



## PROGRAM

- by sessions -



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## ORAL PRESENTATIONS

- by sessions -



## Plenary lectures

### **Monday, July 1 (room: Crystal ballroom 1)**

#### **9.10**

EU environment policy-related research needs for nature and water protection in Europe (Frank VASSEN)

### **Tuesday, July 2 (room: Crystal ballroom 1)**

#### **9.10**

Dispersal and oviposition of aquatic insects: critical events that link terrestrial and aquatic phases of populations and influence population dynamics (Jill LANCASTER)

### **Thursday, July 4 (room: Crystal ballroom 1)**

#### **9.10**

Relationships of multiple stressors and biological responses in freshwaters: Impact, scales and mechanisms (Daniel HERING)

### **Friday, July 5 (room: Crystal ballroom 1)**

#### **9.10**

Migratory waterbirds as key vectors of dispersal for plants and invertebrates – case studies from Europe (Ádám LOVAS-KISS)

## RS1 Algae

### **Monday, July 1 (room: Tuškanac)**

**10.30**

Effects of artificial light at night on benthic primary producers in freshwaters (Maja GRUBIŠIĆ)

#### **PhD awardee**

**10.45**

Taxonomic shift over a phosphorus gradient affects the stoichiometry and fatty acid composition of stream periphyton (Alessandra IANNINO)

**11.00**

Functional response of the phytoplankton community towards changes in stratification in a large oligotrophic lake (Benedikt EHRENFELS)

**11.15**

Bioindication of the aquatic ecosystems status in Ukraine within the framework of European Water Policy (Olena BILOUS)

## RS2 Climate change and freshwater ecosystems

### Tuesday, July 2 (room: Panorama)

#### 10.30

Influence of the paraglacial landscape along the river continuum in a deglaciating Alpine catchment (Stefano BRIGHENTI)

#### 10.45

Climate-induced drivers shaping biodiversity of subarctic freshwater ecosystems (Jón S. ÓLAFSSON)

#### 11.00

Structural and functional responses of macroinvertebrate communities to climate change in five Alpine streams fed by shrinking glaciers (Valeria LENCIONI)

#### 11.15

Peculiarities of energy metabolism of northern populations of freshwater amphipoda as adaptation to climate variability (Nadezhda BEREZINA)

#### 11.30

Long-term water temperature trends in Europe's fourth largest lake show recent and rapid warming in winter (Burak ÖĞLÜ)

#### 11.45

Winter sheltering from a predator – importance of shelter quality (Eva BERGMAN)

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#### 13.30

Drivers of change and predictability of lake biological diversity in an age of climate change (Karan KAKOUEI)

#### 13.45

The global sensitivity of lake phytoplankton communities to climate change (Ian JONES)

#### 14.00

Eutrophication or climate change? Long-term decrease in the efficiency of trophic coupling between phytoplankton and zooplankton — A causality analysis (Géza B. SELMECZY)

#### 14.15

Disentangling the impacts of changing mixed depth and water temperature on a modelled lake phytoplankton community (Emma GRAY)

#### 14.30

The nutritional quality of phytoplankton influences the tolerance to extreme water temperatures in the waterflea *Daphnia magna* (Apostolos-Manuel KOUSSOROPLIS)

#### 14.45

Multidecadal Trends in Hydrology, hydrochemical variables and phytoplankton in large shallow eutrophic Lake Võrtsjärv (Estonia) (Peeter NÕGES)



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**15.30**

The climate crisis increases not only vertical and seasonal water temperature differences, but also irregular variabilities in a mountain lake (Georg H. NIEDRIST)

**15.45**

Initial steps in understanding the in-lake effects of floating solar (floatovoltaics) deployments; changes to the stratification and thermal dynamics (Giles EXLEY)

**16.00**

Impact of rising CO<sub>2</sub> concentrations on harmful cyanobacterial blooms – from cell to bloom dynamics (Jolanda M. H. VERSPAGEN)

**16.15**

CO<sub>2</sub> emission from lowland streams of the Pampean region (Argentina) (Claudia FEIJOÓ)

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**Thursday, July 4 (room: Crystal ballroom 1)****10.30**

Do conventional and conservation agricultural management practices play an important role for CO<sub>2</sub> flux in summer paddy production of Myanmar? (Saw MIN)

**10.45**

Changes on river ecosystem functioning caused by dam operations (M.B. HOANG)

**11.00**

Warming bends the threshold elemental ratio in a homeostatic consumer (Thomas RUIZ)

**11.15**

Multiple stressors and river biofilms: a mesocosms approach to elucidate the impacts of global change on biodiversity – ecosystem function (Ferran ROMERO)

**11.30**

Integrating water quantity and quality in eco-hydrological relationships (Devanshi PATHAK)

**11.30**

Hydrology: key to restore lowland streams and mitigate climate change (Piet FM VERDONSCHOT)

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**13.30**

Ecological consequences of current and future conductivity in German surface water under climate change (Trong Dieu Hien LE)

**13.45**

Catastrophic forest fires, global change, and water quality (Clifford N. DAHM)

**14.00**

Changes in the vegetation structure in a lake dominated by a rare charophyte, *Lychnothamnus barbatus*, in the light of climate change and human impact (Michał BRZOZOWSKI)

#### **14.15**

Moderate warming over the past 25 years has already reorganized stream invertebrate communities (Peter HAASE)

#### **14.30**

30 years of climate drying: impacts on Australian mediterranean-climate stream invertebrate communities and what European med-streams might expect in the future (Nicole CAREY)

#### **14.45**

The impact of drought on non-perennial river inundation patterns: a case study from the Nuwejaars River, Cape Agulhas, South Africa (Brigitte MELLY)

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#### **15.30**

The effects of temperature during embryogenesis on juvenile fish: Atlantic salmon and brown trout in an altered climate (Larry GREENBERG)

#### **15.45**

Structural and functional long-term changes in large-river fish communities detected with a novel meta-analysis framework (Anthony MAIRE)

#### **16.00**

Colonization of benthic invertebrates in karstic spring area: a case study (Denis BUĆAN)

## RS3 Conservation

### **Tuesday, July 2 (room: Maksimir)**

#### **15.45**

Feeding and habitat preferences in streams of the endemic New Zealand freshwater mussel (kākahi – *Echyridella* sp.) and insights into translocation (Channell THOMS)

#### **16.00**

Combining species distribution model and conservation planning software to assess the suitability of an existing protected river network (Mathieu FLOURY)

#### **16.15**

A flexible spatial approach to integrate floodplain and upstream catchment connectivity in spatial planning (Vanessa REIS)

#### **16.30**

Conservation status of *Chirocephalus marchesonii* Ruffo & Vesentini, 1957 in the Pilato Lake (Sibillini Mountains National Park, Central Italy) (Antonella CAROSI)

#### **16.45**

Successful reintroduction of macroinvertebrates in a restored lowland stream (Ralf VERDONSCHOT)

## RS4 Ecological modelling

### **Monday, July 1 (room: Zrinjevac)**

#### **10.30**

Use the past to predict the future – on the use of historical data to validate species distribution models (Martin FRIEDRICHS)

#### **10.45**

Water quality and macrophytes in the Danube River: ANN modelling (Dušanka CVIJANOVIĆ)

#### **11.00**

Three-dimensional modelling and satellite remote sensing for assessing the water quality of a Mediterranean Reservoir (Najwa SHARAF)

#### **11.15**

Quantifying projected effects of global change on riverine phytoplankton species richness (Yueming QU)

#### **11.30**

The conceptual and empirical nature of freshwater macrosystem research (James H. THORP)

#### **11.45**

Effects of landscape permeability on dispersal and colonization of a aquatic insect – a modeling approach (Lucas STREIB)

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#### **13.30**

Disentangling the influence of climate and hydrological predictor variables on benthic macroinvertebrate distribution (Katie IRVING)

#### **13.45**

Mechanistic versus empirical models: experience with macroinvertebrates in streams (Nele SCHUWIRTH)

#### **14.00**

Effects of site selection and taxonomic resolution on the inference of stream invertebrate responses to environmental conditions (Bogdan CARADIMA)

#### **14.15**

Modelling robustness of habitat networks against stress (Henriette HEER)

#### **14.30**

Modelling the synergy of multiple stress effects (Matthias LIESS)

#### **14.45**

Do urban multi-stressors and their effects on stream biota shift during droughts? (Ian R. WAITE)

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#### **15.30**

Modelling the food web structure of a large shallow lake (Upendra BHELE)

**15.45**

Automated calibration strategies in ecological modelling using high-frequency in situ data (Francesco PICCIONI)

**16.00**

What catchment-lake relationships reveal about organic carbon budget: insights from Estonian lakes (Fabien CREMONA)

**16.15**

Modelling accretion dynamics and C sequestration in coastal agrosystems under sediment deficit (Maria BELENGUER-MANZANEDO)

**16.30**

Quantifying the contribution of cattle access to stream nutrient loading using real-time data and a modelling approach (Eleanor JENNINGS)

**16.45**

Extreme events and community resilience in lakes: testing the concept with a phytoplankton model (J. Alex ELLIOTT)

## RS5 Ecotoxicology and stress responses

### Monday, July 1 (room: Crystal ballroom 2)

#### 10.30

Multiple stressors interacting on ecological processes in Dutch drainage ditches (Gea VAN DER LEE)

#### 10.45

Multi-stressor's effects on contamination and toxicity in French streams using ecotoxicological indicators based on caged gammarids (Noëlle SARKIS)

#### 11.00

Can microbial functions mediate the impact of multiple stressors on regime shift in lake ecosystems? (Joey ALLEN)

#### 11.15

Biological responses of Prussian carp (*Carassius gibelio*, Bloch 1782) to the impact of industrial wastewaters in the Ilova River (Tatjana MIJOŠEK)

#### 11.30

Investigating the behavioural and physiological response of endangered freshwater pearl mussels to stress exposure (Edward Andrew Morten CURLEY)

#### 11.45

Locomotor and cardiac responses of crayfish exposed to simulated predation risk at environmental concentration of methamphetaminental concentration of methamphetamine (Filip LOŽEK)

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#### 13.45

Linking exposure of pesticides to ecological effects in small streams (Matthias LIESS)

#### 14.00

Pesticide pollution increases the risk of infection with schistosomiasis (Jeremias BECKER)

#### 14.15

Impact of two herbicides on "classical descriptors" and fatty acid profiles of the freshwater diatom *Nitzschia palea* (Floriane DEMAILLY)

#### 14.30

Linking benthic diatom community metrics to stream pesticide contamination (Floriane LARRAS)

#### 14.45

Standartox – a tool for assessing the risk of chemicals (Andreas SCHARMÜLLER)

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#### 15.30

Into the freshwaters and back: transfer of emerging contaminants through the aquatic-terrestrial habitat linkage (Ana PREVIŠIĆ)

**15.45**

Tackling chemical and n-chemical stress in running water ecosystems: Lessons learned from a longitudinal approach (Markus WEITERE)

**16.00**

Contaminated leaf litter reduces shredder growth but increases decomposition (Eva LIMA-FERNANDES)

**16.15**

Agricultural run-off-induced regime shift in aquatic phototrophic communities changes with elevated temperature (Bastian H. POLST)

**16.30**

Effects of complex micropollutant mixtures on benthic invertebrates (Jochen BECKER)

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**Tuesday, July 2 (room: Crystal ballroom 2)**

**10.30**

Sublethal effects of micropollutants from wastewater treatment plants in benthic invertebrates – a field study (Jacqueline KASCHEK)

**10.45**

Microplastics in caddisfly larval cases: first evidence of freshwater microplastics incorporated into larval constructions (Sonja M. EHLERS)

**11.00**

Influence of mixture of microplastic particles (MP) on n-biting midges of *Chironomus riparius* in laboratory setup (Jelena STANKOVIĆ)

**11.15**

Evaluation of Cerium-oxide (CeO<sub>2</sub>) nanoparticle toxicity to freshwater midge *Chironomus riparius* (Diptera, Chironomidae) – potential biomarkers (Dimitrija SAVIĆ-ZDRAVKOVIĆ)

**11.30**

Responses of lower trophic level consumers to an addition of silver nanoparticles: A whole lake ecosystem approach (Katarina CETINIĆ)

**11.45**

Why are mayflies sensitive to salinity? (Ben KEFFORD)

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**13.30**

Evaluating the impacts of treated and untreated hypersaline effluents from abandoned mines on freshwater ecosystems (Lidia VENDRELL PUIGMITJÀ)

**13.45**

Cellular energy allocation in stygophilous amphipod *Synurella ambulans* from the hyporheic zone of the Sava River (Zuzana REDŽOVIĆ)

## RS6 Fish (and other vertebrate) biology

### Thursday, July 4 (room: Overture)

#### 10.30

Reliability analysis of fish life-history traits reveals discrepancies among databases (Carlos CANO-BARBACIL)

#### 10.45

Scavenging behaviour of black bullhead (*Ameiurus melas*) (Bálint PREISZNER)

#### 11.00

Effect of the parasite *Ligula pavlovskii* on the life history traits of the monkey goby (*Neogobius fluviatilis*), an invasive benthic fish in Lake Balaton (Hungary) (Nóra BOROSS)

#### 11.15

Isotopic evidence for multi-decadal shifts in trophic ecology of the long-lived Australian lungfish (Mark KENNARD)

#### 11.30

Fish muscle quality drops during spawning – seasonal changes in fatty acid composition of salmonid fish in a subarctic lake (Ossi KEVA)

#### 11.45

Selective retention of algal polyunsaturated fatty acids along stream food webs and within fish organs (Nadine EBM)

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#### 13.30

The effect of hydropower plant on fish stocks in two glacier-fed rivers in East Iceland (Ingi Runar JONSSON)

#### 13.45

Evolutionary history of endemic fish species facilitating their survival in changing environments – a case study on genus *Telestes* in Croatia (Ivana BUJ)

#### 14.00

Past, present and future of trouts in Žumberak-Samoborsko gorje Nature park (Lucija IVIĆ)

#### 14.15

Population genetic structure of *Salmo farioides* (Ana TOMAŠIĆ)



## RS7 Freshwater science in policy, management, monitoring and restoration

### **Tuesday, July 2 (room: Opera)**

#### **13.45**

A framework for automated anomaly detection in high frequency water-quality data from in situ sensors (Catherine LEIGH)

#### **14.00**

Twenty-five years of investments in water quality: An evaluation of the chemical and biological water quality of a lowland stream in the Zwalm River basin (Belgium) (Pieter BOETS)

#### **14.15**

The River Ecosystem Service Index (RESI) (Martin PUSCH)

#### **14.30**

Challenges in linking water contamination, its impacts on freshwater biota and the consequences for ecosystem services delivery (Mary KELLY-QUINN)

#### **14.45**

Non-native species and biomonitoring procedures: implications and new challenges for biotic indices calculation and reliability in river ecosystems (Simone GUARESCHI)

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#### **15.30**

Correspondance of taxonomic and functional trait biodiversity with natural flow regime classification (Cássia ROCHA POMPEU)

#### **15.45**

Effects of flow regime regulation on river habitats, riparian vegetation and fish and macroinvertebrate communities in a Pyrenean river (Catalonia, NE Iberian Peninsula) (Maria Isabel GONZÁLEZ PÉREZ)

#### **16.00**

Macroinvertebrates, an important tool in bioassessment and water bodies classification strategy (Marina ŠUMANOVIĆ)

#### **16.15**

Interaction between regional and local scale habitat quality in shaping benthic invertebrate communities — Implications for stream restoration practice (Stefan STOLL)

#### **16.30**

Hydromorphological river restoration: Does it work? Could we reach reference conditions? (Marlène ROLAN-MEYNARD)

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**Thursday, July 4 (room: Panorama)****10.30**

Effects of dam decommissioning on stream biodiversity and ecosystem functioning (Miren ATRISTAIN)

**10.45**

Vertical distributions of limnological variables and water column stability in a regulated river (Nakdong, South Korea) (Eunsong JUNG)

**11.00**

Learning by doing in river restoration: easy to say, but difficult to apply (Lucie SPRECHER)

**11.15**

Catchment water quality in the first year immediately following and preceding restoration of a drained afforested blanket bog (Paul P.J. GAFFNEY)

**11.30**

Riparian forest succession in a river island after a restoration project of replacing a poplar plantation (Sorrall island, Ter river, Catalonia, NE Iberian Peninsula) (Marc ORDEIX)

**11.45**

Effect of river restoration on life strategies in fish communities (Alessandro MANFRIN)

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**13.30**

Population structure of brown trout (*Salmo trutta*) and its relationship with environmental factors and macroinvertebrate biomass and diversity in a Mediterranean stream (Marc ORDEIX)

**13.45**

The potential of long term fish removal in eutrophic lakes? (Ilkka SAMMALKORPI)

**14.00**

Effects of habitat limitation on common barbel (*Barbus barbus*) recruitment – a probabilistic approach based on an age-structured population model (David FARÒ)

**14.15**

Assessment of the degree of fragmentation in Irish river catchments (Siobhán ATKINSON)

**14.30**

Accounting for uncertainty in defining a fishery's safe operating space (SOS) (Gideon GAL)

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**15.30**

Challenges and opportunities for rehabilitation of streams in a rapidly changing country (Yaron HERSHKOVITZ)

**15.45**

Urban runoff overflows – an important obstacle in recovery projects of reservoirs (Jindřich DURAS)



**16.00**

An ounce of prevention is worth a pound of cure: Managing macrophytes for nitrate mitigation in canal networks (Giuseppe CASTALDELLI)

**16.15**

The food-web perspective in multiple-stressor research and management (Andreas BRUDER)



## RS8 Wetlands, brackish and coastal ecosystems

No oral presentations. See poster presentations.



RS9 Hydromorphology, hydrology, hydrogeology, hydrochemistry

**Tuesday, July 2 (room: Opera)**

**11.30**

Hydromorphological monitoring of rivers in Croatia – main issues and problems (Ivan ČANJEVAC)

## RS10 Interspecies interactions

### Monday, July 1 (room: Tuškanac)

14.00

Parasitism affects the biodiversity-functioning relationship (André FRAINER)

14.15

Thermal factor in digenean larvae transmission success (Elżbieta ŻBIKOWSKA)

14.30

*Potamopyrgus antipodarum* (Gray, 1843) as a potential biological control agent for swimmers' itch (Anna MARSZEWSKA)

14.45

Non-native molluscan hosts and their parasites (Trematoda: Digenea, Aspidogastrea) in Poland (Anna CICHY)

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15.30

Shallow lake multitaxonomic diversity: relative influence of environmental and biotic relationships (Aurélien JAMONEAU)

15.45

Model-based analyses of fish data provide empirical evidence for strong effects of species interactions on community composition in lakes (Thomas MEHNER)

16.00

Trait based zooplankton selection of small whitefish (*Coregonus wartmanni*) and invasive three-spined stickleback (*Gasterosteus aculeatus*) (Žiga OGORELEC)

16.15

*Gammarus fossarum* determines species composition of macroinvertebrate communities: evidence from a three-level experiment (Vít SYROVÁTKA)

16.30

What doesn't kill you, makes you stronger: Frequency of chronic predation risk determines changes in physiology of aquatic prey (Łukasz JERMACZ)

16.45

Metabarcoding as a tool to determine feeding behavior – is the European pond turtle a threat for other endangered species? (Charlotte DUCOTTERD)

## RS11 Invasive species

### Tuesday, July 2 (room: Maksimir)

#### 10.30

Does the invasional meltdown exist in the exotic Ponto-Caspian community in Europe? (Jarosław KOBAK)

#### 10.45

Exotic freshwater fish invasions – dynamics and effects (Marco MILARDI)

#### 11.00

Round goby vs. marbled crayfish – some notes to interactions between two important invaders (Sara ROJE)

#### 11.15

Is there a positive effect of an invader? Recognition of heterospecific alarm cues between an alien Ponto-Caspian goby and a coexisting native cyprinid fish (Tomasz KAKAREKO)

#### 11.30

Ecological impact of the round goby *Neogobius melanostomus* (Pallas, 1814) towards hard-bodied benthic prey in dependence upon its type, ratio and density: functional response in lab (Pavel FRANTA)

#### 11.45

The role of human in the distribution of *Phoxinus* (Cyprinidae): tracking introduction pathways and first molecular evidences of the European minnow in the Douro Basin (Iberian Peninsula) (Aina GARCIA-RAVENTÓS)

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#### 13.30

Habitat use of invasive monkey goby and pumpkinseed in Lake Balaton (Hungary) (István CZEGLÉDI)

#### 13.45

Double threat – can global warming increase physiological cost of antipredator response of native and invasive gammarids? (Katarzyna KRZYŻYŃSKA)

#### 14.00

Distribution and ecology of peracarid crustaceans in the River Danube – insights from the 3rd Joint Danube Survey (Péter BORZA)

#### 14.15

Possible roles of killer shrimp (*Dikerogammarus villosus*) in relation to invasive crayfish (Miloš BUŘIČ)

#### 14.30

Riverbank burrowing by signal crayfish (*Pacifastacus leniusculus*): quantifying rapid behavioural change in native and invasive populations (Harry SANDERS)



**14.45**

Can season and parasite infestation change the behaviour of zebra mussels? (Anna DZIERZYNSKA-BIALONCZYK)

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**15.30**

Consequences of river bank stabilization for the abundance and secondary production of invasive macroinvertebrates in a large river (Sandra HILLE)



## RS12 Karst

### **Monday, July 1 (room: Tuškanac)**

#### **11.30**

Impacts of calcium carbonate deposition on phosphorus availability in aquatic ecosystems (Jessica CORMAN)

#### **11.45**

How will the macroinvertebrates cope with the projected environmental changes (Sara ŠARIRI)

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#### **13.30**

Interdisciplinary approach for sustainable management of reactivated channels along Skradinski buk tufa barrier (Vesna GULIN)

#### **13.45**

Perennial phenology patterns and ecological traits of Dixidae (Insecta, Diptera) in lotic habitats of a barrage lake system (Lara IVANKOVIĆ)

## RS13 Lakes, reservoirs and ponds

### **Tuesday, July 2 (room: Zrinjevac/Tuškanac)**

#### **14.15**

Global-scale patterns in the seasonality of freshwater lakes (Stephen THACKERAY)

#### **14.30**

Drivers of zooplankton assemblages in temporary ponds between different latitude and climate (Maria ŠPOLJAR)

#### **14.45**

Whole-lake ecosystem metabolism in two contrasting Estonian lakes (Alo LAAS)

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#### **15.30**

Nitrogen in Estonian lakes – expected impacts and knowledge gaps (Tiina NÕGES)

#### **15.45**

Changes in the macrozoobenthos of a small northern lake from 2002 to 2017 (Alexey MAXIMOV)

#### **16.00**

The effect of changes in water residence time and stream inflow temperature on stratification dynamics and mixing in a small temperate lake (Freya OLSSON)

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### **Thursday, July 4 (room: Zrinjevac/Tuškanac)**

#### **10.30**

Understanding sediment transport processes – coupling erosion with reservoir siltation (Stephan HILGERT)

#### **10.45**

Calcite precipitation, a major driver of carbon fluxes in lakes and reservoirs (Hares KHAN)

#### **11.00**

A strong variation of  $\delta^{13}\text{C}$  signal over the years in oligotrophic reservoir (Lukáš VESELÝ)

#### **11.15**

Zooplankton in Mediterranean ponds – some implication for conservation measures (Tvrтко DRAŽINA)

#### **11.30**

Wind and lake characteristics drive algal growth in a large and turbid delta lake (lake Markermeer) after oligotrophication (Harm VAN DER GEEST)

#### **11.45**

Phytoplankton community dynamics in Basque reservoirs: pigment and microscopic approaches (Alfredo LLORENTE)

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**13.30**

Development of macroinvertebrate based index for monitoring and assessment of Croatian man-made lakes (Zlatko MIHALJEVIĆ)

**13.45**

Man-made vs. natural lakes: a story told by chironomid community (Valentina DORIĆ)

**14.00**

Non-invasive phosphate removal from the lake water – principles, efficiency and non-target effects (Agnieszka BAŃKOWSKA-SOBCZAK)

**14.15**

Effects of increased water level and salinity fluctuations on littoral macroinvertebrate assemblages in the shallow Vrana Lake in Dalmatia (Croatia) (Krešimir ŽGANEC)

**14.30**

The depth distribution of Oligochaeta (Annelida) assemblages in two barrage lakes (Natalija VUČKOVIĆ)

**14.45**

Autonomous data intensive monitoring technologies for the calibration and validation of remote sensing models (Carmen CILLERO)

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**15.30**

Human impact intensity affects pond biodiversity along gradients of abiotic conditions (Olivera STAMENKOVIĆ)

**15.45**

The relationship between epiphytic macroinvertebrate communities and macrophyte biomass (Enis AKAY)

**16.00**

Cascading effects of fish stock and resource stoichiometry on biodiversity of shallow hypertrophic fishponds (Jaroslav VRBA)

**16.15**

Mitigation of cold water pollution using a novel thermal curtain: potential impacts on fish populations (Laura MICHIE)

## RS14 Large rivers

### **Tuesday, July 2 (room: Opera)**

#### **10.30**

Multiple stressor effects on benthic macroinvertebrates in large European rivers – a typology-based evaluation of faunal responses as a basis for future bio-assessment (Patrick LEITNER)

#### **10.45**

Processes contributing to the maintenance of CO<sub>2</sub> and CH<sub>4</sub> super-saturation in a large boreal river (Pascal BODMER)

## RS15 Invertebrates

### **Monday, July 1 (room: Opera)**

#### **10.30**

Ecological and evolutionary physiology of aquatic beetles: coping with multiple stressors in inland saline waters (Susana PALLARÉS) **PhD awardee**

#### **10.45**

Do the trait profiles of macroinvertebrates converge across different biogeographic regions? (Stefan KUNZ)

#### **11.00**

Stoichiometric traits predict the composition of macroinvertebrate communities: Extending the Growth Rate Hypothesis to species development (Miriam BECK)

#### **11.15**

Functional homogenization of aquatic invertebrate communities in central Europe over 25 years (Francesca PILOTTO)

#### **11.30**

Benthic grazer and shredder communities suffer from agricultural induced degradation. Does functional redundancy help to keep up ecosystem functioning? (Ulrike HAASE)

#### **11.45**

Fine sediment impacts on macroinvertebrates: The current state of knowledge (Morwenna MCKENZIE)

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#### **13.30**

Dams modify energy flow pathways and food-web structure in fluvial ecosystems (Eduardo ESTÉVEZ)

#### **13.45**

Response of macroinvertebrate drift to hydropeaking – simulations of flow and up-ramping velocities in flume and field experiments (Diego TONOLLA)

#### **14.00**

Effect of water level fluctuations on the survival and migrations of macroinvertebrates from freshwater near-shore habitats (Małgorzata POZNAŃSKA-KAKAREKO)

#### **14.15**

Re-oligotrophication and invasive species impact littoral invertebrates in a large, pre-alpine lake: long-term isotopic evidence (Maike SABEL)

#### **14.30**

Evaluating the taxonomic and functional diversity of stream benthic invertebrate assemblages: morphological versus DNA metabarcoding approaches (Albin MEYER)

#### 14.45

Aquatic survey in the driest European country: Building a public aquatic macroinvertebrate DNA barcode reference library for Malta (Zoltán CSABAI)

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#### 15.30

Assessing different components of biodiversity across a river network using eDNA (Elvira MÄCHLER)

#### 15.45

eDNA monitoring of benthic invertebrate community and utility for environmental assessment in Japanese rivers (Noriko UCHIDA)

#### 16.00

Caddisfly, the underwater architects of gravel-bed rivers (Richard MASON)

#### 16.15

The role of crenal morphology in shaping water mite (Acari: Hydrachnidia) assemblages in karst springs (Ivana POZOJEVIĆ)

#### 16.30

Coarse detritus and organic matter content in muddy sediments affect the structure of Chironomidae larvae and abundance of Oligochaeta in shallow water bodies (Janusz ŻBIKOWSKI)

#### 16.45

Selective feeding by grazing mayfly nymphs in headwater streams (Daniela MEWES)

## RS16 Macrophytes

### **Tuesday, July 2 (room: Zrinjevac/Tuškanac)**

#### **10.30**

Carbon forms, nutrients and water velocity filter hydrophyte and river-bank species differently: A trait-based study (Balázs A. LUKÁCS)

#### **10.45**

Functional traits diversity of macrophytes explain nitrogen cycling in wetlands (Maidul I. CHOUDHURY)

#### **11.00**

Key factors sustaining alternative stable states between submerged and free-floating plants (Sandor SZABÓ)

#### **11.15**

DEMETHER: an integrated tool to model the spatiotemporal dynamics of submerged aquatic vegetation (Diane ESPEL)

#### **11.30**

Seasonal and regional variability of carbonate precipitation in charophytes and vascular plants (Andrzej PUKACZ)

#### **11.45**

Periphyton contributes to declining charophyte communities in oligo- and mesotrophic temperate hardwater lakes (Sabine HILT)

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#### **13.30**

*Potamogeton* meadows support shallow lake benthic communities (J. Arie VONK)

#### **13.45**

The role of groundwater supply alongside the riverbed on the development of Water Crowfoot vegetation (Krzysztof SZOSZKIEWICZ)

#### **14.00**

Relating response and effect traits in amphibious species contrasting to nutrient levels and light exposure (Paraskevi MANOLAKI)

## RS17 Microbial ecology

### **Friday, July 5 (room: Panorama)**

**10.30**

Unraveling heterotrophic ecosystem function in river networks: interactions among microbial function, community and organic matter (Lukas THUILE BISTARELLI)

**10.45**

Leaf it up to the microbes? Unravelling litter decomposition in urbanised streams (Jen A. MIDDLETON)

**11.00**

Influence of N:P ratio and nutrients concentration on intra and extracellular geosmin production (Carmen ESPINOSA ANGONA)

**11.15**

Effect of salinity on the aquatic and sedimentary microbial communities related to methane and sulphate in Mediterranean lakes (Javier MIRALLES-LORENZO)



## RS18 Molecular ecology, phylogeny and evolutionary studies

### Friday, July 5 (room: Zrinjevac/Tuškanac)

#### 10.30

From bulk to specific diet source tracking in aquatic food webs – the trophic value of  $d^{13}C$  and  $d^2H$  in fatty acids from various sources and consumers (Martin KAINZ)

#### 10.45

A comparison of eDNA sampling with traditional fyke net sampling for European eels, *Anguilla anguilla*, in Irish lakes (Laura WELDON)

#### 11.00

Isolation of southern Italian basins promoted genetic and morphologic variability in fluvio-lacustrine barbel populations (Osteichthyes, Cyprinidae) (Serena ZACCARA)

#### 11.15

NGS corroborates cryptic diversity within the Epiros riffle dace (*Telestes pleurobipunctatus*) (Nuria VIÑUELA RODRÍGUEZ)

#### 11.30

To be or not to be *Padogobius* (Jasna VUKIĆ)

## RS19 Plankton

### **Friday, July 5 (room: Opera)**

#### **10.30**

Oligotrophication of Lake Balaton over a 20-year period and its implications on the relationship between phytoplankton and zooplankton biomass (Gábor BERNÁT)

#### **10.45**

Impacts of the predatory cladoceran *Bythotrephes longimanus* on zooplankton communities in Austrian Alpine lakes (Radka PTACNIKOVA)

#### **11.00**

Molecular gut content analysis of the predatory cladoceran *Bythotrephes longimanus* in Austrian Alpine lakes (Arthur PICHLER)

## RS20 Surpassing aquatic boundaries

### **Tuesday, July 2 (room: Opera)**

#### **11.00**

How direct and indirect effects of agricultural stressors propagate from aquatic to terrestrial ecosystems (Moritz LINK)

#### **11.15**

Migratory gulls as vectors across the aquatic boundary (Andy J. GREEN)

## RS21 Streams

### **Tuesday, July 2 (room: Ouverture)**

#### **10.30**

Tributary effects on the ecological responses of a regulated river to an experimental flood (Gabriele CONSOLI)

#### **10.45**

Effects of an experimental flood on floodplain microbial assemblages in regulated rivers (Michael DOERING)

#### **11.00**

Spates reduce the persistence of macroinvertebrate communities in tropical streams (Adriano S. MELO)

#### **11.15**

Composition and functioning of streambed biofilm related to environmental gradients and interacting stressors (Nataša MORI)

#### **11.30**

Hydrological events mobilize dissolved organic carbon and soil microbes into small streams (Florian CAILLON)

#### **11.45**

Nutrient enrichment enhances seasonal variation of stream diatom communities (Kaisa-Leena HUTTUNEN)

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#### **13.30**

Evaluating the uncertainty on stream ecological assessment by an invertebrate-based index: effects of index construction and operator skill level (Albin MEYER)

#### **13.45**

Food quality drives macroinvertebrate community composition in lowland streams with differing in catchment land-use (Paula C. DOS REIS OLIVEIRA)

#### **14.00**

How much of leaf breakdown is attributable to invertebrate ingestion and secondary production? (Timothy MOULTON)

#### **14.15**

Night-time measurements highly relevant for assessing stream CO<sub>2</sub> fluxes: a Cross-European study (Katrin ATTERMEYER)

#### **14.30**

Decomposition across the riparian-stream meta-ecosystem alters litter processing in streams (Manuela ABELHO)

**14.45**

Global patterns of organic-matter decomposition in riverine ecosystems demonstrated through peer sourcing (Scott TIEGS)

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**15.30**

Role of aquatic macrophytes on streams waters chemistry (Celine CHARBONNIER)

**15.45**

Consequences of water diversion and its interaction with chemical pollution on river ecosystem functioning (Ana Victoria PEREZ-CALPE)

**16.00**

Litter quality modulates effects of dissolved nitrogen on leaf decomposition by stream microbial communities (Mark O. GESSNER)

**16.15**

Cyprinid fish in stream ecosystems can reduce eutrophication effects (Carola WINKELMANN)

**16.30**

Ecological role of beavers in the Swiss landscape (Christopher T. ROBINSON)



## RS22 Taxomy and systematics

No oral presentations. See poster presentations.

## RS23 Urban freshwaters

### **Thursday, July 4 (room: Maksimir)**

**10.30**

Stream biodiversity and habitat loss in two urban river systems over 40 years (Jon HARDING)

**10.45**

Impacts of pollution and hydrological stress may cause homogenization in biological communities (Sergi SABATER)

**11.00**

Urbanization reduces trophic redundancy and alters resource flow through stream food webs (Pavel KRATINA)

**11.15**

Seasonal variability of phosphorus release from sediments of an urban lake (Agnieszka BAŃKOWSKA-SOBCZAK)

**11.30**

Assessing the effects of a WWTP effluent on stream food webs through stable isotope analysis (Ioar DE GUZMAN)

**11.45**

Combined sewer overflows as a ruling force for the ecological status of small rivers? (Stephan HILGERT)

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**13.30**

High-frequency in situ monitoring of phytoplankton and cyanobacteria in a small urban lake (Brigitte VINÇON LEITE)

**13.45**

Freshwater biodiversity conservation: the role of artificial ponds in the 21st century (Beat OERTLI)

**14.00**

Benefits of nature based solutions for urban streams (Tadeusz FLEITUCH)

## SS1 Science and management of intermittent rivers and ephemeral streams: a European perspective

### Monday, July 1 (room: Crystal ballroom 1)

#### 10.30

Stream drying acceleration in Central Europe: Trends in aquatic and terrestrial communities (Petr PAŘIL)

#### 10.45

Combined impact of stream drying and organic pollution on invertebrate seedbank: Experimental rehydration of dry riverbed sediment (Barbora LOSKOTOVÁ)

#### 11.00

Large-scale distribution of aquatic invertebrates in permanent and intermittent streams (Gemma BURGAZZI)

#### 11.15

Community response to 25 years of intermittent drying in temperate-climate streams with contrasting flow permanence regimes (Romain SARREMEJANE)

#### 11.30

Functional and taxonomic benthic macroinvertebrate diversity among multiple freshwater habitats in an intermittent river network (Mélanie MILIN)

#### 11.45

The effects of riparian zones on carabid beetle assemblages and their functional traits of an intermittent karstic river (Andreja BRIGIĆ)

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#### 13.30

What does it mean to be ahead of the curve? Impacts of climate-change driven flow regime change on the life histories of stream invertebrates (Belinda ROBSON)

#### 13.45

Crustacean inflexibility on flow regimes in intermittent spring (Sanja GOTTSTEIN)

#### 14.00

The role of *Gammarus fossarum* populations as an indicator of previous stream drying (Alena DOSTÁLOVÁ)

#### 14.15

Role of the hyporheic zone in mountain streams progressively shifting from naturally perennial to intermittent systems (Maria Cristina BRUNO)

#### 14.30

Flow dynamics and connectivity drive changes in invertebrate composition and traits recovery after experimental floods in temporary streams (Isabel PARDO)



**14.45**

Multidimensional invertebrate community responses to drying in dynamic river ecosystems (Rachel STUBBINGTON)

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**15.30**

Are all rivers equal? The role of education in attitudes towards temporary and perennial rivers (Catherine LEIGH)

**15.45**

Stream drying duration affects the recovery of *Gammarus pulex* (Amphipoda: Gammaridae) from the subsurface sediments of an experimental flume study (Atish N VADHER)

**16.00**

Spatio-temporal dynamic of taxonomic and functional beta diversity of invertebrate communities in intermittent rivers (Julie CRABOT)

**16.15**

Structure of benthic macroinvertebrate metacommunities in IRES: comparison of DNA metabarcoding and morphological approaches (Mailys GAUTHIER)

**16.30**

Testing metabarcoding for macroinvertebrate biomonitoring in intermittent rivers (Alex LAINI)

**16.45**

Flow intermittency, biodiversity and food web structure in an alpine fluvial network (Andre R. SIEBERS)

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**Tuesday, July 2 (room: Crystal ballroom 1)****10.30**

Incorporating intermittent rivers and ephemeral streams into global carbon cycle models (Thibault DATRY)

**10.45**

Transition to intermittency alters leaf litter breakdown processes in streams: How climate change is impacting stream ecosystem function (Nicole CAREY)

**11.00**

Subsurface zone sustains microbial decomposition during the non-flow period of intermittent rivers (Rebeca ARIAS-REAL)

**11.15**

SS1\_O22\_274\_Same metabolic resilience, different onset – metabolic implications of a rare drying in temperate river sediment (Michael MUTZ)

**11.30**

Non-flow drives the pigment structure of autotrophic biofilms in temporary streams (Miriam COLLS)



### 11.45

Effects of drought on the self-purification capacity of temperate headwater streams (Gabriele WEIGELHOFER)

## SS2 Aquatic metacommunities: research and applications

### Tuesday, July 2 (room: Crystal ballroom 1)

#### **13.30**

Modelling community assembly along spatial and environmental gradients: A metacommunity approach (Martin WILKES)

#### **13.45**

Historical legacies and contemporary constraints explain invertebrate and diatom metacommunity structure within a heterogeneous basin (Juan David GONZALEZ-TRUJILLO)

#### **14.00**

Long-term changes in metacommunity assembly mechanisms in Mediterranean rivers (Miguel CAÑEDO-ARGÜELLES)

#### **14.15**

Niche packing and the mechanisms behind richness variation in stream communities: insights from a tropical-boreal comparison (Victor S. SAITO)

#### **14.30**

A metacommunity approach to improve biological assessments in highly dynamic systems (Núria CID)

#### **14.45**

Chironomid metacommunity dynamic along the temporal scale: can an appropriate sampling period diminish the influence of spatial processes (Djuradj MILOŠEVIĆ)

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#### **15.30**

Assessing the importance of metacommunity network structure for the uniqueness and stability of lake communities (Stéphanie GASCÓN)

#### **15.45**

Understanding the role of pond network properties and pond characteristics on beta diversity patterns (Irene TORNERO)

#### **16.00**

Aquatic mollusc metacommunity structuring in lentic habitats of two regions differing in trophic level (Erika LORENCOVÁ)

#### **16.15**

Assessing the assembly drivers of seasonal succession and wildfire effect on a temporary pond metacommunity through traits selection (David CUNILLERA-MONTCUSÍ)

#### **16.30**

CONNECTing high frequency in situ measurements with remote sensing to monitor phytoplankton dynamics along river-connected lake chains (Christine KIEL)

## SS3 Hydrology, biogeochemistry and ecology of mountain freshwaters

### Thursday, July 4 (room: Crystal ballroom 2)

#### 10.30

Physical habitat alterations in Alpine running waters: study cases from NW Italy and a new initiative (Stefano FENOGLIO)

#### 10.45

Ecological and sedimentological effects of an experimental flood (Kate MATHERS)

#### 11.00

Ebb and flow: macroinvertebrate resilience to varying hydropeak frequency (Claire AKSAMIT)

#### 11.15

Temporal shifts in floodplain macroinvertebrate metacommunity structure (Pierre CHANUT)

#### 11.30

Characterization of alpine habitats from threatened Dragonflies to promote a management adapted to climate warming (Marie LAMOUILLE-HEBERT)

#### 11.45

A global synthesis of aquatic biodiversity responses to glacier retreat (Sophie CAUVY-FRAUNIE)

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#### 13.30

Metabolic regimes of Alpine streams (Marta BOIX CANADELL)

#### 13.45

Evasion fluxes of carbon dioxide from turbulent headwater streams draining the world's mountains (Åsa HORGBY)

#### 14.00

Whole-lake metabolism along an alpine dissolved organic carbon gradient (Marcus KLAUS)

#### 14.15

Reduced glacial influence mediates periphyton composition and quality in alpine streams (Georg H. NIEDRIST)

#### 14.30

Glacier meltwater inputs affect feeding habits of alpine stream macroinvertebrates (Mirela SERTIĆ PERIĆ)

#### 14.45

Decreasing glacier cover drives predictable successional changes in the structure and allometry of river food webs (Sarah C FELL)

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#### 15.30

Characterisation of a rock glacial stream under a multitrophic approach (Stefano BRIGHENTI)



**15.45**

Replacement of native forest by exotic forest plantations in Chile: Impacts on the functioning and structure of mountain river ecosystems (Francisco J. PEÑAS)

**16.00**

Loss of Alpine grasslands and pastures threatens taxonomic and functional diversity of stream benthic macroinvertebrates (Alberto SCOTTI)

## SS4 10<sup>th</sup> UAMRICH (Use of algae for monitoring rivers and comparable habitats)

### **Thursday, July 4 (room: Opera)**

#### **10.30**

A comparison of benthic-algae-based environmental assessments in the European Union and the United States (Marco CANTONATI)

#### **10.45**

The search for the perfect river (Geoff PHILLIPS)

#### **11.00**

European river ecological assessment: What next? (Sandra POIKANE)

#### **11.15**

Optimization of reference taxonomy, OTU grouping, and amplicon choice in algal bioassessments using DNA metabarcoding (Nicholas SCHULTE)

#### **11.30**

Comparison of ecological status classification systems based on diatoms in north western Spanish siliceous basins (Lorena GONZÁLEZ-PAZ)

#### **11.45**

Water scarcity in Alpine streams: how diatoms respond to lentification and rewetting phases (Francesca BONA)

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#### **13.30**

Looking for ecological indicators in springs in the Alps and Dinarides with special attention to the ophiolitic substratum (Jasmina KAMBEROVIĆ)

#### **13.45**

Unveiling the hidden and understudied biodiversity of benthic algae in Egyptian desert springs and other inland habitats using a polyphasic approach (PhyBiO Project) (Abdullah A. SABER)

#### **14.00**

Algae beads as a tool for the comparison and intercalibration of chlorophyll a measurements (Detlev LOHSE)

## SS5 Understanding cross-habitat linkages between stream and riparian zones to optimize management of biodiversity and ecosystem services

### **Monday, July 1 (room: Panorama)**

#### **10.30**

Riparian buffer properties, cross-habitat connectivity, and biodiversity and ecosystem functioning in stream-riparian networks: Introducing CROSSLINK (Brendan McKIE)

#### **10.45**

Novel biomarkers reveal landscape influences on linkages between aquatic and terrestrial food webs (Francis John BURDON)

#### **11.00**

Tracking aquatic subsidies in terrestrial food webs (Ellinor RAMBERG)

#### **11.15**

Study of aquatic-terrestrial predator-prey relationships: How does agriculture alter the quantity and quality of stream exports? (Katharina FRISCH)

#### **11.30**

Diving into murky waters: effects of brownification on boreal stream ecosystems (Timo MUOTKA)

#### **11.45**

Modelling the effect of woody riparian vegetation on the diversity and composition of stream macroinvertebrates and spiders in the Zwalm River basin (Belgium) (Peter GOETHALS)

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#### **13.30**

Effects of contaminants across ecosystem boundaries: Concept and experimental design (Mirco BUNDSCHUH)

#### **13.45**

Stressors across boundaries – The propagation of aquatic stressors to terrestrial ecosystems (Ralf B. SCHÄFER)

#### **14.00**

Microplastics in benthic macroinvertebrates (Emilie KALLENBACH)

#### **14.15**

The ecological impacts of warming and urbanisation on freshwater microbial communities (Kate RANDALL)

#### **14.30**

Impacts of agricultural land use on stream macroinvertebrates and ecosystem processes in three contrasting European catchments (Geta RISNOVEANU)

#### **14.45**

Using an easy standardized material as functional indicator of environmental stress in stream ecosystems (Nikolai FRIBERG)

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## **Tuesday, July 2 (room: Crystal ballroom 2)**

**14.30**

Ecosystem services in riparian areas: current structure and knowledge needs for better decision making (Constantin CAZACU)

**14.45**

Smarter riparian buffer zones to reduce greenhouse gas emissions from stream ecosystems after forest harvesting: hypotheses, data and research needs (Marcus KLAUS)

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**15.30**

Can riparian buffers mitigate effects of environmental stress on fish communities in urban streams? (Benjamin KUPILAS)

**15.45**

Effects of woody riparian buffers on the diversity and functional trait composition of macroinvertebrates in an agricultural catchment (Jasmina ŠARGAČ)

**16.00**

A landscape-scale field experiment in six rivers shows how in-channel retention boosts detrital resources and invertebrate species diversity (Barbara J. DOWNES)

**16.15**

Spatial scale and the responses of riparian and instream invertebrate assemblages to forest cover and agricultural land use (Richard JOHNSON)

**16.30**

Towards an optimal allocation of riparian forest at catchment scale? (Felix WITING)



## SS6 Linking natural and social science in freshwater ecosystems

### **Monday, July 1 (room: Maksimir)**

#### **10.30**

Using citizen science for freshwater monitoring, management and impactful research: Lessons from FreshWater Watch (Isabel BISHOP)

#### **10.45**

Alpine rivers ecosystem services: exploring stakeholders' views (Gabriela COSTEA)

#### **11.00**

Urban Algae: ecological status of urban ponds and the public perception of their ecosystem services (Cleo N. STRATMANN)

#### **11.15**

Insights and learnings from social media data analysis for ecosystem services of river restoration (Nina KAISER)

#### **11.30**

Cultural values for freshwater management: learning from New Zealand (Simone Daniela LANGHANS)

#### **11.45**

A transdisciplinary research approach for the management of a dry, salinized river-basin in Morocco (Elisabeth BERGER)

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#### **13.30**

Is Danube Delta Biosphere Reserve (Romania) a hot spot for Harmful Algal Blooms? (Maria Iasmina MOZA)

## SS7 Linking habitat heterogeneity, biofilm diversity and biogeochemistry across spatiotemporal scales

### Monday, July 1 (room: Maksimir)

#### 14.00

Bottom-up control of the top-down control: biofilm's food quality alters the foraging behavior of grazers (Alexander T. L. VOSSHAGE)

#### 14.15

The functional importance of shrimp and fish in stream nutrient remineralization (Eugenia ZANDONÀ)

#### 14.30

Direct and indirect effects of hydraulics on nutrient uptake by biofilms in gravel bed streams (Christine ANLANGER)

#### 14.45

Variability of functional stream biofilm recovery at the habitat scale after disturbances from drying and sediment transport (Anna OPREI)

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#### 15.30

Major forces shaping periphyton in tufa-depositing karstic freshwaters (Renata MATONIČKIN KEPČIJA)

#### 15.45

Macroplastics in rivers: threat or opportunity for aquatic microbes? (Joan ARTIGAS)

#### 16.00

Light and nutrient availability effects on organic matter quality and associated microbial community of macrophytes (Mandy VELTHUIS)

## SS8 From source to sea – characterization and utilization of organic matter from different sources along the aquatic continuum

### Thursday, July 4 (room: Maksimir)

#### 14.15

A direct comparison of carbon processing in river and marine habitats (André FRAINER)

#### 14.30

Biodiversity-mediated constraints on leaf litter decomposition across a river network (Rubén DEL CAMPO)

#### 14.45

Autochthonous organic material, not organic matter from the watershed, compose fluffy sediments of shallow Aquitaine lakes (Pierre ANSCHUTZ)

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#### 15.30

In-situ and laboratory DOM addition experiments demonstrate the effects of DOM quality on DOM degradation and the activity of benthic biofilms (Gabriele WEIGELHOFER)

#### 15.45

Assessing stoichiometric control of nitrate and phosphate uptake by different DOC sources at laboratory-microcosm and fluvial-network scale (Daniel GRAEBER)

#### 16.00

The olfactory landscape of a river network: Dissolved organic matter guiding salmon migration (Beatriz E. NORIEGA-ORTEGA)

#### 16.15

Spatial variation in organic matter concentration and quality in the Halladale catchment, N Scotland (Amy PICKARD)

#### 16.30

Dissolved CO<sub>2</sub> – seasonal and spatial variations throughout a rivers catchment (Peter GILBERT)

## SS9 Research needs for European water and nature directives

### **Thursday, July 4 (room: Overture)**

**15.30**

Research needs for the Water Framework Directive (Wouter VAN DE BUND)

**15.45**

A new broad typology for rivers and lakes in Europe: development and application for large-scale environmental assessments (Anne LYCHE SOLHEIM)

**16.00**

Clues for the establishment of reference conditions for the assessment of the ecological status of lakes under “special” circumstances: the exception or the rule? (Antonio CAMACHO)

**16.15**

Establishing reference conditions and ecological status in Mediterranean rivers: a problem to solve (Ana M. PUJANTE)

**16.30**

Mapping and modelling riparian forest distribution and composition: Meeting WFD and HD requirements (José BARQUÍN)

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### **Friday, July 5 (room: Overture)**

**10.30**

Applicability of DNA-based identifications for the European Water Framework Directive: a pilot DNA metabarcoding study for ecological status assessments (Raquel GONZÁLEZ)

**10.45**

Optimizing freshwater fish detection with eDNA metabarcoding (Ana Filipa FILIPE)

**11.00**

Preliminary results of the use of standard bioassays as a complementary tool to ecological quality assessments in reservoirs (Fábio S. MARTINS)

**11.15**

How the ecological and conservation status assessed according to the Habitats and Water Framework Directives can be related to the climatic regulatory role in Wetlands (Daniel MORANT)

## SS10 Balkan rivers, be dammed!

### Thursday, July 4 (room: Opera)

**15.30**

How hydropower dams alter the flow regimes of Balkan rivers (Helena HUĐEK)

**15.45**

Regional controls on photosynthesis-irradiance relationships of benthic algae in the Vjosa river network (Thomas FUSS)

**16.00**

The last hideout: abundance patterns of the not-quite-yet extinct mayfly *Prosopistoma* in the Vjosa catchment (Jan MARTINI)

**16.15**

Science support required for conserving Balkan rivers (Fritz SCHIEMER)

## SS12 Mesocosm approaches to ecosystem-scale questions in freshwaters

### Monday, July 1 (room: Ouverture)

#### 13.30

AQUACOSM & MESOCOSM.EU: networks of experimental aquatic mesocosm facilities offering opportunities to co-design ecosystem processed-based studies (Jens Christian NEJSTGAARD)

#### 13.45

Mesocosms are an excellent tool to show climate change impacts on aquatic ecosystems (Lisette Nicole DE SENERPONT DOMIS)

#### 14.00

Top-down control modulates interactions between primary producers in lakes undergoing eutrophication and browning: a mesocosm modelling study (Gregorio A. LÓPEZ MOREIRA M.)

#### 14.15

Effects of skyglow on lake phytoplankton: insights from an ecosystem-scale enclosure experiment (Susanne STEPHAN)

#### 14.30

Rapid automated assessment of fine-scale zooplankton distributions using a low-cost, handheld in situ imager and deep learning (Tim J. W. WALLEES)

#### 14.45

First *in-situ* mesocosms experiment for investigating impacts of microplastics on littoral food web (Meryem BEKLIOĞLU)

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#### 15.30

How climate change enhances nanoparticle toxicity towards freshwater biofilms – A mesocosms study (Berta BONET)

#### 15.45

Hot, dry, and deadly: climate warming, water abstraction and neonicotinoid exposure determine stream macroinvertebrate community dynamics (Samuel J. MACAULAY)

#### 16.00

Short-term exposure to wildfire ash affects behaviour and condition of a potamodromous cyprinid fish, the Iberian barbel (*Luciobarbus bocagei*) (Maria Teresa FERREIRA)

#### 16.15

The hyporheic zone as an invertebrate refuge during a fine sediment disturbance (Tory MILNER)

#### 16.30

A new mesocosm-based field station in Western Italian Alps: The Alpine Stream Research Center – ALPSTREAM (Stefano FENOGLIO)

## SS13 Spring habitats: research, assessment tools and conservation efforts

### **Friday, July 5 (room: Maksimir)**

#### **10.30**

Anthropogenic modification of spring habitats: current research, assessment tools and conservation efforts (Stefanie VON FUMETTI)

#### **10.45**

Macroinvertebrates of post-mining calcareous brooks: comparison with natural calcareous spring brooks (Martina POLÁKOVÁ)

#### **11.00**

Water mites (Acari: Hydrachnidia) in springs – A highly diverse taxon with unexpected dispersal abilities (Lucas BLATTNER)

#### **11.15**

Comparison of Odonata diversity and assemblage structure among perennial and intermittent springs: a case study in central Montenegro (Ana SAVIĆ)

#### **11.30**

Homology-driven Proteome Characterization of the cold-stenothermal freshwater Species *Crunoecia irrorata* acclimatized to stressful thermal Conditions (Joshua Niklas EBNER)



## POSTER PRESENTATIONS

- by sessions -





## PhD awardees

1. Migratory waterbirds as key vectors of dispersal for plants and invertebrates – case studies from Europe (Ádám LOVAS-KISS)
2. Effects of artificial light at night on benthic primary producers in freshwaters (Maja GRUBIŠIĆ)
3. Ecological and evolutionary physiology of aquatic beetles: coping with multiple stressors in inland saline waters (Susana PALLARÉS)

## RS1 Algae

**RS1\_P1**\_Adhesion behavior of algal cells under stress in laboratory conditions: electrochemical approach (Nives NOVOSEL)

**RS1\_P2**\_Phosphorus removal by periphyton developed on the artificial substrate in the hypereutrophic pond (Marija PEĆIĆ)

**RS1\_P3**\_Adaptability of tropical cyanobacterium *Raphidiopsis raciborskii* to thermal conditions in the temperate climate zone (Agnieszka BRZOZOWSKA)

**RS1\_P4**\_Motility as an indicator of algal cell stress in modified batch cultures (Petar ŽUTINIĆ)

**RS1\_P5**\_ *Watanabea acidotolerans*: A new coccoid green alga dwelling in pH < 3 freshwaters of two continents (Dovilė BARCYTĖ)

## RS2 Climate change and freshwater ecosystems

**RS2\_P1**\_The charophyte decline and recovery in Lake Lednica in response to four decades of changes in water fertility and hydrometeorological conditions (Mariusz PEŁECHATY)

**RS2\_P2**\_Importance of temperature on the growth of native and alien cyanobacteria strains from temperate lakes (Jūratė KASPEROVIČIENĖ)

**RS2\_P3**\_North Atlantic Oscillation Position influences waterfowl abundance in a Mediterranean wetland (Jorge J. MONTES-PÉREZ)

**RS2\_P4**\_Groundwater carbon within a boreal catchment – spatiotemporal variability of a hidden aquatic carbon pool (Anna NYDAHL)

## RS3 Conservation

**RS3\_P1**\_Small peripheral basins sometimes means a lot: the implications for conservation of fish communities (Aneta BYLAK)

**RS3\_P2**\_Lessons on riverine fish conservation learned by analysing population functions on the range edge (Aneta BYLAK)

## RS4 Ecological modelling

**RS4\_P1**\_Differences in the structural and functional organization of macroinvertebrate communities in the sub-basins of the Tisza River (Eszter Á. KRASZNAI-K.)

**RS4\_P2**\_Modelling of ecological status of lakes using artificial neural networks (Daniel GEBLER)

**RS4\_P3**\_Modelling ecosystem metabolism at the scale of entire river networks (Matthew V. TALLUTO)

## RS5 Ecotoxicology and stress responses

**RS5\_P1**\_Comparison of metal accumulation efficiency in acanthocephalans, gammarids and fish under the impact of municipal and technological wastewaters (Vlatka FILIPOVIĆ MARIJIĆ)

**RS5\_P2**\_Metal bioaccumulation in the gills of Prussian carp (*Carassius gibelio*) from the Ilova River as the indicator of waterborne metal exposure (Zrinka DRAGUN)

**RS5\_P3**\_Influence of repeated pulsed pesticide exposures on the biochemical biomarkers in *Lemna minor* (Marko MOSLAVAC)

**RS5\_P4**\_Combining metabarcoding and metabolomics to gain insight into the interactive effects of microplastics and emerging contaminants on river biofilms (Ferran ROMERO)

## RS6 Fish (and other vertebrate) biology

**RS6\_P1**\_Demographics and survival in the European pond turtle *Emys orbicularis*: a 31-year study (Dani BOIX)

**RS6\_P2**\_Peculiar occurrence of *Cobitis bilineata* Canestrini, 1866 and *Sabanejewia larvata* (De Filippi, 1859) (Cobitidae, Actipteri) in Danube basin in Croatia (Ivana BUJ)

**RS6\_P3**\_Seasonal variability in perch diet in the northern lakes (Lake Krivoe, north Russian Karelia) (Nadezhda BEREZINA)

**RS6\_P4**\_Has the racer goby *Babka gymnotrachelus* (Kessler, 1857) failed to invade the Danube tributaries, the Sava and Drava Rivers? (Perica MUSTAFIĆ)

**RS6\_P5**\_In the eyes of the beholder-Evolution of vision and trophic ecology in the elephant fishes (Mormyridae) (Gina Maria SOMMER)

## RS7 Freshwater science in policy, management, monitoring and restoration

**RS7\_P1**\_First empirical study of freshwater microplastics in West Africa: a comparison with a European freshwater system (Sonja M. EHLERS)

**RS7\_P2**\_EU LIFE project „ALGAE – ECONOMY-BASED ECOLOGICAL SERVICE OF AQUATIC ECOSYSTEMS” (AlgaeService for LIFE) – filling gaps in a circular economy (Jūratė KASPEROVIČIENĖ)

**RS7\_P3**\_Characterizing ecocide from the freshwater perspective (Paula C. DOS REIS OLIVEIRA)

**RS7\_P4**\_Species origin metrics in biotic integrity indices: a global review (Renata RUARO)

**RS7\_P6**\_The impact of industrial and agricultural activities on the concentration of sulphates and chlorides in surface water of border rivers (Małgorzata GAŁCZYŃSKA)

**RS7\_P7**\_Algal-based assessments of deep lakes - does the metalimnion matter? (Agnieszka PASZTALENIEC)

**RS7\_P8**\_Phytoplankton community in two slow flowing hypereutrophic rivers - ecological traits and potential toxic threat to environment (Igor STANKOVIĆ)

**RS7\_P9**\_Hypolimnetic withdrawal and treatment as a new method of lake restoration and nutrient recycling (Soila SILVONEN)

## RS8 Wetlands, brackish and coastal ecosystems

**RS8\_P1**\_How decomposition of organic matter and invertebrate communities respond to agricultural wastewater in constructed wetlands? (Margarita MENENDEZ)

**RS8\_P2**\_Ecosystem metabolism of Mediterranean coastal lagoons and their main input canals (Maria ANTON-PARDO)

**RS8\_P3**\_Identifying physical and chemical drivers of daily ecosystem metabolism in confined coastal water bodies (Maria BAS-SILVESTRE)

**RS8\_P4**\_Floating macrophyte mat as a playground for freshwater invertebrates (Viktorija ERGOVIĆ)

## RS9 Hydromorphology, hydrology, hydrogeology, hydrochemistry

**RS9\_P1**\_Analysis of long-term trends in water quality data of the Plitvice Lakes National Park (Maja VURNEK)

**RS9\_P2**\_Evidences of diffuse water and nitrate input via river-groundwater interactions in a regulated river: flood irrigation as main driver? (Edoardo SEVERINI)

## RS10 Interspecies interactions

**RS10\_P1**\_Physiological responses of aquatic invertebrates to acute and chronic predation risk (Hanna KLETKIEWICZ)

**RS10\_P2**\_Diversity and temporal shifts of the bacterial community associated with an *Anabaena* macrospora bloom (Clarisse MALLET)

**RS10\_P3**\_The potential of fish vs. waterfowl interaction in management of eutrophic water bodies (Ilkka SAMMALKORPI)

## RS11 Invasive species

**RS11\_P1**\_Effects of habitat modification and invasive species on macroinvertebrate assemblages in the section of the Drava River between two reservoirs (Tomislav KRALJ)

**RS11\_P2**\_Taxonomical and functional diversity patterns of native and exotic fish species (Anna GAVIOLI)

**RS11\_P3**\_Delayed parasite occurrence in a persistent fish invader – prevalence of *Ligula pavlovskii* in monkey gobies (*Neogobius fluviatilis*) in Lake Balaton (Zoltán VITÁL)

**RS11\_P4**\_Long-term fish monitoring underlines a rising tide of temperature tolerant, rheophilic, benthivore and generalist exotics, irrespective of hydrological conditions (Mattia LANZONI)

## RS12 Karst

No posters.

## RS13 Lakes, reservoirs and ponds

**RS13\_P1**\_Effects of past land use on biogeochemical functioning of shallow lakes at the multi-decadal scale: example from Landes lakes (SW France) (Celine CHARBONNIER)

**RS13\_P2**\_Interacting effects of thermal and nutrient pollution on ecological processes at hydroelectric reservoir Moste (the Sava River, Slovenia) (Tatjana SIMČIČ)

**RS13\_P3**\_Aerobic respiration and production in a Mediterranean stratified reservoir (Juan MONTES-PÉREZ)

**RS13\_P4**\_Vertical distribution of rotifers in three deep Mediterranean lakes (Tvrtko DRAŽINA)

**RS13\_P5**\_Stratification effects on the physical-chemical water quality of Abegondo – Cecebre reservoir (Carmen CILLERO)

## RS14 Large rivers

**RS14\_P1**\_Niche position and niche breadth of phytoplankton functional groups in fluvial ecosystems (Gabor VARBIRO)

## RS15 Invertebrates

**RS15\_P1**\_Freshwater macroinvertebrate barcoding in Cyprus: First steps and new records (Athina PAPTAEODOULOU)

**RS15\_P2**\_Mated or virgin female: a new sexual object is of male interest (Miloš BUŘIČ)

**RS15\_P3**\_Risks and side effects: Structural and functional responses of aquatic macroinvertebrate communities to restoration mediated alterations in a small lowland stream (Tamás BOZÓKI)

**RS15\_P4**\_DNA knowledge gaps in reference databases about European freshwater macroinvertebrates (Tommaso CANCELLARIO)

**RS15\_P5**\_Effects of fine woody debris on macroinvertebrate communities in littoral zones of undeveloped lakes (Magdalena CZARNECKA)

**RS15\_P6**\_Microcalorimetry: a powerful tool to investigate stoichiometric constraints on small ectotherms (Thomas RUIZ)

**RS15\_P7\_** Does the supplemental feed type used for carp nutrition influence on mentum deformities in *Chironomus plumosus* larvae? (Ivana ŽIVIĆ)

**RS15\_P8\_** Effects of temperature and species on the duration of post-mating spermatophore storage of the freshwater crayfish (Hamid NIKSIRAT)

**RS15\_P9\_** Quantifying the biotic and abiotic controls on river bank burrowing by invasive signal crayfish (*Pacifastacus leniusculus*) (Harry SANDERS)

**RS15\_P10\_** Detection of Cordulegaster (Insecta: Odonata) species via eDNA (Judit FEKETE)

## RS16 Macrophytes

**RS16\_P1\_** Carbon deposition in *Chara*-lakes (Małgorzata STRZAŁEK)

**RS16\_P2\_** Effect of invasive hydrophytes on lake benthic biogeochemistry (Pierre ANSCHUTZ)

**RS16\_P3\_** Phytosociological analysis of the aquatic macrophyte vegetation of the main Greek freshwater lakes (Dimitrios ZERVAS)

**RS16\_P4\_** Growth rate inhibition and recovery potential of *Lemna minor* after pulsed isoproturon exposures (Marko MOSLAVAC)

**RS16\_P5\_** Effects of selected chemical substances used to phosphorus inactivation on the growth of *Hydrocharis morsus-ranae* (Małgorzata GAŁCZYŃSKA)

**RS16\_P6\_** Charophytes in a eutrophic world: variability, performance, potential for bioindication (Agnieszka KOLADA)

**RS16\_P7\_** The Balkan macrophyte index (BMI): a new tool for assessing the ecological status of lakes (Aleksandra MARKOVIĆ)

## RS17 Microbial ecology

**RS17\_P1\_** Does the presence of microplastics affect microbial communities in stream-bed sediments? (Tjaša MATJAŠIČ)

**RS17\_P2\_** Developing microbial indicators for the health of aquatic systems (Jen A. MIDDLETON)

**RS17\_P3\_** Do leaf litter decomposers control benthic algae production and community structure? Insights from an outdoor mesocosm experiment (Joey ALLEN)

**RS17\_P4\_** Where two worlds meet: marine sediments in a dammed freshwater lake (Harm VAN DER GEEST)

**RS17\_P5\_** Diversity and ecological preference of ciliates assemblage in a freshwater karstic river (Antonija KULAŠ)

**RS17\_P6\_** Cuticle-associated microbial communities of freshwater crayfish *Astacus leptodactylus* are affected by water temperature and the presence of pathogen *Aphamycetes astaci* (Marija VUK)

**RS17\_P7\_** Distribution and abundance of methagenic and methatrophic microorganisms across European streams (Pascal BODMER)

**RS17\_P8\_** Phyto- and bacterioplankton production in macrophyte dominated waters (Hungary) (Nóra SZABÓ-TUGYI)

### [RS18 Molecular ecology, phylogeny and evolutionary studies](#)

**RS18\_P1\_** Genetic structure of *Phoxinus* spp. (Teleostei: Cyprinidae) in western Po River basin identified as locus typicus of *Phoxinus lumaireul* (Schinz, 1840) (Vanessa DE SANTIS)

**RS18\_P2\_** The enigma of *Barbus euboicus* resolved (Eva KYRALOVÁ)

### [RS19 Plankton](#)

**RS19\_P1\_** How does phytoplankton overcome carbon limitation in acidic mining lakes – case study *Autumnella lusatica* sp. nov. (Brigitte NIXDORF)

**RS19\_P2\_** Different sources of the same fatty acids in lake zooplankton – a compound-specific stable isotope approach (Richard ADAMS)

**RS19\_P3\_** Life-history traits of *Daphnia* spp. in fishponds – the life between hypertrophy and overstocking (Jana ZEMANOVA)

### [RS20 Surpassing aquatic boundaries](#)

**RS20\_P1\_** Trait-based approaches: a common framework for freshwater and marine ecologists (Martin LAVIALE)



## RS21 Streams

**RS21\_P1\_** Importance of essential nutrients from different carbon sources for the food chain structure of a headwater stream (Tiphaine LABED-VEYDERT)

**RS21\_P2\_** Annual variation in water quality parameters on Plitvica stream, Plitvice Lakes National Park (Tea FRKETIĆ)

**RS21\_P3\_** Managing the small stream network for improved water quality, biodiversity and ecosystem services protection (SSNet) (Mary KELLY-QUINN)

**RS21\_P4\_** What if sand could walk? Sediment transport by Glossosomatidae caddisfly larvae in gravel-bed streams (Richard MASON)

## RS22 Taxomy and systematics

**RS22\_P1\_** Diversity of *Phoxinus* in Greece: insights from the genetic data (Dovilė BARCYTĖ)

**RS22\_P2\_** Morphometric differences of distinct Carpathian gudgeon (*Gobio*) haplogroups (Péter TAKÁCS)

**RS22\_P3\_** Are minute moss beetles (Coleoptera: Hydraenidae) still overlooked beetles in Croatia? (Vlatka MIČETIĆ STANKOVIĆ)

## RS23 Urban freshwaters

**RS23\_P1\_** A simple molecular biology method to detect cyanobacteria blooms in a small urban lake (Lenora N. LUDOLF GOMES)

**RS23\_P2\_** Resazurin push-and-pull tests to determine the impact of dynamic flow on microbial activity in an urban river (Hanna SCHULZ)

**RS23\_P3\_** Anthropogenic litter supports distinctive macroinvertebrate communities in urban streams (Hazel WILSON)

## SS1 Science and management of intermittent rivers and ephemeral streams: a European perspective

**SS1\_P1**\_Ecological responses to an experimental increase of flow intermittency in an alpine stream (Benjamin MISTELI)

**SS1\_P2**\_Effects of drought length on the hyporheic microbial processes of intermittent streams (Laura COULSON)

**SS1\_P3**\_Stream drying and stream pollution: similarities in impact on benthic invertebrates (Michal STRAKA)

**SS1\_P4**\_An invertebrate-based index to characterize ecological responses to flow intermittence in rivers (Judy ENGLAND)

**SS1\_P5**\_Advancing metacommunity ecology in intermittent rivers to improve their conservation and management: the MECODISPER project (Miguel CAÑEDO-ARGÜELLES)

**SS1\_P6**\_Significance of intermittent rivers and ephemeral streams in agricultural and natural landscape of Slovakia and Portugal (Tatiana KALETOVA)

**SS1\_P7**\_Are all intermittent streams the same? Multiple hydrological components driving invertebrate community changes (Rebeca ARIAS-REAL)

## SS2 Aquatic metacommunities: research and applications

**SS2\_P1**\_Chironomid metacommunity patterns in intermittent rivers and ephemeral streams (Djuradj MILOŠEVIĆ)

**SS2\_P2**\_Fish metacommunities in stream network: Do spatial processes influence the bioassessment metrics? (Milica STOJKOVIĆ PIPERAC)

## SS3 Hydrology, biogeochemistry and ecology of mountain freshwaters

**SS3\_P1**\_Peatlands on Semolj (Montenegro) and their environmental and geological features (Nada BUBANJA)

#### SS4 10<sup>th</sup> UAMRICH (Use of algae for monitoring rivers and comparable habitats)

**SS4\_P1\_** Comparison of existing pipelines handling species assignation and OTUs classification for freshwater and marine diatoms in Europe within the framework of water quality assessment (Bonnie BAILET)

**SS4\_P2\_** Diatoms as indicators of water quality in small watercourses of the Magura National Park (Lower Beskid, South-East Poland) (Aleksandra ZGRUNDO)

**SS4\_P3\_** Longitudinal patterns of epiphytic diatom communities from a small river in the African Eastern Rift Valley (Kenya) (Alex BORRINI)

#### SS5 Understanding cross-habitat linkages between stream and riparian zones to optimize management of biodiversity and ecosystem services

**SS5\_P1\_** Transfer of essential lipids from aquatic to terrestrial ecosystems (Margaux MATHIEU-RESUGE)

**SS5\_P2\_** Importance of natural sediment regime on cross-ecosystem fluxes (Carmen KOWARIK)

**SS5\_P3\_** Relationships between riparian properties, land use and the composition and diversity of riparian macroinvertebrates in a catchment impacted by agriculture (Cristina POPESCU)

**SS5\_P4\_** Variation in benthic diatom communities in urban streams and the role of riparian buffers (Petra Thea MUTINOVA)

#### SS6 Linking natural and social science in freshwater ecosystems

No posters.

#### SS7 Linking habitat heterogeneity, biofilm diversity and biogeochemistry across spatiotemporal scales

**SS7\_P1\_** Hydrological history impact on streambed microbes: insights from a multi-site study in the Mediterranean basin (Giulia GIONCHETTA)

**SS7\_P2\_** Characterization of diatom adhesion properties on different substrates: from population to individual scale (Martin LAVIALE)

## SS8 From source to sea – characterization and utilization of organic matter from different sources along the aquatic continuum

**SS8\_P1**\_Anthropogenically altered flow affects compositional variance of dissolved organic matter (Selin KUBILAY)

## SS9 Research needs for European water and nature directives

**SS9\_P1**\_Chemical discontinuity in the Vjosa river network (Franziska Ellen WALTHER)

**SS9\_P2**\_Who is the better candidate? Macroinvertebrates and diatoms for ecological status assessment of Sava Lake (Serbia) (Katarina STOJANOVIĆ)

**SS9\_P3**\_Searching for common macroinvertebrate metrics for assessment of ecological status of Western Balkan lakes (Katarina STOJANOVIĆ)

**SS9\_P4**\_Freshwater habitats in Greece: crosswalks between the Habitats and Water Framework Directives (Dimitrios ZERVAS)

## SS10 Balkan rivers, be dammed!

**SS10\_P1**\_River barriers in the Balkan region: validation of existing database (Helena HUĐEK)

**SS10\_P2**\_Baseline conditions of greenhouse gas evasion from the undammed Vjosa river network (Sonia HERRERO ORTEGA)

**SS10\_P3**\_Environmental status of Western Balkan rivers threatened by hydropower construction – a preliminary assessment (Krešimir ŽGANEC)

**SS10\_P4**\_River Intellectuals: connecting scientists and conservationists – for free and wild rivers in the Balkans (Selin KUBILAY)

**SS10\_P5**\_Morphological changes in two large river catchments of Kosovo and Albania in the last 50 years (David FARÒ)

**SS10\_P6**\_Grassroots ecology for Balkan rivers – a minimum-funds research network to produce region-wide evidence of hydropower impacts (Gabriel SINGER)

## SS12 Mesocosm approaches to ecosystem-scale questions in freshwaters

**SS12\_P1\_AQUACOSM** Research Infrastructure Network offers Transnational Access opportunities to European Aquatic Mesocosm Facilities (Stella A. BERGER)

**SS12\_P2** Use of semiartificial flumes in stream ecology: an overview of simulations to assess anthropic impacts on alpine streams (Maria Cristina BRUNO)

## SS13 Spring habitats: research, assessment tools and conversation efforts

**SS13\_P1** Mayflies in karst springs: species composition and relation to environmental factors (Marina VILENICA)