improves diatom research</b><br><i>Presenter: Andrea Burfeid-Castellanos, DE</i>  | 08:00 - 08:00 |
| EP154 | <b>National scale patterns of diatom-environment relationships in rivers and streams of the United States based on DNA metabarcoding</b><br><i>Presenter: Nathan Smucker, US</i>                            | 08:00 - 08:00 |
| EP156 | <b>Diatom Community Dynamics in Recovering Agricultural Stream in Milledgeville, Georgia, USA</b><br><i>Presenter: Sydney Brown, US</i>   | 08:00 - 08:00 |
| EP157 | <b>The diversity of microsporidian parasites infecting divergent coexisting lineages of the <i>Gammarus fossarum</i> species complex in the Western Carpathians</b><br><i>Presenter: Nataša Katanić, CZ</i> | 08:00 - 08:00 |
| EP158 | <b>Evaluating the utility of citizen science in bird monitoring</b><br><i>Presenter: Yerim Lee, KR</i>  | 08:00 - 08:00 |
| EP159 | <b>Applicability of advanced molecular tools for river benthic diatom biomonitoring in southern Europe</b><br><i>Presenter: Juan Antonio Villaescusa Vinader, ES</i>  | 08:00 - 08:00 |
| EP160 | <b>Effect of dredging on the phytobenthos composition, structure and ecological status (based on phytobenthos) of hilly streams</b><br><i>Presenter: Éva Ács, HU</i>  | 08:00 - 08:00 |
| EP161 | <b>Diverse diatom communities of an oxbow lake of the River Tisza with the description a new <i>Mayamaea</i> species</b>  | 08:00 - 08:00 |



*Presenter:* Mónika Duleba, HU

- EP162      **Avian diversity in Nyangezi wetlands: the case of Nyamubanda Swamp in Territory of Walungu, Sud-Kivu, Democratic Republic of Congo**      08:00 - 08:00  
*Presenter:* Baguma Balagizi Gabriel, CD

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Using aquatic mesocosms for ecosystem studies, environmental engineering and nature-based solutions to experimentally tackle ecosystem grand challenges**

- EP179      **Next-generation sequencing for studying spatio-temporal composition of phytoplankton communities in thermally stratified mesocosms**      08:00 - 08:00  
*Presenter:* Ayagoz Meirkhanova, KZ
- EP180      **Using UV-fluorescence fingerprints to assess lake browning effects**      08:00 - 08:00  
*Presenter:* Nicolas Clercin, FR

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08:00 - 17:30

Poster Area C2, C3

**The future of small water bodies in the context of global change**

- EP115      **Microcystin-LR accumulation in fish and agricultural crops: implications on public health**      08:00 - 08:00  
*Presenter:* Cesar Alejandro Zamora Barrios, MX
- EP116      **The effect of land use intensity on pond biodiversity and GHG emissions**      08:00 - 08:00  
*Presenter:* Robby Wijns, BE
- EP117      **Preliminary study on isotopic niches of freshwater planktonic crustaceans in three lakes functioning under different thermal regimes**      08:00 - 08:00  
*Presenter:* Wojciech Krztoń, PL
- EP118      **The effect of buffer strip size on the ecological state of small ponds in agricultural areas in Belgium and Germany**      08:00 - 08:00  
*Presenter:* Louisa-Marie von Plüskow, BE
- EP119      **Pioneer temporary moraine ponds: a specific freshwater habitat in Maritime Antarctica**      08:00 - 08:00  
*Presenter:* Vesela Evtimova, BG

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08:00 - 17:30

Poster Area C2, C3

**Sustainable freshwater management in the 21st century**

- EP107      **Water quality evaluation and environmental awareness: a case study of European and Brazilian rivers**      08:00 - 08:00

	<i>Presenter:</i> Camila Pimenta, HU	
EP108	<b>Degradation of charophytes in a mesotrophic lake and attribution to herbicide application in sub-catchments</b> <i>Presenter:</i> Christiane Krambeck, DE	08:00 - 08:00
EP109	<b>Attempts to develop a non-invasive method of phosphorus removal from eutrophic lakes</b> <i>Presenter:</i> Agnieszka Bańkowska-Sobczak, PL	08:00 - 08:00
EP111	<b>The Future of the River Network Toolkit (RivTool)</b> <i>Presenter:</i> Gonçalo Duarte, PT	08:00 - 08:00
EP112	<b>Nitrate treatment as a tool for lake restoration in agricultural watersheds</b> <i>Presenter:</i> Renata Dondajewska-Pielka, PL	08:00 - 08:00
EP113	<b>Historical changes of the dissolved silicate supply and its effects on benthic animals in a tidal flat ecosystem</b> <i>Presenter:</i> Megumu Fujibayashi, JP	08:00 - 08:00
EP114	<b>Chemical precipitation of phosphorus with polyaluminium chloride: water quality development five and twenty years after treatment in two eutrophicated lakes</b> <i>Presenter:</i> Jouko Sarvala, FI	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

EP083	<b>Transcriptome response of <i>Gasterosteus aculeatus</i> in natural habitats affected by multiple anthropogenic stressors</b> <i>Presenter:</i> Camilo Escobar-Sierra, DE	08:00 - 08:00
EP084	<b>Exposure pathways of agricultural run-off matter for regime shifts in phototrophic communities</b> <i>Presenter:</i> Bastian H. Polst, DE	08:00 - 08:00
EP085	<b>Toxicity of profenofos to early life stage of whitegoby (<i>Glossogobius giuris</i>Hamilton)</b> <i>Presenter:</i> Ma. Vivian Camacho, PH	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**Links between landscapes and surface water chemistry**

EP073	<b>Biogeochemical heterogeneity at the stream-riparian interface of boreal headwaters</b> <i>Presenter:</i> Melissa Reidy, SE	08:00 - 08:00
EP074	<b>Concentration-Discharge Relationships to Identify</b>	08:00 - 08:00

	<b>Catchment Controls on Carbon and Nutrient Exports from a Boreal Landscape</b>	
	<i>Presenter: Virginia Mosquera, SE</i>	
EP075	<b>Nitrogen and phosphorus transport throughout Mediterranean watersheds in response to land-use changes and hydrology</b>	08:00 - 08:00
	<i>Presenter: Daniele Nizzoli, IT</i>	
EP076	<b>Analysis of dissolved organic carbon effects on the mobilization of metals in a historic mine drainage</b>	08:00 - 08:00
	<i>Presenter: Anita Sanchez, DE</i>	
EP077	<b>Carbon bioavailability and oxygen consumption in a future scenario - A case study in Lake Bolmen</b>	08:00 - 08:00
	<i>Presenter: Johanna Sjöstedt, SE</i>	
EP078	<b>Linking forest to fish: the story of coastal darkening</b>	08:00 - 08:00
	<i>Presenter: Dag Hessen, NO</i>	
EP079	<b>Seasonal variation in transport of bioavailable organic carbon</b>	08:00 - 08:00
	<i>Presenter: Kevin Jones, SE</i>	
EP080	<b>Metal pollution assessment in the region of the former Texcoco Lake (Basin of México), a multivariate approach</b>	08:00 - 08:00
	<i>Presenter: Jacinto Elías Sedeño-Díaz, MX</i>	
EP081	<b>Fish scale stable isotopes as potential indicators of nutrient pollution</b>	08:00 - 08:00
	<i>Presenter: Mojmír Vašek, CZ</i>	
EP082	<b>Effect of Land Use on Stream Water Quality and Biological Conditions in Multi-scale Watersheds</b>	08:00 - 08:00
	<i>Presenter: Jong-Won Lee, KR</i>	

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08:00 - 17:30

Poster Area C2, C3

**Linking physical and biogeochemical lake modeling**

EP071	<b>A new process-based model for regional-scale assessment of lake CH<sub>4</sub> emissions: resolving the spatio-temporal variability in diffusive and ebullitive fluxes from European lakes</b>	08:00 - 08:00
	<i>Presenter: Manon Maisonnier, BE</i>	
EP072	<b>Three-dimensional hydrodynamic-biogeochemical modelling of a small urban lake</b>	08:00 - 08:00
	<i>Presenter: Francesco Piccioni, FR</i>	

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08:00 - 17:30

Poster Area C2, C3

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

EP058	<b>Nutrients and microorganism assemblages in snowpacks in North-Patagonian Andes Mountain</b> <i>Presenter: Agustina Iglesias Louis, AR</i>	08:00 - 08:00
EP059	<b>Glacier melt-down changes habitat characteristics and unique microbial community composition and physiology in Alpine lakes sediments</b> <i>Presenter: Christiane Zarfl, DE</i>	08:00 - 08:00
EP060	<b>Evolution of surface temperatures in Austrian alpine lakes under climate change</b> <i>Presenter: Katharina Enigl, AT</i>	08:00 - 08:00
EP061	<b>Fish as sentinels of hydromorphological impact</b> <i>Presenter: Stelian Stanescu, RO</i>	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**Biodiversity, community assembly and functioning in plankton communities**

EP163	<b>Plankton diversity in tropical-highland wetlands under different hydrological influences (Lake Tana, Ethiopia)</b> <i>Presenter: Abrehet Mehari, BE</i>	08:00 - 08:00
EP165	<b>Effects of climate change and grazing on assembly processes and ecosystem functioning in bacterioplankton communities</b> <i>Presenter: Berenike Bick, SE</i>	08:00 - 08:00
EP166	<b>Biodiversity-ecosystem function relationships under resource-replete conditions - an experimental approach</b> <i>Presenter: Fernanda Miranda, SE</i>	08:00 - 08:00
EP167	<b>Morphometric variations of rotifers in a high altitude reservoir in Central Mexico</b> <i>Presenter: Sergio González Gutiérrez, MX</i>	08:00 - 08:00
EP168	<b>Spread of invasive and alien cyanobacterial species: phenomena of blooms, non-blooms, and biodiversity loss</b> <i>Presenter: Agnieszka Napiórkowska-Krzebietke, PL</i>	08:00 - 08:00
EP169	<b>Zooplankton networks conditioned by winter warming in small anthropogenic reservoirs</b> <i>Presenter: Anna Goździejewska, PL</i>	08:00 - 08:00
EP170	<b>Effectiveness of stable isotope analysis in understanding the nutrient reliance of ectoparasites in freshwater ecosystem to their respective hosts</b> <i>Presenter: Justine de Leon, PH</i>	08:00 - 08:00
EP171	<b>Synergistic effects of crowding and food shortage on growth, reproduction, and longevity in <i>Daphnia</i></b>	08:00 - 08:00

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*Presenter:* Syuhei Ban, JP

- |       |   |               |
|-------|---|---------------|
| EP172 | <b>Winter diatom ecology in a eutrophying lake and effects on summer biogeochemistry</b><br><i>Presenter:</i> Valeria Fárez-Román, DE   | 08:00 - 08:00 |
| EP173 | <b>Roles of the host phylogeny on the formation of host-associated microbiota in <i>Daphnia pulex</i></b><br><i>Presenter:</i> Ryotaro Ichige, JP   | 08:00 - 08:00 |
| EP174 | <b>How does environmental temperature impact the ability of <i>Daphnia</i> to resist a novel fungal parasite?</b><br><i>Presenter:</i> Joe Money, PL  | 08:00 - 08:00 |
| EP175 | <b>G x G interactions between algal and zooplankton clones isolated during the spring season</b><br><i>Presenter:</i> Domiziana Cristini, DE  | 08:00 - 08:00 |
| EP176 | <b>Influence of temperature and nitrogen on the growth of <i>Raphidiopsis raciborskii</i> strains originating from different climate zones</b><br><i>Presenter:</i> Agnieszka Brzozowska, PL                      | 08:00 - 08:00 |
| EP177 | <b>Comparisons of heliozoan abundance between deep and shallow basins of Lake Biwa with special reference to optimal growth temperature, food resource and habitat use</b><br><i>Presenter:</i> Junya Yoshida, JP | 08:00 - 08:00 |
| EP178 | <b>Zooplankton Communities as Bioindicators of Water Quality in Lake Palacpaquen and Lake Pandin, San Pablo City, Philippines</b><br><i>Presenter:</i> Ma. Vivian Camacho, PH                                     | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

- |       |   |               |
|-------|---|---------------|
| EP141 | <b>Using heat-adapted microalgae to prevent cyanobacterial blooms</b><br><i>Presenter:</i> Maria Nicoară, RO  | 08:00 - 08:00 |
| EP142 | <b>Cyanobacterial dominance in the regulated Moselle River in 2017-2020 correlates with low flow conditions and high temperatures</b><br><i>Presenter:</i> Julia Kleinteich, DE | 08:00 - 08:00 |
| EP143 | <b>Key environmental factors controlling primary production of phytoplankton in Yeongju Dam, Korea</b><br><i>Presenter:</i> Huiwon Lee, KR                                      | 08:00 - 08:00 |
| EP144 | <b>Cyanobacterial blooms in remote Minnesota lakes prompt exploration of atmospheric nutrient deposition and carbon dioxide as controls on algal</b>                            | 08:00 - 08:00 |

**community dynamics**

*Presenter:* Lienne Sethna, US

- EP145      **Effects of cyanotoxins on the demography of successive generations of the rotifer *Brachionus calyciflorus*.**      08:00 - 08:00  
*Presenter:* Carlos Sánchez Zamora, MX

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

- EP024      **The effect of drought on bottom fauna succession in streams in primeval forest, North Eastern Poland**      08:00 - 08:00  
*Presenter:* Jacek Koszałka, PL
- EP025      **Changes in catchment modifies alpine lakes heat budget**      08:00 - 08:00  
*Presenter:* Isabel Herr, CH
- EP026      **Do chrysophyte cysts reflect the changes in meteorological conditions? A case study from northeastern Poland**      08:00 - 08:00  
*Presenter:* Agnieszka Szczerba, PL
- EP027      **Effects of changes in meteorological/environmental conditions on diatom deposition and taxonomic structure in lakes Łazduny and Rzęsniki, northeast Poland**      08:00 - 08:00  
*Presenter:* Agnieszka Szczerba, PL
- EP028      **Impact of climate change on the water column anoxia in a small urban lake**      08:00 - 08:00  
*Presenter:* Brigitte Vinçon Leite, FR
- EP029      **Římov Reservoir dataset - the family silver of the Czech long-term limnological research**      08:00 - 08:00  
*Presenter:* Petr Znachor, CZ
- EP030      **Temperature-mediated diet preference in the invasive crustacean *Limnomysis benedeni***      08:00 - 08:00  
*Presenter:* Varsha Rani, HU
- EP031      **Cyanobacterial blooms like it hot - or not**      08:00 - 08:00  
*Presenter:* Sandra Rabow, SE
- EP032      **Does solar activity affect the dynamics of cyanobacteria community worldwide and how?**      08:00 - 08:00  
*Presenter:* Gaël Dur, JP
- EP033      **Compiling and harmonizing thermal tolerance data to assess variability within species and across organism groups, size, and phylogeny**      08:00 - 08:00  
*Presenter:* Helena Soraya Bayat, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Collecting diverse lake data from automated buoys or floating research platforms to promote interdisciplinarity**

- |       |   |               |
|-------|---|---------------|
| EP001 | <b>A web-platform to ease access and overview of collected real-time buoy data</b><br><i>Presenter: Anders Nielsen, DK</i>  | 08:00 - 08:00 |
| EP002 | <b>Combining modelling and automated monitoring at the hydroelectric reservoir of Eguzon to predict the evolution of water quality and algae blooms</b><br><i>Presenter: Mathieu Caffin, FR</i> | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Large and deep lakes under stress: how resilient are lake ecosystems?**

- |       |  |               |
|-------|--|---------------|
| EP068 | <b>Climate as the main driver of nutrients and phytoplankton dynamics in a deep oligomictic lakes South of the Alps</b><br><i>Presenter: Michela Rogora, IT</i>            | 08:00 - 08:00 |
| EP069 | <b>Do invasive quagga mussels grow faster than zebra mussels? Growth rates of dreissenids under multiple simulated field conditions</b><br><i>Presenter: Hui Zhang, DE</i> | 08:00 - 08:00 |
| EP070 | <b>Past, present and future anthropogenic stressors in a large Swedish lake</b><br><i>Presenter: Friederike Ermold, SE</i>   | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Invasive alien species in inland waters: invasion trends, impacts and management**

- |       |  |               |
|-------|--|---------------|
| EP146 | <b>Assessment of public awareness in freshwater alien species and anura by digital data analysis</b><br><i>Presenter: Woong-Bae Park, KR</i>   | 08:00 - 08:00 |
| EP147 | <b>Distribution trends of invasive Asian carps (<i>Hypophthalmichthys molitrix</i> and <i>Aristichthys nobilis</i>) in Europe in the context of climate change</b><br><i>Presenter: Oksana Nekrasova, UA</i> | 08:00 - 08:00 |
| EP148 | <b>Invasive alien species in freshwater systems of Georgia</b><br><i>Presenter: Bella Japoshvili, GE</i>   | 08:00 - 08:00 |
| EP149 | <b>Biological invasion success of <i>Pontogammarus robustoides</i> G. O. Sars, 1894 in the Daugava River (Latvia)</b><br><i>Presenter: Aija Brakovska, LV</i>  | 08:00 - 08:00 |
| EP185 | <b>Cytogenetic alterations in the invasive species of</b>  | 08:00 - 08:00 |

**gammarids caused by the water ion composition changes**

*Presenter:* Mariia Goncharova, UA

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Urban inland waters - hotspots of global change**

EP049      **The effects of road crossings on stream macroinvertebrate diversity**      08:00 - 08:00

*Presenter:* Blanka Gál, HU

EP050      **The former lakes of Valley of Mexico, a retrospective study from Alexander von Humboldt to the present**      08:00 - 08:00

*Presenter:* Eugenia López-López, MX

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

EP126      **Transcriptomic responses of the blooming cyanobacteria *Microcystis aeruginosa* against PAC: Implications for ecological adaptation**      08:00 - 08:00

*Presenter:* Eun-Jeong Kim, KR

EP127      ***Planktothrix agardhii* Bloom in Yahuarcocha lake - Ecuador**      08:00 - 08:00

*Presenter:* María de Lourdes Guerra C., ES

EP128      **Transfer of microcystins in the food chain - a case study in Lake Mindelsee, Germany**      08:00 - 08:00

*Presenter:* Eva Riehle, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**ePosters on Demand**

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

EP120      **Remote Quantification of the Turbidity of Chinese Lakes (>1 km<sup>2</sup>)**      08:00 - 08:00

*Presenter:* Sijia Li, CN

EP121      **S-Oases: An open-source database on the environmental and cultural state and future development of oases globally**      08:00 - 08:00

*Presenter:* Juan Antonio Hernández-Agüero, DE

EP122      **Lake surface water temperature is a good indicator to evaluate the warmer trend in ice-covered lakes in**      08:00 - 08:00



**Tibetan plateau?**

*Presenter:* Xin Zhang, CN

EP123 **Ecological status of Tunisia's coastal lagoons using remote sensing** 08:00 - 08:00

*Presenter:* Rebeca Pérez-González, ES

EP124 **An integrated monitoring and modelling system for the shallow subtropical Ypacaraí Lake (Paraguay)** 08:00 - 08:00

*Presenter:* Gregorio Alejandro López Moreira Mazacotte, PY

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08:00 - 17:30

Poster Area C2, C3

**Adjusting reservoir management to global change**

EP088 **Lake Długie in Olsztyn (Olsztyn Lakeland) as an example of good practice in lakes restoration** 08:00 - 08:00

*Presenter:* Jolanta Grochowska, PL

EP089 **What are the current sources of nutrient pollution and effects on lake stability for the Rappbode Reservoir System, in Germany?** 08:00 - 08:00

*Presenter:* Floran Clopin, NL

EP090 **Structure of microbial communities in benthic biofilms of glacier-fed streams from Patagonia, Argentina** 08:00 - 08:00

*Presenter:* Evelyn Vega, AR

EP091 **The making of a river: Microbial dispersal and resource transport in a lab meta-ecosystem** 08:00 - 08:00

*Presenter:* Tania Sosa-Jiron, AT

EP092 **Experimental studies on the succession of phytoplankton with the simulation of different climate change scenarios** 08:00 - 08:00

*Presenter:* Zoltán Novák, HU

EP093 **The effects of climate warming on the periphyton community in the River Thames (Oxford, England)** 08:00 - 08:00

*Presenter:* Adriana Mordente, GB

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08:00 - 17:30

Poster Area C2, C3

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

EP102 **Holocene ecosystem development as recorded from benthic cladocerans in Laguna de Río Seco (Sierra Nevada, S Spain)** 08:00 - 08:00

*Presenter:* Charo López-Blanco, ES

EP103 **The challenge of finding a metabarcoding region for cladocerans in sedimentary DNA** 08:00 - 08:00

	<i>Presenter:</i> Charo López-Blanco, ES	
EP104	<b>Evolutionary Adaptation of Arctic Daphnia to Environmental Change</b> <i>Presenter:</i> Athina Karapli Petritsopoulou, DE	08:00 - 08:00
EP105	<b>Potential of waterbird environmental DNA to investigate ecosystem changes in Lake Constance and surroundings</b> <i>Presenter:</i> Rebecca Kühner, DE	08:00 - 08:00
EP106	<b>Climatic and human induced vegetational changes recovered by sedaDNA from Lake Tiefer See, Germany</b> <i>Presenter:</i> Theresa Wietelmann, DE	08:00 - 08:00
<i>ePosters</i> 08:00 - 17:30		Poster Area C2, C3
	<b>Plastics in inland waters: pathways and impact</b>	
EP101	<b>An empirical assessment of the threat of suspended microplastics to aquatic food webs in a neotropical freshwater wetland</b> <i>Presenter:</i> Carlos López, EC	08:00 - 08:00
<i>ePosters</i> 08:00 - 17:30		Poster Area C2, C3
	<b>Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale</b>	
EP094	<b>Long-term observations of the progressive urbanization to the trophic state of an urban meromictic lake</b> <i>Presenter:</i> Renata Tandyrak, PL	08:00 - 08:00
EP095	<b>The reaction of bottom sediments of shallow, restored lake (Mielenko Lake, Poland) to the prolonged circulation due to lack of ice-cover during winter season</b> <i>Presenter:</i> Renata Augustyniak-Tunowska, PL	08:00 - 08:00
EP096	<b>An innovative method of lakes restoration - selective water flow control</b> <i>Presenter:</i> Michał Łopata, PL	08:00 - 08:00
EP097	<b>Mass balance and critical load of phosphorus in the Lago del Fuerte reservoir (Tandil, Argentina)</b> <i>Presenter:</i> Marisol Roxana Cifuentes, AR	08:00 - 08:00
EP098	<b>Influence of the addition of calcium nitrate and oxygen-enriched water (Schäfersee-Verfahren®) on the hypolimnion of a contaminated urban lake</b> <i>Presenter:</i> Robin Burgold, DE	08:00 - 08:00
EP099	<b>Spatial and temporal pattern of phosphorus release</b>	08:00 - 08:00

**from sediments of a eutrophying clear-water lake**

*Presenter:* Johann Holdt, DE

- EP100      **Pathways of nutrient pollution in the Volga Reservoirs**      08:00 - 08:00  
*Presenter:* Oxana Erina, RU

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08:00 - 17:30

Poster Area C2, C3

**Open dialogue on world water issues and solutions across generations**

- EP129      **The disappearance of *Bdellocephala annandalei* in conjunction with environmental changes in Lake Biwa**  
□ **Latest results of lake bottom monitoring**      08:00 - 08:00  
*Presenter:* Runo Sato, JP
- EP130      **What is happening in the world's third ancient lake "Lake Biwa"**      08:00 - 08:00  
*Presenter:* Rui Kurokawa, JP
- EP131      **Global Warming and its Impact on Lake Biwa Ecosystems - Changes in water temperature and decrease of endemic Biwa-salmon in Lake Biwa**      08:00 - 08:00  
*Presenter:* Tomoaki Takahashi, JP
- EP132      **My Research in Lake Biwa Part 1**      08:00 - 08:00  
*Presenter:* Naoki Endo, JP
- EP133      **New initiative in Shiga prefecture**      08:00 - 08:00  
*Presenter:* Sotaro Maki, JP
- EP134      **Water issues and school lunches**      08:00 - 08:00  
*Presenter:* Yuha Oka, JP
- EP135      **The relationship between the number of native fishes and the number of alien fishes in Lake Biwa**      08:00 - 08:00  
*Presenter:* Toma Asakawa, JP
- EP136      **Lower the water temperature of Lake Biwa by using the treated water of the sewage treatment plant that flows into Lake Biwa**      08:00 - 08:00  
*Presenter:* Shin Atago, JP

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08:00 - 17:30

Poster Area C2, C3

**Novel insights into freshwater ecosystem processes by stable isotopes**

- EP086      **Environmental fate and trophic transfer of synthetic musk compounds and siloxanes in Geum River, Korea: Compound-specific nitrogen isotope analysis of amino acids**      08:00 - 08:00  
*Presenter:* Dokyun Kim, KR
- EP087      **Organic carbon transfer across the river-sea interfaces in three estuary systems in South Korea**      08:00 - 08:00

Presenter: Sujin Kang, KR

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08:00 - 17:30

Poster Area C2, C3

**Land-use impacts and other stressors on freshwater ecosystems**

- EP062      **Macroinvertebrate community at a restored river site shows resistance to increased salinity**      08:00 - 08:00  
*Presenter: Iris Madge Pimentel, DE*
- EP063      **Intensive human land-uses impairs ecosystem functioning through reducing taxonomic and functional diversities**      08:00 - 08:00  
*Presenter: Dieison Moi, BR*
- EP064      **A deep dive into methylparaben: Investigating its natural presence in freshwater biota**      08:00 - 08:00  
*Presenter: Katarina A. Cetinić, HR*
- EP065      **The effects of multiple stressors on biotic interactions in riverine ecosystems: A case study on predator-mediated shifts induced by fish**      08:00 - 08:00  
*Presenter: Anna-Maria Vermiert, DE*
- EP066      **Altered streams significantly contribute to the regional diversity of aquatic invertebrates in the Atlantic Forest**      08:00 - 08:00  
*Presenter: Marcelo Moretti, BR*
- EP067      **Environmental Flow Requirements of Estuaries: Providing resilience to current and future climate and direct anthropogenic changes**      08:00 - 08:00  
*Presenter: Daniel Chilton, AU*

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08:00 - 17:30

Poster Area C2, C3

**Bio-manipulations for eutrophic waters restoration**

- EP181      **Phytoplankton dynamics shaping the efficiency of phosphorus accumulation by periphyton in the eutrophic reservoir**      08:00 - 08:00  
*Presenter: Marija Pečić, RS*

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08:00 - 17:30

Poster Area C2, C3

**Gases in inland waters: production, accumulation, and emission**

- EP051      **Assessing the controls on respiratory quotient across the land to sea continuum**      08:00 - 08:00  
*Presenter: Konstantinos-Marios Vaziourakis, SE*
- EP052      **Lake Yambo as a model crater lake to better understand methane dynamics in tropical East Asia**      08:00 - 08:00  
*Presenter: Justine de Leon, PH*

EP053	<b>Impact of bioturbators on methane emission across the sediment-water interface from a model perspective</b> <i>Presenter: Lucia Cabrera-Lamanna, NL</i>	08:00 - 08:00
EP054	<b>Bioturbation effects on sediment CO<sub>2</sub> and CH<sub>4</sub> emissions from inland waters</b> <i>Presenter: Ilenia Marquina Luevano, NL</i>	08:00 - 08:00
EP055	<b>Methane production in the oxic water column of shallow lakes from the Pampean Plain with different alternative regimes (Buenos Aires, Argentina)</b> <i>Presenter: Sofia Baliña, AR</i>	08:00 - 08:00
EP056	<b>Hydrology drives GHG dynamics in a boreal headwater stream affected by clear-cutting</b> <i>Presenter: Demian Hauptmann, SE</i>	08:00 - 08:00
EP057	<b>Sediment microbial ecology and methane dynamics during resuspension events in a hypersaline coastal lagoon</b> <i>Presenter: Christopher Keneally, AU</i>	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**From macroecology to spatio-temporal ecology in freshwaters**

EP043	<b>Divergent litter traits of riparian plant species in humid and drier biomes within the tropics</b> <i>Presenter: Guilherme Sena, BR</i>	08:00 - 08:00
EP044	<b>Decomposing distributions into life stage-specific modules in freshwater Species Distribution Models</b> <i>Presenter: Graciela Patricia Medina Madariaga, DE</i>	08:00 - 08:00
EP045	<b>Sediment replenishment mitigates riverbed environments and benthic macroinvertebrates communities downstream of a dam</b> <i>Presenter: Izumi Katano, JP</i>	08:00 - 08:00
EP046	<b>Trophic status of the filter-feeder larvae and quantity and quality of drifted fine particle materials in a dam river</b> <i>Presenter: Sara Soroji, JP</i>	08:00 - 08:00
EP047	<b>Effects of a tributary inflow and sediment replenishment on riverbed environments and benthic macroinvertebrates communities downstream of a dam</b> <i>Presenter: Naoko Hara, JP</i>	08:00 - 08:00
EP048	<b>Dammed Fish - Impact of structural and functional river network connectivity losses on fish biodiversity - Optimizing management solutions</b> <i>Presenter: Paulo Branco, PT</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

- |       |  |               |
|-------|--|---------------|
| EP039 | <b>Unravelling the drivers of nitrous oxide emissions from streams (DrivNOS)</b><br><i>Presenter:</i> Joachim Audet, DK  | 08:00 - 08:00 |
| EP040 | <b>Title: Radiocarbon Stocktaking of Swiss Lakes: Relevance to Carbon Budgets and Dynamics</b><br><i>Presenter:</i> Benedict Mittelbach, CH  | 08:00 - 08:00 |
| EP041 | <b>Does burial of organic carbon reduce recent atmospheric CO<sub>2</sub> concentrations: a case study at a German reservoir</b><br><i>Presenter:</i> Jörg Tittel, DE                          | 08:00 - 08:00 |
| EP042 | <b>Bottom-up vs top-down observations highlight potential overestimation of methane sediment fluxes in freshwaters with high sulphate concentrations</b><br><i>Presenter:</i> Aurora Pinto, DE | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Fish ecology, management and conservation**

- |       |   |               |
|-------|---|---------------|
| EP034 | <b>Temporal dynamics of freshwater fish assemblages - a systematic review</b><br><i>Presenter:</i> István Czeglédi, HU                      | 08:00 - 08:00 |
| EP035 | <b>On-site ultra-rapid environmental DNA detection for freshwater fish</b><br><i>Presenter:</i> Hideyuki Doi, JP                            | 08:00 - 08:00 |
| EP036 | <b>First results of great cormorant GPS tracking at a large Central European lake</b><br><i>Presenter:</i> Bálint Preiszner, HU             | 08:00 - 08:00 |
| EP037 | <b>Response in the fish assemblage due to temporal opening test of the Nakdong estuarine barrage</b><br><i>Presenter:</i> Donghyun Hong, KR | 08:00 - 08:00 |
| EP038 | <b>Towards an Ecosystem-based management (EBM) in Sweden's second largest lake</b><br><i>Presenter:</i> Malin Setzer, SE                    | 08:00 - 08:00 |

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08:00 - 17:30

Poster Area C2, C3

**Ecology and conservation of temporary aquatic ecosystems**

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|-------|--|---------------|
| EP137 | <b>Decadal ecological recovery associated with removing overgrown macrophytes</b><br><i>Presenter:</i> Kanako Ishikawa, JP | 08:00 - 08:00 |
| EP138 | <b>Assessment of cladocerans recolonization from the</b>   | 08:00 - 08:00 |

**egg bank in a neotropical temporary pond**

*Presenter:* Carlos López, EC

EP139 **Environmental filtering and limiting similarity as driving forces of macroinvertebrate community structure in drought effected lowland streams** 08:00 - 08:00

*Presenter:* Júlia Szeles, HU

EP140 **A collapse of a European temporary protected wetland: the plankton dynamics leading to an ecological disaster** 08:00 - 08:00

*Presenter:* Maria Demertzioglou, GR

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08:00 - 17:30

Poster Area C2, C3

**Dynamics of freshwater bacteria, fungi, and viruses**

EP020 **Disentangling the relative importance of water quality and spatial factors on aquatic fungal assemblages across 50 reservoirs** 08:00 - 08:00

*Presenter:* Maiko Kagami, JP

EP021 **The prevalence of chytrid fungus infection of glacier algae on a glacier in Alaska** 08:00 - 08:00

*Presenter:* Kino Kobayashi, JP

EP022 **Phylogeny and biogeography of the novel parasitic chytrids infecting snow algae in alpine ecosystems** 08:00 - 08:00

*Presenter:* Hiroaki Nakanishi, JP

EP023 **Impact of a widely used herbicide on the chytrid infection of toxigenic cyanobacteria** 08:00 - 08:00

*Presenter:* Erika Berenice Martinez-Ruiz, DE

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08:00 - 17:30

Poster Area C2, C3

**Dynamics of dissolved and particulate organic matter in inland waters**

EP016 **Dissolved organic matter quality variations as function of time and space in two drinking water reservoirs in Germany** 08:00 - 08:00

*Presenter:* Peter Herzsprung, DE

EP017 **Alteration of dissolved organic matter from particulate organic matter in the riverine environment by *Ephemera* mayflies** 08:00 - 08:00

*Presenter:* Tomohiro Okabe, JP

EP018 **Estimating inputs of aquaculture-derived nutrients to streams using dissolved organic matter fluorescence and in situ sensors detections** 08:00 - 08:00

*Presenter:* Sebastian Osorio, CL

EP019 **Salt pulsed effects on leaf litter decomposition** 08:00 - 08:00

**extend beyond contamination cessation and depends on leaf colonization status**

*Presenter:* Ricardo Oliveira, PT

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08:00 - 17:30

Poster Area C2, C3

**Cross-boundary interactions: from aquatic to terrestrial ecosystems**

EP014      **Trophic transfer of marker and essential fatty acids from chironomids emerged from saline siberian lakes to riparian orb-weaving spiders**      08:00 - 08:00

*Presenter:* Nadezhda Sushchik, RU

EP015      **Metabarcoding reveals effects of anti-mosquito agent on non-target chironomid communities**      08:00 - 08:00

*Presenter:* Nina Röder, DE

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08:00 - 17:30

Poster Area C2, C3

**Connectivity of aquatic ecosystems**

EP008      **Go with the flow - impact of connectivity on nutrient regimes and phytoplankton dynamics in river-connected lakes**      08:00 - 08:00

*Presenter:* Christine Kiel, DE

EP009      **Irrigation dams alter biogeochemicals cycling in intermittent streams of Appenines**      08:00 - 08:00

*Presenter:* Edoardo Cavallini, IT

EP010      **Prioritizing pond restoration to recover the habitat connectivity of a pond-dwelling turtle**      08:00 - 08:00

*Presenter:* Pedro Segurado, PT

EP011      **Diel variation of water column CH<sub>4</sub> and emission fluxes in a eutrophic lake**      08:00 - 08:00

*Presenter:* Hanqing Yuan, CN

EP012      **Natural Vs. Artificial River Network Fragmentation in Europe**      08:00 - 08:00

*Presenter:* Tamara Leite, PT

EP013      **Effectiveness monitoring of 5 fish ladders in Catalonia, NE of the Iberian Peninsula**      08:00 - 08:00

*Presenter:* Quim Pou-Rovira, ES

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Combining data-driven and process-based models: Perspectives for limnological studies**

EP003      **A model coupling dispersal and resource fluxes in fluvial meta-ecosystems**      08:00 - 08:00

*Presenter:* Matthew Talluto, AT



EP004	<b>Analysis of the influence of different meteorological factors on lake surface water temperature across different climates</b> <i>Presenter: Marco Toffolon, IT</i>	08:00 - 08:00
EP005	<b>Modelling the effect of variability of inflow nutrient concentrations on lake nutrient retention</b> <i>Presenter: Maria Determann, DE</i>	08:00 - 08:00
EP006	<b>Modelling a deep oligomictic lake: the relevance of the quality of input data</b> <i>Presenter: Claudia Dresti, IT</i>	08:00 - 08:00
EP007	<b>The precipitation retention time in Lake Biwa and its catchment area using the response function</b> <i>Presenter: Maho Iwaki, JP</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Climate impacts of human-made freshwater systems**

EP182	<b>Methane Emissions due to Reservoir Flushing: An Overlooked High-impact Pathway?</b> <i>Presenter: Frank Peeters, DE</i>	08:00 - 08:00
EP183	<b>Combatting eutrophication and recycling of nutrients: can fishpond sediments be used for crop cultivation?</b> <i>Presenter: Ana Paula Dalbem Barbosa, BR</i>	08:00 - 08:00
EP184	<b>Dam removal and the fate of sediment: can macrophytes minimize sediment leakage of greenhouse gases, nutrients and heavy metals?</b> <i>Presenter: Anna Bottone, SE</i>	08:00 - 08:00

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Plastics in inland waters: pathways and impact**

OR035	<b>Effect of microplastics on the population growth of rotifers (Rotifera)</b> <i>Presenter: José Antonio Hernández-Lucero, MX</i>	08:00 - 08:00
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*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

OR096	<b>Production and oxidation of methane (CH<sub>4</sub>) in sediments of tropical lakes, Chiapas, Mexico</b> <i>Presenter: Andrea P. Guzmán-Arias, MX</i>	08:00 - 08:00
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*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Aquatic microbial biofilms and global change**

OR128            **Constraining effect of moving river bedforms on sediment microbial community is not influenced by variability in ripple migration velocity**            08:00 - 08:00  
*Presenter: Anna Oprei, DE*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

OR025            **Bitter facts of India's largest inland saline wetland: 96 years of analysis**            08:00 - 08:00  
*Presenter: Rajashree Naik, IN*

OR026            **Simulation of flow pattern in ice-covered lakes using a 3d circulation model**            08:00 - 08:00  
*Presenter: Fatemeh Sadat Sharifi, DE*

OR027            **Smart sensors to predict entrainment of freshwater mussels: A new tool in freshwater habitat assessment**            08:00 - 08:00  
*Presenter: Edward Curley, GB*

OR028            **Techniques and applications for Cyanobacteria and Phytoplankton monitoring at high spatio-temporal resolution using multiple satellite sensors**            08:00 - 08:00  
*Presenter: Karin Schenk, DE*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Assessment and biomonitoring of inland waters**

OR121            **A Europe-wide overview of variation in river phytobenthos**            08:00 - 08:00  
*Presenter: Martyn Kelly, GB*

OR122            **eDNA metabarcoding revealed phytoplankton diversity and community structure in Dianchi Lake and the three inflowing rivers**            08:00 - 08:00  
*Presenter: Lin Yuanyuan, CN*

OR123            **Lake Sevan, Armenia: Assessment of current phytoplankton and ecological state**            08:00 - 08:00  
*Presenter: Gor Gevorgyan, AM*

OR124            **Developing and Testing Diatom Indicators of Ecological Change for Wetlands in Big Cypress Nature Preserve**            08:00 - 08:00  
*Presenter: R. Jan Stevenson, US*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

- |       |  |               |
|-------|--|---------------|
| OR125 | <b>Record-setting algal bloom in polymictic Lake Balaton (Hungary): a synergistic impact of climate change and (mis)management</b><br><i>Presenter: Vera Istvánovics, HU</i>                     | 08:00 - 08:00 |
| OR126 | <b>An evolutionary ecological mechanism of CyanoHABs: unavoidable consequences when low nutrient requirements meet eutrophication</b><br><i>Presenter: Huansheng Cao, CN</i>                     | 08:00 - 08:00 |
| OR127 | <b>Comparison of utilization advantages of <i>Microcystis aeruginosa</i> and <i>Scenedesmus quadricaudatus</i> on different nitrogen and phosphorus forms</b><br><i>Presenter: Xiuli Hou, CN</i> | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Orals on Demand**

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Biomanipulations for eutrophic waters restoration**

- |       |   |               |
|-------|---|---------------|
| OR115 | <b>Combined effect of hydrogen peroxide, aeration, and zooplankton on <i>Microcystis</i> spp</b><br><i>Presenter: Michael Anai Figueroa Sanchez, MX</i> | 08:00 - 08:00 |
| OR116 | <b>New methodologies for living zooplankton separation and their applications in large-scale experiments</b><br><i>Presenter: Žiga Ogorelec, SI</i>     | 08:00 - 08:00 |
| OR117 | <b>Fish removal at high external loading: it costs and it pays</b><br><i>Presenter: Ilkka Sammalkorpi, FI</i>   | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Adjusting reservoir management to global change**

- |       |   |               |
|-------|---|---------------|
| OR118 | <b>The effect of iron coagulant on submerged vegetation in conditions of increased temperature - laboratory experiment</b><br><i>Presenter: Joanna Rosińska, PL</i>       | 08:00 - 08:00 |
| OR119 | <b>Response of thermal stratification to sediment in subtropical reservoirs</b><br><i>Presenter: Lei Zhu, CN</i>  | 08:00 - 08:00 |
| OR120 | <b>Influence of irrigation infrastructures and water quality on fish assemblages in Lake Tana tributaries, north-west Ethiopia</b><br><i>Presenter: Abebe Getahun, ET</i> | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Climate emergency at the Three Poles: structural and functional impacts on inland waters**

- |       |   |               |
|-------|---|---------------|
| OR113 | <b>Internal nutrient cycling promotes net autotrophy in small and shallow lakes of the Canadian Arctic</b><br><i>Presenter: Paola Ayala-Borda, CA</i> | 08:00 - 08:00 |
| OR114 | <b>Terrestrial DOC mobilization across the northern circumpolar permafrost region; a systematic review</b><br><i>Presenter: Liam Heffernan, SE</i>    | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Invasive alien species in inland waters: invasion trends, impacts and management**

- |       |   |               |
|-------|---|---------------|
| OR075 | <b>Trichoptera species on the North-Atlantic islands with emphasis on Iceland</b>   | 08:00 - 08:00 |
| OR076 | <b>Impacts of alien species on native freshwater megafauna</b><br><i>Presenter: Xing Chen, DE</i>   | 08:00 - 08:00 |
| OR077 | <b>Effect of copper (Cu) and temperature on the feeding behavior of the invasive (<i>Mesocyclops pehpeiensis</i>) and native (<i>Mesocyclops longisetus</i> and <i>Microcyclops dubitabilis</i>) copepods (Crustacea: Copepoda)</b><br><i>Presenter: Leticia Esmeralda Cruz-Escalante, MX</i> | 08:00 - 08:00 |
| OR078 | <b>The role of intra-specific diversity on microbial invasions in lakes</b><br><i>Presenter: Guntram Weithoff, DE</i>   | 08:00 - 08:00 |
| OR079 | <b>What do we know about variation of the crayfish plague pathogen? Overview from both invaded and native ranges</b><br><i>Presenter: Adam Petrusek, CZ</i>   | 08:00 - 08:00 |
|       | <b>Freshwater crayfish introductions in AfricaTC</b><br><i>Speaker: Takudzwa Comfort Madzivanzira, ZA</i>   | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

- |       |   |               |
|-------|---|---------------|
| OR042 | <b>Phosphorus diagenesis linked to methane and iron in lake sediments of a coastal embayment of eastern Georgian Bay, Lake Huron</b><br><i>Presenter: Xiaoqing Shao, CA</i> | 08:00 - 08:00 |
| OR043 | <b>Relationship between cyanobacteria and phosphorus during 24 solar terms in Lake Taihu, China</b><br><i>Presenter: Guangwei Zhu, CN</i>                                   | 08:00 - 08:00 |

OR044	<b>Links between cellular phosphorus storage and P uptake strategies of freshwater cyanobacteria populations</b> <i>Presenter: Man Xiao, CN</i>	08:00 - 08:00
OR045	<b>Development of Phosphorous Removing Bioreactors with Woodchip and Eggshell Substrates for Agricultural Land</b> <i>Presenter: Zachary Diloreto, CA</i>	08:00 - 08:00
OR047	<b>Reducing internal phosphorus loading and preventing flooding in a popular Wisconsin, USA seepage lake using a siphon pipe system</b> <i>Presenter: Richard C. Lathrop, US</i>	08:00 - 08:00
OR048	<b>Cyanobacterial biomass in freshwaters of the Americas: revisiting the main predicting factors</b> <i>Presenter: Sylvia Bonilla, UY</i>	08:00 - 08:00
OR049	<b>How does the <i>Raphidiopsis raciborskii</i> adapt to environmental phosphorus?</b> <i>Presenter: Fang Bai, CN</i>	08:00 - 08:00
	<b>Physico-chemical conditions in Lake Abaya, Southern Ethiopia</b> <i>Speaker: Samuel Tessema, ET</i>	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Climate impacts of human-made freshwater systems**

OR111	<b>Towards critical white ice conditions in lakes under global warming</b> <i>Presenter: Gesa Weyhenmeyer, SE</i>	08:00 - 08:00
OR112	<b>Limnological dynamics of methane and carbon dioxide emissions from a tropical hypertrophic reservoir</b> <i>Presenter: Martin Merino-Ibarra, MX</i>	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Combining data-driven and process-based models: Perspectives for limnological studies**

OR110	<b>Decision support tools for river diagnostics and management</b> <i>Presenter: Christian K. Feld, DE</i>	08:00 - 08:00
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*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Dynamics of dissolved and particulate organic matter in inland waters**

OR104	<b>Spatial and temporal organic carbon dynamics in a</b>	08:00 - 08:00
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**non-perennial river basin**

*Presenter:* Oriana Llanos Paez, ES

OR105 **Saharan dust promotes acidic polysaccharides coagulation and carbon export in an eutrophic reservoir** 08:00 - 08:00

*Presenter:* Andrés Martínez-García, ES

OR106 **Altered plant detritus processing in streams affected by multiple stressors in the Argeş River basin, Romania** 08:00 - 08:00

*Presenter:* Geta Risnoveanu, RO

OR107 **Seasonal compensation-flow changes from reservoirs modify leaf litter decomposition and biofilm accrual in UK upland rivers** 08:00 - 08:00

*Presenter:* Tapiwa Zimunya, GB

OR108 **Carrion subsidies of inland waters** 08:00 - 08:00

*Presenter:* M. Eric Benbow, US

OR109 **Field experiments increase benthic densities of plant detritus and dependent organisms in small and large rivers** 08:00 - 08:00

*Presenter:* William Bovill, AU

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Dynamics of freshwater bacteria, fungi, and viruses**

OR101 **Origin, fluxes, and reservoirs of *Escherichia coli* in aquatic ecosystems of a French floodplain** 08:00 - 08:00

*Presenter:* Charles Henriot, FR

OR102 **Non-detrimental viral infections in cultured algae** 08:00 - 08:00

*Presenter:* Petronella Wessman, SE

**Aquatic Ecosystems: habitat and vector for antimicrobial resistance (AMR) transmission** 08:00 - 08:00

*Presenter:* Pau De Yebra Rodó, DE

*Oral Presentations on Demand*

08:00 - 17:30

Oral Presentations on Demand

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

OR012 **An extreme drought event homogenises the diatom composition of two shallow lakes in southwest China** 08:00 - 08:00

*Presenter:* Anna-Marie Klamt, DK

OR013 **Mitigating cyanobacterial harmful algal blooms (CyanoHABs) in a world facing increasing human and climatic perturbations** 08:00 - 08:00

*Presenter:* Hans Paerl, US

OR014	<b>Trace elements distribution of the sediment core in a high sedimentation reservoir</b> <i>Presenter: He Wen-yan, CN</i>	08:00 - 08:00
OR015	<b>Isotopic disentanglement of moisture sources: Insights into the precipitation histories of mountain river systems</b> <i>Presenter: Bibhasvata Dasgupta, IN</i>	08:00 - 08:00
OR016	<b>Evaluation of Metal (loid) Accumulation in the Surficial Sediment of Mavi Lake, Ankara</b> <i>Presenter: Şeyda Fikirdeşici Ergen, TR</i>	08:00 - 08:00
OR017	<b>Impacts on ancient lakes: Loss of level in Prespa Lakes (North Macedonia) as a case of study</b> <i>Presenter: Juan Soria, ES</i>	08:00 - 08:00
OR018	<b>Assessing lake ecosystem recovery from acidification and responses to emerging environmental stressors: a paleolimnological perspective</b> <i>Presenter: Yuanyu Cheng, CA</i>	08:00 - 08:00
OR019	<b>Flexible life history is essential for the mayfly, <i>Hexagenia limbata</i>, to survive in western Lake Erie</b> <i>Presenter: Ron Griffiths, CA</i>	08:00 - 08:00
OR021	<b>Unique ecological characteristics of pristine bog lakes in Latvia</b> <i>Presenter: Matiss Zagars, LV</i>	08:00 - 08:00
OR022	<b>Multiple stressors impact macroinvertebrate shredder communities. Insights from a microcosm experiment</b> <i>Presenter: Valentin Dinu, RO</i>	08:00 - 08:00
OR023	<b>The Resulting Threats of Pollutants in the Solomon's Pools (Borak Suleiman), Bethlehem Governorate, Palestine (Occupied), Added to the Already Existing Threats</b> <i>Presenter: Hilmi S. Salem, PS</i>	08:00 - 08:00
OR024	<b>Environmental stress increases the effects of pesticides</b> <i>Presenter: Naeem Shahid, DE</i>	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

OR080	<b>Mineral sedimentation in landslide fen deposits: temporary mountain lakes affected by extreme rainfalls - from present day records to the past; Polish Western Carpathians</b> <i>Presenter: Włodzimierz Margielewski, PL</i>	08:00 - 08:00
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OR081	<b>Typification of oligotrophic lakes using the ciliate assemblage structure re-visited</b> <i>Presenter: Miroslav Macek, MX</i>	08:00 - 08:00
OR082	<b>Seasonality enhances protist coexistence in planktonic oligotrophic communities</b> <i>Presenter: Jordi Catalan, ES</i>	08:00 - 08:00
OR083	<b>Diatoms as indicators of habitat and chemical characteristics of páramo lakes in Colombia</b> <i>Presenter: Carlos A. Rivera-Rondón, CO</i>	08:00 - 08:00
OR084	<b>From a lake to a fen - a detailed record of the Late Glacial short-term climatic oscillations from the Klaklowo fen deposits (the Western Carpathians, Poland)</b> <i>Presenter: Jolanta Pilch, PL</i>	08:00 - 08:00
OR085	<b>Unexpected multi-year changes within biotic communities in warming alpine streams</b> <i>Presenter: Leopold Füreder, AT</i>	08:00 - 08:00
OR129	<b>Elevational patterns of trait composition and functional diversity of stream macroinvertebrates in the Hengduan Mountains region, Southwest China</b> <i>Presenter: Sicheng Ao, CN</i>	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**From macroecology to spatio-temporal ecology in freshwaters**

OR069	<b>Spatiotemporal dynamics of stream fish size spectra under global changes</b> <i>Presenter: Ignasi Arranz, FR</i>	08:00 - 08:00
OR070	<b>Evaluating the ecological status of large rivers in the context of the WFD: the new phytoplankton index for French large rivers</b> <i>Presenter: Albin Meyer, FR</i>	08:00 - 08:00
OR071	<b>Particulate organic matter properties shape the microbial metacommunity in river networks</b> <i>Presenter: Edurne Estévez, AT</i>	08:00 - 08:00
OR072	<b>Different habitat requirements of <i>Ranunculus aquatilis</i> and <i>R. peltatus</i> in running waters</b> <i>Presenter: Daniel Gebler, PL</i>	08:00 - 08:00
OR073	<b>Overview of coastal lagoons in mediterranean Basin by remote sensing</b> <i>Presenter: Juan Soria, ES</i>	08:00 - 08:00
OR074	<b>Wetland detritus vs. stream detritus - Food quality determines fitness of juveniles of the highly endangered freshwater pearl mussel (<i>Margaritifera</i>)</b>	08:00 - 08:00



***margaritifera*)**

Presenter: Felix Grunicke, DE

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Land-use impacts and other stressors on freshwater ecosystems**

OR066      **Effects of urbanization-induced local alterations on the diversity and assemblage structure of macroinvertebrates in low-order streams**      08:00 - 08:00

Presenter: Attila Bohus, HU

OR067      **Flow intermittency and light pollution: the effect of multiple interacting stressors on freshwater invertebrates**      08:00 - 08:00

Presenter: Gemma Burgazzi, DE

OR068      **Trophic plasticity of a widespread top predator across a land use and stream productivity gradient**      08:00 - 08:00

Presenter: Daniel Perkins, GB

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Large and deep lakes under stress: how resilient are lake ecosystems?**

OR061      **The Aral Sea: mixing regime of its basins after desiccation and restoration measures**      08:00 - 08:00

Presenter: Georgiy Kirillin, DE

OR062      **Genotype specific and microbiome effects of hypoxia in the model organism *Daphnia magna*.**      08:00 - 08:00

Presenter: Manon Coone, BE

OR063      **Geological determinants of cholera outbreaks along the African Rift**      08:00 - 08:00

Presenter: Gudrun Bornette, FR

OR064      **Microplastics occurrence in surface waters and sediments in lakes Edward and George in Uganda**      08:00 - 08:00

Presenter: Haruna Lubega, UG

OR065      **Insights on sediment management for macroinvertebrate forage resources in Northern Great Plains lakes**      08:00 - 08:00

Presenter: Iain Phillips, CA

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Links between landscapes and surface water chemistry**

OR057      **Spatiotemporal analysis of water quality using multivariate statistical techniques for the Usumacinta River, southeast Mexico**      08:00 - 08:00

Presenter: Ismael Soria-Reinoso, MX

- |       |  |               |
|-------|--|---------------|
| OR058 | <b>Aged riverine DOC export to the two contrasting estuary systems: Geum and Seomjin, South Korea</b><br><i>Presenter: Sujin Kang, KR</i>                | 08:00 - 08:00 |
| OR059 | <b>Plant protectant agents and metabolites in freshwater systems - new insights into process understanding</b><br><i>Presenter: Karin Meinikmann, DE</i> | 08:00 - 08:00 |
| OR060 | <b>Physico-chemical characterisation of protected oligotrophic lakes in Ireland</b><br><i>Presenter: Giovanni Cappelli, IE</i>                           | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Novel insights into freshwater ecosystem processes by stable isotopes**

- |       |  |               |
|-------|--|---------------|
| OR010 | <b>Nutrient export from agricultural catchments to eutrophic lakes in New Zealand: insight from isotopes to inform catchment management</b><br><i>Presenter: Meti Yulianti, NZ</i> | 08:00 - 08:00 |
| OR011 | <b>Primary production determined by <sup>13</sup>C-labelling is a viable alternative to the classic radiocarbon incubation</b><br><i>Presenter: Alexander H. Frank, DE</i>         | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

- |       |   |               |
|-------|---|---------------|
| OR040 | <b>Human - environment interaction during the last millennium: A multi-proxy sediment record from Lake Högwörth, Bavaria</b><br><i>Presenter: Sudip Acharya, DE</i>               | 08:00 - 08:00 |
| OR041 | <b>Reconstruction of the regional environment and biogeochemical evolution of high altitude relict Himalayan Lake using stable isotopes</b><br><i>Presenter: Abdur Rahman, IN</i> | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Sustainable freshwater management in the 21st century**

- |       |   |               |
|-------|---|---------------|
| OR036 | <b>Safeguarding freshwater ecosystems and biodiversity in the African Great Lakes: evidence synthesis for researchers and decision-makers</b><br><i>Presenter: Kevin Obiero, KE</i> | 08:00 - 08:00 |
| OR037 | <b>Zooplankton indicators of Water quality in three reservoirs in the State of Mexico</b><br><i>Presenter: Nandini Sarma, MX</i>  | 08:00 - 08:00 |

OR038      **Study of invasive exotic aquatic plants in the Cedillo and Alcántara reservoirs with Sentinel-1 and Sentinel-2 images.***First results.*      08:00 - 08:00

*Presenter:* Bárbara Alvado, ES

OR039      **Why we need broader monitoring for more successful freshwater restoration**      08:00 - 08:00

*Presenter:* Laurence Carvalho, NO

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**The future of small water bodies in the context of global change**

OR032      **A multi-scale analysis and classification of the hydrogeomorphological characteristics of Irish headwater streams**      08:00 - 08:00

*Presenter:* Edward Cox, IE

OR033      **How often a monomictic subtropical lake will remain stratified throughout the year under expected climate changes?**      08:00 - 08:00

*Presenter:* Yael Amitai, IL

OR034      **Connectivity across the European waterscape: relevance of source-sink dynamics across freshwater bioregions**      08:00 - 08:00

*Presenter:* David Cunillera-Montcusi, ES

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

OR031      **Harmful algal blooms - Putting toxigenic genotypes and nontoxic mutants of microcystin-producing cyanobacteria on a map**      08:00 - 08:00

*Presenter:* Rainer Kurmayer, AT

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Urban inland waters - hotspots of global change**

OR030      **Coupling conductivity and stable water isotopes to infer chloride transport and flow paths in an urban stream**      08:00 - 08:00

*Presenter:* Cody Ross, CA

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Ecology and conservation of temporary aquatic ecosystems**

OR098      **Physiological conservation of anuran: Application of combined veterinary clinical examinations to diagnose the health condition in frogs**      08:00 - 08:00

Presenter: Jun-Kyu Park, KR

- OR100      **Factors controlling zooplankton communities in temporary rock pools**      08:00 - 08:00  
Presenter: Luciana Barbosa, BR

Oral Presentations on Demand  
08:00 - 17:30

Oral Presentations on Demand

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

- OR051      **Effects of different concentrations of Methylene Blue on the growth and reproduction of *Daphnia magna***      08:00 - 08:00  
Presenter: Shuhui Li, CN
- OR052      **A process-based microcosm model to disentangle the combined effects of multiple stressors in lentic and slow-flowing shallow aquatic ecosystems**      08:00 - 08:00  
Presenter: Gregorio Alejandro López Moreira Mazacotte, DE
- OR053      **Pharmaceutical disruption: Effect of psychoactive pharmaceuticals on behavior of freshwater snail, *Lymnaea stagnalis* and their role in disrupting anti-predator response to kairomone from Common carp, *Cyprinus carpio***      08:00 - 08:00  
Presenter: Nandini Vasantha Raman, NL
- OR055      **Neonicotinoid Occurrence in Environmental Waters of Indramayu Regency, Indonesia**      08:00 - 08:00  
Presenter: Zanne Sandriati Putri, JP

Oral Presentations on Demand  
08:00 - 17:30

Oral Presentations on Demand

**Biodiversity, community assembly and functioning in plankton communities**

- OR001      **Unusual abundance of bloom forming *Aulacoseira* spp. diatom populations in an anthropogenically impacted stretch of lower part of the River Ganga**      08:00 - 08:00  
Presenter: Chakresh Kumar, IN
- OR002      **Zooplankton abundance and biomass in shallow eutrophic Yeniçağa Lake (Bolu, Turkey)**      08:00 - 08:00  
Presenter: Bura Uğur Sorguç, TR
- OR003      **Effect of crustacean (cladocerans and copepods) conditioned medium on the algal food intake and filtration rates of the rotifer *Brachionus havanaensis* (Rotifera)**      08:00 - 08:00  
Presenter: Ana Nayeli López-Rocha, MX
- OR004      **Impact of cyanobacteria on the physiological performance of *Daphnia magna***      08:00 - 08:00  
Presenter: Bettina Zeis, DE
- OR005      **Novel view on a framework of *Microcystis* spp. blooms: imaging flow cytometry analysis of bloom**      08:00 - 08:00

**development in a mesocosm experiment**

*Presenter:* Natasha S. Barteneva, KZ

*Speaker:* Adina Zhumakhanova, KZ

- |       |   |               |
|-------|---|---------------|
| OR006 | <b>Rapid evolution of morphological defences in <i>Daphnia galeata</i></b><br><i>Presenter:</i> Pelita Octorina, DE   | 08:00 - 08:00 |
| OR007 | <b>Temporal monitoring of cyanotoxin dynamics in the Lalla Takerkoust dam and transfer to the surrounding farms</b><br><i>Presenter:</i> Richard Mugani, MA | 08:00 - 08:00 |
| OR008 | <b>The enemy of my enemy - a new microsporidian symbiont and its context-dependent effects on <i>Daphnia</i></b><br><i>Presenter:</i> Marcin K. Dziuba, US  | 08:00 - 08:00 |
| OR009 | <b>Single-cell population genomics of a bloom-forming microalga</b><br><i>Presenter:</i> Raphael Gollnisch, SE  | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Fish ecology, management and conservation**

- |       |   |               |
|-------|---|---------------|
| OR097 | <b>Assessment of physicochemical properties and capture fisheries/cage culture activities in Koga Reservoir, West Gojjam, Ethiopia</b><br><i>Presenter:</i> Abebe Getahun, ET                   | 08:00 - 08:00 |
| ON008 | <b>Food web structure in Mediterranean streams: influences of invaders and habitat change (recorded presentation)</b><br><i>Presenter:</i> Joana Martelo, PT                                    | 08:00 - 08:12 |
|       | <b>Human land-use alter the trophic ecology of omnivorous fish in Neotropical streams</b><br><i>Speaker:</i> Mayara Neves, BR   | 08:12 - 08:12 |
| OR130 | <b>Fatty acid content and composition in various tissues of freshwater fish (<i>Thymallus baicalensis</i>), with a special focus on DHA synthesis</b><br><i>Presenter:</i> Olesia Makhutova, RU | 08:12 - 08:12 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Gases in inland waters: production, accumulation, and emission**

- |       |   |               |
|-------|---|---------------|
| OR086 | <b>Experimental analysis and numerical modelling for dissolved gases transfer through spillways</b><br><i>Presenter:</i> Xiaolong Cheng, CN | 08:00 - 08:00 |
| OR087 | <b>Eutrophication impacts on methane emission from</b>  | 08:00 - 08:00 |

	<b>temperate mediterranean lakes: a case study</b> <i>Presenter: Mariana Vargas-Sánchez, MX</i>	
OR088	<b>Damming river shapes distinct patterns and processes of planktonic bacterial and microeukaryotic communities</b> <i>Presenter: Qiong Tang, CN</i>	08:00 - 08:00
OR089	<b>ROS-driven methane formation across living organisms: new perspectives for understanding of methane formation in oxic aquatic environments</b> <i>Presenter: Frank Keppler, DE</i>	08:00 - 08:00
OR090	<b>Nexus analysis of Water-Electricity-Carbon emissions and strategies for carbon reduction and electricity lowering</b> <i>Presenter: Xinxia He, CN</i>	08:00 - 08:00
OR091	<b>The net GHG emissions of the Three Gorges Reservoir in China in full-scale synthesis</b> <i>Presenter: Zhe Li, CN</i>	08:00 - 08:00
OR092	<b>Evidence of methane transformations near oxic/anoxic interface of Georgian Bay's embayment, Lake Huron</b> <i>Presenter: Khoren Avetisyan, CA</i>	08:00 - 08:00
OR093	<b>Experimental Study on Adsorption Effect of Porous Media on Supersaturated Total Dissolved Gas</b> <i>Presenter: Chonglin Wang, CN</i>	08:00 - 08:00
OR094	<b>A novel high-resolution in situ tool for studying carbon biogeochemical processes in aquatic systems: the Lake Aiguebelette case study</b> <i>Presenter: Roberto Grilli, FR</i>	08:00 - 08:00
ON123	<b>Methane fluxes in Amazon floodplain lakes: measurements and modeling</b> <i>Presenter: John Melack, US</i>	08:00 - 08:00
ON251	<b>Methane production by Cyanobacteria isolated from soda lakes in the Brazilian Pantanal</b> <i>Presenter: Carolinne Rosa de Carvalho, BR</i>	08:00 - 08:00
ON067	<b>Near-surface Turbulence in Arctic, Temperate, and Tropical Inland Waters: Implications for Gas Fluxes</b> <i>Presenter: Sally MacIntyre, US</i>	08:00 - 08:00

*Exhibition*  
08:00 - 17:30  
**Exhibition**

Exhibition Area Foyer C

*Biogeochemistry and Microbes*

08:30 - 10:10

Plenary Room Berlin 3-6 Live Streamed!

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

Chair: Rebecca North, US

Chair: Mindy Morales, US

	<b>Introduction</b>	08:30 - 08:32
ON057	<b>Increasing diversity of <i>Planktothrix rubescens</i> populations as a consequence of eutrophication and climate change</b> <i>Presenter: Jason Woodhouse, DE</i>	08:32 - 08:44
ON058	<b>Genomic analysis of <i>Microcystis</i> reveals improved taxonomy, insight into <i>Microcystis</i> evolution, and new opportunities for mitigation</b> <i>Presenter: K. David Hambright, US</i>	08:44 - 08:56
ON059	<b>Effects of temperature, light and nutrients on tropical <i>microcystis</i> growth and toxin production: broader lessons from individual laboratory experiments</b> <i>Presenter: Maxine Allayne Darlene Mowe, SG</i>	08:56 - 09:08
ON060	<b>Assessing the importance of cobalt as a micronutrient for freshwater cyanobacteria</b> <i>Presenter: Jordan Facey, AU</i>	09:08 - 09:20
ON061	<b>Planktonic blooms and fish kills as hydrodynamics proxies of Lake Tanganyika limnological cycle</b> <i>Presenter: Pierre-Denis Plisnier, BE</i>	09:20 - 09:32
ON062	<b>Does flow and thermal stratification induce cyanobacterial blooms in the large regulated Murray River, Australia?</b> <i>Presenter: Jarrod Walton, AU</i>	09:32 - 09:44
ON063	<b>Depletion of dissolved silicon as a precursor to cyanobacterial blooms in a nutrient rich river</b> <i>Presenter: Todd Royer, US</i>	09:44 - 09:56
ON064	<b>Transfer and accumulation of microcystin from cyanobacteria to insect larvae is consistent between years despite the extent of the cyanoHAB</b> <i>Presenter: Manuel Weisser, DE</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Ecosystem linkages*

08:30 - 10:10

Parallel 2 Berlin 1

**Cross-boundary interactions: from aquatic to terrestrial ecosystems**

*Chair:* Dominic Martin-Creuzburg, DE

*Chair:* Ralf Schulz, DE

*Chair:* Andreas Lorke, DE

*Chair:* Alessandro Manfrin, DE

*Chair:* John Strand, SE

*Chair:* Martin Kainz, AT

*Chair:* Tarn Preet Parmar, DE

*Chair:* Cornelia Twining, CH

	<b>Introduction</b>	08:30 - 08:32
ON073	<b>Bti-based mosquito control agent alters natural benthic community composition in replicated pond systems</b> <i>Presenter:</i> Verena Gerstle, DE	08:32 - 08:44
ON074	<b>Mosquito control agent <i>Bacillus thuringiensis</i> var. <i>israelensis</i> alters emergence dynamics of insects from freshwater ponds</b> <i>Presenter:</i> Sara Kolbensschlag, DE	08:44 - 08:56
ON075	<b>Dietary changes in predators after application of the Bti-based mosquito control agent in a replicated pond mesocosm</b> <i>Presenter:</i> Alessandro Manfrin, DE	08:56 - 09:08
ON076	<b>Effects of aquatic micropollutants on the fatty acid transport via hemi- and holometabolous aquatic insects</b> <i>Presenter:</i> Sebastian Pietz, DE	09:08 - 09:20
ON077	<b>The Penetration of Essential Aquatic Nutrients into Adjacent Terrestrial Habitats</b> <i>Presenter:</i> Tarn Preet Parmar, DE	09:20 - 09:32
ON078	<b>Export of dietary lipids via emergent insects from eutrophic fish ponds</b> <i>Presenter:</i> Martin Kainz, AT	09:32 - 09:44
ON079	<b>Diet- and temperature-controlled modifications of polyunsaturated fatty acids in Chironomidae larvae</b> <i>Presenter:</i> Ursula Strandberg, FI	09:44 - 09:56
ON080	<b>Ecosystem drivers of leaf traits and resource-use strategies in nymphaeids</b> <i>Presenter:</i> Alice Dalla Vecchia, IT	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10



Stressors

08:30 - 10:10

Parallel 3 Berlin 2

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

Chair: Elisabeth Gross, FR

	<b>Introduction</b>	08:30 - 08:32
ON097	<b>Effects of multiple stressors on nitrate and cyanobacteria in a large shallow lake</b> <i>Presenter: Fabien Cremona, EE</i>	08:32 - 08:44
ON098	<b>Shrinking body size and physiology contribute to geographic variation and the higher toxicity of pesticides in a warming world</b> <i>Presenter: Julie Verheyen, BE</i>	08:44 - 08:56
ON099	<b>The impact of consecutive heat wave and pesticide exposure on two congeneric damselfly species and their gut microbiome</b> <i>Presenter: Charlotte Theys, BE</i>	08:56 - 09:08
ON100	<b>A heat spike overrules pesticide tolerance: a case study in the water flea <i>Daphnia magna</i></b> <i>Presenter: Marlies Van de Maele, BE</i>	09:08 - 09:20
ON101	<b>Combined impact of agricultural run-off and warming on primary producers and consumers in agricultural streams</b> <i>Presenter: Elisabeth Gross, FR</i>	09:20 - 09:32
ON102	<b>How do the structural characteristics of benthic invertebrate communities respond to agricultural stressors in small water bodies?</b> <i>Presenter: Fee Nanett Trau, DE</i>	09:32 - 09:44
ON103	<b>Monitoring of plant protection products in small water bodies located in the agricultural landscape of Northern Germany</b> <i>Presenter: Marlen Heinz, DE</i>	09:44 - 09:56
ON104	<b>Effects of altered management practices on risks associated to pesticide use for small freshwaters</b> <i>Presenter: Stefan Lorenz, DE</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

Inland waters and Society

08:30 - 10:10

Parallel 4 A1

**Adjusting reservoir management to global change**

Chair: Karsten Rinke, DE

Chair: Karl-Erich Lindenschmidt, CA

Chair: David Hamilton, AU

	<b>Introduction</b>	08:30 - 08:32
ON081	<b>Will treated recycling wastewater cause algal</b>	08:32 - 08:44

	<b>blooms? A study of the effect of nutrient inputs on algal blooms in a drinking water reservoir</b>	
	<i>Presenter: Michele Burford, AU</i>	
ON082	<b>Managing hypoxia and water quality using artificial aeration in a New Zealand reservoir</b>	08:44 - 08:56
	<i>Presenter: Anika Kuczynski, NZ</i>	
ON083	<b>Modelling the dynamics of phytoplankton and zooplankton in a temperate stratified reservoir</b>	08:56 - 09:08
	<i>Presenter: Ma Cristina Paule-Mercado, CZ</i>	
ON084	<b>Optimization of water supply reservoir operation to reduce the effects of eutrophication and increasing concentration of natural organic matter using the model system "catchment - reservoir"</b>	09:08 - 09:20
	<i>Presenter: Josef Hejzlar, CZ</i>	
ON085	<b>Hydrophysical models document impact of global warming on water availability of a drinking water reservoir</b>	09:20 - 09:32
	<i>Presenter: Johannes Feldbauer, DE</i>	
ON086	<b>Controlling blooms of <i>Planktothrix rubescens</i> by optimized metalimnetic water withdrawal: a modelling study on adaptive reservoir operation</b>	09:32 - 09:44
	<i>Presenter: Chenxi Mi, DE</i>	
ON087	<b>Effect of predams and catchment on thermal and mixing regime of Germany's largest drinking water reservoir under climate change</b>	09:44 - 09:56
	<i>Presenter: Bo Gai, DE</i>	
ON088	<b>Dynamic climatic impacts on the hydrology of a large, shallow lake</b>	09:56 - 10:08
	<i>Presenter: Mark Honti, HU</i>	
	<b>Closing Remarks</b>	10:08 - 10:10

*Inland waters and Society*  
08:30 - 10:10

Parallel 5 B5

**Sustainable freshwater management in the 21st century**

*Chair: Sandra Poikane, IT*

*Chair: Ken Irvine, NL*

*Chair: Bryan Spears, GB*

*Chair: Stuart Warner, IE*

	<b>Introduction</b>	08:30 - 08:32
ON089	<b>Mainstreaming the restoration of rivers and wetlands in Europe</b>	08:32 - 08:44
	<i>Presenter: Sebastian Birk, DE</i>	
ON090	<b>Quantifying river continuity for the EU Biodiversity Strategy</b>	08:44 - 08:56

	<i>Presenter: Wouter van de Bund, IT</i>	
ON091	<b>Is hydropeaking pushing hydropower beyond the limits of renewability?</b> <i>Presenter: Máximo Florín, ES</i>	08:56 - 09:08
ON092	<b>Planning riparian restoration at a whole catchment scale: Navigating trade-offs among agricultural production, ecosystem functioning and biodiversity</b> <i>Presenter: Brendan McKie, SE</i>	09:08 - 09:20
ON093	<b>A Bayesian network model to support river management for improved ecosystem services</b> <i>Presenter: Marcin Penk, IE</i>	09:20 - 09:32
ON265	<b>Congruence in types specific anthropogenic thresholds for riverine ecosystems</b> <i>Presenter: Gabor Varbiro, HU</i>	09:32 - 09:44
ON095	<b>Assessing climate change impacts on the water quality of standing waters in Scotland, UK</b> <i>Presenter: Linda May, GB</i>	09:44 - 09:56
ON096	<b>What climate change brings to a warm monomictic lake: mechanisms of tipping to thermal meromictic</b> <i>Presenter: Behnam Zamani, DE</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10
<i>Biogeochemistry and Microbes</i>		
08:30 - 10:10		Parallel 6 C4
<b>Gases in inland waters: production, accumulation, and emission</b>		
<i>Chair: Zhe Li, CN</i>		
<i>Chair: Mina Bizic, DE</i>		
<i>Chair: Bertram Boehrer, DE</i>		
<i>Chair: Yves Prairie, CA</i>		
<i>Chair: Hans-Peter Grossart, DE</i>		
	<b>Introduction</b>	08:30 - 08:32
ON065	<b>Creating high Temperature Noble Gas Solubility Functions to analyse missing Noble Gases in Lake Kivu's deep Water</b> <i>Presenter: Cornelis Schwenk, DE</i>	08:32 - 08:44
ON066	<b>CO<sub>2</sub> fluxes in a large perialpine lake: the role of near-surface stratification, circulation and biological activity disentangled by microstructure profiles</b> <i>Presenter: Sebastiano Piccolroaz, IT</i>	08:44 - 08:56
ON068	<b>Extreme gas pressures in lakes - from Guadiana Pit Lake (Spain) to Lake Kivu (Rwanda / DR Congo)</b> <i>Presenter: Bertram Boehrer, DE</i>	08:56 - 09:08
ON069	<b>From alkalinity to CO<sub>2</sub>: the forgotten half of lakes'</b>	09:08 - 09:20

	<b>carbon cycle</b>	
	<i>Presenter: Marie-Elodie Perga, CH</i>	
ON070	<b>Carbon dioxide dynamics in a boreal forest ditch affected by clear-cut forestry</b>	09:20 - 09:32
	<i>Presenter: Alberto Zannella, SE</i>	
ON071	<b>Long-term epilimnetic CO<sub>2</sub> dynamics in a temperate polymictic eutrophic lake and its relationship with (a)biotic variation</b>	09:32 - 09:44
	<i>Presenter: Mandy Velthuis, NL</i>	
ON072	<b>Small-scale heterogeneity of diel carbon dioxide patterns and the consequences for estimating emissions in pre-alpine streams</b>	09:44 - 09:56
	<i>Presenter: Katrin Attermeyer, AT</i>	
OR029	<b>Ecological drivers of ghg emissions in the Central Anatolian saline lakes based on a field study and mesocosm experiments (recorded presentation)</b>	09:56 - 10:08
	<i>Presenter: Gültekin Yılmaz, TR</i>	
	<b>Closing Remarks</b>	10:08 - 10:10
<i>Stressors</i>		
08:30 - 10:10		Parallel 7 A4
	<b>Plastics in inland waters: pathways and impact</b>	
	<i>Chair: Katrin Wendt-Potthoff, DE</i>	
	<i>Chair: Martin Blettler, AR</i>	
	<b>Introduction</b>	08:30 - 08:32
ON105	<b>Microplastic variability in subsurface waters of a deep perialpine lake (Lake Lugano, CH-IT)</b>	08:32 - 08:44
	<i>Presenter: Federica Rotta, CH</i>	
ON106	<b>(Temporal) sinks of microplastics in freshwaters and implications for biota</b>	08:44 - 08:56
	<i>Presenter: Friederike Gabel, DE</i>	
ON107	<b>Burial of microplastics in freshwater sediments facilitated by limnic aggregates</b>	08:56 - 09:08
	<i>Presenter: Rico Leiser, DE</i>	
ON108	<b>Fate, uptake and effects of plastic nanoparticles when entering wetland mesocosms</b>	09:08 - 09:20
	<i>Presenter: Franca Stábile, SE</i>	
ON109	<b>Microplastic burden in <i>Daphnia</i> is aggravated by elevated temperatures</b>	09:20 - 09:32
	<i>Presenter: Nadine Hoffschroer, DE</i>	
ON110	<b>Microplastic particle characteristics influence impacts on organisms, communities and ecosystem processes</b>	09:32 - 09:44
	<i>Presenter: Ze Hui Kong, SE</i>	

ON111	<b>Bacterial and microalgae colonization of microplastics: composition and function in a eutrophic lake (Lake Lugano, Switzerland)</b> <i>Presenter: Camilla Capelli, CH</i>	09:44 - 09:56
ON112	<b>Nanoplastics modulate the outcome of plankton-microparasite interactions</b> <i>Presenter: Justyna Wolinska, DE</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10
<i>Coffee Break</i> 10:10 - 10:40		Plenary Room Berlin 3-6 Live Streamed!
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 2 Berlin 1
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 3 Berlin 2
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 4 A1
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 5 B5
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 6 C4
<b>Coffee Break</b>		
<i>Coffee Break</i> 10:10 - 10:40		Parallel 7 A4
<b>Coffee Break</b>		
<i>Biodiversity and ecosystem functioning</i> 10:40 - 12:20		Plenary Room Berlin 3-6 Live Streamed!
<b>Biodiversity, community assembly and functioning in plankton communities</b>		
<i>Chair: Andras Abonyi, AT</i>		
<i>Chair: Evangelia Smeti, GR</i>		
<i>Chair: Jana Isanta-Navarro, US</i>		
<i>Chair: Robert Ptacnik, AT</i>		
<i>Chair: Maria Stockenreiter, DE</i>		
	<b>Introduction</b>	10:40 - 10:42
ON224	<b>Priority effects in aquatic systems</b>	10:42 - 10:54

	<i>Presenter: Luc De Meester, DE</i>	
ON225	<b>How can we distinguish species sorting and physiological plasticity in a multifactor environment?</b> <i>Presenter: Vanessa Marzetz, DE</i>	10:54 - 11:06
ON226	<b>Measuring the contribution of evolution to community trait structure in freshwater zooplankton</b> <i>Presenter: Lynn Govaert, DE</i>	11:06 - 11:18
ON227	<b>Environmental stoichiometry mediates phytoplankton diversity effects on communities' resource use efficiency and biomass</b> <i>Presenter: Maren Striebel, DE</i>	11:18 - 11:30
ON228	<b>Can space-for-time-substitution surveys represent zooplankton biodiversity patterns and their relationship to environmental drivers?</b> <i>Presenter: Jason Stockwell, US</i>	11:30 - 11:42
ON229	<b>Species dominance does not predict species-specific contribution to ecological stability</b> <i>Presenter: Charlotte Kunze, DE</i>	11:42 - 11:54
ON230	<b>The conflict between the positive diversity-functioning and the positive dominance-functioning relationships in natural phytoplankton communities</b> <i>Presenter: Andras Abonyi, AT</i>	11:54 - 12:06
ON231	<b>Identifying active and non-active phytoplankton taxa based on co-occurrence network analysis</b> <i>Presenter: András Hidas, AT</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20
<i>Ecosystem linkages</i> 10:40 - 12:20		Parallel 2 Berlin 1
<b>Connectivity of aquatic ecosystems</b>		
<i>Chair: Stella Berger, DE</i>		
<i>Chair: Sabine Wollrab, DE</i>		
	<b>Introduction</b>	10:40 - 10:42
ON256	<b>Ignorance of the connectivity between inland waters and surrounding landscapes results in overestimated continental carbon sink and failed climate mitigation</b> <i>Presenter: Lars Tranvik, SE</i>	10:42 - 10:54
ON257	<b>Linking spatial patterns of DOM molecules and microbial taxa along a boreal terrestrial-aquatic continuum</b> <i>Presenter: Masumi Stadler, CA</i>	10:54 - 11:06
ON258	<b>Connectivity controls on nitrate dynamics in stream-lake networks</b>	11:06 - 11:18

	<i>Presenter:</i> Imke Grefe, GB	
ON259	<b>Transport of nutrients and phytoplankton biomass along river-connected lake systems</b> <i>Presenter:</i> Sabine Wollrab, DE	11:18 - 11:30
ON260	<b>(In)Coherence? - analyzing lake-to-lake coherence using high-frequency data from a multi-lake study with varied connectivity</b> <i>Presenter:</i> Andreas Jechow, DE	11:30 - 11:42
ON261	<b>Wetlands as a dual functioning tool for reduction of nutrients, water colour and total organic carbon</b> <i>Presenter:</i> Anna Borgström, SE	11:42 - 11:54
ON262	<b>On endangered turtles and “ghost ponds” and how to bring them back to life</b> <i>Presenter:</i> Pedro Segurado, PT	11:54 - 12:06
ON263	<b>The potential impacts of low-head barriers on aquatic biota in Irish rivers - insights from the Reconnect project</b> <i>Presenter:</i> Mary Kelly-Quinn, IE	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Biodiversity and ecosystem functioning*  
10:40 - 12:20

Parallel 3 Berlin 2

**Ecology and conservation of temporary aquatic ecosystems**

*Chair:* Luciana Barbosa, BR

*Chair:* Rachel Stubbington, GB

*Chair:* Manuela Moraes, PT

*Chair:* Carlos Lopez, EC

	<b>Introduction</b>	10:40 - 10:42
ON232	<b>Trends in limnological research in world’s drylands: a scientometric review</b> <i>Presenter:</i> Luciana Barbosa, BR	10:42 - 10:54
ON233	<b>Artificial ditches support populations of rare insects in temporary streams</b> <i>Presenter:</i> Kieran Gething, GB	10:54 - 11:06
ON236	<b>How do macroinvertebrates use aquatic refuges when the flow disappears?</b> <i>Presenter:</i> Aida Viza, ES	11:06 - 11:18
ON237	<b>Resistance and resilience traits to drying from rivers in Europe</b> <i>Presenter:</i> Luka Polović, HR	11:18 - 11:30
ON238	<b>Inundated dense <i>Tamarix</i> forests: a unique lake habitat</b> <i>Presenter:</i> Tamar Zohary, IL	11:30 - 11:42

ON239	<b>Pool-to-flow alternation and inter-basin water transfer determine functional responses of invertebrates in intermittent rivers</b> <i>Presenter: José Francisco Goncalves Jr, BR</i>	11:42 - 11:54
ON234	<b>The terrestrial and semi-aquatic invertebrates of intermittent rivers and ephemeral streams (recorded presentation)</b> <i>Presenter: Alisha Steward, AU</i>	11:54 - 12:06
ON235	<b>Spatial scale and dispersal modes of taxa modulate the relative contributions of environment, space and time in shaping rock-pool invertebrate communities (recorded presentation)</b> <i>Presenter: Mihir Kulkarni, IN</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Biogeochemistry and Microbes*  
10:40 - 12:20

Parallel 4 A1

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

*Chair: Xuexiu Chang, CN*

*Chair: Rainer Kurmayer, AT*

	<b>Introduction</b>	10:40 - 10:42
ON240	<b>Loss and erosion of microcystin genes in non-microcystin producing <i>Microcystis botrys</i></b> <i>Presenter: Karin Rengefors, SE</i>	10:42 - 10:54
ON241	<b>Localization and duration of the synthesis of chemically-modified microcystins/bioactive peptides in the bloom-forming cyanobacteria <i>Microcystis aeruginosa</i> and <i>Planktothrix agardhii</i></b> <i>Presenter: Rubén Morón Asensio, AT</i>	10:54 - 11:06
ON242	<b>A monitoring system for cyanobacteria in Austrian bathing waters via amplicon sequencing</b> <i>Presenter: Magdalena Purker, AT</i>	11:06 - 11:18
ON243	<b>Comparative metabolites and ecotoxicities of toxigenic and non-toxigenic <i>Microcystis aeruginosa</i> strains</b> <i>Presenter: Xuexiu Chang, CN</i>	11:18 - 11:30
ON244	<b>Genomic distribution of mobile elements among the bloom-forming cyanobacteria <i>Planktothrix</i> spp</b> <i>Presenter: Rainer Kurmayer, AT</i>	11:30 - 11:42
ON245	<b>Molecular analysis reveals changes in species composition, explaining a reduction in <i>Microcystis</i> bloom toxicity in response to an increase in lake water temperature</b> <i>Presenter: Shira Ninio, IL</i>	11:42 - 11:54



ON246	<b>Mobilomics of toxic/bioactive peptide production in the bloom-forming cyanobacterium <i>Planktothrix</i></b> <i>Presenter: Elisabeth Entfellner, AT</i>	11:54 - 12:06
ON247	<b>Identification of potential neuro-toxins and development of adverse outcome pathways associated with cyanobacterial exudates (recorded presentation)</b> <i>Presenter: Yuanyan Zi, CN</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Inland waters and Society*  
10:40 - 12:20

Parallel 5 B5

**Sustainable freshwater management in the 21st century**

*Chair: Sandra Poikane, IT*  
*Chair: Ken Irvine, NL*  
*Chair: Bryan Spears, GB*  
*Chair: Stuart Warner, IE*

	<b>Introduction</b>	10:40 - 10:42
ON264	<b>Defining water quality targets for UN Sustainable Development Goals and European water policy</b> <i>Presenter: Sandra Poikane, IT</i>	10:42 - 10:54
ON094	<b>New management strategies that make reservoirs more resilient against climate change</b> <i>Presenter: Karsten Rinke, DE</i>	10:54 - 11:06
ON266	<b>Methods used to set management objectives for nutrients - a comparison of European national approaches</b> <i>Presenter: Julian Mönnich, DE</i>	11:06 - 11:18
ON267	<b>Smart Nutrient Retention Networks: a 21st Century approach for nutrient conservation through water quality management</b> <i>Presenter: Dianneke van Wijk, NL</i>	11:18 - 11:30
ON268	<b>Sudden eutrophication in a German drinking water reservoir after 20 years of stable mesotrophic state and good water quality</b> <i>Presenter: Taynara de Souza Fernandes, DE</i>	11:30 - 11:42
ON269	<b>Whole lake Phoslock application to manage eutrophication</b> <i>Presenter: Maíra Mucci, NL</i>	11:42 - 11:54
ON270	<b>Lake Runstedt - an artificial lake for treating polluted water and protecting groundwater</b> <i>Presenter: Martin Schultze, DE</i>	11:54 - 12:06
ON271	<b>A report on the global survey of lake restoration in practice</b>	12:06 - 12:18

Presenter: Bryan Spears, GB

**Closing Remarks** 12:18 - 12:20

*Biogeochemistry and Microbes*

10:40 - 12:20

Parallel 6 C4

**Gases in inland waters: production, accumulation, and emission**

Chair: Zhe Li, CN

Chair: Mina Bizic, DE

Chair: Bertram Boehrer, DE

Chair: Yves Prairie, CA

Chair: Hans-Peter Grossart, DE

**Introduction** 10:40 - 10:42

ON248 **Effect of warming and nutrient enrichment on nitrous oxide emissions from shallow lakes mesocosms** 10:42 - 10:54

Presenter: Joachim Audet, DK

ON249 **Oxygen depletion in lakes' hypolimnia: anoxic age is a new tool to predict anoxia's biogeochemical consequences** 10:54 - 11:06

Presenter: Richard LaBrie, DE

ON250 **Chironomid reduction alters carbon cycling in ponds** 11:06 - 11:18

Presenter: Caroline Ganglo, DE

OR095 **Antibiotics increase methane production in freshwater sediments: Potential for climate change feedback, adaptation, and resistance** 11:18 - 11:30

Presenter: Eric Bollinger, DE

ON252 **Simulating natural ebullition patterns and bubble-mediated transport of solutes and particles in the lab** 11:30 - 11:42

Presenter: Michael Schwarz, DE

ON253 **Aerobic methanotrophy in lakes: significance to whole-lake microbial metabolism and fluxes** 11:42 - 11:54

Presenter: Paula Reis, CA

ON254 **Mutual Support of Cyanobacteria and Methane Oxidizing Bacteria: Linking Methane Oxidation to Cyanobacterial Growth** 11:54 - 12:06

Presenter: Slawek Cerbin, PL

ON255 **Relief of phosphate limitation stimulates methane oxidation** 12:06 - 12:18

Presenter: Thomas P.A. Nijman, NL

**Closing Remarks** 12:18 - 12:20

Stressors

10:40 - 12:20

Parallel 7 A4

**Plastics in inland waters: pathways and impact**

Chair: Katrin Wendt-Potthoff, DE

Chair: Martin Blettler, AR

	<b>Introduction</b>	10:40 - 10:42
ON272	<b>Microplastics mass distribution in German dams and reservoirs</b> <i>Presenter: Katrin Wendt-Potthoff, DE</i>	10:42 - 10:54
ON273	<b>A standardized method for the analysis of microplastics in lake environments</b> <i>Presenter: Giulia Candian, IT</i>	10:54 - 11:06
ON274	<b>Evidence of microplastic pollution in Croatian rivers</b> <i>Presenter: Katarina A. Cetinić, HR</i>	11:06 - 11:18
ON275	<b>Microplastic Quantification in Nissan and Lagan River Systems in Shore and Bottom Sediments</b> <i>Presenter: Matyas Baan, SE</i>	11:18 - 11:30
ON276	<b>Effects of biofilm growth on microplastic settling velocity, and implications for microplastic transport in lakes</b> <i>Presenter: Patricia Semcesen, CA</i>	11:30 - 11:42
ON277	<b>Microplastics effect on microbial organic matter degradation in peat-forming wetlands (recorded presentation)</b> <i>Presenter: Juanita Mora-Gomez, FR</i>	11:42 - 11:54
ON278	<b>Effect of temperature on the survivorship and fecundity of <i>Moina macrocopa</i> (Cladocera) exposed to microplastics (recorded presentation)</b> <i>Presenter: Mayra Carolina Reyes-Santillán, MX</i>	11:54 - 12:06
ON279	<b>Exposure of Plastic Nanoparticles to Freshwater Picocyanobacteria <i>Synechococcus</i> (recorded presentation)</b> <i>Presenter: Nigarsan Kokilathanan, CA</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

Lunch Break

12:20 - 13:50

Plenary Room Berlin 3-6 Live Streamed!

**Lunch Break**

Lunch Break

12:20 - 13:50

Parallel 2 Berlin 1

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 3 Berlin 2

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 4 A1

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 5 B5

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 6 C4

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 7 A4

**Lunch Break**

Networking Activities and Assemblies  
12:30 - 13:50

Parallel 6 C4

**SIL Inland Waters Editorial Board Meeting**

Plenary lectures  
13:50 - 14:35

Plenary Room Berlin 3-6 Live Streamed!

**Plenary Lecture Tamlin Pavelsky**

Chair: Lars Tranvik, SE

**From Secchi disks to satellites**

13:50 - 13:50

Speaker: Tamlin Pavelsky, US

Plenary lectures  
14:35 - 15:20

Plenary Room Berlin 3-6 Live Streamed!

**Plenary Lecture Amy Rosemond**

Chair: Markus Weitere, DE

**Ecological surprises and insights from large-scale  
stream experiments**

14:35 - 14:35

Speaker: Amy D. Rosemond, US

Coffee Break  
15:20 - 15:50

Plenary Room Berlin 3-6 Live Streamed!

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 2 Berlin 1

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 3 Berlin 2

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 4 A1

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 5 B5

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 6 C4

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 7 A4

**Coffee Break**

*Biodiversity and ecosystem functioning*  
15:50 - 17:30

Plenary Room Berlin 3-6 Live Streamed!

**Biodiversity, community assembly and functioning in plankton communities**

*Chair:* Andras Abonyi, AT

*Chair:* Evangelia Smeti, GR

*Chair:* Jana Isanta-Navarro, US

*Chair:* Robert Ptacnik, AT

*Chair:* Maria Stockenreiter, DE

**Introduction**

15:50 - 15:52

ON392

**Theoretical implications on the energetic role of parasites and its benefits for the ecosystem**

15:52 - 16:04

*Presenter:* Patch Thongthaisong, DE

ON393

**Eco-Evolutionary dynamics considering incompatible defence with respect to size dependent adaptation of prey against predators and parasites**

16:04 - 16:16

*Presenter:* Minoru Kasada, DE

ON394

**Morphological defenses of *Daphnia* species within the *Daphnia longispina* species complex to coexisting invertebrate predators**

16:16 - 16:28

*Presenter:* Marjohn Baludo, DE

ON395

**Predator mediated feedback effects in natural plankton communities**

16:28 - 16:40

*Presenter:* Maria Stockenreiter, DE

ON396

**Climatic features or vegetation structure? Which of these factors is more decisive for phytoplankton communities in temperate lakes?**

16:40 - 16:52

*Presenter:* Mariusz Pełechaty, PL

ON397	<b>How nitrogen and phosphorus supply to nutrient-limited phytoplankton communities affects zooplankton growth: testing stoichiometric and co-limitation theory across trophic levels</b> <i>Presenter: Andrea Redoglio, DE</i>	16:52 - 17:04
ON398	<b>Kairomone diversity in fish-induced phenotypic plasticity of <i>Daphnia lumholtzi</i></b> <i>Presenter: Kathrin Otte, DE</i>	17:04 - 17:16
ON399	<b>Natural phytoplankton trait diversity affects intraspecific competition in <i>Daphnia</i>- The role of essential dietary fatty acids</b> <i>Presenter: Maja Ilić, CH</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Ecosystem linkages*  
15:50 - 17:30

Parallel 2 Berlin 1

**Connectivity of aquatic ecosystems**

*Chair: Stella Berger, DE*

*Chair: Sabine Wollrab, DE*

	<b>Introduction</b>	15:50 - 15:52
ON408	<b>Trophic transfer efficiency and land-water coupling - a conceptual contribution</b> <i>Presenter: Thomas Mehner, DE</i>	15:52 - 16:04
ON410	<b>Landscape determinants of benthic and pelagic primary production in northern lakes</b> <i>Presenter: Isolde Callisto Puts, SE</i>	16:04 - 16:16
ON411	<b>River network connectivity - An overarching approach</b> <i>Presenter: Paulo Branco, PT</i>	16:16 - 16:28
ON412	<b>The effect of riparian forest on landscape connectivity for the EPT community across European biogeographical regions</b> <i>Presenter: Andrés Peredo Arce, PT</i>	16:28 - 16:40
ON413	<b>Restored river-floodplain connectivity promotes woody plant establishment</b> <i>Presenter: Sarah Fischer, DE</i>	16:40 - 16:52
ON414	<b>Empirical modelling of longitudinal dispersion in German waterways</b> <i>Presenter: Annika Linkhorst, DE</i>	16:52 - 17:04
ON415	<b>Different forms of carbon, nitrogen, and phosphorus influence ecosystem stoichiometry in a north temperate river across seasons and land uses</b> <i>Presenter: Stéphanie Shousha, CA</i>	17:04 - 17:16
	<b>Closing Remarks</b>	17:16 - 17:18

Stressors

15:50 - 17:30

Parallel 3 Berlin 2

**The future of small water bodies in the context of global change**

Chair: Pieter Lemmens, BE

Chair: Biljana Rimcheska, BG

Chair: Lena Fehlinger, AT

Chair: Sandra Brucet, ES

	<b>Introduction</b>	15:50 - 15:52
ON440	<b>Distribution patterns on multiple spatial scales reveal reproductive isolation and frequent syntopy among highly divergent lineages of the <i>Gammarus fossarum</i> species complex in the Western Carpathians</b> <i>Presenter: Pavel Karel Bystřický, CZ</i>	15:52 - 16:04
ON441	<b>The effect of forest management and connectivity loss on water-filled tree hole communities</b> <i>Presenter: Barbara Barta, HU</i>	16:04 - 16:16
ON442		16:16 - 16:28
	<b>Connection to nature as a motivator to participation in citizen science within the communities of an Irish river catchment</b>  <i>Presenter: Donna Weiner, IE</i>	
ON443	<b>Characterising the nature and source of nutrient impairment in small streams in Ireland</b> <i>Presenter: Sinead C. Hogan, IE</i>	16:28 - 16:40
ON444	<b>Lipid export from water to land: Results from the pan-European project EUROPONDS</b> <i>Presenter: Ellinor Jakobsson, SE</i>	16:40 - 16:52
ON445	<b>Interactive effects of global change and potential adaptation in freshwater zooplankton</b> <i>Presenter: Lana Ramaekers, BE</i>	16:52 - 17:04
ON446	<b>Salinity affects freshwater invertebrate traits</b> <i>Presenter: Manuela Abelho, PT</i>	17:04 - 17:16
ON447	<b>Accumulation of carotenoids as an adaptation to extreme environments in calanoids from temporary Antarctic ponds on Livingston Island (Maritime Antarctica)</b> <i>Presenter: Vesela Evtimova, BG</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Inland waters and Society*  
15:50 - 17:30

Parallel 4 A1

**Climate impacts of human-made freshwater systems**

*Chair:* Renske Vroom, NL

*Chair:* Sarian Kosten, NL

	<b>Introduction</b>	15:50 - 15:52
ON425	<b>Greenhouse gas exchange from artificial water bodies that dominate Central Germany</b> <i>Presenter:</i> Eric Röder, DE	15:52 - 16:04
ON426	<b>The carbon footprint of tropical hydropower is related to reservoir productivity and flooded land area</b> <i>Presenter:</i> Sebastian Sobek, SE	16:04 - 16:16
ON429	<b>Salinization decreases methane emissions: short versus long-term effects</b> <i>Presenter:</i> Sarian Kosten, NL	16:16 - 16:28
ON430	<b>Footprint concept largely disregards impacts of food production on fresh waters</b> <i>Presenter:</i> Mariana Meerhoff, UY	16:28 - 16:40
ON431	<b>Climate change impact on Estonian lakes</b> <i>Presenter:</i> Alo Laas, EE	16:40 - 16:52
ON428	<b>Quantification and mitigation of greenhouse gas emissions from dredged sediments: effects of inundation and zeolite additions (recorded presentation)</b> <i>Presenter:</i> José R. Paranaíba, NL	16:52 - 17:04
ON427	<b>Assessing the effects of climate warming on an urban tropical reservoir (recorded presentation)</b> <i>Presenter:</i> Zati Sharip, MY	17:04 - 17:16
ON424	<b>The full carbon balance of an urban pond (recorded presentation)</b> <i>Presenter:</i> Mike Peacock, SE	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Inland waters and Society*  
15:50 - 17:30

Parallel 5 B5

**Sustainable freshwater management in the 21st century**

*Chair:* Sandra Poikane, IT

*Chair:* Ken Irvine, NL

*Chair:* Bryan Spears, GB

*Chair:* Stuart Warner, IE

	<b>Introduction</b>	15:50 - 15:52
ON432	<b>Evaluation of European wastewater treatment plants' effluents under the future global changes : Towards</b>	15:52 - 16:04



	<b>minimizing ecological risks for river aquatic ecosystems</b>	
	<i>Presenter:</i> Soohyun Yang, DE	
ON433	<b>Pesticides in surface waters: A European perspective</b>	16:04 - 16:16
	<i>Presenter:</i> Jeanette Völker, DE	
ON434	<b>Nature contributions to people and their values as a tool to implement participatory water monitoring</b>	16:16 - 16:28
	<i>Presenter:</i> Mauricio Sánchez-Martínez, MX	
ON435	<b>Solutions for existing and future challenges in water governance</b>	16:28 - 16:40
	<i>Presenter:</i> Faluku Nakulopa, DE	
ON436	<b>Institutionalizing participatory water monitoring in Mexico</b>	16:40 - 16:52
	<i>Presenter:</i> Melanie Kolb, MX	
ON437	<b>Cluster analysis reveals hidden community interests to inform a collaborative management plan for Blueskin Bay estuary in Aotearoa New Zealand</b>	16:52 - 17:04
	<i>Presenter:</i> Simone Daniela Langhans, DK	
ON438	<b>Heavy Metals in the Crocodile River (West) System, South Africa following acid mine drainage</b>	17:04 - 17:16
	<i>Presenter:</i> Jakob Windisch, AT	
ON439	<b>Raising the standards of limnological research and monitoring in the Philippines: The UST ZESL experience</b>	17:16 - 17:28
	<i>Presenter:</i> Rey Donne Papa, PH	
	<b>Closing Remarks</b>	17:28 - 17:30

*Biogeochemistry and Microbes*  
15:50 - 17:30

Parallel 6 C4

**Dynamics of dissolved and particulate organic matter in inland waters**

*Chair:* Katrin Attermeyer, AT

*Chair:* Scott D. Tiegs, US

*Chair:* Maximilian Lau, DE

*Chair:* M. Eric Benbow, US

*Chair:* Gwendoline M. David, DE

*Chair:* Mark O. Gessner, DE

	<b>Introduction</b>	15:50 - 15:52
ON400	<b>Cations as promoters of the self-assembly of dissolved organic matter into particles in lakes</b>	15:52 - 16:04
	<i>Presenter:</i> Ignacio Peralta-Maraver, ES	
ON401	<b>Iron as a precursor of aggregation and a vector of organic carbon to the sediment</b>	16:04 - 16:16
	<i>Presenter:</i> Emma Kritzberg, SE	

ON402	<b>Adsorption of dissolved organic matter in inland waters: effects on composition and reactivity</b> <i>Presenter: Marloes Groeneveld, SE</i>	16:16 - 16:28
ON403	<b>Riverine dissolved organic matter responds differently to flow alterations in two hydrological regimes from Northern Spain</b> <i>Presenter: Selin Kubilay, AT</i>	16:28 - 16:40
ON404	<b>Carbon and microbial dynamics along the salinity gradient of the Elbe Estuary</b> <i>Presenter: Sven Tobias-Hünefeldt, DE</i>	16:40 - 16:52
ON405	<b>Effects of salinization, temperature rise and low flow on leaf litter decomposition in small experimental stream channels</b> <i>Presenter: Gwendoline M. David, DE</i>	16:52 - 17:04
ON406	<b>Leaf litter from banana plantations slows down the decomposition of native leaves but does not influence the invertebrate assemblages</b> <i>Presenter: Marcos Ferraz, BR</i>	17:04 - 17:16
ON407	<b>Dendritic network location mediates detritivore community structure and associated processing of leaf litter in a riverine ecosystem</b> <i>Presenter: Christopher Swan, US</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

*Ecosystem linkages*  
15:50 - 17:30

Parallel 7 A4

**Land-use impacts and other stressors on freshwater ecosystems**

*Chair: Daniel Perkins, GB*

*Chair: Matthias Liess, DE*

*Chair: Noël Juvigny-Khenafou, DE*

*Chair: Victor Saito, BR*

*Chair: Pavel Kratina, GB*

	<b>Introduction</b>	15:50 - 15:52
ON416	<b>Stress response of populations and their ability to meet additional threats</b> <i>Presenter: Matthias Liess, DE</i>	15:52 - 16:04
ON417	<b>Sex, Death and Food: How <i>Daphnia</i> manage multiple threats in a landscape of fear</b> <i>Presenter: Marcus Lee, SE</i>	16:04 - 16:16
ON418	<b>Defence Index: a framework to simplify studies on complex defence strategies</b> <i>Presenter: Marvin Kiene, DE</i>	16:16 - 16:28
ON419	<b>Advancing our understanding of the temporal dynamics of stressor pulses - when does the order of</b>	16:28 - 16:40

	<b>exposure matter?</b> <i>Presenter: Sam Macaulay, GB</i>	
ON420	<b>Adaptation to pesticides and associated fitness costs under single and multi-stress conditions</b> <i>Presenter: Ayesha Siddique, DE</i>	16:40 - 16:52
ON421	<b>Land-use changes systematically alter the size structure of tropical aquatic communities</b> <i>Presenter: Victor Saito, BR</i>	16:52 - 17:04
ON422	<b>Land use drives detritivore size structure and decomposition through changes in resource quality and quantity</b> <i>Presenter: Aitor Larrañaga, ES</i>	17:04 - 17:16
ON423	<b>Asymmetry drives the cumulative impacts of multiple stressors on freshwater ecosystems (recorded presentation)</b> <i>Presenter: Michelle Jackson, GB</i>	17:16 - 17:28
	<b>Closing Remarks</b>	17:28 - 17:30

## Wednesday, 10. August 2022

ePosters

08:00 - 17:30

Poster Area C2, C3

### ePosters on Demand

ePosters

08:00 - 17:30

Poster Area C2, C3

### Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems

- |       |   |               |
|-------|---|---------------|
| EP024 | <b>The effect of drought on bottom fauna succession in streams in primeval forest, North Eastern Poland</b><br><i>Presenter: Jacek Koszałka, PL</i>   | 08:00 - 08:00 |
| EP025 | <b>Changes in catchment modifies alpine lakes heat budget</b><br><i>Presenter: Isabel Herr, CH</i>  | 08:00 - 08:00 |
| EP026 | <b>Do chrysophyte cysts reflect the changes in meteorological conditions? A case study from northeastern Poland</b><br><i>Presenter: Agnieszka Szczerba, PL</i>   | 08:00 - 08:00 |
| EP027 | <b>Effects of changes in meteorological/environmental conditions on diatom deposition and taxonomic structure in lakes Łazduny and Rzęśniki, northeast Poland</b><br><i>Presenter: Agnieszka Szczerba, PL</i> | 08:00 - 08:00 |
| EP028 | <b>Impact of climate change on the water column anoxia in a small urban lake</b><br><i>Presenter: Brigitte Vinçon Leite, FR</i>   | 08:00 - 08:00 |
| EP029 | <b>Římov Reservoir dataset - the family silver of the Czech long-term limnological research</b><br><i>Presenter: Petr Znachor, CZ</i>   | 08:00 - 08:00 |
| EP030 | <b>Temperature-mediated diet preference in the invasive crustacean <i>Limnomysis benedeni</i></b><br><i>Presenter: Varsha Rani, HU</i>  | 08:00 - 08:00 |
| EP031 | <b>Cyanobacterial blooms like it hot - or not</b><br><i>Presenter: Sandra Rabow, SE</i>   | 08:00 - 08:00 |
| EP032 | <b>Does solar activity affect the dynamics of cyanobacteria community worldwide and how?</b><br><i>Presenter: Gaël Dur, JP</i>  | 08:00 - 08:00 |
| EP033 | <b>Compiling and harmonizing thermal tolerance data to assess variability within species and across organism groups, size, and phylogeny</b><br><i>Presenter: Helena Soraya Bayat, DE</i>                     | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Sustainable freshwater management in the 21st century**

- |       |  |               |
|-------|--|---------------|
| EP107 | <b>Water quality evaluation and environmental awareness: a case study of European and Brazilian rivers</b><br><i>Presenter:</i> Camila Pimenta, HU   | 08:00 - 08:00 |
| EP108 | <b>Degradation of charophytes in a mesotrophic lake and attribution to herbicide application in sub-catchments</b><br><i>Presenter:</i> Christiane Krambeck, DE  | 08:00 - 08:00 |
| EP109 | <b>Attempts to develop a non-invasive method of phosphorus removal from eutrophic lakes</b><br><i>Presenter:</i> Agnieszka Bańkowska-Sobczak, PL   | 08:00 - 08:00 |
| EP111 | <b>The Future of the River Network Toolkit (RivTool)</b><br><i>Presenter:</i> Gonçalo Duarte, PT   | 08:00 - 08:00 |
| EP112 | <b>Nitrate treatment as a tool for lake restoration in agricultural watersheds</b><br><i>Presenter:</i> Renata Dondajewska-Pielka, PL  | 08:00 - 08:00 |
| EP113 | <b>Historical changes of the dissolved silicate supply and its effects on benthic animals in a tidal flat ecosystem</b><br><i>Presenter:</i> Megumu Fujibayashi, JP  | 08:00 - 08:00 |
| EP114 | <b>Chemical precipitation of phosphorus with polyaluminium chloride: water quality development five and twenty years after treatment in two eutrophicated lakes</b><br><i>Presenter:</i> Jouko Sarvala, FI | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Using aquatic mesocosms for ecosystem studies, environmental engineering and nature-based solutions to experimentally tackle ecosystem grand challenges**

- |       |   |               |
|-------|---|---------------|
| EP179 | <b>Next-generation sequencing for studying spatio-temporal composition of phytoplankton communities in thermally stratified mesocosms</b><br><i>Presenter:</i> Ayagoz Meirkhanova, KZ | 08:00 - 08:00 |
| EP180 | <b>Using UV-fluorescence fingerprints to assess lake browning effects</b><br><i>Presenter:</i> Nicolas Clercin, FR  | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Urban inland waters - hotspots of global change**

- |       |  |               |
|-------|--|---------------|
| EP049 | <b>The effects of road crossings on stream</b> | 08:00 - 08:00 |
|-------|--|---------------|

**macroinvertebrate diversity**

*Presenter:* Blanka Gál, HU

- EP050      **The former lakes of Valley of Mexico, a retrospective study from Alexander von Humboldt to the present**      08:00 - 08:00  
*Presenter:* Eugenia López-López, MX

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

- EP126      **Transcriptomic responses of the blooming cyanobacteria *Microcystis aeruginosa* against PAC: Implications for ecological adaptation**      08:00 - 08:00  
*Presenter:* Eun-Jeong Kim, KR
- EP127      ***Planktothrix agardhii* Bloom in Yahuarcocha lake - Ecuador**      08:00 - 08:00  
*Presenter:* María de Lourdes Guerra C., ES
- EP128      **Transfer of microcystins in the food chain - a case study in Lake Mindelsee, Germany**      08:00 - 08:00  
*Presenter:* Eva Riehle, DE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

- EP120      **Remote Quantification of the Turbidity of Chinese Lakes (>1 km<sup>2</sup>)**      08:00 - 08:00  
*Presenter:* Sijia Li, CN
- EP121      **S-Oases: An open-source database on the environmental and cultural state and future development of oases globally**      08:00 - 08:00  
*Presenter:* Juan Antonio Hernández-Agüero, DE
- EP122      **Lake surface water temperature is a good indicator to evaluate the warmer trend in ice-covered lakes in Tibetan plateau?**      08:00 - 08:00  
*Presenter:* Xin Zhang, CN
- EP123      **Ecological status of Tunisia's coastal lagoons using remote sensing**      08:00 - 08:00  
*Presenter:* Rebeca Pérez-González, ES
- EP124      **An integrated monitoring and modelling system for the shallow subtropical Ypacaraí Lake (Paraguay)**      08:00 - 08:00  
*Presenter:* Gregorio Alejandro López Moreira Mazacotte, PY

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**The future of small water bodies in the context of global change**

EP115	<b>Microcystin-LR accumulation in fish and agricultural crops: implications on public health</b> <i>Presenter: Cesar Alejandro Zamora Barrios, MX</i>	08:00 - 08:00
EP116	<b>The effect of land use intensity on pond biodiversity and GHG emissions</b> <i>Presenter: Robby Wijns, BE</i>	08:00 - 08:00
EP117	<b>Preliminary study on isotopic niches of freshwater planktonic crustaceans in three lakes functioning under different thermal regimes</b> <i>Presenter: Wojciech Krztoń, PL</i>	08:00 - 08:00
EP118	<b>The effect of buffer strip size on the ecological state of small ponds in agricultural areas in Belgium and Germany</b> <i>Presenter: Louisa-Marie von Plüskow, BE</i>	08:00 - 08:00
EP119	<b>Pioneer temporary moraine ponds: a specific freshwater habitat in Maritime Antarctica</b> <i>Presenter: Vesela Evtimova, BG</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

EP102	<b>Holocene ecosystem development as recorded from benthic cladocerans in Laguna de Río Seco (Sierra Nevada, S Spain)</b> <i>Presenter: Charo López-Blanco, ES</i>	08:00 - 08:00
EP103	<b>The challenge of finding a metabarcoding region for cladocerans in sedimentary DNA</b> <i>Presenter: Charo López-Blanco, ES</i>	08:00 - 08:00
EP104	<b>Evolutionary Adaptation of Arctic Daphnia to Environmental Change</b> <i>Presenter: Athina Karapli Petritsopoulou, DE</i>	08:00 - 08:00
EP105	<b>Potential of waterbird environmental DNA to investigate ecosystem changes in Lake Constance and surroundings</b> <i>Presenter: Rebecca Kühner, DE</i>	08:00 - 08:00
EP106	<b>Climatic and human induced vegetational changes recovered by sedaDNA from Lake Tiefer See, Germany</b> <i>Presenter: Theresa Wietelmann, DE</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Plastics in inland waters: pathways and impact**

EP101 **An empirical assessment of the threat of suspended microplastics to aquatic food webs in a neotropical freshwater wetland** 08:00 - 08:00  
*Presenter:* Carlos López, EC

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

EP094 **Long-term observations of the progressive urbanization to the trophic state of an urban meromicticlake** 08:00 - 08:00  
*Presenter:* Renata Tandyrak, PL

EP095 **The reaction of bottom sediments of shallow, restored lake (Mielenko Lake, Poland) to the prolonged circulation due to lack of ice-cover during winter season** 08:00 - 08:00  
*Presenter:* Renata Augustyniak-Tunowska, PL

EP096 **An innovative method of lakes restoration - selective water flow control** 08:00 - 08:00  
*Presenter:* Michał Łopata, PL

EP097 **Mass balance and critical load of phosphorus in the Lago del Fuerte reservoir (Tandil, Argentina)** 08:00 - 08:00  
*Presenter:* Marisol Roxana Cifuentes, AR

EP098 **Influence of the addition of calcium nitrate and oxygen-enriched water (Schäfersee-Verfahren®) on the hypolimnion of a contaminated urban lake** 08:00 - 08:00  
*Presenter:* Robin Burgold, DE

EP099 **Spatial and temporal pattern of phosphorus release from sediments of a eutrophying clear-water lake** 08:00 - 08:00  
*Presenter:* Johann Holdt, DE

EP100 **Pathways of nutrient pollution in the Volga Reservoirs** 08:00 - 08:00  
*Presenter:* Oxana Erina, RU

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Open dialogue on world water issues and solutions across generations**

EP129 **The disappearance of *Bdellocephala annandalei* in conjunction with environmental changes in Lake Biwa** 08:00 - 08:00  
**□ Latest results of lake bottom monitoring**  
*Presenter:* Runo Sato, JP

EP130 **What is happening in the world's third ancient lake "Lake Biwa"** 08:00 - 08:00  
*Presenter:* Rui Kurokawa, JP



EP131	<b>Global Warming and its Impact on Lake Biwa Ecosystems - Changes in water temperature and decrease of endemic Biwa-salmon in Lake Biwa</b> <i>Presenter: Tomoaki Takahashi, JP</i>	08:00 - 08:00
EP132	<b>My Research in Lake Biwa Part 1</b> <i>Presenter: Naoki Endo, JP</i>	08:00 - 08:00
EP133	<b>New initiative in Shiga prefecture</b> <i>Presenter: Sotaro Maki, JP</i>	08:00 - 08:00
EP134	<b>Water issues and school lunches</b> <i>Presenter: Yuha Oka, JP</i>	08:00 - 08:00
EP135	<b>The relationship between the number of native fishes and the number of alien fishes in Lake Biwa</b> <i>Presenter: Toma Asakawa, JP</i>	08:00 - 08:00
EP136	<b>Lower the water temperature of Lake Biwa by using the treated water of the sewage treatment plant that flows into Lake Biwa</b> <i>Presenter: Shin Atago, JP</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Invasive alien species in inland waters: invasion trends, impacts and management**

EP146	<b>Assessment of public awareness in freshwater alien species and anura by digital data analysis</b> <i>Presenter: Woong-Bae Park, KR</i>	08:00 - 08:00
EP147	<b>Distribution trends of invasive Asian carps (<i>Hypophthalmichthys molitrix</i> and <i>Aristichthys nobilis</i>) in Europe in the context of climate change</b> <i>Presenter: Oksana Nekrasova, UA</i>	08:00 - 08:00
EP148	<b>Invasive alien species in freshwater systems of Georgia</b> <i>Presenter: Bella Japoshvili, GE</i>	08:00 - 08:00
EP149	<b>Biological invasion success of <i>Pontogammarus robustoides</i> G. O. Sars, 1894 in the Daugava River (Latvia)</b> <i>Presenter: Aija Brakovska, LV</i>	08:00 - 08:00
EP185	<b>Cytogenetic alterations in the invasive species of gammarids caused by the water ion composition changes</b> <i>Presenter: Mariia Goncharova, UA</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Novel insights into freshwater ecosystem processes by stable isotopes**

EP086	<b>Environmental fate and trophic transfer of synthetic</b>	08:00 - 08:00
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**musk compounds and siloxanes in Geum River, Korea: Compound-specific nitrogen isotope analysis of amino acids**

*Presenter:* Dokyun Kim, KR

- EP087      **Organic carbon transfer across the river-sea interfaces in three estuary systems in South Korea**      08:00 - 08:00  
*Presenter:* Sujin Kang, KR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

- EP058      **Nutrients and microorganism assemblages in snowpacks in North-Patagonian Andes Mountain**      08:00 - 08:00  
*Presenter:* Agustina Iglesias Louis, AR
- EP059      **Glacier melt-down changes habitat characteristics and unique microbial community composition and physiology in Alpine lakes sediments**      08:00 - 08:00  
*Presenter:* Christiane Zarfl, DE
- EP060      **Evolution of surface temperatures in Austrian alpine lakes under climate change**      08:00 - 08:00  
*Presenter:* Katharina Enigl, AT
- EP061      **Fish as sentinels of hydromorphological impact**      08:00 - 08:00  
*Presenter:* Stelian Stanescu, RO

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

- EP083      **Transcriptome response of *Gasterosteus aculeatus* in natural habitats affected by multiple anthropogenic stressors**      08:00 - 08:00  
*Presenter:* Camilo Escobar-Sierra, DE
- EP084      **Exposure pathways of agricultural run-off matter for regime shifts in phototrophic communities**      08:00 - 08:00  
*Presenter:* Bastian H. Polst, DE
- EP085      **Toxicity of profenofos to early life stage of whitegoby (*Glossogobius giuris*Hamilton)**      08:00 - 08:00  
*Presenter:* Ma. Vivian Camacho, PH

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Links between landscapes and surface water chemistry**

- EP073      **Biogeochemical heterogeneity at the stream-riparian interface of boreal headwaters**      08:00 - 08:00  
*Presenter:* Melissa Reidy, SE

EP074	<b>Concentration-Discharge Relationships to Identify Catchment Controls on Carbon and Nutrient Exports from a Boreal Landscape</b> <i>Presenter: Virginia Mosquera, SE</i>	08:00 - 08:00
EP075	<b>Nitrogen and phosphorus transport throughout Mediterranean watersheds in response to land-use changes and hydrology</b> <i>Presenter: Daniele Nizzoli, IT</i>	08:00 - 08:00
EP076	<b>Analysis of dissolved organic carbon effects on the mobilization of metals in a historic mine drainage</b> <i>Presenter: Anita Sanchez, DE</i>	08:00 - 08:00
EP077	<b>Carbon bioavailability and oxygen consumption in a future scenario - A case study in Lake Bolmen</b> <i>Presenter: Johanna Sjöstedt, SE</i>	08:00 - 08:00
EP078	<b>Linking forest to fish: the story of coastal darkening</b> <i>Presenter: Dag Hessen, NO</i>	08:00 - 08:00
EP079	<b>Seasonal variation in transport of bioavailable organic carbon</b> <i>Presenter: Kevin Jones, SE</i>	08:00 - 08:00
EP080	<b>Metal pollution assessment in the region of the former Texcoco Lake (Basin of México), a multivariate approach</b> <i>Presenter: Jacinto Elías Sedeño-Díaz, MX</i>	08:00 - 08:00
EP081	<b>Fish scale stable isotopes as potential indicators of nutrient pollution</b> <i>Presenter: Mojmír Vašek, CZ</i>	08:00 - 08:00
EP082	<b>Effect of Land Use on Stream Water Quality and Biological Conditions in Multi-scale Watersheds</b> <i>Presenter: Jong-Won Lee, KR</i>	08:00 - 08:00
<i>ePosters</i> 08:00 - 17:30		Poster Area C2, C3
<b>Linking physical and biogeochemical lake modeling</b>		
EP071	<b>A new process-based model for regional-scale assessment of lake CH<sub>4</sub> emissions: resolving the spatio-temporal variability in diffusive and ebullitive fluxes from European lakes</b> <i>Presenter: Manon Maisonnier, BE</i>	08:00 - 08:00
EP072	<b>Three-dimensional hydrodynamic-biogeochemical modelling of a small urban lake</b> <i>Presenter: Francesco Piccioni, FR</i>	08:00 - 08:00

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Large and deep lakes under stress: how resilient are lake ecosystems?**

- |       |  |               |
|-------|--|---------------|
| EP068 | <b>Climate as the main driver of nutrients and phytoplankton dynamics in a deep oligomictic lakes South of the Alps</b><br><i>Presenter: Michela Rogora, IT</i>            | 08:00 - 08:00 |
| EP069 | <b>Do invasive quagga mussels grow faster than zebra mussels? Growth rates of dreissenids under multiple simulated field conditions</b><br><i>Presenter: Hui Zhang, DE</i> | 08:00 - 08:00 |
| EP070 | <b>Past, present and future anthropogenic stressors in a large Swedish lake</b><br><i>Presenter: Friederike Ermold, SE</i>   | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Land-use impacts and other stressors on freshwater ecosystems**

- |       |   |               |
|-------|---|---------------|
| EP062 | <b>Macroinvertebrate community at a restored river site shows resistance to increased salinity</b><br><i>Presenter: Iris Madge Pimentel, DE</i>   | 08:00 - 08:00 |
| EP063 | <b>Intensive human land-uses impairs ecosystem functioning through reducing taxonomic and functional diversities</b><br><i>Presenter: Dieison Moi, BR</i>                                     | 08:00 - 08:00 |
| EP064 | <b>A deep dive into methylparaben: Investigating its natural presence in freshwater biota</b><br><i>Presenter: Katarina A. Cetinić, HR</i>  | 08:00 - 08:00 |
| EP065 | <b>The effects of multiple stressors on biotic interactions in riverine ecosystems: A case study on predator-mediated shifts induced by fish</b><br><i>Presenter: Anna-Maria Vermiert, DE</i> | 08:00 - 08:00 |
| EP066 | <b>Altered streams significantly contribute to the regional diversity of aquatic invertebrates in the Atlantic Forest</b><br><i>Presenter: Marcelo Moretti, BR</i>                            | 08:00 - 08:00 |
| EP067 | <b>Environmental Flow Requirements of Estuaries: Providing resilience to current and future climate and direct anthropogenic changes</b><br><i>Presenter: Daniel Chilton, AU</i>              | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Gases in inland waters: production, accumulation, and emission**

- |       |  |               |
|-------|--|---------------|
| EP051 | <b>Assessing the controls on respiratory quotient across</b> | 08:00 - 08:00 |
|-------|--|---------------|

**the land to sea continuum**

*Presenter:* Konstantinos-Marios Vaziourakis, SE

- |       |   |               |
|-------|---|---------------|
| EP052 | <b>Lake Yambo as a model crater lake to better understand methane dynamics in tropical East Asia</b><br><i>Presenter:</i> Justine de Leon, PH   | 08:00 - 08:00 |
| EP053 | <b>Impact of bioturbators on methane emission across the sediment-water interface from a model perspective</b><br><i>Presenter:</i> Lucia Cabrera-Lamanna, NL                                 | 08:00 - 08:00 |
| EP054 | <b>Bioturbation effects on sediment CO<sub>2</sub> and CH<sub>4</sub> emissions from inland waters</b><br><i>Presenter:</i> Ilenia Marquina Luevano, NL                                       | 08:00 - 08:00 |
| EP055 | <b>Methane production in the oxic water column of shallow lakes from the Pampean Plain with different alternative regimes (Buenos Aires, Argentina)</b><br><i>Presenter:</i> Sofia Baliña, AR | 08:00 - 08:00 |
| EP056 | <b>Hydrology drives GHG dynamics in a boreal headwater stream affected by clear-cutting</b><br><i>Presenter:</i> Demian Hauptmann, SE   | 08:00 - 08:00 |
| EP057 | <b>Sediment microbial ecology and methane dynamics during resuspension events in a hypersaline coastal lagoon</b><br><i>Presenter:</i> Christopher Keneally, AU                               | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**From macroecology to spatio-temporal ecology in freshwaters**

- |       |   |               |
|-------|---|---------------|
| EP043 | <b>Divergent litter traits of riparian plant species in humid and drier biomes within the tropics</b><br><i>Presenter:</i> Guilherme Sena, BR                           | 08:00 - 08:00 |
| EP044 | <b>Decomposing distributions into life stage-specific modules in freshwater Species Distribution Models</b><br><i>Presenter:</i> Graciela Patricia Medina Madariaga, DE | 08:00 - 08:00 |
| EP045 | <b>Sediment replenishment mitigates riverbed environments and benthic macroinvertebrates communities downstream of a dam</b><br><i>Presenter:</i> Izumi Katano, JP      | 08:00 - 08:00 |
| EP046 | <b>Trophic status of the filter-feeder larvae and quantity and quality of drifted fine particle materials in a dam river</b><br><i>Presenter:</i> Sara Soroji, JP       | 08:00 - 08:00 |
| EP047 | <b>Effects of a tributary inflow and sediment replenishment on riverbed environments and benthic macroinvertebrates communities downstream of a</b>                     | 08:00 - 08:00 |

**dam**

*Presenter:* Naoko Hara, JP

- |       |   |               |
|-------|---|---------------|
| EP048 | <b>Dammed Fish - Impact of structural and functional river network connectivity losses on fish biodiversity - Optimizing management solutions</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Paulo Branco, PT  |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

- |       |  |               |
|-------|--|---------------|
| EP039 | <b>Unravelling the drivers of nitrous oxide emissions from streams (DrivNOS)</b>   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Joachim Audet, DK  |               |
| EP040 | <b>Title: Radiocarbon Stocktaking of Swiss Lakes: Relevance to Carbon Budgets and Dynamics</b>   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Benedict Mittelbach, CH  |               |
| EP041 | <b>Does burial of organic carbon reduce recent atmospheric CO2 concentrations: a case study at a German reservoir</b>                                    | 08:00 - 08:00 |
|       | <i>Presenter:</i> Jörg Tittel, DE  |               |
| EP042 | <b>Bottom-up vs top-down observations highlight potential overestimation of methane sediment fluxes in freshwaters with high sulphate concentrations</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Aurora Pinto, DE   |               |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Fish ecology, management and conservation**

- |       |  |               |
|-------|--|---------------|
| EP034 | <b>Temporal dynamics of freshwater fish assemblages - a systematic review</b>                        | 08:00 - 08:00 |
|       | <i>Presenter:</i> István Czeglédi, HU  |               |
| EP035 | <b>On-site ultra-rapid environmental DNA detection for freshwater fish</b>                           | 08:00 - 08:00 |
|       | <i>Presenter:</i> Hideyuki Doi, JP   |               |
| EP036 | <b>First results of great cormorant GPS tracking at a large Central European lake</b>                | 08:00 - 08:00 |
|       | <i>Presenter:</i> Bálint Preiszner, HU   |               |
| EP037 | <b>Response in the fish assemblage due to temporal opening test of the Nakdong estuarine barrage</b> | 08:00 - 08:00 |
|       | <i>Presenter:</i> Donghyun Hong, KR  |               |
| EP038 | <b>Towards an Ecosystem-based management (EBM) in Sweden's second largest lake</b>                   | 08:00 - 08:00 |
|       | <i>Presenter:</i> Malin Setzer, SE   |               |

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08:00 - 17:30

Poster Area C2, C3

**Ecology and conservation of temporary aquatic ecosystems**

- |       |   |               |
|-------|---|---------------|
| EP137 | <b>Decadal ecological recovery associated with removing overgrown macrophytes</b><br><i>Presenter:</i> Kanako Ishikawa, JP  | 08:00 - 08:00 |
| EP138 | <b>Assessment of cladocerans recolonization from the egg bank in a neotropical temporary pond</b><br><i>Presenter:</i> Carlos López, EC   | 08:00 - 08:00 |
| EP139 | <b>Environmental filtering and limiting similarity as driving forces of macroinvertebrate community structure in drought effected lowland streams</b><br><i>Presenter:</i> Júlia Szeles, HU | 08:00 - 08:00 |
| EP140 | <b>A collapse of a European temporary protected wetland: the plankton dynamics leading to an ecological disaster</b><br><i>Presenter:</i> Maria Demertzioglou, GR                           | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Dynamics of freshwater bacteria, fungi, and viruses**

- |       |  |               |
|-------|--|---------------|
| EP020 | <b>Disentangling the relative importance of water quality and spatial factors on aquatic fungal assemblages across 50 reservoirs</b><br><i>Presenter:</i> Maiko Kagami, JP | 08:00 - 08:00 |
| EP021 | <b>The prevalence of chytrid fungus infection of glacier algae on a glacier in Alaska</b><br><i>Presenter:</i> Kino Kobayashi, JP  | 08:00 - 08:00 |
| EP022 | <b>Phylogeny and biogeography of the novel parasitic chytrids infecting snow algae in alpine ecosystems</b><br><i>Presenter:</i> Hiroaki Nakanishi, JP                     | 08:00 - 08:00 |
| EP023 | <b>Impact of a widely used herbicide on the chytrid infection of toxigenic cyanobacteria</b><br><i>Presenter:</i> Erika Berenice Martinez-Ruiz, DE                         | 08:00 - 08:00 |

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Combining data-driven and process-based models: Perspectives for limnological studies**

- |       |  |               |
|-------|--|---------------|
| EP003 | <b>A model coupling dispersal and resource fluxes in fluvial meta-ecosystems</b><br><i>Presenter:</i> Matthew Talluto, AT        | 08:00 - 08:00 |
| EP004 | <b>Analysis of the influence of different meteorological factors on lake surface water temperature across different climates</b> | 08:00 - 08:00 |

	<i>Presenter:</i> Marco Toffolon, IT	
EP005	<b>Modelling the effect of variability of inflow nutrient concentrations on lake nutrient retention</b> <i>Presenter:</i> Maria Determann, DE	08:00 - 08:00
EP006	<b>Modelling a deep oligomictic lake: the relevance of the quality of input data</b> <i>Presenter:</i> Claudia Dresti, IT	08:00 - 08:00
EP007	<b>The precipitation retention time in Lake Biwa and its catchment area using the response function</b> <i>Presenter:</i> Maho Iwaki, JP	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**Dynamics of dissolved and particulate organic matter in inland waters**

EP016	<b>Dissolved organic matter quality variations as function of time and space in two drinking water reservoirs in Germany</b> <i>Presenter:</i> Peter Herzsprung, DE	08:00 - 08:00
EP017	<b>Alteration of dissolved organic matter from particulate organic matter in the riverine environment by <i>Ephemera</i> mayflies</b> <i>Presenter:</i> Tomohiro Okabe, JP	08:00 - 08:00
EP018	<b>Estimating inputs of aquaculture-derived nutrients to streams using dissolved organic matter fluorescence and in situ sensors detections</b> <i>Presenter:</i> Sebastian Osorio, CL	08:00 - 08:00
EP019	<b>Salt pulsed effects on leaf litter decomposition extend beyond contamination cessation and depends on leaf colonization status</b> <i>Presenter:</i> Ricardo Oliveira, PT	08:00 - 08:00

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08:00 - 17:30

Poster Area C2, C3

**Biodiversity, community assembly and functioning in plankton communities**

EP163	<b>Plankton diversity in tropical-highland wetlands under different hydrological influences (Lake Tana, Ethiopia)</b> <i>Presenter:</i> Abrehet Mehari, BE	08:00 - 08:00
EP165	<b>Effects of climate change and grazing on assembly processes and ecosystem functioning in bacterioplankton communities</b> <i>Presenter:</i> Berenike Bick, SE	08:00 - 08:00
EP166	<b>Biodiversity-ecosystem function relationships under resource-replete conditions - an experimental approach</b>	08:00 - 08:00



	<i>Presenter:</i> Fernanda Miranda, SE	
EP167	<b>Morphometric variations of rotifers in a high altitude reservoir in Central Mexico</b> <i>Presenter:</i> Sergio González Gutiérrez, MX	08:00 - 08:00
EP168	<b>Spread of invasive and alien cyanobacterial species: phenomena of blooms, non-blooms, and biodiversity loss</b> <i>Presenter:</i> Agnieszka Napiórkowska-Krzebietke, PL	08:00 - 08:00
EP169	<b>Zooplankton networks conditioned by winter warming in small anthropogenic reservoirs</b> <i>Presenter:</i> Anna Goździejewska, PL	08:00 - 08:00
EP170	<b>Effectiveness of stable isotope analysis in understanding the nutrient reliance of ectoparasites in freshwater ecosystem to their respective hosts</b> <i>Presenter:</i> Justine de Leon, PH	08:00 - 08:00
EP171	<b>Synergistic effects of crowding and food shortage on growth, reproduction, and longevity in <i>Daphnia magna</i></b> <i>Presenter:</i> Syuhei Ban, JP	08:00 - 08:00
EP172	<b>Winter diatom ecology in a eutrophying lake and effects on summer biogeochemistry</b> <i>Presenter:</i> Valeria Fárez-Román, DE	08:00 - 08:00
EP173	<b>Roles of the host phylogeny on the formation of host-associated microbiota in <i>Daphnia pulex</i></b> <i>Presenter:</i> Ryotaro Ichige, JP	08:00 - 08:00
EP174	<b>How does environmental temperature impact the ability of <i>Daphnia</i> to resist a novel fungal parasite?</b> <i>Presenter:</i> Joe Money, PL	08:00 - 08:00
EP175	<b>G x G interactions between algal and zooplankton clones isolated during the spring season</b> <i>Presenter:</i> Domiziana Cristini, DE	08:00 - 08:00
EP176	<b>Influence of temperature and nitrogen on the growth of <i>Raphidiopsis raciborskii</i> strains originating from different climate zones</b> <i>Presenter:</i> Agnieszka Brzozowska, PL	08:00 - 08:00
EP177	<b>Comparisons of heliozoan abundance between deep and shallow basins of Lake Biwa with special reference to optimal growth temperature, food resource and habitat use</b> <i>Presenter:</i> Junya Yoshida, JP	08:00 - 08:00
EP178	<b>Zooplankton Communities as Bioindicators of Water Quality in Lake Palacpaquen and Lake Pandin, San Pablo City, Philippines</b>	08:00 - 08:00

Presenter: Ma. Vivian Camacho, PH

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08:00 - 17:30

Poster Area C2, C3

**Assessment and biomonitoring of inland waters**

- |       |   |               |
|-------|---|---------------|
| EP150 | <b>Digital microscopy for diatom-based ecological status assessment - case study two international rivers (Sava and Tisa rivers, Serbia)</b><br><i>Presenter: Danijela Vidakovic, DE</i>                    | 08:00 - 08:00 |
| EP151 | <b>Application of benthic diatom community developed on brick artificial substrate in ecological status assessment of soda ponds</b><br><i>Presenter: Miloš Ćirić, RS</i>                                   | 08:00 - 08:00 |
| EP152 | <b>Responses of microphytobenthic communities to multiple stressors increase and release in a large-scale ExStream mesocosm experimental setting</b><br><i>Presenter: Albert Serge Ntambwe Mayombo, DE</i>  | 08:00 - 08:00 |
| EP153 | <b>Digital microscopy improves diatom research</b><br><i>Presenter: Andrea Burfeid-Castellanos, DE</i>  | 08:00 - 08:00 |
| EP154 | <b>National scale patterns of diatom-environment relationships in rivers and streams of the United States based on DNA metabarcoding</b><br><i>Presenter: Nathan Smucker, US</i>                            | 08:00 - 08:00 |
| EP156 | <b>Diatom Community Dynamics in Recovering Agricultural Stream in Milledgeville, Georgia, USA</b><br><i>Presenter: Sydney Brown, US</i>   | 08:00 - 08:00 |
| EP157 | <b>The diversity of microsporidian parasites infecting divergent coexisting lineages of the <i>Gammarus fossarum</i> species complex in the Western Carpathians</b><br><i>Presenter: Nataša Katanić, CZ</i> | 08:00 - 08:00 |
| EP158 | <b>Evaluating the utility of citizen science in bird monitoring</b><br><i>Presenter: Yerim Lee, KR</i>  | 08:00 - 08:00 |
| EP159 | <b>Applicability of advanced molecular tools for river benthic diatom biomonitoring in southern Europe</b><br><i>Presenter: Juan Antonio Villaescusa Vinader, ES</i>  | 08:00 - 08:00 |
| EP160 | <b>Effect of dredging on the phytobenthos composition, structure and ecological status (based on phytobenthos) of hilly streams</b><br><i>Presenter: Éva Ács, HU</i>  | 08:00 - 08:00 |
| EP161 | <b>Diverse diatom communities of an oxbow lake of the River Tisza with the description a new <i>Mayamaea</i> species</b>  | 08:00 - 08:00 |

*Presenter:* Mónika Duleba, HU

- EP162      **Avian diversity in Nyangezi wetlands: the case of Nyamubanda Swamp in Territory of Walungu, Sud-Kivu, Democratic Republic of Congo**      08:00 - 08:00  
*Presenter:* Baguma Balagizi Gabriel, CD

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08:00 - 17:30

Poster Area C2, C3

**Cross-boundary interactions: from aquatic to terrestrial ecosystems**

- EP014      **Trophic transfer of marker and essential fatty acids from chironomids emerged from saline siberian lakes to riparian orb-weaving spiders**      08:00 - 08:00  
*Presenter:* Nadezhda Sushchik, RU
- EP015      **Metabarcoding reveals effects of anti-mosquito agent on non-target chironomid communities**      08:00 - 08:00  
*Presenter:* Nina Röder, DE

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08:00 - 17:30

Poster Area C2, C3

**Adjusting reservoir management to global change**

- EP088      **Lake Długie in Olsztyn (Olsztyn Lakeland) as an example of good practice in lakes restoration**      08:00 - 08:00  
*Presenter:* Jolanta Grochowska, PL
- EP089      **What are the current sources of nutrient pollution and effects on lake stability for the Rappbode Reservoir System, in Germany?**      08:00 - 08:00  
*Presenter:* Floran Clopin, NL
- EP090      **Structure of microbial communities in benthic biofilms of glacier-fed streams from Patagonia, Argentina**      08:00 - 08:00  
*Presenter:* Evelyn Vega, AR
- EP091      **The making of a river: Microbial dispersal and resource transport in a lab meta-ecosystem**      08:00 - 08:00  
*Presenter:* Tania Sosa-Jiron, AT
- EP092      **Experimental studies on the succession of phytobenthos with the simulation of different climate change scenarios**      08:00 - 08:00  
*Presenter:* Zoltán Novák, HU
- EP093      **The effects of climate warming on the periphyton community in the River Thames (Oxford, England)**      08:00 - 08:00  
*Presenter:* Adriana Mordente, GB

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Collecting diverse lake data from automated buoys or floating research platforms to promote interdisciplinarity**

EP001      **A web-platform to ease access and overview of collected real-time buoy data**      08:00 - 08:00

*Presenter:* Anders Nielsen, DK

EP002      **Combining modelling and automated monitoring at the hydroelectric reservoir of Eguzon to predict the evolution of water quality and algae blooms**      08:00 - 08:00

*Presenter:* Mathieu Caffin, FR

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Climate impacts of human-made freshwater systems**

EP182      **Methane Emissions due to Reservoir Flushing: An Overlooked High-impact Pathway?**      08:00 - 08:00

*Presenter:* Frank Peeters, DE

EP183      **Combatting eutrophication and recycling of nutrients: can fishpond sediments be used for crop cultivation?**      08:00 - 08:00

*Presenter:* Ana Paula Dalbem Barbosa, BR

EP184      **Dam removal and the fate of sediment: can macrophytes minimize sediment leakage of greenhouse gases, nutrients and heavy metals?**      08:00 - 08:00

*Presenter:* Anna Bottone, SE

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Biomanipulations for eutrophic waters restoration**

EP181      **Phytoplankton dynamics shaping the efficiency of phosphorus accumulation by periphyton in the eutrophic reservoir**      08:00 - 08:00

*Presenter:* Marija Pečić, RS

*ePosters*

08:00 - 17:30

Poster Area C2, C3

**Connectivity of aquatic ecosystems**

EP008      **Go with the flow - impact of connectivity on nutrient regimes and phytoplankton dynamics in river-connected lakes**      08:00 - 08:00

*Presenter:* Christine Kiel, DE

EP009      **Irrigation dams alter biogeochemicals cycling in intermittent streams of Appenines**      08:00 - 08:00

*Presenter:* Edoardo Cavallini, IT

EP010      **Prioritizing pond restoration to recover the habitat connectivity of a pond-dwelling turtle**      08:00 - 08:00

	<i>Presenter:</i> Pedro Segurado, PT	
EP011	<b>Diel variation of water column CH<sub>4</sub> and emission fluxes in a eutrophic lake</b> <i>Presenter:</i> Hanqing Yuan, CN	08:00 - 08:00
EP012	<b>Natural Vs. Artificial River Network Fragmentation in Europe</b> <i>Presenter:</i> Tamara Leite, PT	08:00 - 08:00
EP013	<b>Effectiveness monitoring of 5 fish ladders in Catalonia, NE of the Iberian Peninsula</b> <i>Presenter:</i> Quim Pou-Rovira, ES	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**The next 100 years of inland water sensing - combining remote sensing, in situ data and modelling**

OR025	<b>Bitter facts of India's largest inland saline wetland: 96 years of analysis</b> <i>Presenter:</i> Rajashree Naik, IN	08:00 - 08:00
OR026	<b>Simulation of flow pattern in ice-covered lakes using a 3d circulation model</b> <i>Presenter:</i> Fatemeh Sadat Sharifi, DE	08:00 - 08:00
OR027	<b>Smart sensors to predict entrainment of freshwater mussels: A new tool in freshwater habitat assessment</b> <i>Presenter:</i> Edward Curley, GB	08:00 - 08:00
OR028	<b>Techniques and applications for Cyanobacteria and Phytoplankton monitoring at high spatio-temporal resolution using multiple satellite sensors</b> <i>Presenter:</i> Karin Schenk, DE	08:00 - 08:00

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

OR096	<b>Production and oxidation of methane (CH<sub>4</sub>) in sediments of tropical lakes, Chiapas, Mexico</b> <i>Presenter:</i> Andrea P. Guzmán-Arias, MX	08:00 - 08:00
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*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Aquatic microbial biofilms and global change**

OR128	<b>Constraining effect of moving river bedforms on sediment microbial community is not influenced by variability in ripple migration velocity</b> <i>Presenter:</i> Anna Oprei, DE	08:00 - 08:00
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Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Orals on Demand**

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Assessment and biomonitoring of inland waters**

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|-------|---|---------------|
| OR121 | <b>A Europe-wide overview of variation in river phytoplankton</b><br><i>Presenter: Martyn Kelly, GB</i>   | 08:00 - 08:00 |
| OR122 | <b>eDNA metabarcoding revealed phytoplankton diversity and community structure in Dianchi Lake and the three inflowing rivers</b><br><i>Presenter: Lin Yuanyuan, CN</i> | 08:00 - 08:00 |
| OR123 | <b>Lake Sevan, Armenia: Assessment of current phytoplankton and ecological state</b><br><i>Presenter: Gor Gevorgyan, AM</i>   | 08:00 - 08:00 |
| OR124 | <b>Developing and Testing Diatom Indicators of Ecological Change for Wetlands in Big Cypress Nature Preserve</b><br><i>Presenter: R. Jan Stevenson, US</i>              | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Beyond nutrients... controls on cyanobacteria harmful algal blooms**

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|-------|--|---------------|
| OR125 | <b>Record-setting algal bloom in polymictic Lake Balaton (Hungary): a synergistic impact of climate change and (mis)management</b><br><i>Presenter: Vera Istvánovics, HU</i>                     | 08:00 - 08:00 |
| OR126 | <b>An evolutionary ecological mechanism of CyanoHABs: unavoidable consequences when low nutrient requirements meet eutrophication</b><br><i>Presenter: Huansheng Cao, CN</i>                     | 08:00 - 08:00 |
| OR127 | <b>Comparison of utilization advantages of <i>Microcystis aeruginosa</i> and <i>Scenedesmus quadricaudatus</i> on different nitrogen and phosphorus forms</b><br><i>Presenter: Xiuli Hou, CN</i> | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Bio-manipulations for eutrophic waters restoration**

- |       |   |               |
|-------|---|---------------|
| OR115 | <b>Combined effect of hydrogen peroxide, aeration, and zooplankton on <i>Microcystis</i> spp</b><br><i>Presenter: Michael Anai Figueroa Sanchez, MX</i> | 08:00 - 08:00 |
| OR116 | <b>New methodologies for living zooplankton separation and their applications in large-scale experiments</b>  | 08:00 - 08:00 |

*Presenter: Žiga Ogorelec, SI*

- OR117      **Fish removal at high external loading: it costs and it pays**      08:00 - 08:00  
*Presenter: Ilkka Sammalkorpi, FI*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Adjusting reservoir management to global change**

- OR118      **The effect of iron coagulant on submerged vegetation in conditions of increased temperature - laboratory experiment**      08:00 - 08:00  
*Presenter: Joanna Rosińska, PL*
- OR119      **Response of thermal stratification to sediment in subtropical reservoirs**      08:00 - 08:00  
*Presenter: Lei Zhu, CN*
- OR120      **Influence of irrigation infrastructures and water quality on fish assemblages in Lake Tana tributaries, north-west Ethiopia**      08:00 - 08:00  
*Presenter: Abebe Getahun, ET*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Climate emergency at the Three Poles: structural and functional impacts on inland waters**

- OR113      **Internal nutrient cycling promotes net autotrophy in small and shallow lakes of the Canadian Arctic**      08:00 - 08:00  
*Presenter: Paola Ayala-Borda, CA*
- OR114      **Terrestrial DOC mobilization across the northern circumpolar permafrost region; a systematic review**      08:00 - 08:00  
*Presenter: Liam Heffernan, SE*

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Climate impacts of human-made freshwater systems**

- OR111      **Towards critical white ice conditions in lakes under global warming**      08:00 - 08:00  
*Presenter: Gesa Weyhenmeyer, SE*
- OR112      **Limnological dynamics of methane and carbon dioxide emissions from a tropical hypertrophic reservoir**      08:00 - 08:00  
*Presenter: Martin Merino-Ibarra, MX*

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08:00 - 17:30

Oral Presentations on Demand

**Combining data-driven and process-based models: Perspectives for limnological studies**

- |       |   |               |
|-------|---|---------------|
| OR110 | <b>Decision support tools for river diagnostics and management</b><br><i>Presenter:</i> Christian K. Feld, DE | 08:00 - 08:00 |
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Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Dynamics of dissolved and particulate organic matter in inland waters**

- |       |  |               |
|-------|--|---------------|
| OR104 | <b>Spatial and temporal organic carbon dynamics in a non-perennial river basin</b><br><i>Presenter:</i> Oriana Llanos Paez, ES   | 08:00 - 08:00 |
| OR105 | <b>Saharan dust promotes acidic polysaccharides coagulation and carbon export in an eutrophic reservoir</b><br><i>Presenter:</i> Andrés Martínez-García, ES                | 08:00 - 08:00 |
| OR106 | <b>Altered plant detritus processing in streams affected by multiple stressors in the Argeş River basin, Romania</b><br><i>Presenter:</i> Geta Risnoveanu, RO              | 08:00 - 08:00 |
| OR107 | <b>Seasonal compensation-flow changes from reservoirs modify leaf litter decomposition and biofilm accrual in UK upland rivers</b><br><i>Presenter:</i> Tapiwa Zimunya, GB | 08:00 - 08:00 |
| OR108 | <b>Carrion subsidies of inland waters</b><br><i>Presenter:</i> M. Eric Benbow, US  | 08:00 - 08:00 |
| OR109 | <b>Field experiments increase benthic densities of plant detritus and dependent organisms in small and large rivers</b><br><i>Presenter:</i> William Bovill, AU            | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Dynamics of freshwater bacteria, fungi, and viruses**

- |       |  |               |
|-------|--|---------------|
| OR101 | <b>Origin, fluxes, and reservoirs of <i>Escherichia coli</i> in aquatic ecosystems of a French floodplain</b><br><i>Presenter:</i> Charles Henriot, FR | 08:00 - 08:00 |
| OR102 | <b>Non-detrimental viral infections in cultured algae</b><br><i>Presenter:</i> Petronella Wessman, SE  | 08:00 - 08:00 |
|       | <b>Aquatic Ecosystems: habitat and vector for antimicrobial resistance (AMR) transmission</b><br><i>Presenter:</i> Pau De Yebra Rodó, DE               | 08:00 - 08:00 |



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08:00 - 17:30

Oral Presentations on Demand

**High-mountain aquatic biodiversity: status, trends, and drivers of change**

- OR080      **Mineral sedimentation in landslide fen deposits: temporary mountain lakes affected by extreme rainfalls - from present day records to the past; Polish Western Carpathians**      08:00 - 08:00  
*Presenter:* Włodzimierz Margielewski, PL
- OR081      **Typification of oligotrophic lakes using the ciliate assemblage structure re-visited**      08:00 - 08:00  
*Presenter:* Miroslav Macek, MX
- OR082      **Seasonality enhances protist coexistence in planktonic oligotrophic communities**      08:00 - 08:00  
*Presenter:* Jordi Catalan, ES
- OR083      **Diatoms as indicators of habitat and chemical characteristics of páramo lakes in Colombia**      08:00 - 08:00  
*Presenter:* Carlos A. Rivera-Rondón, CO
- OR084      **From a lake to a fen - a detailed record of the Late Glacial short-term climatic oscillations from the Klaklowo fen deposits (the Western Carpathians, Poland)**      08:00 - 08:00  
*Presenter:* Jolanta Pilch, PL
- OR085      **Unexpected multi-year changes within biotic communities in warming alpine streams**      08:00 - 08:00  
*Presenter:* Leopold Füreder, AT
- OR129      **Elevational patterns of trait composition and functional diversity of stream macroinvertebrates in the Hengduan Mountains region, Southwest China**      08:00 - 08:00  
*Presenter:* Sicheng Ao, CN

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08:00 - 17:30

Oral Presentations on Demand

**Land-use impacts and other stressors on freshwater ecosystems**

- OR066      **Effects of urbanization-induced local alterations on the diversity and assemblage structure of macroinvertebrates in low-order streams**      08:00 - 08:00  
*Presenter:* Attila Bohus, HU
- OR067      **Flow intermittency and light pollution: the effect of multiple interacting stressors on freshwater invertebrates**      08:00 - 08:00  
*Presenter:* Gemma Burgazzi, DE
- OR068      **Trophic plasticity of a widespread top predator across a land use and stream productivity gradient**      08:00 - 08:00  
*Presenter:* Daniel Perkins, GB

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08:00 - 17:30

Oral Presentations on Demand

**From macroecology to spatio-temporal ecology in freshwaters**

- |       |  |               |
|-------|--|---------------|
| OR069 | <b>Spatiotemporal dynamics of stream fish size spectra under global changes</b><br><i>Presenter: Ignasi Arranz, FR</i>   | 08:00 - 08:00 |
| OR070 | <b>Evaluating the ecological status of large rivers in the context of the WFD: the new phytoplankton index for French large rivers</b><br><i>Presenter: Albin Meyer, FR</i>  | 08:00 - 08:00 |
| OR071 | <b>Particulate organic matter properties shape the microbial metacommunity in river networks</b><br><i>Presenter: Edurne Estévez, AT</i>   | 08:00 - 08:00 |
| OR072 | <b>Different habitat requirements of <i>Ranunculus aquatilis</i> and <i>R. peltatus</i> in running waters</b><br><i>Presenter: Daniel Gebler, PL</i>   | 08:00 - 08:00 |
| OR073 | <b>Overview of coastal lagoons in mediterranean Basin by remote sensing</b><br><i>Presenter: Juan Soria, ES</i>  | 08:00 - 08:00 |
| OR074 | <b>Wetland detritus vs. stream detritus - Food quality determines fitness of juveniles of the highly endangered freshwater pearl mussel (<i>Margaritifera margaritifera</i>)</b><br><i>Presenter: Felix Grunicke, DE</i> | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Large and deep lakes under stress: how resilient are lake ecosystems?**

- |       |   |               |
|-------|---|---------------|
| OR061 | <b>The Aral Sea: mixing regime of its basins after desiccation and restoration measures</b><br><i>Presenter: Georgiy Kirillin, DE</i>               | 08:00 - 08:00 |
| OR062 | <b>Genotype specific and microbiome effects of hypoxia in the model organism <i>Daphnia magna</i>.</b><br><i>Presenter: Manon Coone, BE</i>         | 08:00 - 08:00 |
| OR063 | <b>Geological determinants of cholera outbreaks along the African Rift</b><br><i>Presenter: Gudrun Bornette, FR</i>                                 | 08:00 - 08:00 |
| OR064 | <b>Microplastics occurrence in surface waters and sediments in lakes Edward and George in Uganda</b><br><i>Presenter: Haruna Lubega, UG</i>         | 08:00 - 08:00 |
| OR065 | <b>Insights on sediment management for macroinvertebrate forage resources in Northern Great Plains lakes</b><br><i>Presenter: Iain Phillips, CA</i> | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Links between landscapes and surface water chemistry**

- |       |  |               |
|-------|--|---------------|
| OR057 | <b>Spatiotemporal analysis of water quality using multivariate statistical techniques for the Usumacinta River, southeast Mexico</b><br><i>Presenter: Ismael Soria-Reinoso, MX</i> | 08:00 - 08:00 |
| OR058 | <b>Aged riverine DOC export to the two contrasting estuary systems: Geum and Seomjin, South Korea</b><br><i>Presenter: Sujin Kang, KR</i>  | 08:00 - 08:00 |
| OR059 | <b>Plant protectant agents and metabolites in freshwater systems - new insights into process understanding</b><br><i>Presenter: Karin Meinikmann, DE</i>                           | 08:00 - 08:00 |
| OR060 | <b>Physico-chemical characterisation of protected oligotrophic lakes in Ireland</b><br><i>Presenter: Giovanni Cappelli, IE</i>   | 08:00 - 08:00 |

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Multiple stressors acting on shallow aquatic systems in agricultural landscapes**

- |       |  |               |
|-------|--|---------------|
| OR051 | <b>Effects of different concentrations of Methylene Blue on the growth and reproduction of <i>Daphnia magna</i></b><br><i>Presenter: Shuhui Li, CN</i>   | 08:00 - 08:00 |
| OR052 | <b>A process-based microcosm model to disentangle the combined effects of multiple stressors in lentic and slow-flowing shallow aquatic ecosystems</b><br><i>Presenter: Gregorio Alejandro López Moreira Mazacotte, DE</i>   | 08:00 - 08:00 |
| OR053 | <b>Pharmaceutical disruption: Effect of psychoactive pharmaceuticals on behavior of freshwater snail, <i>Lymnaea stagnalis</i> and their role in disrupting anti-predator response to kairomone from Common carp, <i>Cyprinus carpio</i></b><br><i>Presenter: Nandini Vasantha Raman, NL</i> | 08:00 - 08:00 |
| OR055 | <b>Neonicotinoid Occurrence in Environmental Waters of Indramayu Regency, Indonesia</b><br><i>Presenter: Zanne Sandriati Putri, JP</i>   | 08:00 - 08:00 |

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08:00 - 17:30

Oral Presentations on Demand

**Plastics in inland waters: pathways and impact**

- |       |   |               |
|-------|---|---------------|
| OR035 | <b>Effect of microplastics on the population growth of rotifers (Rotifera)</b><br><i>Presenter: José Antonio Hernández-Lucero, MX</i> | 08:00 - 08:00 |
|-------|---|---------------|

Oral Presentations on Demand

08:00 - 17:30

Oral Presentations on Demand

**Reconstructing eco-environmental dynamics from sediment records and ancient DNA**

- OR040      **Human - environment interaction during the last millennium: A multi-proxy sediment record from Lake Höglwörth, Bavaria**      08:00 - 08:00  
*Presenter: Sudip Acharya, DE*
- OR041      **Reconstruction of the regional environment and biogeochemical evolution of high altitude relict Himalayan Lake using stable isotopes**      08:00 - 08:00  
*Presenter: Abdur Rahman, IN*

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08:00 - 17:30

Oral Presentations on Demand

**Sustainable freshwater management in the 21st century**

- OR036      **Safeguarding freshwater ecosystems and biodiversity in the African Great Lakes: evidence synthesis for researchers and decision-makers**      08:00 - 08:00  
*Presenter: Kevin Obiero, KE*
- OR037      **Zooplankton indicators of Water quality in three reservoirs in the State of Mexico**      08:00 - 08:00  
*Presenter: Nandini Sarma, MX*
- OR038      **Study of invasive exotic aquatic plants in the Cedillo and Alcántara reservoirs with Sentinel-1 and Sentinel-2 images. *First results.***      08:00 - 08:00  
*Presenter: Bárbara Alvado, ES*
- OR039      **Why we need broader monitoring for more successful freshwater restoration**      08:00 - 08:00  
*Presenter: Laurence Carvalho, NO*

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08:00 - 17:30

Oral Presentations on Demand

**The future of small water bodies in the context of global change**

- OR032      **A multi-scale analysis and classification of the hydrogeomorphological characteristics of Irish headwater streams**      08:00 - 08:00  
*Presenter: Edward Cox, IE*
- OR033      **How often a monomictic subtropical lake will remain stratified throughout the year under expected climate changes?**      08:00 - 08:00  
*Presenter: Yael Amitai, IL*
- OR034      **Connectivity across the European waterscape: relevance of source-sink dynamics across freshwater bioregions**      08:00 - 08:00  
*Presenter: David Cunillera-Montcusi, ES*

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08:00 - 17:30

Oral Presentations on Demand

**Toxic cyanobacteria in freshwater: opportunities through molecular tools**

- OR031      **Harmful algal blooms - Putting toxigenic genotypes and nontoxic mutants of microcystin-producing cyanobacteria on a map**      08:00 - 08:00  
*Presenter:* Rainer Kurmayer, AT

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08:00 - 17:30

Oral Presentations on Demand

**Urban inland waters - hotspots of global change**

- OR030      **Coupling conductivity and stable water isotopes to infer chloride transport and flow paths in an urban stream**      08:00 - 08:00  
*Presenter:* Cody Ross, CA

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08:00 - 17:30

Oral Presentations on Demand

**Ecology and conservation of temporary aquatic ecosystems**

- OR098      **Physiological conservation of anuran: Application of combined veterinary clinical examinations to diagnose the health condition in frogs**      08:00 - 08:00  
*Presenter:* Jun-Kyu Park, KR
- OR100      **Factors controlling zooplankton communities in temporary rock pools**      08:00 - 08:00  
*Presenter:* Luciana Barbosa, BR

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08:00 - 17:30

Oral Presentations on Demand

**Effects of environmental variability and extremes on freshwater systems - from individuals to ecosystems**

- OR012      **An extreme drought event homogenises the diatom composition of two shallow lakes in southwest China**      08:00 - 08:00  
*Presenter:* Anna-Marie Klamt, DK
- OR013      **Mitigating cyanobacterial harmful algal blooms (CyanoHABs) in a world facing increasing human and climatic perturbations**      08:00 - 08:00  
*Presenter:* Hans Paerl, US
- OR014      **Trace elements distribution of the sediment core in a high sedimentation reservoir**      08:00 - 08:00  
*Presenter:* He Wen-yan, CN
- OR015      **Isotopic disentanglement of moisture sources: Insights into the precipitation histories of mountain river systems**      08:00 - 08:00  
*Presenter:* Bibhasvata Dasgupta, IN
- OR016      **Evaluation of Metal (loid) Accumulation in the**      08:00 - 08:00

- Surficial Sediment of Mavi Lake, Ankara**  
*Presenter:* Şeyda Fikirdeşici Ergen, TR
- OR017 **Impacts on ancient lakes: Loss of level in Prespa Lakes (North Macedonia) as a case of study** 08:00 - 08:00  
*Presenter:* Juan Soria, ES
- OR018 **Assessing lake ecosystem recovery from acidification and responses to emerging environmental stressors: a paleolimnological perspective** 08:00 - 08:00  
*Presenter:* Yuanyu Cheng, CA
- OR019 **Flexible life history is essential for the mayfly, *Hexagenia limbata*, to survive in western Lake Erie** 08:00 - 08:00  
*Presenter:* Ron Griffiths, CA
- OR021 **Unique ecological characteristics of pristine bog lakes in Latvia** 08:00 - 08:00  
*Presenter:* Matiss Zagars, LV
- OR022 **Multiple stressors impact macroinvertebrate shredder communities. Insights from a microcosm experiment** 08:00 - 08:00  
*Presenter:* Valentin Dinu, RO
- OR023 **The Resulting Threats of Pollutants in the Solomon's Pools (Borak Suleiman), Bethlehem Governorate, Palestine (Occupied), Added to the Already Existing Threats** 08:00 - 08:00  
*Presenter:* Hilmi S. Salem, PS
- OR024 **Environmental stress increases the effects of pesticides** 08:00 - 08:00  
*Presenter:* Naeem Shahid, DE

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 08:00 - 17:30

Oral Presentations on Demand

**Novel insights into freshwater ecosystem processes by stable isotopes**

- OR010 **Nutrient export from agricultural catchments to eutrophic lakes in New Zealand: insight from isotopes to inform catchment management** 08:00 - 08:00  
*Presenter:* Meti Yulianti, NZ
- OR011 **Primary production determined by <sup>13</sup>C-labelling is a viable alternative to the classic radiocarbon incubation** 08:00 - 08:00  
*Presenter:* Alexander H. Frank, DE

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 08:00 - 17:30

Oral Presentations on Demand

**Invasive alien species in inland waters: invasion trends, impacts and management**

- OR075 **Trichoptera species on the North-Atlantic islands with** 08:00 - 08:00

**emphasis on Iceland**

- |       |   |               |
|-------|---|---------------|
| OR076 | <b>Impacts of alien species on native freshwater megafauna</b><br><i>Presenter: Xing Chen, DE</i>   | 08:00 - 08:00 |
| OR077 | <b>Effect of copper (Cu) and temperature on the feeding behavior of the invasive (<i>Mesocyclops pehpeiensis</i>) and native (<i>Mesocyclops longisetus</i> and <i>Microcyclops dubitabilis</i>) copepods (Crustacea: Copepoda)</b><br><i>Presenter: Leticia Esmeralda Cruz-Escalante, MX</i> | 08:00 - 08:00 |
| OR078 | <b>The role of intra-specific diversity on microbial invasions in lakes</b><br><i>Presenter: Guntram Weithoff, DE</i>   | 08:00 - 08:00 |
| OR079 | <b>What do we know about variation of the crayfish plague pathogen? Overview from both invaded and native ranges</b><br><i>Presenter: Adam Petrusek, CZ</i>   | 08:00 - 08:00 |
|       | <b>Freshwater crayfish introductions in AfricaTC</b><br><i>Speaker: Takudzwa Comfort Madzivanzira, ZA</i>   | 08:00 - 08:00 |

*Oral Presentations on Demand*  
08:00 - 17:30

Oral Presentations on Demand

**Phosphorus, nitrogen, cyanobacteria and eutrophication - from molecules to macroscale**

- |       |   |               |
|-------|---|---------------|
| OR042 | <b>Phosphorus diagenesis linked to methane and iron in lake sediments of a coastal embayment of eastern Georgian Bay, Lake Huron</b><br><i>Presenter: Xiaoqing Shao, CA</i>         | 08:00 - 08:00 |
| OR043 | <b>Relationship between cyanobacteria and phosphorus during 24 solar terms in Lake Taihu, China</b><br><i>Presenter: Guangwei Zhu, CN</i>   | 08:00 - 08:00 |
| OR044 | <b>Links between cellular phosphorus storage and P uptake strategies of freshwater cyanobacteria populations</b><br><i>Presenter: Man Xiao, CN</i>                                  | 08:00 - 08:00 |
| OR045 | <b>Development of Phosphorous Removing Bioreactors with Woodchip and Eggshell Substrates for Agricultural Land</b><br><i>Presenter: Zachary Diloreto, CA</i>                        | 08:00 - 08:00 |
| OR047 | <b>Reducing internal phosphorus loading and preventing flooding in a popular Wisconsin, USA seepage lake using a siphon pipe system</b><br><i>Presenter: Richard C. Lathrop, US</i> | 08:00 - 08:00 |
| OR048 | <b>Cyanobacterial biomass in freshwaters of the Americas: revisiting the main predicting factors</b>  | 08:00 - 08:00 |

- Presenter: Sylvia Bonilla, UY
- OR049 **How does the *Raphidiopsis raciborskii* adapt to environmental phosphorus?** 08:00 - 08:00  
 Presenter: Fang Bai, CN
- Physico-chemical conditions in Lake Abaya, Southern Ethiopia** 08:00 - 08:00  
 Speaker: Samuel Tessema, ET

Oral Presentations on Demand  
 08:00 - 17:30

Oral Presentations on Demand

**Biodiversity, community assembly and functioning in plankton communities**

- OR001 **Unusual abundance of bloom forming *Aulacoseira* spp. diatom populations in an anthropogenically impacted stretch of lower part of the River Ganga** 08:00 - 08:00  
 Presenter: Chakresh Kumar, IN
- OR002 **Zooplankton abundance and biomass in shallow eutrophic Yeniçağa Lake (Bolu, Turkey)** 08:00 - 08:00  
 Presenter: Bura Uğur Sorguç, TR
- OR003 **Effect of crustacean (cladocerans and copepods) conditioned medium on the algal food intake and filtration rates of the rotifer *Brachionus havanaensis* (Rotifera)** 08:00 - 08:00  
 Presenter: Ana Nayeli López-Rocha, MX
- OR004 **Impact of cyanobacteria on the physiological performance of *Daphnia magna*** 08:00 - 08:00  
 Presenter: Bettina Zeis, DE
- OR005 **Novel view on a framework of *Microcystis* spp. blooms: imaging flow cytometry analysis of bloom development in a mesocosm experiment** 08:00 - 08:00  
 Presenter: Natasha S. Barteneva, KZ  
 Speaker: Adina Zhumakhanova, KZ
- OR006 **Rapid evolution of morphological defences in *Daphnia galeata*** 08:00 - 08:00  
 Presenter: Pelita Octorina, DE
- OR007 **Temporal monitoring of cyanotoxin dynamics in the Lalla Takerkoust dam and transfer to the surrounding farms** 08:00 - 08:00  
 Presenter: Richard Mugani, MA
- OR008 **The enemy of my enemy - a new microsporidian symbiont and its context-dependent effects on *Daphnia*** 08:00 - 08:00  
 Presenter: Marcin K. Dziuba, US
- OR009 **Single-cell population genomics of a bloom-forming microalga** 08:00 - 08:00



Presenter: Raphael Gollnisch, SE

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08:00 - 17:30

Oral Presentations on Demand

**Fish ecology, management and conservation**

- OR097      **Assessment of physicochemical properties and capture fisheries/cage culture activities in Koga Reservoir, West Gojjam, Ethiopia**      08:00 - 08:00  
*Presenter: Abebe Getahun, ET*
- ON008      **Food web structure in Mediterranean streams: influences of invaders and habitat change (recorded presentation)**      08:00 - 08:12  
*Presenter: Joana Martelo, PT*
- Human land-use alter the trophic ecology of omnivorous fish in Neotropical streams**      08:12 - 08:12  
*Speaker: Mayara Neves, BR*
- OR130      **Fatty acid content and composition in various tissues of freshwater fish (*Thymallus baicalensis*), with a special focus on DHA synthesis**      08:12 - 08:12  
*Presenter: Olesia Makhutova, RU*

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08:00 - 17:30

Oral Presentations on Demand

**Gases in inland waters: production, accumulation, and emission**

- OR086      **Experimental analysis and numerical modelling for dissolved gases transfer through spillways**      08:00 - 08:00  
*Presenter: Xiaolong Cheng, CN*
- OR087      **Eutrophication impacts on methane emission from temperate mediterranean lakes: a case study**      08:00 - 08:00  
*Presenter: Mariana Vargas-Sánchez, MX*
- OR088      **Damming river shapes distinct patterns and processes of planktonic bacterial and microeukaryotic communities**      08:00 - 08:00  
*Presenter: Qiong Tang, CN*
- OR089      **ROS-driven methane formation across living organisms: new perspectives for understanding of methane formation in oxic aquatic environments**      08:00 - 08:00  
*Presenter: Frank Keppler, DE*
- OR090      **Nexus analysis of Water-Electricity-Carbon emissions and strategies for carbon reduction and electricity lowering**      08:00 - 08:00  
*Presenter: Xinxia He, CN*
- OR091      **The net GHG emissions of the Three Gorges Reservoir in China in full-scale synthesis**      08:00 - 08:00

	<i>Presenter: Zhe Li, CN</i>	
OR092	<b>Evidence of methane transformations near oxic/anoxic interface of Georgian Bay's embayment, Lake Huron</b> <i>Presenter: Khoren Avetisyan, CA</i>	08:00 - 08:00
OR093	<b>Experimental Study on Adsorption Effect of Porous Media on Supersaturated Total Dissolved Gas</b> <i>Presenter: Chonglin Wang, CN</i>	08:00 - 08:00
OR094	<b>A novel high-resolution in situ tool for studying carbon biogeochemical processes in aquatic systems: the Lake Aiguebelette case study</b> <i>Presenter: Roberto Grilli, FR</i>	08:00 - 08:00
ON123	<b>Methane fluxes in Amazon floodplain lakes: measurements and modeling</b> <i>Presenter: John Melack, US</i>	08:00 - 08:00
ON251	<b>Methane production by Cyanobacteria isolated from soda lakes in the Brazilian Pantanal</b> <i>Presenter: Carolinne Rosa de Carvalho, BR</i>	08:00 - 08:00
ON067	<b>Near-surface Turbulence in Arctic, Temperate, and Tropical Inland Waters: Implications for Gas Fluxes</b> <i>Presenter: Sally MacIntyre, US</i>	08:00 - 08:00

*Exhibition*  
08:00 - 17:30

Exhibition Area Foyer C

**Exhibition**

*Biodiversity and ecosystem functioning*  
08:30 - 10:10

Plenary Room Berlin 3-6 Live Streamed!

**Biodiversity, community assembly and functioning in plankton communities**

*Chair: Andras Abonyi, AT*

*Chair: Evangelia Smeti, GR*

*Chair: Jana Isanta-Navarro, US*

*Chair: Robert Ptacnik, AT*

*Chair: Maria Stockenreiter, DE*

	<b>Introduction</b>	08:30 - 08:32
ON113	<b>Multimodal size distribution of ecologically similar species structures phytoplankton communities after storm-induced brownification</b> <i>Presenter: Alexis L. N. Guislain, DE</i>	08:32 - 08:44
ON114	<b>Long-term ecological research on the exceptional dominance of heterotrophic flagellates in the plankton of the River Rhine (Cologne)(LTER REES)</b> <i>Presenter: Hartmut Arndt, DE</i>	08:44 - 08:56
ON115	<b>Using functional diversity components to describe phytoplankton community assemblage processes in</b>	08:56 - 09:08

	<b>Turkish shallow lakes</b>	
	<i>Presenter: Meryem Beklioğlu, TR</i>	
ON116	<b>Biogeography and beta-diversity patterns of reservoir protist communities in subtropical and tropical China</b>	09:08 - 09:20
	<i>Presenter: Yuanyuan Mo, CN</i>	
ON118	<b>Pesticide exposure affects community dynamics in zooplankton strengthening dominance patterns</b>	09:20 - 09:32
	<i>Presenter: Rafaela Almeida, BE</i>	
ON119	<b>Induction of diel vertical migration in zooplankton by an identified fish infochemical</b>	09:32 - 09:44
	<i>Presenter: Eric von Elert, DE</i>	
ON120	<b>Mate-seeking behavior in the calanoid copepod <i>Eodiaptomus japonicus</i> from Lake Biwa, Japan</b>	09:44 - 09:56
	<i>Presenter: Xin Liu, JP</i>	
ON117	<b>Three constructed wetlands within a severely polluted Mediterranean natural park increase plankton diversity of the resulting outflow communities (recorded presentation)</b>	09:56 - 10:08
	<i>Presenter: Nuria Carabal, ES</i>	
	<b>Closing Remarks</b>	10:08 - 10:10
	<i>Ecosystem linkages</i>	
	08:30 - 10:10	Parallel 2 Berlin 1
	<b>Links between landscapes and surface water chemistry</b>	
	<i>Chair: Emma Kritzberg, SE</i>	
	<i>Chair: Ryan Sponseller, SE</i>	
	<i>Chair: Martin Škerlep, SE</i>	
	<b>Introduction</b>	08:30 - 08:32
ON153	<b>Differential trends in iron concentrations of boreal streams linked to catchment characteristics</b>	08:32 - 08:44
	<i>Presenter: Martin Škerlep, SE</i>	
ON154	<b>Long-term changes in dissolved inorganic carbon (DIC) across boreal streams caused by altered hydrology</b>	08:44 - 08:56
	<i>Presenter: Marcus Wallin, SE</i>	
ON155	<b>Landscape-drivers of Carbon sources and processes in Boreal rivers of Québec</b>	08:56 - 09:08
	<i>Presenter: Michaela de Melo, CA</i>	
ON156	<b>Spatiotemporal dynamics of dissolved organic matter reactivity and drinking water treatability in a Swedish great lake</b>	09:08 - 09:20
	<i>Presenter: Mona Abbasi, SE</i>	

ON157	<b>Spruce cultivation and draining of peatland as drivers of brownification</b> <i>Presenter: Jasmin Borgert, SE</i>	09:20 - 09:32
ON158	<b>Catching up climate- and land use changes by paleolimnological methods</b> <i>Presenter: Gunnhild Riise, NO</i>	09:32 - 09:44
ON159	<b>Lake Lunz: First Bottom Anoxia in more than a Century of Observations</b> <i>Presenter: Robert Ptacnik, AT</i>	09:44 - 09:56
ON160	<b>Organic matter degradation across ecosystem boundaries: The need to move towards a more unified conceptualization</b> <i>Presenter: Dolly Kothawala, SE</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Data and Models*  
08:30 - 10:10

Parallel 3 Berlin 2

**Using aquatic mesocosms for ecosystem studies, environmental engineering and nature-based solutions to experimentally tackle ecosystem grand challenges**

*Chair: Jens Christian Nejstgaard, DE*

*Chair: Stella Berger, DE*

*Chair: Maria Stockenreiter, DE*

*Chair: Lisette de Senerpont Domis, NL*

*Chair: Meryem Beklioğlu, TR*

*Chair: Paraskevi Pitta, GR*

*Chair: Robert Ptacnik, AT*

	<b>Introduction</b>	08:30 - 08:32
ON129	<b>Combining mesocosm experiments with dynamical modelling - the synergy of two powerful approaches</b> <i>Presenter: Sebastian Diehl, SE</i>	08:32 - 08:44
ON130	<b>Ecosystem consequences of boreal lake browning and eutrophication - using mesocosms as tools for food web studies</b> <i>Presenter: Antonia Liess, SE</i>	08:44 - 08:56
ON131	<b>Effect of Brownification on the microbial food web of the oligotrophic Eastern Mediterranean Sea: A mesocosm experiment</b> <i>Presenter: Iordanis Magiopoulos, GR</i>	08:56 - 09:08
ON132	<b>Lake phytoplankton under multiple stress: browning counteracts nutrients impact on cyanobacteria - a multiscale study</b> <i>Presenter: Stella Berger, DE</i>	09:08 - 09:20
ON133	<b>The combined impact of low temperatures and shifting phosphorus availability on the competitive ability of cyanobacteria in natural phytoplankton</b>	09:20 - 09:32

**communities**

*Presenter:* Charlotte Briddon, RO

- |       |  |               |
|-------|--|---------------|
| ON134 | <b>Skyglow effects on lake primary producers in an ecosystem-scale enclosure experiment</b><br><i>Presenter:</i> Mark O. Gessner, DE   | 09:32 - 09:44 |
| ON135 | <b>Comparing four different in-lake treatments to control sediment nutrient release in an enclosure study</b><br><i>Presenter:</i> Li Kang, NL   | 09:44 - 09:56 |
| ON136 | <b>AQUACOSM-plus: an open international network for aquatic mesocosm facilities supporting experimental ecosystem studies across the marine/freshwater divide</b><br><i>Presenter:</i> Jens Christian Nejstgaard, DE | 09:56 - 10:08 |
|       | <b>Closing Remarks</b>   | 10:08 - 10:10 |

*Stressors*

08:30 - 10:10

Parallel 4 A1

**Large and deep lakes under stress: how resilient are lake ecosystems?**

*Chair:* Piet Spaak, CH

*Chair:* Blake Matthews, CH

- |       |  |               |
|-------|--|---------------|
|       | <b>Introduction</b>  | 08:30 - 08:32 |
| ON161 | <b>Big, deep, warm, or cold: how lakes characteristics determine lake resilience to algal blooms</b><br><i>Presenter:</i> Annette B. G. Janssen, NL  | 08:32 - 08:44 |
| ON162 | <b>Environmental conditions and dynamics of a <i>Limnographis</i> cyanobacterial bloom in lake Atitlán, Guatemala and tools for its potential early detection</b><br><i>Presenter:</i> Claudia Suseth Romero-Oliva, GT | 08:44 - 08:56 |
| ON163 | <b>Decadal water quality trends in the Finger Lakes, New York, USA</b><br><i>Presenter:</i> Roxanne Razavi, US   | 08:56 - 09:08 |
| EP164 | <b>The emergence of <i>Planktothrix rubescens</i> as an hypolimnetic bloom forming cyanobacterium in response to environmental change</b><br><i>Speaker:</i> Bastiaan Ibelings, CH                                     | 09:08 - 09:20 |
| ON164 | <b>Individual trait and fitness variation in a phytoplankton population across eutrophic and re-oligotrophic periods</b><br><i>Presenter:</i> Richard Lambrecht, DE  | 09:20 - 09:32 |
| ON165 | <b>Projecting multi-dimensional habitats to year 2100 in Lake Constance</b><br><i>Presenter:</i> Benjamin Kraemer, DE  | 09:32 - 09:44 |

ON166	<b>Do invasive species change ecosystem functions in Lake Constance in an irreversible way?</b> <i>Presenter: Piet Spaak, CH</i>	09:44 - 09:56
ON167	<b>Effect of anionic surfactant on the demography of <i>Platyonus patulus</i> (Rotifera) (recorded presentation)</b> <i>Presenter: Andrea González Ávila, MX</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10
<i>Data and Models</i> 08:30 - 10:10		Parallel 5 B5
<b>Assessment and biomonitoring of inland waters</b>		
<i>Chair: Marco Cantonati, IT</i>		
<i>Chair: Kalina Manoylov, US</i>		
	<b>Introduction</b>	08:30 - 08:32
ON137	<b><u>Benthic diatoms community dynamics in the Savannah River estuary</u></b> <i>Presenter: Kalina Manoylov, US</i>	08:32 - 08:44
ON138	<b>The FlowCam Cyano: A Rapid Detection and Screening Tool for Algae Monitoring Programs</b> <i>Presenter: Polly Barrowman, US</i>	08:44 - 08:56
ON139	<b>Exploring the use of desmids as a monitoring tool for dystrophic lakes in Western Ireland</b> <i>Presenter: Emma Gray, IE</i>	08:56 - 09:08
ON140	<b>Cattle-grazing effects on diatom assemblages and physical and chemical parameters in peat cores from Alpine mires</b> <i>Presenter: Maria Cid Rodriguez, IT</i>	09:08 - 09:20
ON141	<b>Diatoms as indicators of the effects of enhanced water-level fluctuations (artificial-snow production) in high ecological integrity high-mountain lakes of the south-eastern Alps</b> <i>Presenter: Marco Cantonati, IT</i>	09:20 - 09:32
ON142	<b>Sensing freshwater biodiversity in remote and understudied regions with DNA-based methods: insights into regional and local biodiversity patterns on Sicily</b> <i>Presenter: Kamil Hupaló, DE</i>	09:32 - 09:44
ON143	<b>Towards better biomonitoring of temporary aquatic ecosystems: insights from dry streams in wet places</b> <i>Presenter: Rachel Stubbington, GB</i>	09:44 - 09:56
ON144	<b>Impact and monitoring of Land-based Salmon Aquaculture Effluents in North Patagonian streams of Southern Chile</b> <i>Presenter: Jorge Nimptsch, CL</i>	09:56 - 10:08

	<b>Closing Remarks</b>	10:08 - 10:10
	<i>Biogeochemistry and Microbes</i> 08:30 - 10:10	Parallel 6 C4
	<b>Gases in inland waters: production, accumulation, and emission</b>	
	<i>Chair: Zhe Li, CN</i>	
	<i>Chair: Mina Bizic, DE</i>	
	<i>Chair: Bertram Boehrer, DE</i>	
	<i>Chair: Yves Prairie, CA</i>	
	<i>Chair: Hans-Peter Grossart, DE</i>	
	<b>Introduction</b>	08:30 - 08:32
ON121	<b>The effect of sediment gas storage on methane ebullition dynamics in a freshwater reservoir</b> <i>Presenter: Lediane Marcon, DE</i>	08:32 - 08:44
ON122	<b>The impact of extreme hydrological events on reservoir methane emissions</b> <i>Presenter: Bradford Sherman, AU</i>	08:44 - 08:56
ON382	<b>Urban greenhouse-gas dynamics: A 3D-printed autonomously operating floating chamber for high-frequency measurements of CO<sub>2</sub> and CH<sub>4</sub> emissions from freshwaters</b> <i>Presenter: Benjamin Archer, DE</i>	08:56 - 09:08
ON124	<b>High temporal resolution of greenhouse gas fluxes in a eutrophic reservoir</b> <i>Presenter: Eva Rodríguez-Velasco, ES</i>	09:08 - 09:20
ON125	<b>Internal lake and pond dynamics drive greenhouse gas fluxes to the atmosphere</b> <i>Presenter: James Cotner, US</i>	09:20 - 09:32
ON126	<b>Methane dynamics in sediments of freshwater ecosystems: from local to global scale</b> <i>Presenter: Karla Martinez-Cruz, DE</i>	09:32 - 09:44
ON127	<b>Global patterns in the methane to carbon dioxide ratio of running waters</b> <i>Presenter: Ryan Sponseller, SE</i>	09:44 - 09:56
ON128	<b>A framework for the assessment and forecast of the carbon retention and GHG exchanges of wetland ecosystems: Linking conservation, management, restoration and climate policy</b> <i>Presenter: Antonio Camacho, ES</i>	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Data and Models*

08:30 - 10:10

Parallel 7 A4

**Linking physical and biogeochemical lake modeling**

*Chair:* Behnam Zamani, DE

	<b>Introduction</b>	08:30 - 08:32
ON145	<b>The impact of lake morphometry and mixing on benthic and pelagic primary production - a 2D modelling approach</b> <i>Presenter:</i> Hugo Harlin, SE	08:32 - 08:44
ON146	<b>SMARTLAGOON - Coupled catchment-physics-biogeochemical modelling in lakes and coastal lagoons</b> <i>Presenter:</i> Jorrit P. Mesman, SE	08:44 - 08:56
ON147	<b>A coupled physical-biogeochemical model of GHG dynamics for reservoirs</b> <i>Presenter:</i> Yves Prairie, CA	08:56 - 09:08
ON149	<b>A calibrated, simple model for predicting pelagic primary production in lakes from inflow nutrient loads, lake size, and water residence time</b> <i>Presenter:</i> Isabella Oleksy, US	09:08 - 09:20
ON150	<b>Using high level validation and ensemble modelling to increase lake ecosystem model reliability</b> <i>Presenter:</i> Shajar Regev, IL	09:20 - 09:32
ON148	<b>An individual-based model of <i>Microcystis</i> bloom dynamics in a shallow lake (recorded presentation)</b> <i>Presenter:</i> Mohammadhassan Ranjbar, AU	09:32 - 09:44
ON152	<b>Amazonian flood plain thermal structure stability over hydrological periods and spatial diversity: first appraisal (recorded presentation)</b> <i>Presenter:</i> Sebastien Pinel, FR	09:44 - 09:56
ON151	<b>Toward long-term modelling of the thermal regime and oxygen solubility of perialpine lakes (recorded presentation)</b> <i>Presenter:</i> Olivia Desgué-Itier, FR	09:56 - 10:08
	<b>Closing Remarks</b>	10:08 - 10:10

*Coffee Break*

10:10 - 10:40

Plenary Room Berlin 3-6 Live Streamed!

**Coffee Break**

*Coffee Break*

10:10 - 10:40

Parallel 2 Berlin 1

**Coffee Break**



Coffee Break  
10:10 - 10:40

Parallel 3 Berlin 2

**Coffee Break**

Coffee Break  
10:10 - 10:40

Parallel 4 A1

**Coffee Break**

Coffee Break  
10:10 - 10:40

Parallel 5 B5

**Coffee Break**

Coffee Break  
10:10 - 10:40

Parallel 6 C4

**Coffee Break**

Coffee Break  
10:10 - 10:40

Parallel 7 A4

**Coffee Break**

*Biodiversity and ecosystem functioning*  
10:40 - 12:20

Plenary Room Berlin 3-6 Live Streamed!

**Biodiversity, community assembly and functioning in plankton communities**

*Chair:* Andras Abonyi, AT

*Chair:* Evangelia Smeti, GR

*Chair:* Jana Isanta-Navarro, US

*Chair:* Robert Ptacnik, AT

*Chair:* Maria Stockenreiter, DE

**Introduction**

10:40 - 10:42

ON280

**Zooplankton community composition in the White and Blue Niles near Khartoum: combining molecular and morphological approaches**

10:42 - 10:54

*Presenter:* Samah Makawi, DE

ON281

**The pico powerhouse: exploring the diverse and dynamic communities of picocyanobacteria in New Zealand lakes across the trophic spectrum**

10:54 - 11:06

*Presenter:* Lena Schallenberg, NZ

ON282

**Seasonal variation of symbiotic bacterial community in three dominant crustacean zooplankton in Lake Biwa, Japan**

11:06 - 11:18

*Presenter:* Taiabur Rahman Tuhin, JP

ON283

**Fluorescently labelled bacteria in combination with FACS successfully discriminate actively-feeding mixotrophs in a lake water sample**

11:18 - 11:30

*Presenter:* Javier Florenza, SE

ON284

**Infection by a eukaryotic gut parasite in wild zooplankton associates with a distinct bacterial**

11:30 - 11:42

	<b>community</b>	
	<i>Presenter:</i> Amruta Rajarajan, CH	
ON285	<b>Functional ecology of planktonic ciliates. I. Response to predators</b>	11:42 - 11:54
	<i>Presenter:</i> Thomas Weisse, AT	
ON286	<b>Functional ecology of planktonic ciliates. II. Thermal response</b>	11:54 - 12:06
	<i>Presenter:</i> Dunja Lukić, AT	
ON287	<b>Mysterious ciliates: seasonally recurrent and yet hard to predict</b>	12:06 - 12:18
	<i>Presenter:</i> Ursula Gaedke, DE	
	<b>Closing Remarks</b>	12:18 - 12:20
<i>Ecosystem linkages</i>		
10:40 - 12:20		Parallel 2 Berlin 1
<b>Links between landscapes and surface water chemistry</b>		
<i>Chair:</i> Emma Kritzberg, SE		
<i>Chair:</i> Ryan Sponseller, SE		
<i>Chair:</i> Martin Skerlep, SE		
	<b>Introduction</b>	10:40 - 10:42
ON324	<b>Terrestrial dissolved organic nitrogen uptake in streams: just another form of nitrogen or part of the carbon cycle?</b>	10:42 - 10:54
	<i>Presenter:</i> Mario Brauns, DE	
OR056	<b>Reservoir eutrophication due to catchment deforestation emphasizes the indirect effects of global change (recorded presentation)</b>	10:54 - 11:06
	<i>Presenter:</i> Xiangzhen Kong, DE	
ON326	<b>Labile dissolved organic carbon influences in-stream ammonium uptake across biomes</b>	11:06 - 11:18
	<i>Presenter:</i> Anna Lupon, ES	
ON327	<b>Can riparian forests improve water and sediment quality in agricultural headwater streams?</b>	11:18 - 11:30
	<i>Presenter:</i> Gabriele Weigelhofer, AT	
ON329	<b>Denitrification in vegetated and unvegetated freshwater lakes and rivers</b>	11:30 - 11:42
	<i>Presenter:</i> Sarah Faye Harpenslager, DE	
ON330	<b>Can POC increase reactive nutrient uptake by stream biofilms? - a laboratory experiment</b>	11:42 - 11:54
	<i>Presenter:</i> Elmira Akbari, AT	
ON331	<b>A social-ecological biogeography of Canadian Lakes</b>	11:54 - 12:06
	<i>Presenter:</i> Roxane Maranger, CA	

ON328	<b>LIFE-Goodstream: a holistic approach to reach good ecological status of an agricultural stream (recorded presentation)</b> <i>Presenter: John Strand, SE</i>	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20
<i>Data and Models</i> 10:40 - 12:20		Parallel 3 Berlin 2
	<b>Using aquatic mesocosms for ecosystem studies, environmental engineering and nature-based solutions to experimentally tackle ecosystem grand challenges</b> <i>Chair: Jens Christian Nejstgaard, DE</i> <i>Chair: Stella Berger, DE</i> <i>Chair: Maria Stockenreiter, DE</i> <i>Chair: Lisette de Senerpont Domis, NL</i> <i>Chair: Meryem Beklioğlu, TR</i> <i>Chair: Paraskevi Pitta, GR</i> <i>Chair: Robert Ptacnik, AT</i>	
	<b>Introduction</b>	10:40 - 10:42
ON300	<b>Microalgal community in the plastisphere across an environmental gradient: results of a mesocosm experiment</b> <i>Presenter: Veronica Nava, IT</i>	10:42 - 10:54
ON301	<b>Impacts of salinization on shallow lakes: synchronized long-term gradient mesocosm experiments in two different climates, Turkey</b> <i>Presenter: Cihelio Amorim, TR</i>	10:54 - 11:06
ON302	<b>Effects of flow reduction and biodiversity decline on periphyton characteristics and carbon cycling</b> <i>Presenter: Flavia Tromboni, US</i>	11:06 - 11:18
ON303	<b>Effects of the psychoactive drug Venlafaxine on freshwater food-web dynamics and ecosystem functioning</b> <i>Presenter: Asmita Dubey, NL</i>	11:18 - 11:30
ON304	<b>Breaching barriers to open mesocosm science</b> <i>Presenter: Lisette de Senerpont Domis, NL</i>	11:30 - 11:42
ON305	<b>Double trouble: Warming and Dissolved Organic Carbon (DOC) disturbance on Microbial Loop (recorded presentation)</b> <i>Presenter: Gülce Yalçın, TR</i>	11:42 - 11:54
ON306	<b>Long-term acclimation might enhance the growth and competitive ability of <i>Microcystis aeruginosa</i> in warm environments (recorded presentation)</b> <i>Presenter: Elisabeth Ramm, DE</i>	11:54 - 12:06
ON307	<b>CO<sub>2</sub> and O<sub>2</sub> dynamics in Closed Ecological Systems of algae, <i>Daphnia</i>, and microbes (recorded presentation)</b>	12:06 - 12:18

**presentation)**

*Presenter:* Frieda B. Taub, US

**Closing Remarks**

12:18 - 12:20

*Biogeochemistry and Microbes*

10:40 - 11:30

Parallel 4 A1

**Bio-manipulations for eutrophic waters restoration**

*Chair:* Xiufeng Zhang, CN

*Chair:* Lars Rudstam, US

**Introduction**

10:40 - 10:41

ON290

**Testing the efficacy of restoration measures to re-establish charophyte communities in oligo-mesotrophic hardwater lakes of Northeast Germany**

10:41 - 10:53

*Presenter:* Patrick Heidbüchel, DE

ON291

**Mussels can facilitate the restoration of eutrophic waters by improving water clarity, enhancing macrophyte growth and changing plankton community**

10:53 - 11:05

*Presenter:* Xiufeng Zhang, CN

ON289

**Morphological responses of *Dolichospermum* to protozoan grazing revealed by transcriptome and proteome analysis (recorded presentation)**

11:05 - 11:17

*Presenter:* Yuan Huang, CN

ON288

**Can invasive round goby control invasive quagga mussels? (recorded presentation)**

11:17 - 11:29

*Presenter:* Lars Rudstam, US

**Closing Remarks**

11:29 - 11:30

*Data and Models*

10:40 - 12:20

Parallel 5 B5

**Assessment and biomonitoring of inland waters**

*Chair:* Marco Cantonati, IT

*Chair:* Kalina Manoylov, US

**Introduction**

10:40 - 10:42

ON308

**The intestinal helminth community of the mallard *Anas platyrhynchos* L,1758 from Austria**

10:42 - 10:54

*Presenter:* Franz Jirsa, AT

ON309

**A year in a river's life: Unveiling seasonal dynamics of fish, invertebrates, and diatoms using environmental DNA**

10:54 - 11:06

*Presenter:* Till-Hendrik Macher, DE

ON310

**Identification of biodiversity of the freshwater ecosystem by eDNA from the feces of benthic invertebrates**

11:06 - 11:18

	<i>Presenter:</i> Kang-Hui Kim, KR	
ON311	<b>Zooplankton functional groups as water quality indicators: application to reservoirs</b> <i>Presenter:</i> Manuel Eduardo Muñoz Colmenares, ES	11:18 - 11:30
ON312	<b>New insights into Danube's macroinvertebrate communities from DNA metabarcoding as part of the Joint Danube Survey 4 (JDS4)</b> <i>Presenter:</i> Arne J. Beermann, DE	11:30 - 11:42
ON313	<b>Taxonomic and ecological characterization of new and poorly-known <i>Nitzschia (Bacillariophyta)</i> species from the Island of Cyprus</b> <i>Presenter:</i> Olena Bilous, UA	11:42 - 11:54
ON314	<b>Warming of surface temperature in alpine lakes and consequence for productivity</b> <i>Presenter:</i> Hanna Pritsch, AT	11:54 - 12:06
ON315	<b>Applicability of DNA-based macroinvertebrate identification in the IBMWP index for ecological status assessment. Strengthens and issues to be solved for routine Iberian biomonitoring national program (recorded presentation)</b> <i>Presenter:</i> Raquel González, ES	12:06 - 12:18
	<b>Closing Remarks</b>	12:18 - 12:20

*Biogeochemistry and Microbes*  
10:40 - 12:20

Parallel 6 C4

**Freshwater sediments as sinks of carbon and sources of greenhouse gases**

*Chair:* Sebastian Sobek, SE

*Chair:* Raquel Mendonça, BR

	<b>Introduction</b>	10:40 - 10:42
ON292	<b>Century-scale carbon burial trends from over 100 temperate and boreal lakes in Canada</b> <i>Presenter:</i> Candice Aulard, CA	10:42 - 10:54
ON293	<b>Has acid deposition reduced long-term carbon storage in northern forest lakes?</b> <i>Presenter:</i> Carsten Meyer-Jacob, CA	10:54 - 11:06
ON294	<b>Predicting methane formation rates in sediments of lakes in different northern climates</b> <i>Presenter:</i> Simone Moras, SE	11:06 - 11:18
ON295	<b>What are lake bubbles telling us? - methane production in littoral sediments</b> <i>Presenter:</i> Jihyeon Kim, CA	11:18 - 11:30
ON297	<b>Do <i>Gonyostomum semen</i> blooms counteract brownwater lake CO<sub>2</sub> emissions?</b>	11:30 - 11:42

	<i>Presenter:</i> Karla Münzner, SE	
ON298	<b>Temporal patterns and potential drivers of CO<sub>2</sub> emission from dry sediments of a large river</b> <i>Presenter:</i> Matthias Koschorreck, DE	11:42 - 11:54
ON299	<b>Greenhouse gas emissions from dredged material and potential mitigation measures: an experimental approach</b> <i>Presenter:</i> Judith van der Knaap, NL	11:54 - 12:06
	<b>Closing Remarks</b>	12:06 - 12:08

*Data and Models*  
10:40 - 12:20

Parallel 7 A4

**Combining data-driven and process-based models: Perspectives for limnological studies**

*Chair:* Marco Toffolon, IT

*Chair:* Robert Ladwig, US

*Chair:* Samantha Oliver, US

*Chair:* Sebastiano Piccolroaz, IT

*Chair:* Tom Shatwell, DE

	<b>Introduction</b>	10:40 - 10:42
ON316	<b>Letting Data estimate Turbulent Diffusive Transport: Boosting the performance of a 1D lake model through modular compositional learning</b> <i>Presenter:</i> Robert Ladwig, US	10:42 - 10:54
ON317	<b>Lake Ice Thickness Patterns identified by Machine Learning</b> <i>Presenter:</i> Azadeh Yousefi, IT	10:54 - 11:06
ON318	<b>Ensemble projections of climate change impacts on Lake Sevan using latest climate products and a lake model ensemble</b> <i>Presenter:</i> Muhammed Shikhani, DE	11:06 - 11:18
ON319	<b>Integrating lake modeling and paleolimnological records for improving long-term simulations of water quality in a deep peri-alpine lake</b> <i>Presenter:</i> Laura M. V. Soares, FR	11:18 - 11:30
ON320	<b>Prediction of algal blooms in multiple lakes via a two-step hybrid process-based and machine learning model architecture</b> <i>Presenter:</i> Shuqi Lin, SE	11:30 - 11:42
ON321	<b>Fecal Indicator Bacteria modelling in rivers with a deterministic approach</b> <i>Presenter:</i> Paul Dupain, FR	11:42 - 11:54
ON322	<b>Combining modelling and chemostat experiments to analyse non-linear dynamics that drive single-species</b>	11:54 - 12:06

**populations**

*Presenter:* Johannes Werner, DE

ON323	<b>Food web approximation from empirical data, different clustering methods and their effect on food web model predictions</b>	12:06 - 12:18
	<i>Presenter:</i> Kerstin Günther, DE	
	<b>Closing Remarks</b>	12:18 - 12:20

*Data and Models*  
11:30 - 12:20

Parallel 4 A1

**Novel insights into freshwater ecosystem processes by stable isotopes**

*Chair:* Alexander H. Frank, DE

*Chair:* Tobias Goldhammer, DE

	<b>Introduction</b>	11:30 - 11:31
ON332	<b>Tracking the biochemical fate of terrestrial and plastic carbon using compound-specific isotopes</b>	11:31 - 11:43
	<i>Presenter:</i> Sami Taipale, FI	
ON333	<b>Stable carbon and nitrogen isotopes composition of soft-water lakes vegetation along pH gradient</b>	11:43 - 11:55
	<i>Presenter:</i> Eugeniusz Pronin, PL	
ON334	<b>The role of the atmosphere as an oxygen source in a temperate reservoir: a case study of Rappbode Reservoir, Germany</b>	11:55 - 12:07
	<i>Presenter:</i> Marlene Dordoni, DE	
ON335	<b>New perspective of trophic magnification factor reflecting average biomagnification based on multi diets (recorded presentation)</b>	12:07 - 12:19
	<i>Presenter:</i> Dokyun Kim, KR	
	<b>Closing Remarks</b>	12:19 - 12:20

*Lunch Break*  
12:20 - 13:50

Plenary Room Berlin 3-6 Live Streamed!

**Lunch Break**

*Lunch Break*  
12:20 - 13:50

Parallel 3 Berlin 2

**Lunch Break**

*Lunch Break*  
12:20 - 13:50

Parallel 4 A1

**Lunch Break**

*Lunch Break*  
12:20 - 13:50

Parallel 5 B5

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 6 C4

**Lunch Break**

Lunch Break  
12:20 - 13:50

Parallel 7 A4

**Lunch Break**

Networking Activities and Assemblies  
12:30 - 13:30

Parallel 2 Berlin 1

**SIL International Committee Meeting**

Plenary lectures  
13:50 - 14:35

Plenary Room Berlin 3-6 Live Streamed!

**Kilham Lecture Susie Wood**

Chair: Tamar Zohary, IL

**Kilham Lecture**

13:50 - 13:50

Speaker: Susie Wood, NZ

Plenary lectures  
14:35 - 15:20

Plenary Room Berlin 3-6 Live Streamed!

**Baldi Lecture David Hamilton**

Chair: Tamar Zohary, IL

**Baldi Lecture**

14:35 - 14:35

Speaker: David Hamilton, AU

Coffee Break  
15:20 - 15:50

Plenary Room Berlin 3-6 Live Streamed!

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 2 Berlin 1

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 3 Berlin 2

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 4 A1

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 5 B5

**Coffee Break**

Coffee Break  
15:20 - 15:50

Parallel 6 C4

**Coffee Break**



Coffee Break  
15:20 - 15:50

Parallel 7 A4

**Coffee Break**

Workshops  
15:50 - 17:30

Plenary Room Berlin 3-6 Live Streamed!

**Hundred Limnology Questions**

Chair: Lars Tranvik, SE  
Chair: Mark O. Gessner, DE  
Chair: Rita Adrian, DE

Inland waters and Society  
15:50 - 16:40

Parallel 2 Berlin 1

**The beginning of SIL - following the traces of objects and persons**

Chair: Elisabeth I. Meyer, DE  
Chair: Astrid Schwarz, DE

**Introduction**

15:50 - 15:51

ON448

**The „pre-SIL“ phase of August Thienemann**

15:51 - 16:03

Presenter: Elisabeth I. Meyer, DE

ON449

**The legacy of Einar Naumann(1891-1934): Following the material and immaterial traces**

16:03 - 16:15

Presenter: Astrid Schwarz, DE

ON450

**Rivalry, competition, peaceful coexistence, or ignorance: drinking water and the relationship between limnology and chemical analysis**

16:15 - 16:27

Presenter: Norman Pohl, DE

ON451

**Aquatic ecosystem ecology: from "lake respiration" to carbocentric limnology (recorded presentation)**

16:27 - 16:39

Presenter: Alexandra Rizhinashvili, RU

**Closing Remarks**

16:39 - 16:40

Workshops  
15:50 - 17:30

Parallel 3 Berlin 2

**SIL Working Group Meeting**

Chair: Miquel Lurling, NL

Workshops  
15:50 - 17:30

Parallel 4 A1

**SIL Working Group Meeting**

Chair: Luciana Barbosa, BR

Workshops  
15:50 - 17:30

Parallel 5 B5

**SIL Working Group Physical Limnology**

Chair: Bertram Boehrer, DE

*Inland waters and Society*

15:50 - 17:30

Parallel 6 C4

**Open dialogue on world water issues and solutions across generations**

*Chair:* Michio Kumagai, JP

*Chair:* Ryusuke Kimitsuki, CA

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|-------|---|---------------|
| ON452 | <b>Lake Biwa shows you the Earth breathing</b><br><i>Presenter:</i> Michio Kumagai, JP  | 15:50 - 16:02 |
| ON454 | <b>Development of a cellphone-based alarm system for harmful algal blooms</b><br><i>Presenter:</i> Yasuyuki Fujii, JP                                   | 16:02 - 16:14 |
| ON455 | <b>The Abundance and Composition of Microplastics in Lake Biwa</b><br><i>Presenter:</i> Mayu Kimitsuki, JP  | 16:14 - 16:26 |
| ON456 | <b>Daphnia in Lake Biwa and Water circulation</b><br><i>Presenter:</i> Riku Morimoto, JP  | 16:26 - 16:38 |
| ON457 | <b>The art of mentorship: lessons learnt from undergraduate freshwater ecologists</b><br><i>Presenter:</i> Maxine Allayne Darlene Mowe, SG              | 16:38 - 16:50 |
| ON458 | <b>Start from the local to the world - MLGs Citizen/Youth participation</b><br><i>Presenter:</i> Marina Hata, JP  | 16:50 - 17:02 |
| ON459 | <b>Summary of the workshop: "Limnology at the crossroads: its role in freshwater conservation and management?"</b><br><i>Speaker:</i> Philip J.Boon, GB | 17:02 - 17:14 |
| ON453 | <b>The end of nature?</b><br><i>Presenter:</i> Klement Tockner, DE  | 17:14 - 17:26 |

*Workshops*

15:50 - 17:30

Parallel 7 A4

**Workshop: Empowering cooperation in research on inland waters**

*Chair:* Klement Tockner, DE

*Chair:* Christiane Zarfl, DE

*Inland waters and Society*

16:40 - 17:30

Parallel 2 Berlin 1

**Past, present and future of Herstory of limnology**

*Chair:* Clara Mendoza-Lera, DE

*Chair:* Anna Lupon, ES

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|-------|--|---------------|
|       | <b>Introduction</b>  | 16:40 - 16:42 |
| ON460 | <b>Gender gap in Science - A small attempt to understand and tackle it</b><br><i>Presenter:</i> Clara Mendoza-Lera, DE | 16:42 - 16:54 |
| ON461 | <b>Towards women-inclusive ecology: participation of</b>   | 16:54 - 17:06 |

**women at an international conference**

*Presenter:* Anna Lupon, ES

ON462	<b>Women in Limnology: from a historical perspective to a present-day evaluation</b>	17:06 - 17:18
	<i>Presenter:</i> Nuria Catalan, FR	
	<b>Closing Remarks</b>	17:18 - 17:20

*Opening/Closing*  
17:40 - 18:40

Plenary Room Berlin 3-6 Live Streamed!

**Student Award Ceremony**

*Chair:* Tamar Zohary, IL

*Chair:* Judit Padisak, HU

	<b>Plenary Lecture of Student winner: Community structure and collapses in multichannel food webs</b>	17:40 - 17:40
	<i>Speaker:</i> Samuel Dijoux, CZ	
	<b>2nd prize winner, SIL student competition: Congress Report</b>	17:40 - 17:40
	<i>Speaker:</i> Joachim Jansen, SE	
	<b>3rd prize winners, SIL student competition: Congress Report</b>	17:40 - 17:40
	<i>Speaker:</i> Marcin K. Dziuba, US	
	<i>Speaker:</i> Lena Schallenberg, NZ	

*Opening/Closing*  
18:40 - 19:10

Plenary Room Berlin 3-6 Live Streamed!

**Working Group Reports**

*Opening/Closing*  
19:10 - 19:40

Plenary Room Berlin 3-6 Live Streamed!

**Closing Ceremony**

*Chair:* Thomas Mehner, DE

*Chair:* Rita Adrian, DE

*Chair:* Lars Tranvik, SE

	<b>Words from the Local Organization Committee</b>	19:10 - 19:10
	<b>“Changing of the guards”, Executive Committee</b>	19:10 - 19:10
	<b>Brazil 2024, Luciana Barbosa</b>	19:10 - 19:10
	<b>Closing remarks</b>	19:10 - 19:10