SEFS 7
Girona
Symposium for European Freshwater Sciences
June 27 - July 1, 2011
www.sefs2011.com
Contents

Welcome and Committees ........................................... 4

About Girona .......................................................... 5
Getting around ......................................................... 5
Commercial opening times ........................................ 5
Useful telephones ..................................................... 6

About the venue ........................................................ 5

At the Meeting .......................................................... 6
Registration ............................................................. 6
Coffee Breaks .......................................................... 6
Meals ................................................................. 6
Internet Access ........................................................ 6
Oral presentations ..................................................... 6
Instructions for Oral Presenters .................................... 6
Poster Presentations .................................................. 6
Notice board ............................................................ 6

Social Events ............................................................ 6
Welcome Cocktail ....................................................... 6
Riverwebs .............................................................. 6
Congress dinner ......................................................... 6
Exhibits ................................................................. 6
Exhibition and Poster Floor Map ................................... 7

Student Activities .................................................... 8
Pre-Meeting course .................................................... 8
Students/Editors Get-Together ...................................... 8
A European platform of freshwater young researchers ....... 8

Technical Excursions ................................................. 8
Biking along the Brugent Stream ................................... 8
Sau Reservoir .......................................................... 9
Baix Ter Wetlands ..................................................... 9
«Estany de Banyoles» (Lake Banyoles) ............................... 9
Photo Contest for the Technical Excursions ....................... 9

PLENARY LECTURES .................................................. 10
Margaret A. Palmer ..................................................... 10
Guy Woodward ........................................................ 10
Andrew Boulton ......................................................... 10
Arturo Elosegi .......................................................... 11
Gilles Pinay ............................................................. 11
Kurt D. Fausch ........................................................ 12
David M. Livingstone ................................................ 12

Congress Venue Maps
Ground Floor ............................................................ 13
First Floor .............................................................. 14
Second Floor ........................................................... 15

Schedule SEFS 7 ....................................................... 16

Sessions
Monday June 27 ........................................................ 17

Oral Sessions
Ordinary Session 3 ................................................... 18
Special Session 3 ..................................................... 19
Special Session 12 ................................................... 19
Ordinary Session 6 ................................................... 20
Special Session 8 ..................................................... 20
Special Session 6 ..................................................... 21
Special Session 9 ..................................................... 22

Tuesday June 28 ....................................................... 23

Oral Sessions
Ordinary Session 1 ................................................... 24
Ordinary Session 7 ................................................... 25
Ordinary Session 5 ................................................... 26
Ordinary Session 2 ................................................... 27

Poster presentations
Ordinary Session 1 ................................................... 28
Ordinary Session 3 ................................................... 29
Ordinary Session 6 ................................................... 30
Ordinary Session 3 ................................................... 31
Special Session 6 .................................................... 32
Special Session 8 .................................................... 32
Special Session 12 ................................................... 33

Thursday June ........................................................ 34

Oral Sessions
Special Session 10 ................................................... 35
Ordinary Session 4 ................................................... 36
Ordinary Session 5 ................................................... 37
Ordinary Session 8 ................................................... 38
Ordinary Session 11 .................................................. 38
Ordinary Session 10 ................................................ 39

Poster presentations
Ordinary Session 2 ................................................... 40
Ordinary Session 4 ................................................... 40
Ordinary Session 7 ................................................... 41
Ordinary Session 8 ................................................... 41
Ordinary Session 10 ................................................ 42

Friday July 1 .......................................................... 45

Oral Sessions
Special Session 4 ..................................................... 46
Ordinary Session 1 ................................................... 46
Ordinary Session 9 ................................................... 47
Ordinary Session 4 ................................................... 47
Special Session 14 ................................................... 47
Special Session 7 .................................................... 48
WELCOME

Freshwater ecosystems - Challenges between conservation and management under global change

This theme reflects the general aim of the 7th Symposium for European Freshwater Sciences. The meeting will provide an opportunity to debate the challenges imposed by the current and future changes on freshwater organisms and ecosystems.

The SEFS7 will be held at Girona, Spain, organized by the Iberian Limnological Society (AIL) in collaboration with the Catalan Institute for Water Research (ICRA) and the University of Girona (UdG). The AIL is very pleased to host an international meeting like SEFS, and is ready to make its best to make it scientifically attractive. The Iberian Limnological Society gathers associates from many different branches of freshwater sciences, the UdG shows a wide interest on water issues, and the ICRA integrates encompassing disciplines in natural and human-driven ecosystems. All the organizers are ready to make a joint effort to make the SEFS7 a good opportunity for you to contribute with your scientific and personal visions on the challenges we face!

SEFS7 will benefit from its location, Girona, which is a lively city fully mixed with the University- thus providing a sense of youth that transpires to the whole city. Girona is placed amongst a harmonic and beautiful landscape, between the Pyrenees and the Mediterranean Sea. SEFS7 will be held at the Girona Auditorium and Conference Centre that is fully equipped facilities to organize relevant scientific events. It is the intention of the Organizing Committee to promote the existence of Special Sessions, as well as to make you enjoying sites of high natural interest around the city, its historial and cultural heritage, and its good food and wine!

Search for the lioness- and come to share your science at the SEFS7!

Looking forward meeting you in Girona!

Sergi Sabater, on behalf of the Organizing Committee of SEFS7

Organizing Committee

Chairpersons
Sergi Sabater
Antonio Camacho

Vicenç Acuña
Joan Armengol
Damià Barceló
Núria Bonada
Dani Boix
Arturo Elosegi
Maria Joao Feio
Emili Garcia-Berthou
Stephanie Gascón
Helena Guasch
Manuel Graça
Rocio López-Flores
Isabel Muñoz
Rafel Marcé
Xavier Quintana
Eugenio Rico
Anna Romaní
Juan Soria
Julia Toja
Anna Vila
Lluis Zamora

Scientific Committee

Tom Battin
Andrew Boulton
Presentación Carrillo
Jordi Catalán
Mike Dobson
Rutger de Wit
Sylvain Dolédec
Cliff Dahm
Paul Giller
Nancy Grimm
Alan Hildrew
Luigi Naselli-Flores
Judit Padisak
Antonio Quesada
Geta Risnoveanu
Colin Reynolds
Klement Tockner
About Girona

Girona is an ideal setting in which to hold a conference. The city has a striking combination of landmarks both ancient and modern. Take a stroll from the conference centre to La Rambla, Girona’s central boulevard, enjoying your leisure time to the full.

Continue by meeting friends and colleagues in a local restaurant to sample the fine local cuisine based on the products of the surrounding region. A little later, lose yourself in the alleyways of the old Jewish Quarter or enjoy a walk around the perimeter walls, breathing in the atmosphere of a city with over two thousand years of history behind it. A wide variety of cultural and artistic events and an excellent range of establishments for shopping will round off your leisure time at the end of a busy day.

Girona, a city founded by Romans, has one of the most emblematic old quarters of the country, medieval city walls, Romanesque and Gothic monuments, Baroque spaces and one of the best well-kept Jewish quarters of Europe. Amongst the emblematic areas, one should also mention the Cathedral of Santa Maria, the Church of Sant Feliu, the Arabic Baths as well as the painted houses of the Onyar river and the towers of the City Wall Avenue.

Getting around

Girona is a small city and most places can be accessed on foot relatively quickly. Girona Bus Station is next to the railway station and is the hub for city buses, as well as for regional, national and international coach lines.

Taxis

There are taxi ranks at the railway station and in the Plaça de la Independència (in the centre of the city). You can also call for taxis on the following numbers: Taxi Girona (specially-adapted taxis are available) 972 222 323 / 972 203 377; Girotaxi: 972 221 020

Commercial opening times

The usual opening times for the majority of shops is from 9.30 a.m. to 1.30 p.m. and from 4.30 to 8.30 p.m., although large franchises and shopping centres do not close at lunchtime. Hypermarkets and specialized establishments open from 10.00 am to 10.00 pm.

Shops open from Monday to Saturday. If you come shopping to Girona on Monday morning, do not be surprised to find many of the shops closed, since many shopkeepers prefer to stay closed during the first half of the day on Mondays. Establishments that you are sure to find open are franchises and the large supermarkets and department stores of the city, as well as some shops in the city centre.

Opening times for banks

In general, banks and savings banks open from 8.30 a.m. to 2.00 p.m. from Monday to Friday.

Useful telephones

Municipal Police: 092
Tourist Information: 872 975 975
Bus station: 972 21 23 19
RENFE: 902 24 02 02
Girona-Costa Brava Airport: 972 18 66 00
Taxi Girona / Suitable for disabled people: 972 22 23 23
24 hour road information: 972 20 01 31
Credit Cards:
Mastercard: 900 971231
Visa: 91 519 60 00
Diners Card: 902 40 11 12
American Express: 902 375 637

About the venue

The Girona Auditorium and Conference Centre belongs to the new generation of 21st century conference centres. Designed by the prestigious team of Girona architects Jordi Bosch Genover, Joan Tarrús Galter and Manel Bosch Aragó, the building has been conceived as both a concert hall and a conference centre.

The striking building occupies an area of 10,000 square metres on the western edge of the park of La Devesa, a protected area with over 2,000 venerable plane-trees. It adjoins the Girona Trade Fair Centre on a site at the confluence of the rivers Güell and Ter with magnificent views over the Ribes del Ter park.

The venue address and website:
Pg. De la Devesa, 35
17001 Girona, Spain
+34 872 08 07 09
www.auditorigirona.org
At the Meeting

Registration

Upon arrival, please register at the SEFS7 registration desk at the Girona Auditorium. Collect your delegate pack and your name badge. You are requested to wear your name badge at all times. The registration desk will be open until Friday 1st July.

Coffee Breaks (Morning and afternoon)

There will be a coffee break every morning from 10.30-11.00h and every afternoon from 16:00-16:30h.

Meals

The registration fee does not include lunch, but this can be purchased in many places nearby at a reasonable price.

Internet Access

There is free wifi internet access at the meeting venue using the following access data:
USER: convidat
PASSWORD: auditori

Oral presentations

Speakers should deposit their presentations with the technicians in Sala 4. Please label your presentation according to the following model: Name_label session. order in the session. E.g.: Smith_O3.4. Presentations should be compatible with PowerPoint 2007. Your presentation will be loaded onto the hard drive of the computer in the Lecture Room before your session and will be removed afterwards.

Instructions for Oral Presenters

Talks will be scheduled in 15-minute time slots. We strongly encourage a presentation of no more than 12 minutes to allow three minutes for discussion and to entertain questions from those in the audience. The time limit will be strictly enforced to facilitate movement between sessions.

Poster Presentations

The poster boards are located on hall I, II and III and are numbered. Posters have to be printed on paper and the size has to be maximum 150cm high by 90cm wide.

Posters are to be put up and left on display for the whole symposium. However, there are two poster sessions as follows:

- June 28th: sessions O1, O3, O6, SS3, SS6, SS8, SS9 and SS12.
- June 30th: sessions O2, O4, O5, O7, O8, O9, O10, SS1, SS2, SS4, SS5, SS7, SS10, SS11, SS13, SS14 and SS15

Notice board

There will be a Notice board in front of the Reception Desk for conference announcements and for delegates to place messages for each other. Please refer to this notice board for any changes in the conference programme or arrangements during the Symposium.

Social Events

Welcome Cocktail

All participants are invited to attend the Welcome Cocktail on Sunday June 26th, 2011 at 18:00h.

Riverwebs

On June 28, there will be a film screening of “Riverwebs” (http://www.riverwebs.org/), followed by comments by Dr. Kurt Fausch. The session will be at Sala d'Assaig at 18:15h.

Congress Dinner

The Congress Dinner will be on June 30th, 2011 at 20.30h.

All social events will take place at the congress venue.

Exhibits

There are seven booths in Hall I near the main entrance. Attendees are encouraged to spend time visiting the booths and interacting with the exhibitors. The exhibits will be open on Monday, Tuesday and Thursday from 09.00 – 18.00, and on Friday from 09.00 – 14.00.

Commercial and nonprofit exhibitors and sponsors

WILEY BLACKWELL
http://eu.wiley.com
jkam@wiley.com
Phone: +65 6511 8178

Walz
http://www.walz.com/
Omeyerhoff@walz.com
Phone: +49-(0)9133-7765-22
- Stand 1: Wiley Blackwell

- Stand 2: Walz

- Stand 3: Instrumentación Analítica

- Stand 4: Ecohydros

- Stand 5: Springer
Student Activities

A number of activities have been organised specifically for students

Pre-Meeting course on “Successful scientific publishing and communication in freshwater sciences”

The pre-meeting course will take place on June 26th from 9 am till 5.30 pm in the Auditorium of Girona and is limited to students attending SEFS7. Students are considered as those participants who do not hold a PhD degree or have obtained it during the last 12 months. Accreditation will be required during the online registration process. The course will be carried out by plenary speakers attending SEFS7, and therefore by international scientists recognized by their high level in publishing and communicating science. The program of the course will be posted soon but it will cover issues such as:

- General aspects of scientific writing and communication: types of scientific publications, phases of the publishing process, how to select the appropriate journal
- The use of scientific English by native and non-native speakers: practical hints, common errors and sources of help
- The peer review process: the referee’s point of view, answering a referee report, dealing with major revisions or rejections
- Poster and oral presentations at meetings: poster design and Powerpoint presentations, hints on oral communication

The course will finish with a roundtable from 15:00h to 17:00h, which is open to other seniors, students or postdocs, to a maximum of 90 people. Please join if you are interested.

The course is limited to the first 25 students registered. A registration fee of 50€ is required.

Students/Editors Get-Together “Editors’ tips on publication and career advancement for young researchers”

Monday 27 June 18.30 – 20.30
Location: Sala D’Assaig – First Floor

The get-together is intended to provide a close contact between students and editors of the main freshwater journals in Europe. The get-together will take place during the meeting on an afternoon following the scientific sessions, and is limited to students attending SEFS7. Students are those participants that do not hold a PhD degree or have obtained it during the last 12 months. Accreditation will be required during the online registration process. During the get-together, Editors will provide tips for publication in their journals and students will have the opportunity to exchange ideas about the process in a very informal atmosphere. Food and drinks will be provided.

“Jovens / Jóvenes AIL” Booth: promoting the contact among young researchers

The young researchers and students of the Iberian Limnological Association (AIL), are represented at the meeting venue with the aim of welcoming young researchers from other European countries to Girona, and promoting scientific and social contacts among them. They will provide information regarding SEFS 2011 activities for younger participants and give good tips about interesting social and touristic activities in Girona and surroundings. Come to meet us at the booth!

A European platform of freshwater young researchers

Thursday 30 June 19.00-20.00
Location: Sala Petita – Ground Floor

The young researchers and students of the Iberian Limnological Association (AIL) invite all European students and postdocs to join an informal evening mixer during the SEFS meeting. The idea is to create a European platform to promote scientific and social contacts among young researchers. The mixer will start with a presentation of the main aims of the young researchers’ committee in the AIL to encourage researchers form other European countries to be involved in a similar way in their respective societies. It will be followed with an informal exchange of opinions and the creation of the first steps of the platform. Drinks will be served.

Technical Excursions

Technical Excursions will take place on Wednesday 29 June. Buses leave in front of the Girona Auditorium and Conference Centre at 8.50 AM.

Biking along the Brugent stream and visit to the El Pasteral reservoir

(Anna Romání, Helena Guasch & Natàlia Corcoll)

A bike tour is proposed departing from Amer (nearby Girona) at the former rail-way station used now as
tourist information point of the green line "El Carrilet", a beautiful narrow gauge railway. "El Carrilet" was a local train route that connected the Garrotxa mountain area with the Mediterranean Sea until the middle of the 20th century. This path is now recovered for hiking and biking. The railway line follows the course of the Brugent stream, a tributary of the Ter River following a fault partially covered with basaltic materials. A first biking tour will have an approximate duration of 2 hours (including 60 min biking and site-seeing). After lunch, a second and shorter biking tour will lead to the Pastoral reservoir, used for drinking water purposes. Departure by bus from Girona is planned at 9:00 a.m. and return at around 6 p.m. This excursion is designed for a reduced number of people (20 maximum). Price per person: 50€

**Sau Reservoir: a trip through geology, cultural heritage and ecology of a Mediterranean landscape**  
(Rafael Marcé and Joan Armengol)

In semi-arid regions like Mediterranean Spain, virtually all lowland still water systems are reservoirs, replacing lakes as the basic emotional link between people and lentic freshwater. Sau Reservoir is a paradigmatic case because of its magnificent scenic views, its function in the water supply system for Barcelona, and its role as an outdoor research laboratory. The trip will include a promenade on the tops of the Tavertet cliffs, one of the most famous biogenic calcareous formations from the Mesozoic oceans. Surrounded by the most spectacular of the meanders made by the reservoir, we will visit the 11th Century monastery of Sant Pere de Casserres, one of the most important monuments of Catalan Romanesque Architecture. Once in the reservoir we will enjoy the flooded 11th Century church of Sant Romà de Sau with its iconic emerged tower, probably the most celebrated picture in a Spanish reservoir. Nonetheless, during the visit we will review the research activities performed in the reservoir with a panel exposition, including eutrophication development, microbial ecology, oxygen cycle, El Niño and climate change impacts, a long-term monitoring program started in 1963 that represents one of the longest records in a reservoir in Europe, and much more. Departure by bus from Girona is planned at 9:00 a.m. and return at around 7 p.m. Price per person: 40€

**Baix Ter wetlands and Montgrí-Medes-Baix Ter natural park**  
(Xavier D. Quintana)

The Montgrí-Medes-Baix Ter is a recently created (May 2010) natural park with different coastal ecosystems, including a karstic mountain with coastal cliffs (Massís del Montgrí), a set of karstic islands 1 Km offshore with remarkable underwater landscapes (Medes Islands), and the river Ter estuary with related oligohaline to euhaline coastal wetlands. The area attracts tourism and is heavily affected by human pressure. Two Life restoration projects have been developed to recover a good ecological state of coastal wetlands. In the morning we will visit some restored sites at the Baix Ter wetlands, and we will discuss on the conservation problems with the managers of the Life projects. After lunch we will give observe the beautiful views of the coastal cliffs and some submarine landscapes in a glass bottom boat. We will finish the visit in Pals, a medieval town with interesting gothic buildings. Departure by bus from Girona is planned at 9:00 a.m. and return at around 7 p.m. Price per person: 45€

**“Estany de Banyoles” (Lake Banyoles) and Besalú Medieval Town**  
(Dani Boix and Lluís Zamora)

In the morning we will visit the karstic area of Banyoles-Porqueres characterized by the presence of the main lake “Estany de Banyoles”, and several ponds around it. The lake and its associated lacustrine basin are regarded as the largest karstic in the Iberian Peninsula. We will start our trip visiting the pleasant spot of Can Morgat, where newly ponds were created to improve aquatic biodiversity in the framework of a European Life project. Staff management of the Lake Consortium will detail on the actions performed during past Life projects, as well as the actions planned in Lake Banyoles to regulate and control the exotic fauna in an ongoing Life project. Afterwards, we walk around the north part of Lake Banyoles in order to visit other restored wetlands. The final point of the walk is "La Draga", where we will visit an early Neolithic lakeside village. After lunch we will visit the historical town of Besalú. We will enter the town through the 12th century bridge on the Fluvià River. In Besalú we will visit several historical buildings as the church of Sant Pere, built in 1003, or the Jewish quarter. Departure by bus from Girona is planned at 9:00 a.m. and return at around 7 p.m. Price per person: 40€

**Note:** Please keep in mind that the technical excursions are outdoor excursions, meaning that you will be exposed to the sun for most of the day. Temperatures in June can be fairly high so we strongly recommend that you bring drinking water, a hat, sunscreen lotion and appropriate outdoor clothing and shoes.

**Photo Contest for the Technical Excursions**

For those attending the technical excursions We would like to encourage you to take limnological photos during the trip and submit them to this contest! Photos submitted by the symposium participants (students or non-students) will be exhibit at the meeting venue. Voting will take place by secret vote at the photo display throughout the week and the winning photo will be annunciated in the meeting closure.

**Rules:**
- A maximum of two photos will be accepted per participant
- The photographs must be related to an aquatic theme and be in digital format.
- A descriptive caption must accompany the photo together with the author’s name.
- The pictures should be sent to the email photos@sefs2011.com before midnight, 29th June 2011.
- Send the highest resolution you have, in jpg format.
PLENARY LECTURES

Monday 27 June 2011

08.30- 09.15 h.  
Presented by: K. Tockner

Margaret A. Palmer - University of Maryland, USA

Presentation: "Restoration, Ecological Design, and Freshwater Ecosystem Services"

Abstract: As humans have adapted natural systems to their needs, the fundamental properties and historic characteristic of river ecosystems have been dramatically altered. Waterways throughout the world are under immense pressure to meet the needs of people yet many streams and rivers are already seriously polluted or otherwise ecologically degraded. Patterns of human development seem to be incompatible with preservation of freshwater ecosystems and the services they provide people. At this point in time, it is urgent that we use a combination of conservation, restoration, and ecological design to limit further loss of freshwater ecosystem services. To do this, policies must change at local, regional, and international scales. I will highlight research challenges and policy challenges particularly as they related to river restoration. I will argue that contrary to current views and practices, we need to abandon the concept of historical river conditions and instead focus on the socio-ecological potential of existing stream ecosystems. In some settings, we must re-invent rivers to meet societal needs and to be more self-sustaining than they are at present. Instead of using templates or reference reach approaches, I argue for design of novel systems, conservation of high [ecological] value streams and restoration approaches that promote the functionality and resilience. This cannot be done without a healthier partnership between restoration practitioners, scientists, and natural resource managers.

Biography: Dr. Margaret Palmer, Professor and Director of the Chesapeake Biological Laboratory of the University of Maryland Center for Environmental Science is an expert on watershed science and restoration ecology having worked on streams, rivers, and estuaries for 27 years and leading scientific projects at national and international levels. She has more than 150 scientific publications, serves as an editor for the journal Restoration Ecology and co-authored the book The Foundations of Restoration Ecology. Dr. Palmer has been honored as a AAAS Fellow, an Aldo Leopold Leadership Fellow, a Lilly Fellow, a Distinguished Scholar Teacher, and with an Ecological Society of America Distinguished Service Award.

Monday 27 June 2011

14.30- 15.15 h.  
Presented by: M. Gessner

Guy Woodward - Queen Mary, University of London, United Kingdom

Presentation: "Assessing the impacts of climate change across multiple levels of organisation: from molecules to ecosystems"

Abstract: Climate change is a multifaceted "integrated stressor", comprised of several component parts. These include: changes in environmental temperature, altered ecological stoichiometry between consumers and resources, and hydrological change. These different drivers can all influence multiple levels of biological organisation in fresh waters, from molecules to entire ecosystems, and they may act both individually and/or synergistically, in concert. In addition, local invasions and extinctions are likely, as species populations move between new climatic zones, potentially creating novel food webs.

Surprisingly little is known about the effects of climate change at the community, food web, or ecosystem level, as most research has been focused at the lower organisational (individual or population) levels. I will attempt to outline how we might move towards addressing these gaps in our knowledge more systematically, within a coherent theoretical framework. I will present some recent studies conducted at the higher organisational levels using a range of approaches, from experimental manipulations to empirical surveys and mathematical modelling, to illustrate how these may be integrated to provide new insights. Although our understanding is still embryonic, some recurrent patterns are emerging from empirical studies and theoretical developments are moving forward apace: this offers promise for further rapid advances, as we try to grapple with arguably the most serious threat faced by freshwater ecosystems in the 21st century.

Biography: Dr Woodward’s current research interests are focused on quantifying the impacts of stressors (climate change, acidification, eutrophication, species invasions and habitat alteration) on the structure and functioning of aquatic ecosystems. He is currently collaborating with a range of experts from different disciplines in order to understand the links between patterns and processes in natural systems, and to develop a conceptual framework within which to advance ecological theory. He is particularly interested in how metabolic and foraging theory can be applied to complex ecological systems. Body size and temperature determine basal metabolic rate and foraging activity: the consequences of this are manifested across multiple levels of biological organisation, from individuals to entire ecosystems. Allometric scaling relationships are common in nature (e.g. body size versus ingestion rate, growth rate, interaction strength etc.) and can have potentially profound effects on the structure and dynamics of complex ecological networks (food webs, plant-pollinator networks etc.) and their ability to withstand perturbations, and much of his work is now focused particularly on developing new approaches to understand the impacts of climate change in multispecies systems.

Tuesday 28 June 2011

08.30- 09.15 h.  
Presented by: M. Mutz

Andrew Boulton - University of New England, Australia

Presentation: "Challenges in conservation and management of groundwater-surface water linkages in rivers"

Abstract: Scientists have been aware of the ecological significance of hydrological linkages between groundwater and surface water in rivers for decades. For example, many rivers have a substantial baseflow component derived from groundwater, active hyporheic...
zones function below many gravel- and sand-bed rivers, and most temporary streams are fed by or feed shallow groundwater aquifers. However, the application of this knowledge to conservation and management of groundwater-surface water linkages has been slow. Too often, waters in shallow alluvial aquifers and surface waters of overlying rivers are managed as if they were separate entities. Worse still, conservation is seldom focused on specific zones of active linkages (e.g., recharge zones on floodplains, significant sequences of hyporheic zones, discharge zones into shallow aquifers). Similarly, restoration of such areas lags far behind that of riparian zones or surface water channels.

After reviewing our ecological knowledge of groundwater-surface water linkages in permanent and temporary rivers and streams, I discuss challenges facing scientists and managers seeking to collaborate to conserve and manage these linkages. These challenges range from ignorance of the ecological significance of the linkages through to what seems like political chicanery in some cases of water resource management. The problems are especially severe in arid and semi-arid countries where wise water resource management is essential. Restoration of groundwater-surface water linkages is still in its infancy but some early results indicate improvements in water quality of surface and groundwater. Until we seek to manage and conserve permanent and temporary rivers and their aquifers as a single integrated unit, we risk serious damage to their ecology as well as jeopardise provision of crucial ecosystem goods and services.

We also squander opportunities (e.g., via hypothesis-driven manipulation of various restoration strategies at a catchment-aquifer scale) to research the mechanisms by which groundwater-surface water interactions affect rivers and their aquifers.

**Biography:** After completing his undergraduate degree in Zoology at the University of Western Australia in 1981, he did a PhD at Monash University studying macroinvertebrate ecology in two Victorian intermittent streams. In 1988, he took up a lectureship at Adelaide University for two years before spending a year at Arizona State University lecturing in limnology and working on desert streams. He returned to Adelaide University as an ARC Postdoctoral Fellow for three years and in 1994, was appointed a lecturer at UNE. He presently lectures in water resource management and aquatic ecology at first, second and final year levels. He also co-teaches resource survey and biostatistics, and supervises a number of postgraduate and fourth-year projects in many aspects of applied limnology. Current research interests include aquatic invertebrate ecology, organic matter dynamics in streams and estuaries, subsurface (hyporheic) fauna and processes, and effects of catchment land-use (forestry, mining, agriculture) on aquatic ecosystems.

**Presentation:** "Channel form, water flow, and river ecosystem functioning"

Because of the serious effects of pollution on water supply, water agencies have historically paid much closer attention to water quality than to other aspects of river integrity. More recently, however, it became evident that human impacts on channel form and water flow are also impairing seriously river health and thus threatening the benefits the society can derive from these ecosystems. Most river ecosystem functioning depends on river hydromorphological integrity, as shown by the relationship between riparian zone and nutrient retention, or the effects of channel complexity on storage and breakdown of coarse organic matter. Additionally, changes in channel form or water flow often lead to shifts in composition of biological communities, which in turn affect ecosystem functioning. Human activities are speeding up through the planet as a result of increased population and more powerful technologies. This is leading to increased rates of modification in river channels in such a way that, even where water pollution is decreasing, river biota does rarely recover to high status. Therefore, it is necessary to make an effort to understand the main principles underlying the relation between channel form, water flow and river ecosystems, so we can design the best strategies to recover truly functioning rivers in the current, highly modified landscapes.

**Biography:** His research is focused on the relationship between the structure and functioning of stream ecosystems, such as the role of channel complexity in nutrient retention, or the relationship between algal biomass and ecosystem metabolism. He has applied this perspective to study the effect of multiple human activities, from forestry to water abstraction or global climate change, on the functioning of stream ecosystems. He is also interested in river restoration projects and in management of riparian areas.

**Thursday 30 June 2011**

08.30- 09.15 h.
Presented by N.Grimm

Gilles Pinay - University of Birmingham, United Kingdom

**Presentation:** "Why bother about land water interfaces? A watershed view"

Land water interfaces such as riparian zones have long suffered from the duality of their origin and maintenance, being too wet for agronomists and too dry for hydrobiologists. They recently became a hot spot for conflicting interests spanning from biodiversity refuge, flood mitigation or diffuse pollution control. Yet, none of the lobbyists pushing any of their agendas are willing to admit that these interfaces can do a lot of it if, and only if, we preserve their intrinsic need for wandering between land and water. This presentation, using diffuse pollution control as an example, will explore, in the light of the current available information, what are the opportunities and constraints to maintain or restore land water interfaces along streams and rivers.

Kurt D. Fausch - Colorado State University, USA

**Presentation:** "Ecological futures are bleak for fishes in western Great Plains riverscapes (USA) subject to groundwater pumping for agriculture"

The Great Plains is one of the largest ecoregions in North America, and produces about 25% of the world’s grain. Much of this agricultural production is supported by pumping groundwater, causing large declines in groundwater levels and streamflow, and resulting in loss of lotic habitats. We linked measurements of habitat at three scales (basin, segment, pool) to a spatially and temporally explicit groundwater model and used this to predict future scenarios for fish habitat throughout the remaining core habitat of the 110-km long Arikaree River in eastern Colorado under three scenarios of groundwater pumping. In each case, pumping was unsustainable, causing losses of about 45-65% of the remaining refuge pools within 35 years, all of which will be isolated within a 1-2 km reach. Despite key adaptations of the fish fauna that allow species to reproduce, disperse, and persist in this highly dynamic ecosystem, 5 of 16 native species have already disappeared, and this habitat loss would likely extirpate most of the rest in this basin. Unfortunately, stabilizing habitat at its current depleted level would require reducing pumping by 75%, which is not economically feasible. Scaling up analysis to multiple basins throughout the High Plains (Ogallala) Aquifer, which covers parts of 8 US states (South Dakota to Texas), showed that these large declines in groundwater levels due to pumping are not isolated to the Arikaree River, but have occurred over most of the western Great Plains. Mapping groundwater declines in western Kansas to predict stream channel drying showed that wetted segments declined from about 2500 to 1500 km over the last 50 years (1955 to 2005), a 40% decline. Forecasting further declines suggests that only 1000 km of lotic habitat will be available by 2045, resulting in a bleak ecological future for many western Great Plains fishes.

**Biography:** Research in his laboratory focuses on the ecology and management of streams and stream fishes. His students and collaborators are especially interested in the interaction of stream fishes with their habitat at different spatial and temporal scales. They have been involved in research on interspecific competition among salmonids in Rocky Mountain streams; invasions by nonnative salmonids and their effects on stream and riparian food webs; recruitment bottlenecks and climate change that hamper conservation of native cutthroat trout in Colorado; effects of agricultural pumping on habitats that support rare fishes in Great Plains streams; and effects of livestock grazing on terrestrial invertebrate subsidies that sustain trout in foothills rangeland streams. Recent work has been funded by the National Science Foundation, Colorado Division of Wildlife, U.S. Forest Service, U.S. Bureau of Reclamation, U.S. Department of the Interior, Natural Resources Conservation Service, U.S. Fish and Wildlife Service, Colorado Water Resources Research Institute, National Park Service, U.S. Army, Japanese Society for the Promotion of Science, U.S. Environmental Protection Agency, and Trout Unlimited.

David M. Livingstone - Swiss Federal Institute of Environmental Science and Technology (EAWAG), Switzerland

**Presentation:** "The physical impact of large-scale climatic forcing and long-term climate change on inland waters"

**Biography:** Some of Dr. Livingstone’s specific research interests connected with the general topic of the impact of climate change on our water resources are:
- Influence of long-term climate change on physical lake variables
- Regional coherence of limnological variables
- Lake and river ice phenology
- Influence of the North Atlantic Oscillation on physical lake variables
- Studies of remote high-altitude lakes
Other research interests have included lake-atmosphere gas exchange; transport and burial as a cause of fish egg mortality; modelling hypolimnetic oxygen profiles; determination of climate-relevant periodicities in sediment varve thicknesses; and the rotary spectral analysis of wind vectors.
# Schedule SEFS 7

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ROOM</strong></td>
<td><strong>ROOM</strong></td>
<td><strong>FIELD EXCURSIONS</strong></td>
<td><strong>FIELD EXCURSIONS</strong></td>
<td><strong>FRIDAY</strong></td>
</tr>
<tr>
<td><strong>SECOND</strong></td>
<td><strong>SECOND</strong></td>
<td><strong>POSTER SESSION</strong></td>
<td><strong>POSTER SESSION</strong></td>
<td><strong>CLOSE</strong></td>
</tr>
<tr>
<td><strong>FLOOR</strong></td>
<td><strong>FLOOR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GROUND</strong></td>
<td><strong>GROUND</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GIRONDIA</strong></td>
<td><strong>GIRONDIA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>08:15 - 08:30</strong></td>
<td><strong>09:00 - 09:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>09:15 - 09:30</strong></td>
<td><strong>09:15 - 09:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>09:30 - 09:45</strong></td>
<td><strong>09:30 - 09:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>10:15 - 10:30</strong></td>
<td><strong>10:15 - 10:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>10:45 - 11:00</strong></td>
<td><strong>10:45 - 11:00</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>11:15 - 11:30</strong></td>
<td><strong>11:15 - 11:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>11:30 - 11:45</strong></td>
<td><strong>11:30 - 11:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>11:45 - 12:00</strong></td>
<td><strong>11:45 - 12:00</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>12:00 - 12:15</strong></td>
<td><strong>12:00 - 12:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>12:15 - 12:30</strong></td>
<td><strong>12:15 - 12:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>12:45 - 13:00</strong></td>
<td><strong>12:45 - 13:00</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>13:00 - 13:15</strong></td>
<td><strong>13:00 - 13:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>13:15 - 13:30</strong></td>
<td><strong>13:15 - 13:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>13:30 - 13:45</strong></td>
<td><strong>13:30 - 13:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>14:15 - 14:30</strong></td>
<td><strong>14:15 - 14:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>14:30 - 14:45</strong></td>
<td><strong>14:30 - 14:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>15:15 - 15:30</strong></td>
<td><strong>15:15 - 15:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>15:30 - 15:45</strong></td>
<td><strong>15:30 - 15:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>16:00 - 16:15</strong></td>
<td><strong>16:00 - 16:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>16:15 - 16:30</strong></td>
<td><strong>16:15 - 16:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>16:30 - 16:45</strong></td>
<td><strong>16:30 - 16:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>17:00 - 17:15</strong></td>
<td><strong>17:00 - 17:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>17:15 - 17:30</strong></td>
<td><strong>17:15 - 17:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>17:30 - 17:45</strong></td>
<td><strong>17:30 - 17:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>18:00 - 18:15</strong></td>
<td><strong>18:00 - 18:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>18:15 - 18:30</strong></td>
<td><strong>18:15 - 18:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>18:30 - 18:45</strong></td>
<td><strong>18:30 - 18:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>18:45 - 19:00</strong></td>
<td><strong>18:45 - 19:00</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>19:00 - 19:15</strong></td>
<td><strong>19:00 - 19:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>19:15 - 19:30</strong></td>
<td><strong>19:15 - 19:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>19:30 - 19:45</strong></td>
<td><strong>19:30 - 19:45</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>20:00 - 20:15</strong></td>
<td><strong>20:00 - 20:15</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
<tr>
<td><strong>20:15 - 20:30</strong></td>
<td><strong>20:15 - 20:30</strong></td>
<td></td>
<td></td>
<td><strong>O8:00</strong></td>
</tr>
</tbody>
</table>

---

**Final programme** 16
### Final Programme

**Girona, 27 June - 1 July 2011**

**MONDAY, 27 JUNE 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 08:55</td>
<td>Morning break</td>
</tr>
<tr>
<td>08:55 - 10:00</td>
<td>Welcome and opening</td>
</tr>
<tr>
<td>10:00 - 10:15</td>
<td>Breakfast</td>
</tr>
<tr>
<td>10:15 - 11:30</td>
<td>SEFSG1</td>
</tr>
<tr>
<td>11:30 - 11:45</td>
<td>Morning break</td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td>Coffee</td>
</tr>
<tr>
<td>12:00 - 13:15</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:15 - 14:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:30 - 15:15</td>
<td>G. Welcome and opening</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>Coffee</td>
</tr>
<tr>
<td>15:30 - 17:00</td>
<td>Exhibits and postures</td>
</tr>
</tbody>
</table>

**Room**

1. Hall 1
2. Hall 2
3. Café
4. Exhibition Space
MONDAY, 27 JUNE 2011

O3 Environmental Management
Location: Sala Simfònica
Chair: Davies, P.

09:15 Bonet, Berta; Corcoll, Natàlia; Acuña, Vicenç; Sigg, Laura; Behra, Renata; Guasch, Helena
03-1 BIOFILMS’ ANTIOXIDANT ENZYME ACTIVITIES RESPONSES TO MULTIPLE-STRESS IN FLUVIAL SYSTEMS

09:30 Bouchez, Agnès; Tlili, Ahmed; Bérard, Annette; Montuelle, Bernard
03-2 IMPACT OF CHRONIC AND PULSE PESTICIDE EXPOSURES ON PERIPHYTON COMMUNITIES

09:45 Fernández-Piñas, Francisca; Rodea-Palomares, Ismael; Leganés, Francisco; Rosal, Roberto; González-Pleiter, Miguel
03-3 RISK ASSESSMENT OF MIXTURES: STUDY OF THE NATURE OF INTERACTION BETWEEN POLLUTANTS IN COMPLEX MIXTURES BY THE COMBINATION INDEX METHOD

10:00 López-Doval, Julio C.; Ricart, Marta; Villagrassa, Marta; Barceló, Damià; Ginebreda, Antoni; Guasch, Helena; López De Alde, Miren; Orendt, Claus; Romani, Anna; Brix, Rikke; Sabater, Sergi; Muñoz Gracia, Isabel
03-4 DISCRIMINATING KEY CHEMICAL POLLUTANTS IN A MEDITERRANEAN RIVER DURING LOW FLOW REGIME AND THEIR RELATIONSHIP WITH BENTHIC COMMUNITIES

10:15 Morin, Soizic; Rosebery, Juliette; Chauvin, Christian; Liebig, Hervé; Hupin, Claire; Renard, Vincent; Rebillard, Jean-Pierre
03-5 COMBINING DIATOMS, MACROPHYTES, MACROINVERTEBRATES AND FISH TO ASSESS THE EFFECTS OF INDUSTRIAL WASTES: WHEN BIOLOGY TEACHES MORE THAN CHEMICAL MONITORING.

09:30 Sabater, Francesc; Riera, Joan Lluis; Martí, Eugènia; Altuna, Maddi; Comas, Joaquim; Diez, Joserrà; Eloségui, Arturo
09:45 STREAMS 1.0©, AN ENVIRONMENTAL DECISION SUPPORT SYSTEM FOR STREAM MANAGEMENT WITH EMPHASIS ON ECOSYSTEM FUNCTIONALITY AT REACH SCALE

12:00 Alba-Tercedor, Javier; Rodriguez-López, Roberto; Poquet, José Manuel, MEDPACS AND ACADARI, BEYOND THE DEVELOPMENT OF ECOLOGICAL STATUS ASSESSMENT TOOLS FOR FRESHWATER ECOSYSTEMS: PREDICTING THE EFFECT OF GLOBAL WARMING ON MACROINVERTEBRATE COMMUNITIES OF SPANISH MEDITERRANEAN WATER-COURSES

12:30 Lutter, Stephan; Schnepf, Doris
03-12 MELIA: WATER MANAGEMENT INDICATORS FOR THE MEDITERRANEAN REGION

12:45 Mas-Pla, Josep; Menció, Anna; Marsiñach, Albert; Rodríguez-Florit, Agustí; Brusi, David; Boada, Martí
03-13 IDENTIFICATION OF STREAM FLOW SOURCES BY MEANS OF HYDROCHEMICAL END-MEMBER MIXING ANALYSIS (TORDERA RIVER, NE SPAIN)

Chair J.L. Moreno

15:15 Font, Eva; Mas-Pla, Josep; Menció, Anna; Astui, Oihane; Rodríguez-Florit, Agustí; Folch, Albert; Pérez-Paricio, Alfredo; Brusi, David
03-14 MODELLING STREAM AND GROUNDWATER DYNAMICS TO EVALUATE HUMAN PRESSURES ON STREAM DISCHARGE AT THE LOWER ARBÚCIES RIVER BASIN (NE SPAIN)

15:45 Kolberg, Solveig; Dios-Palomares, Rafela; Berbel, Julio
03-16 DETERMINANTS FOR ACCESS TO IRRIGATION WATER IN GUADALQUIVIR RIVER BASIN, SPAIN

Chair J.L. Moreno

16:30 Leonard, Paul; Martin, Keith; Varvill, Katherine
03-17 DEVELOPING BETTER COMMUNITY USE OF THE RIVER CRANE, A TRIBUTARY OF THE RIVER THAMES

16:45 Murphy, John; Jones, J. Iwan; Naden, Pam; Anthony, Steve; Duerrdoth, Chas; Hawczak, Adrianna; Pretty, James; Blackburn, John; Fawcett, Chris; Skates, James
03-18 CAN AGRI-ENVIRONMENT SCHEMES PROTECT AND ENHANCE FRESHWATER ECOSYSTEMS?

17:00 Ordeix, Marc; Sellàreres, Núria; Jiménez, Laia; Puntí, Tura; Sala, Lluís
03-19 ENVIRONMENTAL RESULTS OF SEVERAL
SS3 Form and function: channel morphology, hydraulic integrity and river ecosystem functioning
Location: Sala Petita
Chair: Elosegi, A. and Mutz, M.

09:30 Ibisate González de Matauco, Askoa; Díaz, Elena; Ollero Ojeda, Alfredo; Gonzalo Peña, Laura Elisabet; Fuentes Retamar, Javier
CHANNEL ADJUSTMENT RESPONSE TO HYDROPOWER STATIONS IN A MEANDERING RIVER, THE LOWER REACH OF ARAGON RIVER

09:45 Belletti, Barbara; Dufour, Simon; Piégay, Hervé
REGIONAL VARIABILITY OF AQUATIC HABITAT PATTERN IN BRAIDED REACHES (EXAMPLE OF THE FRENCH RHONE BASIN)

10:00 Barquin, José; Snelder, Ton; Booker, Doug; Álvarez-Cabria, Mario; Peñas, Francisco; Fernández, Diego
MODELLING PHYSICAL CHARACTERISTICS OF HABITATS FROM RIVER REACHES TO ENTIRE RIVER NETWORKS IN NORTHERN SPAIN

10:15 Corenbliet, Dov; Steiger, Johannes; Delmotte, Sébastien
FUNCTIONAL COMPONENTS OF FLUVIAL LANDFORMS: WHAT DOES IT MEAN AND HOW DOES IT WORKS ?

Chairs: Chair: Elosegi, A. and Mutz, M.

11:15 Stella, John; Riddle, Jess; Piégay, Hervé; Teece, Mark
INTEGRATING TREE-RING AND STABLE CARBON ISOTOPE ANALYSES TO MEASURE RIPARIAN ECOSYSTEM FUNCTION, INTEGRITY, AND MESO-SCALE HYDROGEOLOGIC IMPACTS

11:30 Gonzalez Del Tanago, Marta; García de Jalón, Diego; Román, Mercedes; Bejarano, M. Dolores; Figueroa, Antonio
RIPARIAN CORRIDOR CHANGES IN THE GUADALETE RIVER (CADIZ, SOUTHERN SPAIN) AS A CONSEQUENCE OF FLOW REGULATION AND AGRICULTURE SOIL EROSION

11:45 Reich, Michael; Bargiel, Damian; Rühmkorff, Hilke
LONG-TERM CHANGES IN VEGETATION PATTERN AND CHANNEL MORPHOLOGY IN A BY-PASSED SECTION OF A BRAIDED GRAVEL BED RIVER – THE ROLE OF RESIDUAL FLOWS, PEAK FLOODS AND GRAVEL EXTRACTION.

12:00 Hamper, David; Demars, Benoit; Kemp, Joanna; Friberg, Nikolaï; Usséglio-Polatera, P
LINKING HABITATS TO INVERTEBRATES IN RIVERS: BIOLOGICAL TRAITS, TAXONOMIC COMPOSITION AND DIVERSITY

12:15 Statzner, Bernhard
MODELING BED-SEDIMENT ENGINEERING BY LOTIC FISH AND CRAYFISH

12:30 Haschenburger, Judy
A LONGER-TERM VIEW OF STREAMBED DISTURBANCE CAUSED BY FLOODS

Chairs: Elosegi, A. and Mutz, M.

15:15 Kail, Jochem; Arle, Jens; Wolter, Christian
SCALE MATTERS – THE INFLUENCE OF LOCAL HYDROGEOLOGICAL ALTERATIONS AND ANTHROPOGENIC STRESSORS AT LARGER SPATIAL SCALES ON THE ECOLOGICAL STATUS OF CENTRAL EUROPEAN RIVERS

15:30 Molinero, Jon; Díez, José Ramón; Flores, Lorea; Elosegi, Arturo
CHANGES IN CHANNEL FORM AND STREAM FUNCTIONING INDUCED BY WOOD RESTORATION IN MOUNTAIN STREAMS

15:45 Acuña, Vicenc; Díez, Josep; Flores, Lorea; Elosegi, Arturo
STREAM RESTORATION BY WOOD ADDITION – CONNECTING REACH AND BASIN SCALES BY ECOSYSTEM SERVICES

SS12 Freshwater meiofauna - legitimately neglected or important contributors to ecosystem functioning?
Location: Sala Petita
Chairs: Peter, L. Robertson, A.L.

16:30 Robertson, Anne; Gaudes, Ainhoa
FRESHWATER MEIOFAUNA: NOT QUITE SO 'OUT OF SIGHT, OUT OF MIND?'
MONDAY, 27 JUNE 2011

TESTING THE EURYOECIOUS CHARACTER OF NEMATODES AGAINST THE ALTITUDINAL ENVIRONMENTAL GRADIENT OF MOUNTAIN LAKES
Majdi, Nabil; Mialet, Benoît; Tackx, Michèle; Traunspurger, Walter; Buffan-Dubau, Evelyne

NATURAL FEEDING HABITS OF BIOFILM-DWELLING NEMATODES STUDIED WITH A MULTI-METHOD APPROACH
Buffan-Dubau, Evelyne; Majdi, Nabil; Mialet, Benoît; Boyer, Stéphanie; Lefaivre, Joséphine; Boulêtreau, Stéphanie; Ten-Hage, Loïc; Julien, Frédéric; Fernandez, Robert; Tackx, Michèle

RELATIONSHIP BETWEEN AN EPILITHIC BIOFILM AND ITS ASSOCIATED MEIOFAUNA UNDER TWO PATTERNS OF FLOOD DISTURBANCE IN THE GARONNE RIVER (FRANCE)
Weitere, Markus; Kathol, Marcel; Fischer, Helmut

BEYOND BIVALVES: THE POTENTIAL ROLE OF BENTHIC MICRO-CONSUMERS IN THE PELAGIC-BENTHIC COUPLING IN RIVERS
Moens, Tom; De Meester, Nele; Gingold, Ruth; Rigaux, Annelien; Derycke, Sofie

O6 Microbial Ecology
Location: Sala d’ Assaig
Chair Sommaruga, R.

Sarmento, Hugo; Vila-Costa, Maria; Auguet, Jean Christophe; Felip, Marisol; Camarero, Luis; Casamayor, Emilio O.; Gasol, Josep Maria

BULK HETEROTROPHIC METABOLISM AND SINGLE-CELL PHYSIOLOGY OF BACTERIONEUSTON IN HIGH MOUNTAIN LAKES
Sommaruga, Ruben; Holzer, Evelyn; Koblizek, Michal; Cuperová, Zuzana

ARE AEROBIC ANOXYGENIC PHOTOTROPHIC BACTERIA NUMERICALLY IMPORTANT IN TRANSPARENT ALPINE LAKES?
Gerphagnon, Melanie; Latour, Delphine; Colombat, Jonathan; Sime-Ngando, Télesphore

POTENTIAL TO SIGNIFICANT N₂O EMISSIONS FROM THE SEDIMENT OF A FREE WATER SURFACE CONSTRUCTED WETLAND
Racchetti, Erica; Ribaudo, Cristina; Longhi, Daniele; Bartoli, Marco; Vilar-Sanz, Ariadna; Artigas, Joan; Romaní, Anna

Changes in the bacterial phenol-degrading community along the decomposition of Platanus acerifolia leaves in a forested stream

García-Lledó, Arantzazu; Vilar-Sanz, Ariadna; Trias, Rosalia; Hallin, Sara; Bañeras, Lluís

SS8 Freshwater molecular ecology - diversification, gene expression and climate change
Location: Sala d’ Assaig
Chairs: Pauls, S.U. and Monaghan, M.T.

LOSS OF PYRENEAN GLACIERS LIKELY WILL HAVE A STRONG NEGATIVE EFFECT ON REGIONAL POPULATION-GENETIC DIVERSITY OF BAETIS ALPINUS (EPHEMEROPTERA)
Finn, Debra; Chamis, Kieran; Milner, Alexander

CLIMATE CHANGE WILL LEAD TO MASSIVE
LOSS OF GENETIC AND CRYPTIC DIVERSITY

15:45 Vila-Costa, Maria; Sharma, Shalabh; Moran, Mary Ann; Casamayor, Emilio Ortega
DIEL GENE EXPRESSION PROFILES IN A HIGH-ALTITUDE LAKE THROUGH METRANSCRIPTOMICS

Chairs: Pauls, S.U. and Monaghan, M.T

16:30 Leese, Florian; Tollrian, Ralph
ECOLOGICAL GENOMICS: FIRST INSIGHTS INTO THE GENETIC BASIS OF INDICIBLE DEFENSES IN DAPHNIA

16:45 Alp, Maria; Westram, Anja; Junker, Julian; Karpáthi, Theresa; Werth, Silke; Keller, Irene; Peter, Armin; Scheidegger, Christoph; Robinson, Christopher
HOW RIVERSCAPE STRUCTURE AND BIOLOGICAL TRAITS DETERMINE DISPERSAL AMONG RIPARIAN/STREAM ORGANISMS: USING MICROSATellites TO HELP RESOLVE ECOLOGICAL QUESTIONS.

17:00 Paz, Ivan; Quemere, Erwan; Chikhi, Lounès; Loot, Géraldine; Blanchet, Simon
ASSESSING THE IMPACT OF HABITAT FRAGMENTATION ON THE DEMOGRAPHIC HISTORIES OF POPULATIONS EXPERIENCING ASYMMETRIC GENE FLOW.

17:15 Kohout, Jan; Šedivá, Alena; Jašková, Iva; Papoušek, Ivo; Slečta, Vlastimil
GENETIC STRUCTURE OF BROWN TROUT IN CENTRAL EUROPE IS STRONGLY AFFECTED BY STOCKING WITH HATCHERY-REARED FISH

17:30 Freimann, Remo; Buergmann, H.; Findlay, S.; Robinson, Chris
SPATIAL-TEMPORAL PATTERNS AND SHIFTING ROLE OF BACTERIA IN ECOSYSTEM FUNCTIONING IN SWISS ALPINE FLOODPLAINS

17:45 Fillol, Mireia; Plasencia, Anna; Auguet, Olga; Borrego, Carles
DIVERSITY AND HABITAT SEGREGATION OF ARCHAEOAL LINEAGES IN STRATIFIED KARSTIC LAKES

SS6 Ecology of freshwater fish: effects of streamflow and hydrological alteration
Location: Sala 1
Chairs: Garcia, E and Lobon, J.

09:15 Lobón-Cerviño, Javier
STREAM HYDROLOGY AND THE POPULATION DYNAMICS OF BROWN TROUT (SALMO TRUTTA): KNOWN KNOWS, KNOWN UNKNOWNs AND UNKNOWN UNKNOWNs.

09:30 Ilhéu, Maria; Alexandre, Carlos; Sousa, Dário
FISH RESPONSE TO NATURAL DISTURBANCE IN AN INTERMITTENT MEDITERRANEAN STREAM: THE IMPORTANCE OF SUMMER REFUGIA FOR FISH POPULATIONS PERSISTENCE

09:45 Carmona-Catot, Gerard; Benito, Josep; Garcia-Berthou, Emili
VARIATION IN LIFE HISTORY TRAITS OF INVASIVE MOSQUITOFISH ALONG SPATIAL GRADIENTS

10:00 Pekcan-Hekim, Zeynep; Joensuu, Laura; Horppila, Jukka
THE EFFECT OF SMALL-SCALE TURBULENCE ON FEEDING EFFICIENCY OF PERCH (PERCA FLUVIATILIS)

10:15 Kakareko, Tomasz; Kobak, Jaroslaw; Grabowska, Joanna; Jermacz, Lukasz; Przybylski, Miroslaw; Poznanska, Malgorzata; Retraszewski, Dariusz
COMPETITIVE INTERACTIONS FOR LIMITED FOOD RESOURCES BETWEEN ALIEN RACER GOBY NEOGOBIOUS GYMNOTRACHELLUS AND NATIVE BULLHEAD COTTUS GOBIO UNDER LABORATORY CONDITIONS

Chairs: Garcia, E and Lobon, J.

11:00 Garcia-Berthou, Emili; Benejam, Lluís; Benito, Josep; Carmona-Catot, Gerard; Casals, Frederic; Faggiano, Leslie; Merciai, Roberto; Murphy, Christine
A COMPARATIVE ANALYSIS OF FISH ASSEMBLAGES’ STRUCTURE IN REGULATED AND NON-REGULATED RIVERS FROM TEMPORARY AND PERMANENT BASINS

11:15 Alexandre, Carlos; Ferreira, Teresa; Almeida, Pedro
EFFECTS OF HYDROLOGICAL ALTERATION ON IBERIAN FRESHWATER FISHES: WHAT DO WE KNOW?

11:30 Magellán, Kit; Swartz, Ernst
THE EFFECTS OF CATASTROPHIC HABITAT DESTRUCTION ON ENVIRONMENTAL FACTORS AND FISH FREQUENCY

11:45 Caíola, Nuno; Ibáñez, Carles; Alcaraz, Carles; Rodríguez, Silvia; Nebra, Alfonso; Muñoz, Gloria
RESPONSE OF FISH COMMUNITY STRUCTURE TO RIVER FLOW: APPLICATION TO THE BIOLOGICAL VALIDATION OF ENVIRONMENTAL FLOWS IN THE LOWER EBRO RIVER

12:00 Benejam, Lluís; Saura-Mas, Sandra; Bardina, Mònica; Solà, Carolina; Munné, Antoni
ASSESSING EFFECTS OF WATER DERIVATION ON FISH POPULATIONS IN UPSTREAM REACHES OF A MEDITERRANEAN RIVER BASIN

12:15 Grantham, Theodore
USE OF TWO-DIMENSIONAL HYDRAULIC MODELING TO ASSESS PASSAGE FLOW CONNECTIVITY FOR SALMON IN STREAMS

12:30 Santos, José; Branco, Paulo; Silva, Ana; Katopodis, Christos; Pinheiro, António; Viseu, Teresa; Ferreira, Teresa
EFFECTS OF FLOW REGIME ON FISH PASSAGE SUCCESS IN AN EXPERIMENTAL POOL-TYPE FISHWAY
SS9 PALEOLIMNOLOGY: FROM PRESENT ECOLOGICAL PROCESSES TO PAST ENVIRONMENTAL CHANGE
Location: Sala1
Chairs: Julià, R; López, C. and Romero-Viana, L.

15:15  Fietz, Susanne; Huguet, Carme; Stockhecke, Mona; Moraleda, Núria; Rosell-Melé, Antoni
BIOMARKER SEASONALITY IN LAKE VAN, TURKEY

15:30  Romero Viana, Lidia; Haug, Gerald; Kienel, Ulrike; Sachse, Dirk
HYDROGEN ISOTOPIC SIGNATURES IN BIOMARKERS AS A PROXY OF HYDROCLIMATIC VARIABILITY IN LAKE ISABEL, MEXICO.

15:45  Alric, Benjamin; Arnaud, Fabien; Jenny, Jean-Philippe; Perga, Marie-Elodie
TAXONOMICAL, SIZE STRUCTURE AND GENETIC RESPONSES OF CLADOCERAN COMMUNITIES IN SUBALPINE LAKES TO 150 YEARS OF HUMAN PERTURBATIONS

Chairs: Julià, R; López, C. and Romero-Viana, L.

16:30  Siitonen, Susanna; Liljendahl, Anne; Weckström, Jan
INTRODUCTION OF BROWN TROUT (SALMO TRUTTA) INTO A FISHLESS LAKE – CAN THE RESPONSES OF ZOOPLANKTON BE SEEN IN THE SUBFOSSIL CLADOCERAN RECORD?

16:45  Rivera Rondón, Carlos A.; Catalan, Jordi
DIATOMS DISTRIBUTION IN THE LAKES OF THE PYRENEES AND THEIR POTENTIAL FOR ENVIRONMENTAL RECONSTRUCTIONS

17:00  López-Blanco, Charo; Marie-José, Gaillard-Lemdhal; Eduardo, Vicente; Maria Rosa, Miracle
A MULTI-PROXY STUDY AT LAGUNILLO DEL TEJO (SPAIN): RECONSTRUCTION OF LAKE LAVEL CHANGES AND ANTHROPOGENIC ACTIVITIES

17:15  Catalan, Jordi; Pla-Rabes, Sergi; García, Joan; Camarero, Lluís
COMBINING AQUATIC CHEMISTRY AND PALAEOLIMNOLOGICAL TECHNIQUES: THE RECONSTRUCTION OF CO2 SATURATION IN AN ALPINE LAKE THROUGHOUT THE HOLOCENE

17:30  Savichtcheva, Olga; Kirkham, Amy; Debrosas, Didier; Villar, Clement; Perga, Marie; Jenny, Jean Paul; Pignol, Cecile; Arnaud, Fabien; Domaizon, Isabelle
APPLICATION OF REAL-TIME QUANTITATIVE PCR (QPCR) FOR ENUMERATION OF PLANKTOTHRIX POPULATION (CYANOBACTERIA) IN THE LAKE SEDIMENTS: COUPLING PALEOLIMNOLOGICAL AND MOLECULAR TOOLS
### Tuesday, 28 June 2011

#### Morning Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>Coffee Break</td>
<td>Hall 1</td>
</tr>
<tr>
<td>09:00 - 10:15</td>
<td>Plenary Session</td>
<td>Hall 1</td>
</tr>
<tr>
<td>10:15 - 10:30</td>
<td>Coffee Break</td>
<td>Hall 1</td>
</tr>
<tr>
<td>10:30 - 11:45</td>
<td>Poster Session (O1, O2, E5, SS1)</td>
<td>Hall 1</td>
</tr>
<tr>
<td>11:45 - 12:30</td>
<td>Lunch</td>
<td>Hall 1</td>
</tr>
</tbody>
</table>

#### Afternoon Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30 - 14:45</td>
<td>Plenary Session</td>
<td>Hall 1</td>
</tr>
<tr>
<td>14:45 - 15:00</td>
<td>Coffee Break</td>
<td>Hall 1</td>
</tr>
<tr>
<td>15:00 - 16:15</td>
<td>Poster Session (O3, O6, SS2, SS3, SS6)</td>
<td>Hall 1</td>
</tr>
<tr>
<td>16:15 - 16:30</td>
<td>Coffee Break</td>
<td>Hall 1</td>
</tr>
<tr>
<td>16:30 - 17:45</td>
<td>Poster Session (SS8)</td>
<td>Hall 1</td>
</tr>
<tr>
<td>17:45 - 18:00</td>
<td>Coffee Break</td>
<td>Hall 1</td>
</tr>
<tr>
<td>18:00 - 19:15</td>
<td>Poster Session (SS4, SS5, SS7)</td>
<td>Hall 1</td>
</tr>
</tbody>
</table>

---

**SS9, SS12**

Poster session (O1, O2, E5, SS1)
TUESDAY, 28 JUNE 2011

O1 Population and Community Ecology
Location: Sala Simfònica
Chair: Hildrew, M.

09:15 Pulido, Cristina; Sand-Jensen, Kaj; Lucassen, Esther C.H.E.T.; Roelofs, Jan G.M.; Brodersen, Klaus P.; Pedersen, Ole; IMPROVED PREDICTION OF VEGETATION COMPOSITION IN NW EUROPEAN SOFTWATER LAKES BY COMBINING LOCATION, WATER AND SEDIMENT CHEMISTRY

09:30 Thackeray, Stephen; Jones, Ian; Feuchtmayr, Heidrun; SHIFTING PHENOLOGY IN PLANKTON COMMUNITIES: AMONG-SPECIES DIFFERENCES IN RATES, PATTERNS AND DRIVERS OF CHANGE

10:00 Joensuu, Laura; Pekcan-Hekim, Zeynep; Horppila, Jukka; THE EFFECT OF SMALL-SCALE TURBULENCE ON REFUGE USE OF CHAEBORUS FLAVICANS

10:15 Ruzicková, Sylvie; Schenková, Jana; Konvickova, Veronika; Syrovátka, Vít; Helesic, Jan; ENVIRONMENTAL IMPACT OF HEATED MINING WATERS ON CLITELLATE ASSEMBLAGES (ANNELIDA: CLITELLATA): A CASE STUDY

Chair: Winfield, I.

11:00 Muñoz Camarillo, Gloria; Caiaola, Nuno; Ibañez, Carles; Nebra, Alfonso; Rodriguez Climent, Silvia; DISCRIMINANT ANALYSIS BASED MODELS TO PREDICT OCCURRENCE AND ABUNDANCE OF ZEBRA MUSSEL IN LITIC SYSTEMS OF THE LOWER EBRO RIVER

11:15 Encalada, Andrea C.; Peckarsky, Barbara L; POPULATION SIZE RESPONSE TO LARGE-SCALE RECRUITMENT MANIPULATION OF THE MAYFLY BAETIS BICAUDATUS

11:30 Feio, Maria João; Ferreira, Wander R.; Macedo, Diego R.; Eler, Ana Paula; Mascarenhas, Carlos B.M.; França, Juliana S.; Callisto, Marcos; RECOVERY SCENARIOS FOR MACROINVERTEBRATE COMMUNITIES OF A TROPICAL CATCHMENT (VELHAS, BRAZIL) AND RESTORATION OF URBAN STREAMS: IS IT POSSIBLE TO GO BACK?

11:45 Flores, Lorea; Larrañaga, Aitor; Elosegi, Arturo; EFFECTS OF FOOD TYPE AND AVAILABILITY ON CONSUMPTION AND GROWTH OF LARVAL SERICOSTOMA VITTATUM RAMBUR (TRICHOPTERA).

12:00 Keoupalová, Vendula; Syrovátka, Vít; Bojková, Jinděška; Omelková, Markéta; Rádková, Vanda; Horsák, Michal; Helesic, Jan; THE COMPOSITION OF DIPTERA ASSEMBLAGES ALONG THE GRADIENT OF MINERAL RICHNESS IN THE SPRING FENS

12:15 Rios-Touma, Blanca; Encalda, Andrea C.; González, Fernanda; Rieradevall, Maria; Prat, Narcís; AQUATIC INSECTS SECONDARY PRODUCTION AND PHENOLOGY OF A PÁRAMO STREAM AT LATITUDE 0

12:30 Corado, Mario Margarida; Soares, Amadeu; SHORT-TERM EFFECTS OF WILD FIRE ON MACROINVERTEBRATE COMMUNITIES IN UPLAND ATLANTIC -MEDITERRANEAN STREAMS

Chair: Dobson, M.

14:15 Pekárík, Ladislav; Kosco, Ján; Kosuthova, Lenka; MODELLING THE OCCURRENCE OF DOMINANT FISH SPECIES IN INSHORE SHALLOW HABITATS OF LOWLAND RIVERS

Chair: Dobson, M.

16:30 Loquez, Maxime; Didier, Pont; Pierre, Bady; MODELING ECOLOGICAL NICHES OF FISH SPECIES AT THE EUROPEAN SCALE: EFFECTS OF CLIMATIC CONDITION AND POTENTIAL CONSEQUENCES ON FUTURE LOCAL SPECIES RICHNESS.ª

16:45 Zamora, Lluís; Clavero, Miguel; Quintana, Xavier; Pou-Rovira, Quim; USE OF SIZE DIVERSITY OF MEDITERRANEAN BARBEL (BARBUS MERIDIONALIS) AS AN INDICATOR OF ENVIRONMENTAL PERTURBATION IN MEDITERRANEAN RIVERS

17:00 Heilmann, Claudia; Winkelmann, Carola; Worischka, Susanne; Benndorf, Jürgen; IMPACT OF FISH PREDATION ON THE BEHAVIOUR OF INVERTEBRATES AND THE STRUCTURE OF A NATURAL BENTHIC COMMUNITY

Final programme 24
SEFS 7
Girona, 27 June - 1 July 2011

O7 Biodiversity
Location: Sala Petita
Chair Naselli-Flores, L.

17:15  Faggiano, Leslie; García-Berthou, Emili; Dyer, Scott; Mulder, Christian; Blanchet, Simon

ANALYSING SIZE-STRUCTURE PATTERNS OF NORTH-AMERICAN AND IBERIAN FRESHWATER FISH SPECIES

17:20  Sáinz-Barlaja, Marta; Zamora-Muñoz, Carmen; Sáinz-Cantero, Carmen Elisa; Alba-Tercedor, Javier

INFLUENCE OF CLIMATE CHANGE ON THE TRICHOPTERA COMMUNITY FROM SIERRA NEVADA MOUNTAIN RANGE (SPAIN) OVER TWO DECADES

O7-1  09:15  Faggiano, Leslie; García-Berthou, Emili; Dyer, Scott; Mulder, Christian; Blanchet, Simon

ANALYSING SIZE-STRUCTURE PATTERNS OF NORTH-AMERICAN AND IBERIAN FRESHWATER FISH SPECIES

Location: Sala Petita
Chair Naselli-Flores, L.

09:15  Faggiano, Leslie; García-Berthou, Emili; Dyer, Scott; Mulder, Christian; Blanchet, Simon

ANALYSING SIZE-STRUCTURE PATTERNS OF NORTH-AMERICAN AND IBERIAN FRESHWATER FISH SPECIES

09:30  Tockner, Klement

THE SILENT FRESHWATER BIODIVERSITY CRISIS

09:45  Nedbalová, Linda; Komárek, Jiří; Kopalová, Kateřina; Elster, Josef

BENTHIC MATS IN LAKES ON JAMES ROSS ISLAND (ANTARCTICA): CHARACTERIZATION AND KEY FACTORS INFLUENCING THEIR STRUCTURE

10:00  Nussbaumer, Julia; Kainz, Martin

TEMPERATURE AND BIODIVERSITY EFFECTS ON FRESHWATER ALGAE FATTY ACIDS

10:15  Schabhtt, Stefanie; Hingsamer, Peter; Weigelhofer, Gabriele; Hein, Thomas; Weigert, Achim; Striebel, Maren

CLIMATE CHANGE IN WETLANDS: CAN BIODIVERSITY MITIGATE HEAT EVENTS IN PHYTOPLANKTON COMMUNITIES?

Chair: Catalan, J.

11:00  Chappuis, Eglantine; Gacia, Esperança; Ballesteros, Enric

DISTRIBUTION AND RICHNESS OF AQUATIC MACROPHYTE SPECIES IN RELATION TO ENVIRONMENTAL FACTORS IN WATER BODIES OF CATALONIA (NE SPAIN).

11:15  Striebel, Maren; Singer, Gabriel; Spörl, Gertrud; Stibor, Herwig; Andersen, Tom

PHYTOPLANKTON BIODIVERSITY PROMOTES ZOOPLANKTON GROWTH AND DIVERSITY

11:30  Anton-Pardo, María; Ortelis, Raquel; Armengol, Xavier

PATTERNS OF ZOOPLANKTON RICHNESS AND DIVERSITY IN SHALLOW PERIDUNAL PONDS: EFFECT OF LOCAL AND REGIONAL FACTORS.

11:45  De Wever, Aaike; Segers, Hendrik; Martens, Koen; Schmidt-Kloiber, Astrid; Bailly, Nicolas; Tockner, Klement

BIOFRESH: INTEGRATING FRESHWATER BIODIVERSITY DATA

12:00  Szvák, Ildikó; Vadhkerti, Edit; Szalontai, Bölint; Kuéniész, Mladen; Vuéković, Ivan; Pauls, Steffen U.; Bölint, Miklós

CLIMATE CHANGE AND EVOLUTION IN SPRINGS: RADIATION, SPECIATION AND HYBRIDIZATION OF AUTUMN CADDISFLIES ON THE WESTERN BALKAN

12:15  Sáinz-Barlaja, Marta; Zamora-Muñoz, Carmen; Sáinz-Cantero, Carmen Elisa; Alba-Tercedor, Javier

INFLUENCE OF CLIMATE CHANGE ON THE TRICHOPTERA COMMUNITY FROM SIERRA NEVADA MOUNTAIN RANGE (SPAIN) OVER TWO DECADES

09:15  Faggiano, Leslie; García-Berthou, Emili; Dyer, Scott; Mulder, Christian; Blanchet, Simon

ANALYSING SIZE-STRUCTURE PATTERNS OF NORTH-AMERICAN AND IBERIAN FRESHWATER FISH SPECIES

Chair: Catalan, J.

11:00  Chappuis, Eglantine; Gacia, Esperança; Ballesteros, Enric

DISTRIBUTION AND RICHNESS OF AQUATIC MACROPHYTE SPECIES IN RELATION TO ENVIRONMENTAL FACTORS IN WATER BODIES OF CATALONIA (NE SPAIN).

11:15  Striebel, Maren; Singer, Gabriel; Spörl, Gertrud; Stibor, Herwig; Andersen, Tom

PHYTOPLANKTON BIODIVERSITY PROMOTES ZOOPLANKTON GROWTH AND DIVERSITY

11:30  Anton-Pardo, María; Ortelis, Raquel; Armengol, Xavier

PATTERNS OF ZOOPLANKTON RICHNESS AND DIVERSITY IN SHALLOW PERIDUNAL PONDS: EFFECT OF LOCAL AND REGIONAL FACTORS.

11:45  De Wever, Aaike; Segers, Hendrik; Martens, Koen; Schmidt-Kloiber, Astrid; Bailly, Nicolas; Tockner, Klement

BIOFRESH: INTEGRATING FRESHWATER BIODIVERSITY DATA

12:00  Szvák, Ildikó; Vadhkerti, Edit; Szalontai, Bölint; Kuéniész, Mladen; Vuéković, Ivan; Pauls, Steffen U.; Bölint, Miklós

CLIMATE CHANGE AND EVOLUTION IN SPRINGS: RADIATION, SPECIATION AND HYBRIDIZATION OF AUTUMN CADDISFLIES ON THE WESTERN BALKAN
TUESDAY, 28 JUNE 2011

O5 Ecosystem processes
Location: Sala d’Assaig
Chair: Grimm, N.

09:15
Leberfinger, Karolina; Herrmann, Jan;
Bohman, Irene
DRYING AND WARMING – EFFECTS ON ORGANIC MATTER BREAKDOWN AND DETRITIVORE LIFE CYCLES

09:30
Bastias, Elliot; Ribot, Miquel; López, Pilar;
Martí, Eugènia
COMBINED EFFECTS OF LEAVE C:N RATIOS AND NUTRIENT STREAM AVAILABILITY ON ORGANIC MATTER DECOMPOSITION RATES

09:45
Aristi, Ibon; Diez, Jose Ramon; Larrañaga, Aitor; Elosegi, Arturo
EFFECTS OF GLOBAL CHANGE ON THE BREAKDOWN OF ORGANIC MATTER IN MEDITERRANEAN RIVERS

10:00
Carlson, Peter; Johnson, Richard; McKie, Brendan
CONSEQUENCES OF AQUATIC SUBSIDIES ON THE DISTRIBUTION AND STRUCTURE OF RIPARIAN CONSUMERS

10:15
Fernandes, Isabel; Duarte, Sofia; Pascoal, Cláudia; Cássio, Fernanda
LONG-TERM EFFECTS OF RIPARIAN VEGETATION DIVERSITY ON STREAM-DWELLING MICROBES AND LITTER DECOMPOSITION

10:30
García Arias, Alicia; Francés García, Félix
CLIMATE CHANGE SCENARIOS EFFECTS ANALYSES OVER THE RIPARIAN VEGETATION DYNAMICS IN A MEDITERRANEAN REACH (MIJARES RIVER, SPAIN)

11:00
11:15
García Arias, Alicia; Francés García, Félix
CLIMATE CHANGE SCENARIOS EFFECTS ANALYSES OVER THE RIPARIAN VEGETATION DYNAMICS IN A MEDITERRANEAN REACH (MIJARES RIVER, SPAIN)

11:15
Lima-Fernandes, Eva; Fernandes, Isabel;
Pereira, Ana; Geraldes, Paulo; Pascoal, Cláudia; Cássio, Fernanda
EUROTYPIFICATION ALTERS NON-ADDITIVE EFFECTS OF PLANT-LITTER DIVERSITY IN STREAMS

11:30
Peipoch, Marc; Blesa, Alba; Ribot, Miquel;
Gacia, Esperança; Martí, Eugènia
N SIGNATURES REVEAL IN-STREAM NITROGEN UPTAKE BY AQUATIC MACROPHYES

11:45
Sanpera-Calbet, Isis; Ylla, Irene; Romaní, Anna M.; Sabater, Sergi; Muñoz, Isabel
BIOFILM QUALITY CHANGES UNDER A NUTRIENT INPUT IN A MEDITERRANEAN STREAM: IMPORTANCE OF LIGHT AND HYDROLOGICAL REGIME

12:00
Weigelhofer, Gabriele; Fuchsberger, Jennifer; Teufl, Bernadette; Welti, Nina; Hein, Thomas
STREAM DEGRADATION AFFECTS NITROGEN CYCLING IN NUTRIENT-ENRICHED HEADWATER STREAMS

12:15
Risse-Buhl, Ute; Nii-Annang, Seth; Dümig, Alexander; Hagedorn, Frank; Schaal, Wolfgang; Gessner, Mark; Mutz, Michael
ANCIENT DISSOLVED ORGANIC CARBON - A DRIVER FOR MICROBIAL ACTIVITY IN AN INITIAL SANDY CATCHMENT?

12:30
Bartrons, Mireia; Papes, Monica; Diebel, Matthew W; Gratton, Claudio; Vander Zanden, Jake M
EMPIRICAL MODEL OF THE POTENTIAL FLUX OF AQUATIC PRODUCTIVITY FROM LAKES AND STREAMS ONTO LAND

12:45
Holmroos, Heidi; Horppila, Jukka; Niemistö, Juha; Hietanen, Susanna
SEASONAL VARIATION IN THE EFFECT OF RESUSPENSION AND DENITRIFICATION ON TN TO TP RATIO

Chair: Townsend, C.

12:15
Mendoza-Lera, Clara; Mutz, Michael
MICROBIAL ACTIVITY AND SEDIMENT DISTURBANCE: DYNAMIC CONTROL OF VERTICAL WATER FLUX IN SAND BED FLUMES

15:15
Rodríguez-Murillo, Juan Carlos; Filella, Montserrat; Quentei, François; Almendros, Gonzalo
CARBON DYNAMICS IN A SEMIARID WETLAND: NATURAL ORGANIC MATTER IN WATERS, PORE WATERS AND WETLAND SOILS IN LAS TABLAS DE DAIMIEL (SPAIN)

15:30
Ibañez, Carles; Alcaraz, Carles; Caïola, Nuno; Rovira, Albert; Trobajo, Rosa; Duan, Concha; Munné, Antoni; Prat, Narcís
REGIME SHIFT IN A LARGE RIVER: TOP-DOWN VERSUS BOTTOM-UP EFFECTS

Chair: Wood, P.

15:45
Jones, Ian; Page, Trevor; Elliott, Alex; Thackeray, Stephen; Heathwaite, Louise
INCREASES IN LAKE PHYTOPLANKTON BIOMASS CAUSED BY FUTURE CLIMATE-DRIVEN CHANGES TO SEASONAL RIVER FLOW

16:00
Mackay, Eleanor; Jones, Ian; Folkard, Andrew; Barker, Philip
HETEROGENEITY OF SURFACE SEDIMENT IN SMALL LAKES: QUANTIFYING FOCUSING EFFECTS ON ORGANIC CARBON AND PHOSPHORUS BURIAL

16:15
Sharov, Andrey; Tolstikov, Alexey
SEASONAL VARIABILITY OF THE THALA HILLS LAKES ECOSYSTEMS (EASTERN ANTARCTIC)

17:00
Planas, Dolors; Pannard, Alexandrine; Paquet, Serge
CLIMATE CHANGE, INTERNAL LOADING AND HARMFUL ALGAE DEVELOPMENT IN LAKES WITH LOW EXTERNAL NUTRIENT INPUT
SSS Impacts of global change on higher levels of organisation: communities, food webs, ecosystems
Location: Sala 1
Chairs: Woodward, G.; Grey, J. and Trimmer, M.

09:15 Bayer, Tina; Burns, Carolyn; Schallenberg, Marc
FROM PICOCYANOBACTERIA TO DAPHNIA – UNDERSTANDING SEASONAL CONTROLS CAN HELP CHANGE PREDICTIONS
SSS-1

09:30 Buisson, Laetitia; Canal, Julie; Villéger, Sébastien; Grenouillet, Gael; Laffaille, Pascal
PROJECTING THE FUNCTIONAL MODIFICATIONS IN STREAM FISH COMMUNITIES UNDER CLIMATE CHANGE
SSS-2

09:45 Dossena, Matteo; Woodward, Guy; Yvon-Durocher, Gabriel
THE EFFECT OF WARMING ON FRESHWATER BENTHIC INVERTEBRATE COMMUNITIES: A MESOCOSM EXPERIMENT.
SSS-3

10:00 Elliott, Alex
PREDICTING HOW CYANOBACTERIA WILL RESPOND TO FUTURE ENVIRONMENTAL Pressures: A REVIEW OF SEVERAL MODELLING STUDIES
SSS-4

10:15 Estlander, Satu; Horppila, Jukka; Nurminen, Leena
HUMIC LAKE LADIES IN TROUBLE
SSS-5

11:00 Jackson, Michelle; Jones, Tabitha; Taylor, Jeffery; Milligan, Maaie; Sheath, Danny; England, Judy; Grey, Jonathan
WAVES OF INVADERS: COMMUNITY AND ECOSYSTEM LEVEL IMPACTS OF MULTIPLE INVASIVE SPECIES
SSS-6

11:15 Khalili, Maria; Weyhenmeyer, Gesa; Temmerud, Johan; Fröberg, Mats; Kartun, Erik
NITROGEN AND CARBON INTERACTIONS BETWEEN BOREAL SOILS AND LAKES
SSS-7

11:30 Ledger, Mark; Edwards, Francois; Brown, Lee; Woodward, Guy; Milner, Alexander
IMPACT OF SIMULATED Drought ON ECOSYSTEM BIOMASS PRODUCTION: AN EXPERIMENTAL TEST IN STREAM MESocosMS
SSS-8

11:45 Liljendahl, Anne; Siitonen, Susanna; Milardi, Marco; Weckström, Jan
FROM FISHLESS TO STOCKED LAKES – ECOCOLOGICAL CONSEQUENCES OF FISH INTRODUCTIONS IN SUBARCTIC LAKE ECOSYSTEMS
SSS-9

12:00 Monaghan, Kieran; Machado, Luisa; Soares, Amadeu
SPECIES TRAITS AND HABITAT STRUCTURE MEDIATE THE IMPACT OF WILDFIRE ON FISH IN UPLAND PORTUGUESE STREAMS
SSS-10

12:15 Perga, Marie Elodie; Jacob, Jérémy; Jenny, Jean-Philippe; Pignol, Cécile; Arnaud, Fabien
CHANGES IN THE ORIGINS OF CARBON SUSTAINING THE PELAGIC FOOD CHAIN DURING A CENTURY OF HUMAN PERTURBATIONS ON TWO DEEP SUBALPINE LAKES.
SSS-11

12:30 Pichler, Doris E.; Thompson, Murray S.A.; Friborg, Nikolai; Olafsson, Jón S.; Glisson, Gislí M.; Demars, Benoît O.L.; Langan, Simon; Woodward, Guy
IMPACTS OF ENVIRONMENTAL WARMING ON ECOLOGICAL NETWORKS
SSS-12

12:45 Proia, Lorenzo; Vilches, Carolina; Boninneau, Chloe; Gausch, Helena; Romani, Anna; Sabater, Sergi
DROUGHT EPISODE MODULATES THE RESPONSE OF FLUVIAL BIOFILMS TO TRICLOSAN EXPOSURE.
SSS-13

09:15 Smyntek, Peter; Grey, Jonathan
ONE PRESSURE TOO MANY? DIET SHIFTS IN A DECLINING ARCTIC CHARR POPULATION AND THE IMPLICATIONS FOR THE LAKE FOOD WEB
SSS-14

15:15 Stewart, Rebecca; Woodward, Guy; Petchey, Owen
IMPACTS OF WARMING ON FRESHWATER ECOSYSTEMS AT INTERGENERATIONAL SCALES: RESULTS FROM MODEL SYSTEMS OF PROTIST ASSEMBLAGES
SSS-15

15:45 Villar-Argaiz, Manuel; Medina-Sánchez, Juan Manuel; Bullejos, Francisco José; Herrera, Guillermo; Durán, Cristina; Dorado, Irene; Rosillo, Silvia; Carrillo, Presentación
ASSESSING GLOBAL STRESSORS PROPAGATION THROUGH AN AQUATIC FOOD WEB: FROM SHORT TO LONG-TERM OBSERVATIONS
SSS-16

16:30 Yvon-Durocher, Gabriel; Allen, Andrew
RECONCILING DIFFERENCES IN THE TEMPERATURE-DEPENDENCE OF ECOSYSTEM RESPIRATION ACROSS TIME SCALES AND ECOSYSTEM TYPES
SSS-17

O2 Biological and Ecosystem Conservation
Location: Sala 3
Chair: Muñoz, I.

09:15 Besacier-Monbrerand, Anne-Laure; Paillex, Amael; Castella, Emmanuel
 USING HYPOBHEIC DATA IN EVALUATING RIVERS FOR CONSERVATION
O2-1

09:30 Boon, Philip
USING HYPOBEIC DATA IN EVALUATING RIVERS FOR CONSERVATION
O2-2

10:00 Lorenz, Armin W.; Feld, Christian K.; Haase, Peter; Sundermann, Andrea; Hering, Daniel
DO CATCHMENT PARAMETERS CONTROL LOCAL RESTORATION SUCCESS?
O2-3
TUESDAY, 28 JUNE 2011

Maasri, Alain; Hayford, Barbara; Gelhaus, Jon

AQUATIC COMMUNITIES OF MONGOLIA AND EXPECTED SCENARIOS DUE TO THE HUMAN CAUSED CLIMATE CHANGE

Chair: Graça, M.

Ordeix, Marc; Llach, Francesc; Campodon, Jord; Guixé, David; Jiménez, Laia; Sellarès, Núria

RIVER RESTORATION AND ECOLOGICAL STATUS AND BIODIVERSITY ASSESSMENT IN MEDITERRANEAN RIVERS. EXPERIENCE IN THE TER RIVER, CATALONIA, NORTH-EAST OF IBERIAN PENINSULA.

Thouvenot, Lise; Thiébaut, Gabrielle; Damien, Jean-Patrice; Haury, Jacques

INFLUENCE OF SALINITY ON THE GROWTH OF TWO AQUATIC PLANT SPECIES.

Von Fumetti, Stefanie; Nagel, Peter

CLASSIFYING NATURAL SPRING ECOSYSTEMS – A FAUNISTIC APPROACH

Munne, Antoni; Solà, Carolina; Prat, Narcis

EFFECTS OF MEDITERRANEAN CLIMATE ANNUAL VARIABILITY ON STREAM BIOLOGICAL QUALITY ASSESSMENT USING MACROINVERTEBRATE COMMUNITIES

Gutiérrez-Cánovas, Cayetano; Velasco, Josefa; Millán, Andrés; Vaughan, Ian; Ormerod, Steve

NESTEDNESS PATTERNS IN AQUATIC MACROINVERTEBRATES UNDER ANTHROPOGENIC AND NATURAL STRESSORS

Miró, Alexandre; Ventura, Marc

FACTORS DRIVING NONNATIVE TROUT INTRODUCTIONS IN PYRENEAN ALPINE LAKES: A BASIS FOR CONSERVATION PROGRAMS

Chair: Boon, P.

Ordeix, Marc; Pou-Rovira, Quim; Sellarès, Núria; Munné, Antoni; Casamitjana, Ànna; Bardina, Mònica; Solà, Carolina

APPLICATION OF THE NEW ICF INDEX AND FISH PASS ASSESSMENT IN THE RIVERS OF CATALONIA, NORTH-EAST OF IBERIAN PENINSULA.

Pula, Héctor J.; Fallola, Cesar; Pascual, Marta; Moreno, Paloma; Simón, Cesar E.; Ramirez, Juan Carlos

STOCKING THE IBERIAN ARCHED-MOUTH NASE FOR ITS CONSERVATION AND AS SUBSTITUTE OF EXOTIC FISHES IN PONDS.

Linternans, Mark; Broadhurst, Ben; Thiem, Jason; Ebner, Brendan; Wright, Daniel; Clear, Rhian; Norris, Richard

INVESTIGATING USE OF CONSTRUCTED HABITAT TO PROTECT AN ENDANGERED MACQUARIE PERCH POPULATION IN AN ENLARGED RESERVOIR

10:15

11:00

11:15

11:30

11:45

12:00

12:15

15:15

15:30

15:45

16:30

16:45

17:00

17:15

SS2 Temporary wetlands ecology

Location: Sala 3

Chairs: Bagella, S. and Gascon, S.

Florencio, Margarita; Díaz-Paniagua, Carmen; Serrano, Laura; Bilton, David T

ENVIRONMENTAL VARIABILITY AND CONNECTIVITY: KEY FACTORS TO PRESERVE HIGH MACROINVERTEBRATE DIVERSITY IN A HIGHLY NESTED POND NETWORK

Hesse, Anne Sophie; Danjean, Marc; Viscogliosi, Henri; De Wit, Rutger

EFFECTS OF DEWATERING / INUNDATION CYCLES OF SEDIMENTS FROM AN ARTIFICIAL TEMPORARY WETLAND ON MICROBIAL COMMUNITIES

Laguna, Celia; Chicote, Álvaro; Sánchez, Sergio; Díaz, Sandra; Anza, Ibón; Vidal, María Dolores; Mateo, Rafael; Florin, Maximo

SURFACE AND INTERSTITIAL WATER AND SEDIMENT CHARACTERISTICS DRIVING BOTULISM PREVALENCE IN THE MANCHA HUMEDA BIOSPHERE RESERVE

Rudner, Michael

EPHEMERAL WETLAND VEGETATION IN MEDITERRANEAN HEATHLAND AND MAQUIS COMMUNITIES

POSTER SESSION

01 Population and Community Ecology

Chair: Tomés, Elisabet

Becker, Vanessa; Bezerra, Anderson; Torres, Laissa; Rosa, Roberto; Amorim, Aline; Mattos, Arthur

DIET VARIATION OF PHYTOPLANKTON FUNCTIONAL GROUPS AND FOOD WEB INTERACTION IN A TROPICAL RESERVOIR IN THE SEMI-ARID REGION

Cobo, Fernando; Vieira-Lanero, Rufino; Servia, María J.; Barca-Bravo, Sandra; Couto-Mendoza, María T.; Lago-Melijde, Lorena; Nachó, David; Sánchez-Hernández, Javier; Silva-Bautista, Sergio

THE EUROPEAN EEL (ANGUILLA ANGUILLA) POPULATIONS IN THE SPANISH TRIBUTARIES OF THE RIVER MIÑO (NW SPAIN).

Corado, Maria Margarida; Machado, Ana Luisa; Monaghan, Kieran A.; MVM Soares, Amadeu

THE SPATIO-TEMPORAL VARIABILITY OF MACROINVERTEBRATE COMMUNITIES IN UPLAND PORTUGUESE STREAMS

Czarnecka, Magdalena; Kobak, Jaroslaw; Poznańska, Małgorzata; Kakareko, Tomasz; Koszalka, Jacek

IMPACT OF DEPLOYMENT DATE, SAMPLING DATE AND EXPOSURE TIME ON THE SUCCESSION OF EPIFAUNA ON ARTIFICIAL SUBSTRATA IN A TEMPERATE DAM RESERVOIR

Dimante-Deimantovica, Inta; Bardacenko, Vladimir; Skute, Arturs; Skute, Renate

THE SPATIO-TEMPORAL VARIABILITY OF MACROINVERTEBRATE COMMUNITIES IN UPLAND PORTUGUESE STREAMS
TUESDAY, 28 JUNE 2011

P06
Laini, Alex; Guareschi, Simone; Famea, Elisa; Bartoli, Marco
HYDROMORPHOLOGICAL CONSTRAINTS ON MACROINVERTEBRATE COMMUNITIES STRUCTURE ALONG A LOWLAND REGULATED RIVER (OGLIO RIVER, NORTHERN ITALY)

P07
Leichtfried, Maria; M’Erimba, Charles M.
BENTHIC FAUNA IN RELATION TO ANTHROPOGENIC DISTURBANCE OF TWO TROPICAL LOW ORDER STREAMS IN KENYA

P08
Moschini-Carlos, Viviane; Nishimura, Paula Yuri; Pompêo, Marcelo
ENVIRONMENTAL FACTORS INFLUENCE PHYTOPLANKTON FUNCTIONAL GROUPS IN TWO RESERVOIRS LINKED BRAZILIAN

P09
Novikmec, Milan; Svitok, Marek; Koelický, Dušan; Bitušík, Peter
BENTHIC COMMUNITIES OF TATRA MOUNTAIN LAKES: SINGLE OR MULTIPLE TEMPERATURE GRADIENTS?

P10
Olmo, Carla; Ortells, Raquel; Romo, Susana; Martínez, Naarah; Calvo, Sara; Flor, José; Ciria, Maria; Armengol, Xavier
HATCHING PATTERNS OF ZOOPLANKTON IN A RESTORED POND: AN EX SITU EXPERIMENT

P11
Pompêo, Marcelo; Hitara, Rafael Taminato; Macedo, Célia Lira de; Rodrigues, Maria Estefânia Fernandes
LIGHT AND LITTORAL SLOPE ARE EXPLANATIONS FOR THE ABUNDANCE AND ZONATION OF EGERIA DENSA (HYDROCHARITACEAE) IN A EUTROPHIC URBAN RESERVOIR? (SÃO PAULO STATE, BRAZIL)

P14
Schmera, Denes; Eros, Tibor
EFFECT OF SAMPLING EFFORT, TAXONOMICAL RESOLUTION AND ABUNDANCE WEIGHT ON THE REPRESENTATIVENESS AND SEPARATION OF ECOCOLOGICAL ASSEMBLAGES

P15
Svitok, Marek; Hrvinák, Richard; Helena Oľaheľová, Helena; Dubravková, Daniela; Pałove-Balang, Peter; Slobodník, Vladimír
PLANT COMMUNITIES OF CREATED WETLANDS IN CENTRAL EUROPE: DIVERSITY AND SPECIES COMPOSITION AT LOCAL AND REGIONAL LEVEL

O3 Environmental Management
Chair: Young, Roger and Murphy, John

P17
Akbulut, Nuray; Akbulut, Aydýn; Atasagun, Sibel; Arslan, Naime
THE EVALUATION OF THE WATER QUALITY AND TRACE METAL CONCENTRATION THROUGH THE KIZILIRMAK RIVER OF TURKEY

P18
Almeida, Salomé; Elías, Carmen; Tornés, Elisabet; Puccinelli, Camilla; Mancini, Laura; Delmas, François; Dörflinger, Gerald; Urbanic, Gorazd; Ferreira, João; Rosebery, Juliette; Sabater, Sergi
DIATOM BIOTOPOLOGY OF THE MEDITERRANEAN REGION

P19
Álvarez Blanco, Irene; Blanco Lanza, Saúl; Cejudo Figueiras, Cristina; Becares Mantecón, Eloy
THE Dueo Diatom Index (DDI) for river water quality assessment in NW Spain: design and validation

P20
Bonnineau, Chloé; Bonet, Berta; Guasch, Helena
ANTIOXIDANT ENZYMES AS BIOMARKERS OF OXIDATIVE STRESS IN FRESHWATER BIOFILMS

P21
Cardoso Da Silva, Sheila; Lage, Fernanda; Yuri Nishimura, Paula; Loures de Godoy, Evelyn; Luis Martins Pompêo, Marcelo
BIOAVAILABILITY OF COPPER IN A RESERVOIR WITH COPPER SULPHATE ALGAE CIDES APPLICATION

P22
Celudo Figueiras, Cristina; Álvarez Blanco, Irene; Bécares, Eloy; Blanco, Saúl
EPITHYPHIC DIATOMS ALONG ENVIRONMENTAL GRADIENTS IN EUROPEAN SHALLOW LAKES.

P24
Devesa-Rey, Rosa; Leira, Manel; López-Rodríguez, María del Carmen; Barral, María Teresa
GROWTH OF AUTOTROPHIC BIOFILMS IN RIVER BED SEDIMENTS AT A MICROCSMS SCALE

P25
García-Muñoz, Enrique; Guerrero, Francisco J.; Parra, Gema
SURVIVAL AND LENGTH EFFECTS OF AGROCHEMICAL BINARY MIXTURES ON BUFO BUFO LARVAE

P26
Gómez-Sande, Pablo; Servia, María J.; Vieira-Lanero, Rufino; Barca-Bravo, Sandra; Couto-Mendoza, María
P27
De Los Ríos, Jesús; Conde-Álvarez, Rafael M.; Rodríguez Pérez, María Dolores; Flores Videla, Pauli; Figuerola, Félix L
MAPPING OF BIOMASS DISTRIBUTION OF THE SUBMERGED MACROPHYTE INHABIT IN THE BRACKISH SHALLOW LAKE “LAGUNA SALADA”: SELECTION OF SAMPLING POINTS FOR LONG TIME MONITORING ACCORDING TO THE EUROPEAN WATER FRAMEWORK DIRECTIVE

P28
Karaouzas, Ioannis; Skoulikidis, Nikolaos
INFLUENCE OF HYDROLOGIC VARIATION TO THE ECOLOGICAL STATUS OF MEDITERRANEAN STREAMS RECEIVING ORGANIC WASTEWASTERS

P29
Konvièková, Veronika; Rùžièková, Sylvie; Uher, Bohuslav; Helešic, Jan
RESPONSES OF PERIPHYTON AND BENTHIC MACROINVERTEBRATES TO THERMAL POLLUTION IN THE NEDVEDICKA RIVER

P30
Langhans, Simone; Reichert, Peter; Lienert, Judit; Schuwirth, Nele
DECISION ANALYSIS MEETS RIVER MANAGEMENT: A NEW APPROACH TO ECOLOGICAL RIVER ASSESSMENT

P31
Marcel, Remy; Bouchez, Agnès; Rimet, Frédéric
USING DIATOM TAXONOMIC DIVERSITY TO ASSESS PESTICIDE CONTAMINATION IN RIVERS

P32
Méndez Fernández, Leire; Martínez Madrid, Maite; Rodríguez, Pilar
CADMIUM TOXICITY IN SPIKED-SEDIMENT WITH THE AQUATIC OLIGOCARATE TUBIFEX TUBIFEX: AN APPROACH TO ASSESS CRITICAL BODY RESIDUE

P33
Miguel Chinchilla, Leticia; Navarro Rodríguez, Enrique; Comín Sebastián, Francisco
HEAVY METALS IN AQUATIC ECOSYSTEMS LOCATED IN RESTORED OPEN COAL MINES

P34
Molina-Navarro, Eugenio; Martínez-Pérez, Silvia; Sastre-Merlin, Antonio; Verdugo-Althöfer, María; Padisák, Judit
PHYTOPLANKTON DYNAMICS BASED ON FUNCTIONAL GROUPS AND ECOLOGICAL STATUS ASSESSMENT ACCORDING TO WATER FRAMEWORK DIRECTIVE IN A MEDITERRANEAN LIMNO-RESERVOIR.

P35
Monteagudo, Laura; Moreno, Jose Luis
LAND USE AND RIVER EUTROPHICATION: INFLUENCE OF SPATIAL SCALE

P36
Núñez, Gemma; Fernández, Camino; Fernández, Margarita
A TIPOLEGY OF SOME IBERIAN MOUNTAIN LAKES USING THE MACROPHYTE COMMUNITY COMPOSITION

P37
Palmik, Kadi; Mäemets, Helle; Haldina, Marina
IMPACT OF WATER LEVEL FLUCTUATIONS ON MACROPHYTES IN LAKE PEIPSI

P38
Perrée, Isabelle; Grantham, Ted; Prat, Narcis; Maria, Rieradevall; Miguel, Cañedo-Argüelles
STREAM MACROINVERTEBRATE COMMUNITY RESPONSE TO TREATED WASTEWATER IN A MESOCOSM EXPERIMENT

P39
Pino Otin, María Rosa; Español Latorre, Cecilia
WATER QUALITY ASSESSMENT IN THE EBRO BASIN (2000-2010) AS A BASIS TO EVALUATE THE IMPACT OF THE DEPURATION AND CLEANING PLAN (PASD) OF THE ARAGON GOVERNMENT

P40
Ponsati, Lidia; Mira, Petrovic; Damia, Barceló; Marta, Ricart; Anna, Freixa; Anna, Romani; Helena, Guasch; Sergi, Sabater
BIOFILM STRUCTURE AND FUNCTIONING AS FUNCTION OF POLLUTION GRADIENTS IN MEDITERRANEAN WATERSHEDS.

P41
Ranjan, Jayant; Sham, Shiva; Cerasino, Leonardo; Salmaso, Nico
ECOLOGICAL CHANGES OF CENTRAL EUROPEAN LAKES WITHIN THE EU PROJECT EULAKES: NUISANCE CYANOBACTERIA AND IMPACT ON THE AQUATIC ECOSYSTEMS

P42
Sánchez Ramos, David; Sánchez Emeterio, Gema; García Fernández, Beatriz; Florin Beltrán, Máximo
WASTEWATER REUSE IN LAS TABLAS DE DAIMIEL NATIONAL PARK BY IMPROVING ITS QUALITY THROUGH CONSTRUCTED WETLANDS

P43
Shams, Shiva; Cerasino, Leonardo; Ranjan, Jayant; Salmaso, Nico
CYANOTOXINS AND THEIR IMPACT ON WATER QUALITY IN CENTRAL EUROPE LAKES

P44
Whatley, Merrin; Alvarez-Codesal, Soraya; van der Geest, Harm; Admiraal, Wim
HABITAT STRUCTURE AND FOOD QUALITY AS DRIVERS OF AQUATIC BENTHIC INVERTEBRATE DIVERSITY IN DEGRADED PEATLANDS

P45
Zakowski, Tania; Arneklev, Jo Vegar; Kjærstad, Gaute; Petrin, Zlatko
THE EFFECT OF HYDROPEAKING ON BENTHIC MACROINVERTEBRATES.

O6 Microbial Ecology
Chair: Felip, Marisol

P46
Ballen-Segura, Miguel Angel; Felip, Marisol; Catalan, Jordi
SINGLE CELL ANALYSIS OF PHAGOTROPHY IN
MIXOTROPHIC PROTISTS: PROS AND CONS OF ALTERNATIVE METHODS

P47
Bañares-España, Elena; Kromkamp, Jacc; López-Rodas, Victoria; Costas, Eduardo; Flores-Moya, Antonio
SHORT-TERM PHOTOSYNTHETIC ACCLIMATION OF THE CYANOBACTERIUM MICROCYSTIS AERUGINOSA TO IRRADIANCE AND TEMPERATURE: ECOLOGICAL IMPLICATIONS

P48
Barros, Diana; Oliveira, Patrícia; Pascoal, Cláudia; Cássio, Fernanda
EFFECTS OF ETHANOL AND PHENANTHRENE ON LITTER DECOMPOSITION BY AQUATIC FUNGAL ASSEMBLAGES

P49
Branco, Diana; Lima, Ana; Guasch, Helena; Santos, José; Almeida, Salomé; Figueira, Etelvina
EFFICIENCY OF THE PHYTOCHELATIN METAL COMPLEXATION IN NITZSCHIA PALEA (KÜTZING) W. SMITH TOLERANCE TO CADMIUM

P50
Carballo López, Tatiana; Catalán Aguilà, Jordi
COLONIALITY VS. UNICELLULARITY IN PHYTOPLANKTON: AN ANALYSIS OF THE FUNCTIONAL TRADES-OFFS

P51
Charpin, Marie; Lejeune, Anne Helene; Bardot, Corinne; Jardillier, Ludwig; Sargos, Denis; Sabido, Odile; Debroas, Didier; Amblard, Christian
GENETIC DIVERSITY OF EUKARYOTIC ULTRAPHYTOPLANKTON IN THE OLIGO-MESOTROPHIC LAKE PAVIN DURING THERMAL STRATIFICATION ONSET

P52
Duarte, Sofia; Fernandes, Isabel; Nogueira, Maria João; Pinheiro, André; Cássio, Fernanda; Pascoal, Cláudia
TEMPERATURE CHANGES INTERSPECIFIC RELATIONSHIPS AMONG AQUATIC HYPMOCYTES

P53
Durán Romero, Cristina; Herrera, Guillermo; Medina-Sánchez, Juan Manuel; Rosillo, Silvia; Villar-Argaiz, Manuel; Carrilo, Presentación
MULTIPLE GLOBAL CHANGE STRESSORS (UV RADIATION, NUTRIENTS AND TEMPERATURE) ENHANCE BACTERIOPHYTELAKTON ACTIVITY IN A MEDITERRANEAN LAKE (LA CONCEJA, RUJIERA NATURAL PARK)

P54
Freixa Casals, Anna; Romani Cornet, Anna M.; Ponsati, Lydia; Sabater, Sergi
FUNCTIONAL BACTERIAL DIVERSITY IN THE EPISPAMMIC BIOFILM AT THE LLOREGAT RIVER

P55
Goldenberg Vilar, Alejandra; Bichebois, Simon; van der Geest, Harm G.; Admiraal, Wim
EFFECTS OF PARTICLE TRAPPING ON THE DEVELOPMENT OF PHOTOTROPHIC BIOFILMS

P57
De Vicente, Inmaculada; García-Jurado, Fatima; Cortes, Alicia; Guerrero, Francisco; Cruz, Francisco; Jimenez-Gomez, Francisco
IMPACT OF ATMOSPHERIC DEPOSITION ON THE PHYTOPLANKTON SIZE STRUCTURE IN A MESOTROPHIC MEDITERRANEAN RESERVOIR

P58
Landeira Dabarca, Andrea; Álvarez Jiménez, Maruxa; Sieiro Vázquez, Carmen; Albay1, Reyhan
DO MUCUS-DWELLING MICROBIOTA REFLECT WHAT FISH EAT? AN OBSERVATIONAL AND EXPERIMENTAL APPROACH WITH ATLANTIC SALMON

P60
Albay, Meric; Kimiran Erdem, Ayten; Gürevin, Cenk; Köker, Latife; Oğuz, Bağak; Gürün, Sevan; Akgaalan
ENVIRONMENTAL PARAMETERS INFLUENCE THE HARMFUL ALGAL BLOOM AND BACTERIAL ABUNDANCE IN KÜÇÜKÇEKMECE LAGOON, YSTANBUL, TÜRKİYE

P62
Sidrach-Cardona, Ricardo; Balcazar, Jose Luis; Bécares, Eloy
THE EFFECT OF INDUSTRIAL AND DOMESTIC EFFLUENTS ON BACTERIAL ANTIBIOTIC RESISTANCE IN A RIVER

P64
Buendía Forés, Cristina; Gibbins, Chris N.; Vericat, Damià; Batalla, Ramon J.
FINE SEDIMENT INFLUENCES ON BENTHIC INVERTEBRATE ASSEMBLAGES AT MULTIPLE SPATIAL SCALES

P65
Fernández, Diego; Barquín, José; Álvarez-Cabria, Mario; Peñas, Francisco J.; Juanes, José A.; Ondiviela, Bárbara; Recio, Maria; Fernández, Felipe
LONGITUDINAL PATTERNS IN RIPARIAN HABITAT COMPOSITION IN RIVERS FROM THE CANTABRIAN REGION, NORTHERN SPAIN

P66
Medina Villar, Silvia; Langa Morales, María; Alonso, Álvaro; Castro-Díez, Pilar
ASSESSING THE IMPACT OF EXOTIC TREES LEAF LITTER ON THE MACROINVERTEBRATE COMMUNITY FROM AN UPPER REACH OF HENARES RIVER (GUADALAJARA, SPAIN)

P67
Olivier, Jean-Michel; Lamouroux, Nicolas; Castella, Emmanuel; Mérigoux, Sylvie; Piégay, Hervé; Forcellini, Maxence; Fruget, Jean-François; Paileix,
Amael; Riquier, Jérémie; Sagnes, Pierre; Segura, Samuel
ASSESSMENT OF THE RHÔNE RIVER RESTORATION (FRANCE). METHODOLOGICAL APPROACH AND FIRST RESULTS.

P68
Romero, Clara; Serra, Alexandra; Marti, Eugènia; Puig, Maria Angeles
INFLUENCE OF RIPARIAN CANOPY COVER ON STREAM WATER TEMPERATURE AND BENTHIC MACROINVERTEBRATE COMMUNITIES

SS6 Ecology of freshwater fish: effects of streamflow and hydrological alteration

P69
Ayllón, Daniel; Almodóvar, Ana; Nicolàs, G. Graciela; Elvira, Benigno
EFFECTS OF FLOW REGIME ON STREAM CARRYING CAPACITY AND CONSERVATION STATUS OF BROWN TROUT POPULATIONS

P70
Barca Bravo, Sandra; Nachón, David; Vieira Lanero, Rufino; Servia, María J.; Couto Mendoza, María Teresa; Gómez Sande, Pablo; Rivas Rodríguez, Sheila; Silva Bautista, Sergio; Cobo, Fernando
MICROCHEMISTRY OF OTOLITHS: A NON MORPHOLOGICAL TRAIT FOR THE ANALYSIS OF FLUCTUATING ASYMMETRY IN TWAITHE SHAD (ALOSA FALLAX)

P71
Couto-Mendoza, María T; Vieira-Lanero, Rufino; Servia, María J.; Barca-Bravo, Sandra; Gómez-Sande, Pablo; Morquecho, Carlos; Nachón, David; Sánchez-Hernández, Javier; Cobo, Fernando
NEW DATA ON THE POPULATION OF THE ENDEMIC SPECIES ACHONDrostoma Aracsi (PISCES, CYPRINIDAE) IN THE RIVER MINO BASIN (NW SPAIN)

P72
Díez Del Molino, David; Araguas, Rosa M; Naz, Nuria; Vidal, Oriol; García Marín, Jose Luis
COLONIZATION PATTERNS OF THE NORTHEASTERN SPANISH WATERSHEDS FOR THE INVASIVE MOSQUITOFISH (G.HOLBROOKI)

P73
Nachón García, David José; Vieira-Lanero, Rufino; Servia, María J.; Barca-Bravo, Sandra; Gómez-Sande, Pablo; Lago-Mejide, Lorena; Sánchez-Hernández, Javier; Silva-Bautista, Sergio; Cobo, Fernando
NEW DATA ON THE MORPHOLOGY AND BIOLOGY OF AN IBERIAN POPULATION OF TWAITHE SHAD ALOSA FALLAX (RIVER ULLA, NW SPAIN)

P74
Naspleda, Joan; Vila-Gispert, Anna; Fox, Michael; Zamora, Luis; Ruiz-Navarro, Ana
INTERPOPULATION DIFFERENTIATION OF THE EXTERNAL AND INTERNAL MORPHOLOGY OF NON-NATIVE PUMPKINSEED IN THE IBERIAN PENINSULA: LOTIC VS LENTIC POPULATIONS

P75
Olava Marín, Esther Julia; Martínez-Capel, Francisco; Muñoz Mas, Rafael; Alcaraz-Hernández, Juan Diego; Soares Costa, Rui; Garófano-Gómez, Virginia
SENSITIVITY OF NATIVE FISH RICHNESS TO ENVIRONMENTAL VARIABLES IN THREE MEDITERRANEAN STREAMS USING ARTIFICIAL NEURAL NETWORKS

P76
Pou-Rovira, Quim; Campos, Miquel; Feo, Carles; Moreno-Amich, Ramon
DEMOGRAPHIC ECOLOGY OF LARGEMOUTH BASS (MICROPTERUS SALMOIDES) IN LAKE BANYOLES.

P77
Sánchez-Hernández, Javier; Vieira-Lanero, Rufino; Servia, María J.; Barca-Bravo, Sandra; Gómez-Sande, Pablo; Lago-Mejide, Lorena; Morquecho, Carlos; Silva-Bautista, Sergio; Cobo, Fernando
VARIABILITY IN FORAGING BEHAVIOUR OF BROWN TROUT IN ATLANTIC STREAMS: FOOD AVAILABILITY OR DENSITY DEPENDENCE?

P78
Sanz, Nuria; Araguas, Rosa M; Vidal, Oriol; Pla, Carles
IDENTIFYING MANAGEMENT AND CONSERVATION UNITS IN THE ENDANGERED IBERIAN THREE-SPINED STICKLEBACK (GASTEROSTEUS ACULEATUS)

P79
Silva-Bautista, Sergio; Vieira-Lanero, Rufino; Servia, María J.; Barca-Bravo, Sandra; Lago-Mejide, Lorena; Nachón, David; Rivas-Rodríguez, Sheila; Sánchez-Hernández, Javier; Cobo, Fernando
BIOMETRIC CHANGES FROM AMMOCOETE TO POSTMETAMORPHIC STAGE OF THE SEA LAMPREY (PETROMYZON MARINUS L.) IN THE ULLA RIVER (NW SPAIN)

P80
Vardakas, Leonidas; Yorgos, Chatzinikolaou; Stamatis, Zogaris; Nicholas, Koutsikos; Nikolaos, Skoulikidis; Karauouzas, Ioannis; Economou, Elena; Economou, Alcibiades
FISH ASSEMBLAGES TRIENNIAL RESPONSE TO A SEVERE HYDROLOGICAL STRESS ON A MEDITERRANEAN RIVER (EVROTAS)

P81
Martínez Morales, Inmaculada; Verdiell Cubedo, David; Oliva-Paterna, Francisco J.; Castejón Bueno, Diego; González Silvera, Daniel; Ruiz Navarro, Ana; López Jiménez, José A.; Martínez Lópe, Francisco J.; Torralva Forero, Mar
EFFECTS OF HYDROLOGICAL ALTERATION AND RIPARIAN HABITAT QUALITY IN CONDITION OF LUCIOBARBUS SCLATERI (GÜNTHER) FROM A SEMIARID RIVER BASIN (SE, IBERIAN PENINSULA)

SS8 Freshwater molecular ecology - diversification, gene expression and climate change

P82
Amore, Valentina; Fochetti, Romolo; Uberti, Pascal, Nicolás; Puig, Maria Angeles
HEMOCYANIN GENE EXPRESSION IN STONEFLIES UNDER DISSOLVED OXYGEN DEFICITS IN STREAM ECOSYSTEMS.

P83
Bernabbò, Paola; Viero, Gabriella; Jousson, Olivier; Lencioni, Valeria
GLOBAL WARMING AND COLD STENOTHERMAL
ORGANISMS: THE HSP70 HEAT SHOCK RESPONSE OF DIAMESA CINERELLA (DIPTERA, CHIRONOMIDAE) FROM ALPINE STREAMS.

**P85**
Ciampor, Fedor; Ciamporova Zatovicova, Zuzana
POPULATION GENETIC STRUCTURE OF AQUATIC INSECTS IN STREAMS DIVIDED BY WATER RESERVOIR

**P86**
Ciamporova Zatovicova, Zuzana; Ciampor, Fedor
GENETIC STRUCTURE OF DIVING BEETLE POPULATIONS IN HIGH TATRA MTS

**SS12** Freshwater meiofauna - legitimately neglected or important contributors to ecosystem functioning?

**P87**
Dražina, Tvrtko; Špoljar, Maria; Primc-Habdija, Biserka; Habdija, Ivan
SMALL SCALE PATTERNS OF MEIOFAUNA IN BRYOPHYTES

**P88**
Gaudes, Ainhoa; Muñoz, Isabel
CONTRIBUTION OF MEIOFAUNA TO LOTIC FUNCTIONAL PROCESSES

Mehner, Thomas; Phimann, Kirsten; Elkin, Che; Monaghan, Michael T.; Nitz, Barbara; Freyhof, Jörg.
GENETIC POPULATION STRUCTURE OF SYMPATRIC AND ALLOPATRIC POPULATIONS OF BALTIC CISCOES (COREGONUS ALBULA COMPLEX, TELEOSTEI, COREGONIDAE)
**Thursday 30 June 2011**

<table>
<thead>
<tr>
<th>Room</th>
<th>Sala Simfónica</th>
<th>Sala Petita</th>
<th>Sala d'Assaig</th>
<th>Sala 1</th>
<th>Hall I</th>
<th>Halls (Simf + Cambra + Petita)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 09:15</td>
<td>G. Pinay Plenary</td>
<td>Ground floor</td>
<td>Ground floor</td>
<td>First floor</td>
<td>Second floor</td>
<td>Ground floor</td>
</tr>
<tr>
<td>09:15 - 09:30</td>
<td>SS10, Geisser</td>
<td>SS13, Doledec</td>
<td>SS15, Aikbulut</td>
<td>O8. Cafeido</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td>SS10, Bruder</td>
<td>SS13, Gallardo</td>
<td>SS15, Altuna</td>
<td>O8. Domisch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td>SS10, Fraizer</td>
<td>SS13, Pace</td>
<td>SS15, Cattaneo</td>
<td>O8. Tibor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00 - 10:15</td>
<td>SS10, McKie</td>
<td>SS13, Skoulakis</td>
<td>SS15, Cortes</td>
<td>O8. Martinez</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15 - 10:30</td>
<td>SS10, Chauvet</td>
<td>SS13, Lalinde</td>
<td>SS15, Gevrey</td>
<td>O8. Haggarty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td><strong>Morning Break</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 - 11:15</td>
<td>SS10, Perkins</td>
<td>SS13, Conte</td>
<td>SS15, Hoye</td>
<td>SS11, Sponseller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15 - 11:30</td>
<td>SS10, Boyero</td>
<td>SS13, Marze</td>
<td>SS15, Kolada</td>
<td>SS11, Graebner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30 - 11:45</td>
<td>SS10, Richardson</td>
<td>SS13, Szendera</td>
<td>SS15, Marzin</td>
<td>SS11, Brookshire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td>SS10, LeJeune</td>
<td>SS13, Goselin</td>
<td>SS15, Sosaka</td>
<td>SS11, Aguilera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:15</td>
<td>SS10, Lepori</td>
<td>SS13, Bougon</td>
<td>SS15, Pahlova</td>
<td>SS11, Bemal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:15 - 12:30</td>
<td>SS10, Graça</td>
<td>SS13, Jassig</td>
<td>SS15, Phillips</td>
<td>SS11, Marti</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30 - 12:45</td>
<td>SS10, Prat</td>
<td>SS13, Svanhalsa</td>
<td>SS15, Pilotto</td>
<td>SS11, Gomez</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:45 - 13:00</td>
<td>SS10, Herrmann</td>
<td>SS13, Polikane</td>
<td>SS15, Thomas</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lunch**

| 14:30 - 15:15 | K. Fausch Plenary | SS10, Zhang | SS13, Puig | SS15, Prats | SS11, Blesa |
| 15:15 - 15:30 | SS10, Johnson | SS13, Tormos | SS15, Pujante | SS11, Puch |
| 15:30 - 15:45 | SS10, Bonada | SS13, Filipe | SS15, Rigosi | SS11, Grimm |
| 15:45 - 16:00 | | | | | |

**Afternoon Break**

| 16:00 - 16:30 | SS10, Greenberg | SS13, Montuelle | SS15, Rovira | O10. Kainz |
| 16:30 - 16:45 | SS10, Jonsson | SS13, Flourey | SS15, Serra | O10. Hette |
| 17:00 - 17:15 | SS10, Fausch | SS13, Argerich | SS15, Winfield | O10. Larsen |
| 17:15 - 17:30 | SS10, Muegka | SS13, Buchaca | SS15, Brucet | O10. Martinez |
| 17:30 - 17:45 | SS10, Wotton | SS15, Lopez-Roldan | O10. Rodriguez-Lozano |
| 17:45 - 18:00 | SS10, Hildrew | | O10. Jones |
| 18:00 - 18:15 | | | | |
| 18:15 - 18:30 | | | | |
| 18:30 - 18:45 | | | | |
| 18:45 - 19:00 | | | | |
| 19:00 - 19:15 | | | | |
| 19:15 - 19:30 | | | | |
| 19:30 - 19:45 | | | | |
| 19:45 - 20:00 | | | | |

**Exhibits and posters**

**Poster session Q2, O4, O5, O7, O8, O9, O10, SS1, SS2, SS4, SS5, SS7, SS10, SS11, SS13, SS14, SS15**

**Poster removal**

**Registration**
THURSDAY, 30 JUNE 2011

SS10 Patterns and Processes in Riverine Landscapes: A special session in honour of Professor Björn Malmqvist

Location: Sala Simfònica
Chairs: McKie, B. and Lepori, F.

09:15 Gessner, Mark
SS10-1 SPECIES INTERACTIONS AND LEAF DECOMPOSITION IN STREAMS: BJÖRN MALMQVIST’S UNIQUE CONTRIBUTIONS

09:30 Bruder, Andreas; McKie, Brendan; Jabiol, Jérémy; Gessner, Mark
SS10-2 EFFECTS OF MULTITROPHIC DIVERSITY ON ECOSYSTEM FUNCTIONING IN THE DETRITUS BASED FOOD WEB OF A STREAM

09:45 Frainer, André; McKie, Brendan; Malmqvist, Björn
SS10-3 SPATIAL AND TEMPORAL VARIATION IN THE RELATIONSHIP BETWEEN BIODIVERSITY AND ECOSYSTEM FUNCTIONING IN STREAMS

10:00 McKie, Brendan; Lehmann, Kai; Malmqvist, Björn
SS10-4 ECOSYSTEM FUNCTIONING WITHIN SPRING AND AUTUMN COMMUNITIES OF STREAM SUSPENSION FEEDERS: THE ROLE OF SPECIES EVENNESS

10:15 Chauvet, Eric
SS10-5 A tribute to Björn: Biodiversity and stream ecosystem functioning, a parallel between aquatic fungi and macroinvertebrate communities

Chairs: McKie, B. and Lepori, F.

11:00 Perkins, Daniel; McKie, Brendan; Malmqvist, Björn; Gilmour, Steven; Reiss, Julia; Trimmer, Mark; Woodward, Guy
SS10-6 ANTICIPATING THE EFFECTS OF GLOBAL WARMING ON BIODIVERSITY-ECOSYSTEM FUNCTIONING RELATIONSHIPS IN BENTHIC STREAM ASSEMBLAGES: EXAMPLES FROM MICROCOSM EXPERIMENTS

11:15 Boyero, Luz; Pearson, Richard G.; Gessner, Mark O. et al.
SS10-7 GLOBAL PATTERNS OF LEAF LITTER DECOMPOSITION IN STREAMS: IMPLICATIONS FOR ECOSYSTEM FUNCTIONING AND BIODIVERSITY IN A CHANGING CLIMATE

11:30 Richardson, John; Chauvet, Eric
SS10-8 CONSUMER RESPONSES TO RESOURCE PATCH ARCHITECTURE: LEAF PACKS IN STREAMS

11:45 Lecerf, Antoine; Franck, Gilbert; Clément, Lague
SS10-9 PREDATOR-DETRITIVORE INTERACTIONS IN STREAM DEPOSITIONAL ZONES: CONSEQUENCES FOR LITTER DECOMPOSITION AND SEDIMENT BIOTURBATION

12:00 Lepori, Fabio; Fausch, Kurt; Baxter, Colden; Benjamin, Joseph; Inoue, Mikio; Miyake, Yo
SS10-10 ARE BIOTIC INTERACTIONS IMPORTANT IN STREAMS? A CLOSE LOOK AT THE CASE OF TROUT PREDATION ON BENTHIC INVERTEBRATES

12:15 Graça, Manuel; Serra, Sónia; Ferreira, Verónica
SS10-11 DOES STABLE TEMPERATURE FAVOR CONTINUOUS REPRODUCTION BY THEODOXUS FLUVIATILIS AND EXPLAIN ITS HIGH DENSITIES IN SOME KARSTIC SPRINGS?

12:30 Prat, Narcís; García-Roger, Eduardo; Sanchez-Montoya, Maria del Mar; Cid, Nuria; Verkaik, Iraima; Erba, Stefania; Karouzas, Ionannis; Vardakas, L.; Sokoulidos, Nikos; De Martini, Daniele; Buffagni, Andrea; Gómez, Rosa; Suarez-Maria Luisa; Vidal-Abarca, M.R.; Riera Deval, Maria
SS10-12 DECONSTRUCTING SPATIAL AND SEASONAL PATTERNS IN AQUATIC MACROINVERTEBRATE ASSEMBLAGES FROM MEDITERRANEAN STREAMS: A HYDROLOGICAL COMPARISON.

12:45 Herrmann, Jan
SS10-13 BENTHIC INVERTEBRATES IN ISLAND STREAMS — OF VALUE FOR ECOLOGY AND ECOLOGISTS?

Chairs: McKie, B. and Lepori, F.

15:15 Zhang, Yixin; Richardson, John; Dudgeon, David; Scoggins, Mateo
SS10-14 IMPACT OF LAND-USE DISTURBANCES ON STREAM BIODIVERSITY ACROSS GEOGRAPHIC LANDSCAPES

15:30 Johnson, Richard
SS10-15 SPATIAL CONGRUENCY OF STREAM ASSEMBLAGES AND DISTURBANCE

15:45 Bonada, Núria; Múria, Cesc; Zamora-Muñoz, Carmen; Sániz-Cantero, Carmen E.; Garrido, Josefina; Acosta, Raúl; Alba-Tercedor, Javier; Vogler, Alfred P
SS10-16 NOT ALL SPECIES ARE EQUAL: INCORPORATING PHYLOGENIES AND TRAITS INTO TRADITIONAL DIVERSITY INDECES

Chairs: McKie, B. and Lepori, F.

16:30 Greenberg, Larry; Gustafsson, Pär; Bergman, Eva
SS10-17 FOREST-STREAM LINKAGES: THE RESPONSE OF BROWN TROUT TO WOODY DEBRIS AND TERRESTRIAL INVERTEBRATE INPUTS

16:45 Jonsson, Micael; Deleu, Pieter; Malmqvist, Björn
SS10-18 EFFECTS OF LARGE-RIVER REGULATION ON EMERGENT AQUATIC INSECTS AND TERRESTRIAL CONSUMERS

17:00 Fausch, Kurt; Benjamin, Joseph; Saunders, Carl; Baxter, Colden; Lepori, Fabio
SS10-19 ANTHROPOGENIC STRESSORS ON STREAMS AND RIPARIAN ZONES CAN HAVE LARGE EFFECTS ON PREDATORS IN ADJACENT HABITATS BY REDUCING PREY SUBSIDIES
17:15 Muotka, Timo  
SS10-20 RESTORATION OF FENNOSCANDIAN STREAMS: MUCH ADO ABOUT NOTHING?

17:30 Wotton, Roger S  
SS10-21 SENSUION FEEDERS AND FPS – 30 YEARS OF COLLABORATING WITH BJÖRN

17:45 Hildrew, Alan  
SS10-22 BJÖRN MALMQVIST - MASTER FRESHWATER ECologist

SS13 Assessing the impacts of global change and anthropogenic pressures on freshwater ecosystems, a role for long term-ecological research

Location: Sala Petita

Chairs: Montuelle, B.; Clemens, A.; Argerich, A.; Johnson, SL; Filipa, A.; Bonada, N. and Tockner, K.

09:15 Doledec, Sylvain; Merigoux, Sylvie;  
SS13-1 A MULTIPLE-TRAIT BASED APPROACH FOR ASSESSING THE EFFECTS OF RESTORATION MEASURES ON THE MACROINVERTEBRATE COMMUNITIES OF TWO BY-PASSED SECTIONS IN A LARGE EUROPEAN RIVER.

09:30 Gallardo, Belinda  
SS13-2 APPROACHING THE INTERACTION OF CLIMATE CHANGE AND INVASIVE SPECIES USING SPECIES DISTRIBUTION MODELS

09:45 Pace, Giorgio; Bonada, Nuria; Prat, Narcis  
SS13-3 CHANGES ON MACROINVERTEBRATE ASSEMBLAGE (EPHEMEROPTERA, PLECOPTERA AND TRICHOPTERA) OVER A 15 YEAR PERIOD IN TWO DIFFERENT STREAMS: EFFECTS OF FLOODS AND CLIMATE.

10:00 Skoulikidis, Nikolaos; Economou, Alciadias; Dimitriou, Elias; Karouzas, Ioannis; Vardakas, Leonidas  
SS13-4 CREATED DESICCATIoN - ASSESSING THE UNDERLYING CAUSE OF DESICCATIoN IN TEMPORARY RIVERS AND THE ECOLOGICAL STATUS UNDER THE PERSPECTIVE OF MAN MADE DESICCATIoN

10:15 Lalande, Nathalie; Cernesson, Flavie; Tormos, Thierry; Souchon, Yves; Tournoud, Marie George; Kosuth, Pascal  
SS13-5 DATASET QUALITY FOR A CONSISTENT ASSESSMENT OF WATER QUALITY: EXAMPLE OF IBGN DATASETS SAONE CATCHMENT IN FRANCE

Chairs: Montuelle, B.; Clemens, A.; Argerich, A.; Johnson, SL; Filipa, A.; Bonada, N. and Tockner, K.

11:00 Comte, Lise; Buisson, Laëtitia; Grenouillet, Gaël  
SS13-6 DISTRIBUTIONAL SHIFTS OF STREAM FISH OVER THE LAST DECADES

11:15 Marcé, Rafael; Armengol, Joan  
SS13-7 EL NINO SOUTHERN OSCILLATION AND CLIMATE TRENDS IMPACT RESERVOIR WATER QUALITY: EVIDENCES FROM A 44 YEARS LONG-TERM RESEARCH

11:30 Stendera, Sonja; Bonada, Nuria; Cañedo-Argüelles, Miguel; Hugueny, Bernard; Januschke, Kathrin; Pletterbauer, Florian  
SS13-8 FRESHWATER BIODIVERSITY PATTERNS AND RESPONSES TO STRESSORS AND NATURAL DRIVERs ACROSS DIFFERENT ECOSYSTEMS AND SCALES – A REVIEW

11:45 Gosselin, Marie-Pierre; Miles, Louise; Sweeting, Roger  
SS13-9 IDENTIFICATION OF THE LIMITING FACTORS TO FRESHWATER PEARL MUSSEL (Margaritifera MARGARITIFERA) RECRUITMENT IN THE NORTH TYNE CATCHMENT, NORTH-EAST ENGLAND.

12:00 Bougon, Nolwenn; Ferreol, Martial  
SS13-10 INTERPRETING LARGE-SCALE MONITORING NETWORK DATA, IN A BOUNDARY SETTING APPROACH FOR BIOLOGICAL COMMUNITIES TO ENVIRONMENTAL PRESSURES IN NATURA.

12:20 Jaehnig, Sonja; Stoll, Stefan; Haase, Peter  
SS13-11 LONG TERM ECOLoGICAL RESEARCH IN A RIVER AND FLOODPLAIN ECOSYSTEM: THE RHINE-MAIN-OBSERVATORY

12:45 Svanhalova, Blanka; Zahradkova, Svetlana;  
SS13-12 Bojkova, Jindriska  
LONG-TERM CHANGES OF MAYFLY TAXOCOENOSEx: A CASE STUDY FROM THE CZECH REPUBLIC

Chairs: Montuelle, B.; Clemens, A.; Argerich, A.; Johnson, SL; Filipa, A.; Bonada, N. and Tockner, K.

15:15 Puig, Maria Angeles; Ventura, Marc; Landeira, Andrea; Ubero-Pascal, Nicolás; Fochetti, Romolo; Camarero, Lluís  
SS13-13 LONG-TERM STUDIES IN SPANISH PYRENEES: THE STREAM MACROINVERTEBRATE COMMUNITIES OF AIGÜESTORTES AND ESTANY DE SANT MAURICI NATIONAL PARK.

15:30 Tormos, Thierry; Lalande, Nathalie; Villeneuve, Bertrand; Kosuth, Pascal; Cernesson, Flavie; Souchon, Yves  
SS13-14 REMOTE SENSING AND GIS TECHNIQUES FOR LARGE-SCALE ASSESSMENT OF THE RELATIVE IMPACTS OF LAND COVER PRESSURES ON MACROINVERTEBRATE COMMUNITIES

15:45 Filipe, Ana Filipa; Markovic, Danijela; Pletterbauer, Florian; Tisseuil, Clément; Schmutz, Stefan; Bonada, Núria; Freyhof, Jörg  
SS13-15 SALMO TRUTTA IN MEDITERRANEAN AND TEMPERATE EUROPEAN RIVER DRAINAGES: FORECASTING FUTURE DISTRIBUTION PATTERNS

Chairs: Montuelle, B.; Clemens, A.; Argerich, A.; Johnson, SL; Filipa, A.; Bonada, N. and Tockner, K.

16:30 Montuelle, Bernard; Dorioz, Jean Marcel; Guillard, Jean  
SS13-16 THE FRENCH ALPINE LAKES OBSERVATORY (ALO): A TOOL FOR ASSESSING THE EFFECTS OF THE GLOBAL CHANGE ON LAKE ECOLOGY.
THURSDAY, 30 JUNE 2011

16:45  SS13-17  Floury, Mathieu; Delattre, Cécile; Ferreol, Martial; Villeneuve, Bertrand; Souchon, Yves
        TRENDS IN MACROINVERTEBRATES ASSEMBLAGES IN THE CONTEXT OF GLOBAL CHANGE OVER A 30-YEAR PERIOD (1977-2008) : CASE OF THE MIDDLE LOIRE.

17:30  SS13-18  Argerich, Alba; Johnson, Sherri L.; Sebestyen, Stephen D.; Rhoades, Charles C.; Knoepp, Jennifer D.; Greathouse, Effie; Adams, Mary Beth; Campbell, John; McDowell, William H.; Likens, Gene
        TRENDS IN STREAM DISSOLVED INORGANIC NITROGEN IN FORESTED REFERENCE BASINS ACROSS US

17:45  SS13-19  Buchaca, Teresa; Puyo, Juan J.; Cañellas-Boltà, Núria; Margalef, Olga; Sáez, Alberto; Giralt, Santiago; Catalan, Jordi
        LAKE ECOSYSTEM RESPONSES TO LATE QUATERNARY ENVIRONMENTAL CHANGE IN THE SE PACIFIC FROM SEDIMENTARY PIGMENT AND ISOTOPIC GEOCHEMICAL DATA OF RARAKU LAKE (EASTER ISLAND, 27ºS)

SS15 Ecological assessment of lakes, rivers and reservoirs: water quality management
Location: Sala d’Assaig
Chairs. Moreno, E.; Poikane, S.; Brucet, S. and Van de Bund, W.

09:15  SS15-1  Akbulut, Nuray; Akbulut, Aydýn; Solak, Cüneyt Nadir; Günsel, Selgün
        USE OF EPILITHIC DIATOMS TO EVALUATE WATER QUALITY OF THE DELICE RIVER (KIZILIRMAK) IN TURKEY

09:30  SS15-2  Altuna Odriozola, Maddi; Martí, Eugènia; Sabater, Francesc; Diéz, Josep; Riera, Joan Luis; Elosegui, Arturo
        AN ASSESSMENT OF THE POSSIBILITIES TO IMPROVE THE TROPHIC STATE OF RIVERS IN GIPUZKOA (BASQUE COUNTRY, NORTH SPAIN) THROUGH INCREASED SELF-PURIFICATION

09:45  SS15-3  Cattaneo, Antonella; Greene, Mélissa; Carignan, Richard; Oberhaus, Laura
        MACROPHYTES BUFFER THE EFFECTS OF NUTRIENT INPUTS IN LAKES EXPERIENCING RESIDENTIAL DEVELOPMENT

10:00  SS15-4  Cortes, Rui; Oliveira, Simone; Hughes, Samantha; Jesus, Joaquim
        PREDICTION OF ECOLOGICAL QUALITY IN RUNNING WATERS AND IMPLICATIONS FOR MANAGEMENT.

10:15  SS15-5  Gevrey, Muriel; Provost, Cédric; Argillier, Christine
        IS BENTHIC FAUNA RELEVANT TO ASSESS ECOLOGICAL QUALITY OF RESERVOIRS?

11:00  SS15-6  Hover, Andrea Birgit; Acosta, Mario; Anquita, Mansia; Fernández Baldomero, Javier; Schladow, Geoffrey; Rueda, Francisco José
        SPATIAL EXPANSION OF AN INVASIVE SPECIES BY WIND-DRIVEN CURRENTS.

11:15  SS15-7  Kolada, Agnieszka; Dudley, Bernard; Willby, Nigel
        TESTING THE TAXONOMIC COMPOSITION MACROPHYTE METRICS FOR ASSESSMENT OF EUTROPHICATION – SEARCHING FOR AN INTERCALIBRATION COMMON METRIC

11:30  SS15-8  Marzin, Anahita; Belliard, Jérôme; Pont, Didier
        ECOLOGICAL ASSESSMENT OF RUNNING WATERS: DO MACROPHYNES, MACROINVERTEBRATES, DIATOMS AND FISH SHOW SIMILAR RESPONSES TO HUMAN PRESSURES?

11:45  SS15-9  Moe, Jannicke; Soszka, Hanna; Lyche Solheim, Anne
        ECOLOGICAL STATUS ASSESSMENT OF LAKES IN POLAND: INTEGRATION OF BIOLOGICAL INDICATORS AND EVALUATION OF UNCERTAINTY

12:00  SS15-10  Pahissa, José; de Hoyos, Caridad; Catalán, Jordi
        INTERCALIBRATION OF PHYTOPLANKTON-BASED ECOLOGICAL QUALITY EVALUATION METHODS DEVELOPED WITHIN THE MEDITERRANEAN GEOGRAPHICAL INTERCALIBRATION GROUP (GIG).

12:15  SS15-11  Phillips, Geoff; Solheim, Anne Lyche; Anderson, Tom; Skjelbred, Birger; Carvalho, Laurence; Mischke, Ute; Borics, Gabor; de Hoyos, Caridad; Moribato, Giuseppe; Moe, Jannicke
        ASSESSING THE STATUS OF PHYTOPLANKTON FOR THE WATER FRAMEWORK DIRECTIVE USING A COMMON METRIC APPLICABLE TO A VARIETY OF LAKE TYPES IN EUROPE

12:30  SS15-12  Pilotto, Francesca; Bazzanti, Marcello; Di Vito, Valentina; Frosali, Davide; Livretti, Francesco; Mastrantuono, Luciana; Solimini, Angelo
        GIUSEPPE EFFECTS OF EUTROPHICATION, MORPHOLOGICAL ALTERATION AND HABITAT CHARACTERISTICS ON THE SPATIAL DISTRIBUTION OF LITTORAL MACROINVERTEBRATE COMMUNITIES IN NATURAL MEDITERRANEAN LAKES

12:45  SS15-13  Poikane, Sandra; Brucet-Balmanas, Sandra; Birk, Sebastian; van de Bund, Wouter
        ECOLOGICAL ASSESSMENT OF LAKES IN EUROPE: LESSONS LEARNED AND CHALLENGES AHEAD

15:15  SS15-14  Prats, Jordi; Arbat, Marina; Sánchez-Juny, Martí; Armengol, Joan; Dolz, Josep
        LONGITUDINAL PATTERNS OF WATER TEMPERATURE ALTERATION AT THE DAILY TIMESCALE: THE EBRO RIVER CASE

15:30  SS15-15  Pujante, Ana Maria; Siscar, Roser; Torreblanca, Amparo; Martínez, Miguel Angel
Preliminary version of a fish integrated biomarker response index (IBR) for the assessment of the ecological health of rivers

Rigosi, Anna; Rueda, Francisco

Selective withdrawal short-term effects on phytoplankton community composition in a Mediterranean reservoir

Chairs: Moreno, E.; Poikane, S.; Brucet, S. and Van de Bund, W.

The response of benthic estuarine diatom assemblages to natural and anthropogenic stressors: Application of the existing diatom indices in a Mediterranean salt wedge estuary: The Ebro River estuary (Catalonia, NE Spain).

Serra, Sónia; Feio, Maria

Development of a digital taxonomic key for Portuguese macroinvertebrates implemented in the AQUAWEB online platform

Winfield, Ian; Emmrich, Matthias; Guillard, Jean

Selective use and standardisation of hydroacoustics for the assessment of fish populations in lakes and reservoirs

Brucet, Sandra; Péron, Stéphanie; Lauridsen, Thomas

Fish community structure in European lakes: The role of eutrophication, climate and hydromorphology alterations

Lopez-Roldan, Ramon; Gonzalez, Susana; Pelayo, Sergi; Piña, Benjamin; Cortina, Jose Luis

Integration of biological assay (zebrafish scale) and physico-chemical analysis for detection of water quality changes

Cañedo-Argüelles, Miguel; Perrée, Isabelle; Grantham, Ted; Rieradevall, Maria; Prat, Narcís

Response of stream macroinvertebrates to salinization: A mesocosm approach

Domisch, Sami; Jaehnig, Sonja; Haase, Peter

Species distribution modelling of stream invertebrates under climate change scenarios

09:45

08-3

Tibor, Erős; Schmera, Dénes; Schick, Rob

Network thinking in riverscape conservation – A graph-based approach

10:00

08-4

Martínez López, Javier; Carreño Fructuoso, Maria Francisca; Palazón Ferrando, Jose Antonio; Vidal-Abarca Gutierrez, María Rosario; Suárez Alonso, María Luisa; Gámez Cerezo, Rosa; Esteve Selma, Miguel Ángel

Study and classification of semiarid wetlands based on their plant communities and topography by means of lidar and spectral airborne remote sensors.

10:15

O8-5

Haggerty, Roy; González-Pinzon, Ricardo; Argerich, Alba; Martí, Eugènia; Christensen, Celene; Ribot, Miquel; Myrøld, David

Patterns of aerobic respiration in streams quantified using the smart tracer Resazurin

SS11 Multiple-scale perspectives on stream biogeochemistry

Location: Sala 1

Chairs: Thomas, S.A.; Martí, E.; Von Schiller, D.; Valett, M.; Brookshire, J. and Bernal, S.

Sponseller, Ryan; Temmerud, Johan; Bishop, Kevin; Laudon, Hjalmar

An assessment of regional patterns and drivers of dissolved inorganic and organic nitrogen (N) losses from boreal streams and rivers of Sweden

11:10

SS11-1

Graeber, Daniel; Zwirnmann, Elke; Gelbrecht, Jörg; Gucker, Björn; Kronvang, Brian

Improving water dissolved organic nitrogen measurement in freshwater systems with high inorganic nitrogen concentrations: A comparison of dialysis, anion-exchange pretreatment and size-exclusion chromatography

11:15

SS11-2

Brookshire, Jack; Sponseller, Ryan

Biogeochemical evolution in small watersheds and streams

11:30

SS11-3

Aquilera Becker, Rosana; Marcé, Rafael; Sabater, Sergi

Modeling in-stream nutrient processes at the catchment scale: Testing the efficiency loss hypothesis

11:45

SS11-4

Bernal, Susan; von Schiller, Daniel; Martí, Eugènia; Sabater, Francesc

Temporal variability of in-stream net uptake: Implications for inorganic nitrogen export from catchments.

12:00

SS11-5

Martí, Eugènia; von Schiller, Daniel; Bernal, Susan; Ribot, Miquel; Sabater, Francesc

Patterns of temporal variation in net and gross in-stream nutrient uptake

12:15

SS11-6

Gómez, Rosa; Arce, María Isabel; Sánchez-Montoya, María del Mar; Suárez, María Luisa; Vidal-Abarca, María del Rosario

12:30

SS11-7
THE EFFECT OF FLOW VARIABILITY ON THE SEDIMENT NUTRIENT DYNAMICS IN AN INTERMITTENT MEDITERRANEAN STREAM

12:45 Thomas, Steve; El-Sabaawi, Rana; MacNeill, Keeley; Heathery, Tom; Collins, Sarah; Pringle, Cathy; Flecker, Alex
AN ISOTOPE TRACER APPROACH TO ASSESSING TOP-DOWN AND BOTTOM-UP CONTROL OF NITROGEN CYCLING IN A NEOTROPICAL STREAM

Chairs: Thomas, S.A.; Marti, E.; Von Schiller, D.; Valett, M.; Brookshire, J. and Bernal, S.

15:15 Blesa, Alba; Martí, Eugènia; Ribot, Miquel; Peipoch, Marc
15N LONGITUDINAL PATTERNS IN BIOFILMS AS INTEGRATIVE SIGNAL OF N PROCESSING DOWNSTREAM OF WASTEWATER TREATMENT PLANT INPUTS

15:30 Pusch, Mario; Voss, Marlen; Solimini, Angelo
EFFECTS OF TERTIARY-TREATED WASTEWATER DISCHARGE ON ECOSYSTEM FUNCTIONING AND FOOD WEB STRUCTURE IN AN URBAN STREAM

15:45 Grimm, Nancy; Hale, Rebec1ca; Turnbull, Laura; Earl, Stevan; Childers, Dan
STORMWATER NUTRIENTS IN URBAN CATCHMENTS: ARE DESIGNED ECOSYSTEMS EFFICIENT IN NUTRIENT RETENTION?

O10 Trophic webs
Location: Sala 1
Chair: Woodward, G.

16:30 Kainz, Martin; Heissenberger, Martin; Koussoorolis, Apostolos-Manuel; Martinz, Mariella; Nussbaumer, Julia; Schultz, Sebastian; Watzke, Jörg
CAN DIETARY FATTY ACIDS PREDICT FATTY ACID PROFILES IN AQUATIC CONSUMERS? – SCRUTINIZING FATTY ACID RETENTION OF ORGANISMS AT VARIOUS TROPHIC LEVELS

16:45 Hette, Nicolas; Dumont, Bernard; Pont, Didier; Roussel, Jean-Marc; Oberdorff, Thierry; Belliard, Jérôme
INFLUENCE OF TEMPERATURE ON FOOD WEBS IN TEMPERATE STREAMS: A STABLE ISOTOPE STUDY

17:00 Larsen, Thomas; Ventura, Marc; Andersen, Nils; Catalan, Jordi; O’Brien, Diane
STABLE ISOTOPE FINGERPRINTING OF AMINO ACIDS IN AQUATIC ECOSYSTEMS

17:15 Martino, Aurelia; Syväranta, Jari; Cucherousset, Julien; Kopp, Dorothée; Crivelli, Alain; Cérégino, Régis; Santoul, Frédéric
FRESHWATER PREDATION AT ECOSYSTEM BOUNDARIES: A CASE STUDY OF THE INTRODUCED EUROPEAN CATFISH (SILURUS GLANIS) IN SOUTHWEST FRANCE.

17:30 Rodríguez-Lozano, Pablo; Verkaik, Irailma; Rieradevall, Maria; Prat, Narcís
STRONG TOP-DOWN EFFECTS OF BARBUS MERIDIONALIS IN A MEDITERRANEAN STREAM

17:45 Jones, Iwan; Lauridsen, Rasmus; Edwards, Francois; Montoya, Jose; Ibbotson, Anton; Woodward, Guy; Hildrew, Alan
LARGE SCALE MANIPULATIONS OF A QUANTIFIED FOOD WEB

POSTER SESSION

O2 Biological and Ecosystem Conservation
Chair: Ordeix, Marc

P89 Babanazarova, Olga; Sidelev, Sergey; Shisheleva, Svetlana
WINTER PHYTOPLANKTON IN HYPERTROPHIC LAKE NERO WITH “PLANKTOTHRICHETUM” TYPE OF COMMUNITY FROM EARLY SUMMER TO LATE AUTUMN (LAKE NERO, RUSSIA)

P90 Costa, Maria; Saro, Liliana; Monaghan, Kieran; Monteiro, Marta; Amadeu, Soares
A COMPARATIVE STUDY OF THE EFFECTS OF EUCALYPT, PINE AND BROADLEAF FORESTS ON THE FISH COMMUNITIES OF PORTUGUESE UPLAND STREAMS

P91 Gilbert, Rus, Juan Diego; de Vicente, Inmaculada; Parra, Gemma; Guerrero, Francisco
BIOGEOGRAPHIC TOOLS FOR PROPOSING CONSERVATION AREAS FOR ZOOPLANKTON DIVERSITY: THE CASE OF THE ALTO GUADALquivir REGION

P92 Kängäs, Petrina; Niemistö, Juha; Horppila, Jukka; Salonen, Kalevi
EFFECTS OF AERATION ON LAKE’S THERMAL STRATIFICATION AND STABILITY IN CHANGING ENVIRONMENTAL CONDITIONS

P94 Pascual Toca, Marta; Esteban Simón-Talero, César; Cotallo de Cáceres, Miguel Ángel; Moreno Rendón, Paloma; Pula Moreno, Héctor Julián; Valverde, Lucía
STUDY OF BARRIERS AND SPAWNING AREAS FOR RHEOPHILOUS SPECIES FROM RESERVOIRS IN EXTREMADURA REGION (SOUTHWESTERN SPAIN)

P95 Saro, Liliana; Costa, Maria; Medeiros, Joana; Monteiro, Marta; Monaghan, Kieran; Soares, Amadeu
A COMPARATIVE STUDY OF THE EFFECTS OF EUCALYPT, PINE AND BROADLEAF FORESTS ON AMPHIBIAN COMMUNITIES ASSOCIATED WITH PORTUGUESE UPLAND STREAMS

P96 Servia, María J.; Vieira-Lanero, Rufino; Barca-Bravo, Sandra; Couto-Mendoza, María T.; Morquecho, Carlos; Rivas-Rodríguez, Sheila; Sánchez-Hernández, Javier; Silva-Bautista, Sergio; Cobo, Fernando
TRANSLOCATED SPECIES IN THE RIVER MIÑO: PRESENT STATUS OF GOBIO LOZANOI AND COBITIS PALUDICA (PISCES) IN THE SPANISH TRIBUTARIES OF THE BOUNDARY SECTION WITH PORTUGAL.
P97
Toja, Julia; León, David; Peñalver, Patricio; Casas, Jesús; Gallego, Irene; Juan, Melchor; Fuentes-Rodríguez, Francisca; Pérez, Carmen; Sánchez, Pedro
FARM PONDS IN ANDALUSIA (SOUTH OF SPAIN): OPPORTUNITIES FOR SPECIES, LANDSCAPE AND PEOPLE

P98
Zapata, Angela; Rivera Rondón, Carlos A.
ASSESSMENT OF ALTERNATIVES FOR CONTROLLING CYANOBACTERIAL BLOOMS IN A TROPICAL URBAN WETLAND

P99
Conde-Álvarez, Rafael M.; Bañares España, Elena; Nieto-Caldera, José María; Flores-Moya, Antonio; Figueroa, Félix L.
PHOTOSYNTHETIC PLASTICITY OF MACROPHYTES GROWING IN SHALLOW LAKE OF FUENTE DE PIEDRA TO ACCLIMATE TO INCREASING IRRADIANCE DURING AN ANNUAL CYCLE

P100
Fabón Ancheletegui, Gabriel; Monforte, Laura; Tomás, Rafael; Núñez-Olivera, Encarnación; Martínez-Abaigar, Javier
QUICK PHYSIOLOGICAL CHANGES IN RESPONSE TO RADIATION CONDITIONS AND UV-B ENHANCEMENT IN AN AQUATIC LIVERWORT

P101
Kobak, Jaroslav; Poznanska, Malgorzata
PONTO-CASPIAN GAMMARIDS INDUCE BEHAVIOURAL CHANGES IN ZEBRA MUSSEL DREISENA POLYMORPHA

P102
Laviale, Martin; Morin, Soizic
CONTRASTED SHORT TERM RECOVERY OF PERiphyTON PHOTOSYNTHESIS AFTER PULSE EXPOSITION TO THE SIMILARLY ACTING HERBICIDES: THE PHOTOSYSTEM II INHIBITORS ATRAZINE AND ISOPROTURON

P103
Peik, Franja; Simcic, Tatjana; Brancelj, Anton
THERMAL SENSITIVITY OF METABOLISM AND GROWTH IN LAKE AND POND SPECIES OF DAPHNIA

P104
Akaalán, Reyhan; Koker, Latife; Sozer, Basak; Oguz, Basak; Albay, Meric
N/P RATIO OR ALLELOPATHY IS EFFECTING Microcystin PRODUCTION OF Microcystis aeruginosa

P105
Simcic, Tatjana; Germ, Mateja
CLIMATE WARMING AND RESPIRATORY POTENTIAL OF AQUATIC ORGANISMS FROM AN OLIGOTROPHIC LAKE

P106
Vitová, Milada; Rucki, Marián; Zachleder, Vilém
EFFECT OF LANTHANUM AND NEODYMIUM ON THE GROWTH, CHLOROPHYLL CONTENT AND PHOTOSYNTHETIC RATE OF THE GREEN ALGA SCENEDESMUS QUADRICAUDA

O5 Ecosystem processes
Chair: Elliot, Alex

P107
LeJeune, Anne-Hélène; Pinel-Alloul, Bernadette; Bourdol, Floriane; Aldamman, Lama; Peron, Tania; Amoyt, Marc
HOW MIGRATORY BEHAVIOR AFFECTS BIOMAGNIFICATION OF METHYL-MERCURY BY THE PHANTOM MIDGE CHAOBORUS SP.

P108
Arroita, Maite; Aristi, Ibon; Flores, Lorea; Díez, Joseffra; Elosegi, Arturo
THE USE OF WOOD STICKS TO ASSESS RIVER ECOSYSTEM FUNCTIONING: COMPARISON WITH LEAF BREAKDOWN RATES

P109
De Castro-Catalá, Núria; Mora-Gómez, Juanita; Muñoz, Isabel; Romani, Anna M.
LINKS BETWEEN CONSUMER AND RESOURCE QUALITY: A LEAF LITTER DECOMPOSITION EXPERIMENT

P110
Elisaholi, Mohamed; Kelly-Quinn, Mary
THE EFFECT OF NUTRIENT CONCENTRATIONS AND RATIOS ON PERiphyTON BIOMASS

P112
Fuchsberger, Jennifer; Weigelhofer, Gabriele; Teufl, Bernadette; Welti, Nina; Hein, Thomas
PO4-UPTAKE AND RELEASE IN AGRICULTURAL HEADWATER STREAMS - IMPACTS ON STREAM RESTORATION

P113
González, Ana Rosa; Butturini, Andrea
CHANGES IN MOLECULAR SIZE DISTRIBUTION IN DISSOLVED ORGANIC MATTER IN A MEDITERRANEAN RIVER: STORM FLOW VS. BASE FLOW

P114
Illyová, Marta
CLADOCERA AND COPEPODA SPECIES DIVERSITY PATTERNS ACROSS CONNECTIVITY GRADIENT IN THE DANUBE FLOODPLAIN AREA (SLOVAK-HUNGARIAN STRETCH).

P115
Mas-Martí, Esther; Sanpera-Calbet, Isis; Muñoz, Isabel
EFFECTS OF FLOW INTERMITTENCY ON CONSUMERS’ FITNESS AND FUNCTIONING: A BOTTOM-UP EFFECT THROUGH CHANGES IN RESOURCES’ QUALITY.

P116
Noqueira, Marcos; Perbiche-Neves, Gilmar; Naliato, Danilo; Bastianiti, Jose Roberto; Casanova, Silvia
THE RIVER THE LA PLATA BASIN (BRAZIL, BOLIVIA, ARGENTINA, PARAGUAY AND URUGUAY): LATITUDINAL LIMNOLOGICAL PATTERNS AND EFFECTS OF LARGE RESERVOIRS CONSTRUCTION

P117
Pereira, Ana; Geraldes, Paolo; Lima-Fernandes, Eva; Fernandes, Isabel; Cássio, Fernanda; Pascoal, Cláudia
EFFECTS OF NUTRIENT ENRICHMENT AND RIPARIAN VEGETATION ON LITTER DECOMPOSITION IN STREAMS
THURSDAY, 30 JUNE 2011

P118 Sala, Marc; Butturini, Andrea; Camarero, Lluís; Boix, Marta
QUANTITATIVE AND QUALITATIVE DISSOLVED ORGANIC MATTER (DOM) CHANGES DURING SNOWMELT AND STORMFLOWS IN A HIGH MOUNTAIN CATCHMENT

P119 Seriñá, Vanesa; Chappuis, Eglantine; Ballesteros, Enric; Martí, Eugènia; Gacia, Esperança
PATTERNS OF VARIABILITY OF D13C AND D15N IN FRESHWATER AQUATIC MACROPHYTES FROM CATALONIA (NE SPAIN)

P119

P120 Teufl, Bernadette; Weigelhofer, Gabriele; Fuchsberger, Jennifer; Welti, Nina; Hein, Thomas
EFFECTS OF STREAM DEGRADATION ON THE SEDIMENT QUALITY OF AGRICULTURAL LOW-ORDER STREAMS

O7 Biodiversity
Chair: De Wever, Aaike

P122 Alonso, Alvaro; Castro-Díez, Pilar
THE EXOTIC AQUATIC MUD SNAIL POTAMOPYRGUS ANTIPODARUM (HYDROBIDAE, MOLLUSCA): STATE OF THE ART OF A WORLDWIDE INVASION

P124 Benetö, Csaba; Szivák, Ildikó; Boda, Réka; Csabai, Zoltán
AQUATIC MACROINVERTEBRATE ASSEMBLAGE VARIATION AMONG SEASONS, SITES AND MICROHABITATS

P126 Csabai, Zoltán; Boda, Pal; Szivák, Ildikó; Kalman, Zoltán
DISPERSAL ACTIVITY OF AQUATIC COLEOPTERA AND HETEROPTERA SPECIES: BODY SIZE AND SPECIES DEPENDENT RESPONSES FOR CHANGING ENVIRONMENTAL FACTORS?

P127 Derka, Tomáš; Fedor, Peter
HYDROLUTOS, AN EXTRAORDINARY AQUATIC ORTHOPTERAN GENUS (ORTHOPTERA: ANOSTOSTOMATIDAE: LUTOSINI) FROM GUAYANA HIGHLANDS

P128 García Fernández, Maria Eugenia; Aboal, Marina
HIGH DIVERSITY AREAS OF CONTINENTAL ALGAE: THE CASE OF MURCIA, SOUTH-EAST OF SPAIN

P129 Guarreschi, Simone; Gutiérrez-Cánovas, Cayetano; Picazo, Félix; Sánchez-Fernández, David; Abellán, Pedro; Velasco García, Josefa; Millán, Andrés
MACROINVERTEBRATE BIODIVERSITY IN SPAIN’S MOUNTAIN NATIONAL PARKS: PATTERNS AND SURROGATES

P130 Mariani, Maria Antonietta; Buscarinu, Paola; Padedda, Bachisio Mario; Sechi, Nicola; Virdis, Tomasa; Lugliè, Antonella
KNOWLEDGE, POSSIBILITY OF PREDICTION AND MANAGEMENT OF POTENTIALLY TOXIC CYANOBACTERIA BLOOMS IN THE SARDINIAN MAN- MADE LAKES (WESTERN MEDITERRANEAN).

P131 Marrone, Federico; Lo Brutto, Sabrina; Arculeo, Marco
FIRST MOLECULAR EVIDENCES FOR THE SYNONYMY OF FERRISSIA WAUTIERI AND THE CRYPTIC INVADER FERRISSIA FRAGILIS (MOLLUSCA: PULMONATA: ANCYLIDAE)

P132 Moreno, Jose Luis; Aboal, Marina; Monteaquado, Laura
NEW RECORDS OF RARE MACROALGAE IN SOUTH-CENTRAL SPAIN

P134 Rivas-Rodríguez, Sheila; Vieira-Lanero, Ruffino; Servia, Maria J.; Barca-Bravo, Sandra; Gómez-Sande, Pablo; Lago-Meijide, Lorena; Morquecho, Carlos; Nachón, David; Cobo, Fernando
INVASIVE TRENDS OF FRESHWATER SPECIES IN A TRANSBOUNDARY RIVER: THE CASE OF THE MIÑO RIVER (SPAIN-PORTUGAL).

P135 Sanuy Castells, Delfí; Amat Orriols, Félix; Palau Ibars, Antoni
DISTRIBUTION AND HABITAT CHARACTERISTICS OF LACUSTINE POPULATION OF THE PYRENEAN NEWT (CALOTRITON ASPER)

P136 Tomás, Pedro; Moreno, Jose Luis; Aboal, Marina; Oscoz, Javier; Durán, Concha; Navarro, Patricia
DISTRIBUTION AND ECOLOGY OF SOME SPECIES OF RHODOPHYTA IN THE EBRO RIVER BASIN

O8 Novel techniques in freshwater ecology
Chair: Marcé, Rafael

P137 Angélibert, Sandrine; Faessler, Sarah; Gattolliat, Jean-Luc; Gessner, Mark O.; Lazeyras, Michel; Panisier, Sébastien; Sartori, Michel; Stucki, Pascal; Oertli, Beat
EKEY – ELECTRONIC MULTIPLE ENTRY KEY: A NEW TOOL FOR ENVIRONMENTAL MANAGERS TO IDENTIFY AQUATIC INVERTEBRATES.

P138 Ejarque, Elisabet; Butturini, Andrea
CHARACTERISING THE DIVERSITY OF FLUORESCENCE DOM COMPONENTS IN HETEROGENEOUS DATA SETS: USE OF CHROMATOGRAPHIC PROCEDURES FOR EEM PEAK RECOGNITION AND DECOMPOSITION.

P139 Norf, Helge; Borchardt, Dietrich; Weitere, Markus
MOBICOS – A NEW SCIENTIFIC PLATFORM FOR EXPERIMENTAL WATER RESEARCH

P140 Picazo, Antonio; Rochera, Carlos; Vicente, Eduardo; Camacho, Antonio
CYTOMETRIC IDENTIFICATION AND DISCRIMINATION
OF PHOTOSYNTHETIC ORGANISMS IN THE VERTICAL PROFILE OF A HIGHLY STRATIFIED MEROMICTIC LAKE. MONITORING OF SEASONAL COMMUNITY DYNAMICS.

**O10 Trophic webs**
Chair: Ventura, Marc

**P141**
Brouard, Olivier; LE JEUNE, Anne-Hélène; LEROY, Céline; CEREGHINO, Régis; ROUX, Olivier; PELOZUELO, Laurent; DEJEAN, Alain; CORBARA, Bruno; Jean-François CARRIAS, Jean-François INTEGRATING ALGAE AND OTHER MICROBIAL COMMUNITIES INTO THE DETRITUS-BASED FOOD WEB IN TANK-BROMELIADS

**P142**
Buñay, Danilo; Miró, Alexandre; Bonastre, Marta; Ventura, Marc ROLE OF GAMMARUS LACUSTRIS (CRUSTacea : AMPHIPODA) ON PLANKTON COMMUNITY STRUCTURE IN AN ALPINE SHALLOW LAKE (LLARG D’ENGORS, EASTERN PYRENEES)

**P143**
Mathieu, Francine; Christian, Müllegger; Andreas, Weilhartner; Jörg, Watzke; Martin, Kainz HOW DO YOUNG, ARTIFICIAL LAKES AFFECT FOOD QUALITY AND FATTY ACID COMPOSITION IN ZOOPLANKTON?

**P144**
Muneret, Lucile; Toury, Julie; Reynaud, Dominique; Mérigoux, Sylvie TROPICHAL PATTERNS OF BENTHIC INVERTEBRATES ALONG TROPICAL ISLAND RIVERS (REUNION, INDIAN OCEAN)

**SS1 When rivers run dry: temporary streams as coupled aquatic-terrestrial ecosystems**

**P145**
Arce, María Isabel; Gómez, Rosa; Sánchez-Montoya, María del Mar; Vidal-Abacar, María del Rosario; Suárez, María Luisa NITRIFICATION AND DENITRIFICATION RATES IN AN INTERMITTENT MEDITERRANEAN STREAM: DIFFERENCES BETWEEN A PERENNIAL AND A TEMPORARY REACH

**P146**
Catalán, Núria; Alomar, Carmen; Cañas, Lídia; Obrador, Biel; Pretus, Joan L. DISSOLVED ORGANIC MATTER IN TEMPORARY STREAMS: SPATIOTEMPORAL VARIABILITY IN A MEDITERRANEAN CATCHMENT

**P147**
Jesus, Teresa EVALUATION OF THE EFFECT OF EXTREME EVENTS (DROUGHT AND / OR FLOOD) IN THE STRUCTURE OF BENTHIC MACROINVERTEBRATE COMMUNITY OF THE POÇO NEGRO CREEK (PORTUGAL)

**P148**
Sánchez-Montoya, María del Mar; González, Carmen; García-Roger, Eduardo Moisés; Suárez, María Luisa; Vidal-Abacar, María Rosario; Prat, Narcís; Rieradevall, Maria; Gómez, Rosa EFFECTS OF HYDROLOGICAL DROUGHT ON BOTH HABITAT AVAILABILITY AND MACROINVERTEBRATE COMMUNITY IN PERMANENT AND TEMPORARY MEDITERRANEAN STREAMS IN THE SOUTHEAST OF SPAIN.

**SS2 Temporary wetland ecology**

**P149**
Alfonso, Giuseppe; Ernandes, Paola; Zuccarello, Vincenzo; Belmonte, Genuario TEMPORARY WATERS IN APULIA (SOUTH-EASTERN ITALY): BIODIVERSITY AND ENVIRONMENTAL FEATURES

**P150**
Boix, Dani; Caria, Maria Carmela; Gascón, Stéphanie; Mariani, Maria Antonietta; Sala, Jordi; Bagella, Simonetta BIODIVERSITY IN MEDITERRANEAN TEMPORARY PONDS: CONTRASTING SPACE/TIME PATTERNS AMONG MULTIPLE ORGANISM-GROUPS

**P151**
Caria, Maria Carmela; Bagella, Simonetta DIVERSITY OF PLANT ASSEMBLAGES WITH ISOETES HISTRIX IN MEDITERRANEAN TEMPORARY PONDS: IMPLICATION FOR CONSERVATION.

**P152**
Dolos, Klara; Rudner, Michael SEASONAL VARIABILITY AND PHENOLOGY OF DWARF RUSH COMMUNITIES IN SOUTHERN SPAIN

**P153**
Fernández-Rodríguez, M. J.; Jiménez Rodríguez, Antonia; Hidalgo-Lara, C.; Serrano, L. CHARACTERIZATION OF HAPTOHYTE BLOOMS IN AQUACULTURE PONDS BY THE ESTUARY OF THE GUADALQUIVIR RIVER (SW SPAIN)

**P155**
Linares, Roquejo; Menció, Anna; Rodríguez-Florit, Agustí; Roqué, Carles; Zarroca, Mario HYDROGEOLOGICAL FEATURES OF WETLANDS DEVELOPED OVER PEDIMENTS IN THE ALBERA RANGE (NE SPAIN)

**P156**
Miracle, Maria Rosa; Sahuquillo, Maria; Morata, Sara; Eduardo Vicente NUTRIENTS AND PRIMARY PRODUCERS IN MEDITERRANEAN PONDS

**SS4 Freshwater ecosystems as fundamental components in regional carbon budgets: a cross-system perspective**

**P157**
Español, Cecilia; Gallardo, Belinda; Pino, Mª Rosa; Comín, Francisco A. IS AQUATIC METABOLISM HIGHER IN NATURAL THAN IN RESTORED WETLANDS? A CASE OF STUDY IN A SEMI-ARID FLOODPLAIN.

**SS5 Impacts of global change on higher levels of organisation: communities, food webs, ecosystems**

**P158**
Herrera, Guillemo; Durán, Cristina; Medina-Sánchez,
Juan Manuel; Villar-Argáiz, Manuel; Rojo, Carmen; Álvarez-Cobelas, Miguel; Carrillo, Presentación
CONTRASTING RESPONSES OF NANO AND PICOPLANKTON COMMUNITIES TO UVR AND P- INPUTS IN A MID-ALTITUDE LAGOONS OF MEDITERRANEAN REGION.

SS10 Patterns and Processes in Riverine Landscapes: A special session in honour of Professor Björn Malmqvist

P159
Cid Puey, Nuria; Andreu, Rosa; Ibañez, Carles; Collado, Rut; Rieradevall, Maria; Prat, Narcís
NICHE SEPARATION AND BIOLOGICAL TRAIT RESPONSE TO HYDRAULIC STRESS OF BENTHIC MACROINVERTEBRATES IN A LARGE REGULATED RIVER

P160
Tekwani Movellan, Nerea; Torrós, Elisabet; Urrea - Clos, Gemma; Majdi, Nabil; Buffan-Dubau, Evelyne; Sabater, Sergi; Tackx, Micky
CONTRIBUTION OF EPILITHIC DIATOMS TO BENTHIC-PELAGIC COUPLING IN THE GARONNE RIVER (FRANCE)

P161
Tornes, Elisabet; Acuña, Vicenc; Sabater, Sergi
EFFECT OF FLOOD EVENTS AT DIFFERENT SPATIAL SCALES ON DIATOM COMMUNITIES IN A SEMIARID RIVER NETWORK

SS11 Multiple-scale perspectives on stream biogeochemistry

P162
Banea, O; Boix Canadel, M; Costea Llabrés, G; Fasciotti, A; Llorens Marès, T; Morán López, T; Nadal Sala, D; Olivet Vila, J; Requena Pelegrina, R; Rodríguez Blanco, S; Rovira Capdevila, M; Sala Faig, M; Seriñá Esteban, V; Butturini, A
SOLUTE TRANSPORT THROUGH A RIVER NETWORK. DO STREAM SYSTEMS REALLY A GOOD JOB?

P163
Boy Roura, Mercè; Menció Domingo, Anna; Mas-Pla, Josep
NITRATE TRENDS IN SPRINGS AS A FACTOR INFLUENCING SURFACE WATER QUALITY

P164
López-Sánchez, David; Boix, Dani; Folch, Albert; Rodríguez-Florit, Agustí; Mas-Pla, Josep; Brusi, David; Menció, Anna
ANALYZING THE NITROGEN CYCLE IN A RIVER-AQUIFER CONTEXT. THE ONYAR RIVER CASE (NE SPAIN).

P165
Lupon, Anna; Sabater, Francesc
RELATING NUTRIENT UPTAKE WITH TRANSIENT STORAGE ZONES: EVIDENCE FROM IN-CHANNEL OBSTRUCTERS MANIPULATION

SS13 Assessing the impacts of global change and anthropogenic pressures on freshwater ecosystems, a role for long term-ecological research.

P166
Farres, Roser; Felip, Marisol; Camarero, Lluis; Catalan, Jordi
MULTIANNUAL CHANGES OF LAKE MICROPLANKTON ASSEMBLAGES IN A HIGH MOUNTAIN LAKE: LINKING CLIMATE VARIABILITY AND FLUCTUATIONS IN COMMUNITY COMPOSITION.

P167
Kokorite, Ilga; Klavins, Maris; Jankivcika, Maruta; Konosonoka, Inga
EVALUATION OF HISTORICAL ANTHROPOGENIC PRESSURE ON LAKE ECOSYSTEMS BY USING SEDIMENT CORE ANALYSIS

P168
Kreneva, Sofia; Kreneva, Katerina
RECENT TRENDS IN DIAGNOSTICS OF THE GREAT RUSSIAN LAKES

P169
Polasek, Marek; Zahradkova, Svetlana; Spacek, Jan; Bojkova, Jindrich
MAYFLIES OF THE FAMILY HEPTAGENIIDAE (INSECTA, EPHEMEROPTERA) OF THE CZECH REPUBLIC: RARE, PROTECTED AND PROBLEMATIC SPECIES

P170
Varadinova, Emilia; Soufi, Rabia; Kerakova, Maria; Vidinova, Yanka; Tyufekchieva, Violeta; Uzunov, Yordan
LONG TERM CHANGES IN MACROINVERTEBRATE SPECIES COMPOSITION AND ACTUAL ECOCLOGICAL STATE ASSESSMENT OF BULGARIAN RIVER REFERENT SITES

SS14 Freshwater mollusks. Biodiversity and ecological threats and Conservation strategies.

P172
Barata, Carlos; Faria, Melissa; Blázquez, Mercedes; Fernández, Maria; Navarro, Ana; López, Miguel Angel; Lacorte, Silvia; Piña, Benjamin
CONTAMINANT AND PHYSIOLOGICAL DIFFERENCES OF SPANISH ZEBRA MUSSEL (DREISSENA POLYMORPHA) POPULATIONS.

P173
Palau, Antoni; Navarro, Enrique; Colomer, M.Agés; Sanuy, Delfí; Marin, Nines; Miguel, Lluis
MODELING LARVAL DYNAMICS IN RIBARROJA RESERVOIR: AN ENVIRONMENTALLY-FRIENDLY TOOL FOR CONTROLLINGZEBRASMUSSEL (DREISSENA POLYMORPHA) COLONIZATION OF AQUATIC INFRASTRUCTURES

P174
Pou-Rovira, Quim; Llopart, Xavier; Feo, Carles; Campos, Miquel; Boix, Dani; Carabús, Mª Pilar; Ramos, Santi; Araujo, Rafael
PRESENT SITUATION OF UNIONIDS IN THE LOWER TER

SS15 Ecological assessment of lakes, rivers and reservoirs: water quality management

P175
Cortés, Alicia; Rueda, Francisco José; de Vicente, Inmaculada; Escobar, María Ángeles; García-Jurado, Fátima; Hoyer, Andrea; Fleenor, William; Lucena,
Juan; Moreno-Ostos, Enrique
RIVER INFLOW MIXING IN A STRATIFIED MEDITERRANEAN RESERVOIR (BÉZNAR, SPAIN)

P176
Ozkahya, Pinar; Tarkan, Ahmet Nuri; Onsoy, Bahadir; Kaymaz, Seyma Merve; Sevingel, Nail
AN INVESTIGATION ON THE SPRINGS OF GOKOVA BAY (TURKEY, SOUTHERN AEGEAN)

P178
Ramón, Cintia; Rueda, Francisco; Acosta, Mario
MODELLING TRANSPORT AND MIXING PROCESSES AT THE CONFLUENCE OF TWO RIVERS ENTERING A MEANDERING RESERVOIR

P179
Rask, Martti; Olin, Mikko; Ruuhijärvi, Jukka
IMPROVEMENTS IN THE FINNISH FISH-BASED LAKE CLASSIFICATION METHOD

P180
Rîsnoveanu, Geta; Nistorescu, Marius; Preda, Elena; Popescu, Cristina; Vădineanu, Anghelubă
LITTER DECOMPOSITION EXPERIMENTS IN AQUATIC SYSTEMS: DOES THE SHAPE OF LEAF LITTER BAGS MATTERS?

P181
Vicente, Eduardo; Soria, Juan M.; Soria, Xavier; Miracle, Maria R.; Rodríguez, Maria J.; Durán, Concha
NEW TRENDS IN THE USE OF METHODOLOGY TO ESTABLISH THE EBRO WATER BODIES ECOLOGICAL QUALITY ACCORDING TO THE EUROPEAN WATER FRAMEWORK DIRECTIVE.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:45</td>
<td>Closing</td>
<td>Sala Simionescu</td>
</tr>
<tr>
<td>12:30</td>
<td>SSI 4. Urema</td>
<td>SSI 4. Urema</td>
</tr>
<tr>
<td>12:15</td>
<td>SSI 4. Roland</td>
<td>SSI 4. Roland</td>
</tr>
<tr>
<td>12:00</td>
<td>SSI 4. Obrador</td>
<td>SSI 4. Obrador</td>
</tr>
<tr>
<td>11:45</td>
<td>SSI 4. del Giorgio</td>
<td>SSI 4. del Giorgio</td>
</tr>
<tr>
<td>11:15</td>
<td>SSI 4. Sniger</td>
<td>SSI 4. Sniger</td>
</tr>
<tr>
<td>11:00</td>
<td>SSI 4. Monde</td>
<td>SSI 4. Monde</td>
</tr>
<tr>
<td>10:30</td>
<td>SSI 4. Zabel</td>
<td>SSI 4. Zabel</td>
</tr>
<tr>
<td>10:15</td>
<td>SSI 4. Sanchez-Fontemilla</td>
<td>SSI 4. Sanchez-Fontemilla</td>
</tr>
<tr>
<td>10:00</td>
<td>SSI 4. Pineda</td>
<td>SSI 4. Pineda</td>
</tr>
<tr>
<td>09:45</td>
<td>SSI 4. Wagenerhof</td>
<td>SSI 4. Wagenerhof</td>
</tr>
<tr>
<td>09:30</td>
<td>SSI 4. Abela</td>
<td>SSI 4. Abela</td>
</tr>
<tr>
<td>09:00</td>
<td>SSI 4. Tomlin</td>
<td>SSI 4. Tomlin</td>
</tr>
<tr>
<td>08:45</td>
<td>SSI 4. Sapper</td>
<td>SSI 4. Sapper</td>
</tr>
<tr>
<td>08:30</td>
<td>SSI 3. Sniper</td>
<td>SSI 3. Sniper</td>
</tr>
<tr>
<td>08:00</td>
<td>SSI 3. Timealer</td>
<td>SSI 3. Timealer</td>
</tr>
<tr>
<td></td>
<td>SSI 3. Timoner</td>
<td>SSI 3. Timoner</td>
</tr>
<tr>
<td>06:45</td>
<td>SSI 3. Del Giorgio</td>
<td>SSI 3. Del Giorgio</td>
</tr>
<tr>
<td>06:30</td>
<td>SSI 3. Wallin</td>
<td>SSI 3. Wallin</td>
</tr>
<tr>
<td>06:00</td>
<td>SSI 3. Mathonel</td>
<td>SSI 3. Mathonel</td>
</tr>
<tr>
<td></td>
<td>SSI 3. Tomlin</td>
<td>SSI 3. Tomlin</td>
</tr>
<tr>
<td>05:45</td>
<td>SSI 3. Pineda</td>
<td>SSI 3. Pineda</td>
</tr>
<tr>
<td>05:30</td>
<td>SSI 3. Wagenerhof</td>
<td>SSI 3. Wagenerhof</td>
</tr>
<tr>
<td>05:15</td>
<td>SSI 3. Abela</td>
<td>SSI 3. Abela</td>
</tr>
<tr>
<td>05:00</td>
<td>SSI 3. Sanchez-Fontemilla</td>
<td>SSI 3. Sanchez-Fontemilla</td>
</tr>
<tr>
<td></td>
<td>SSI 3. Pineda</td>
<td>SSI 3. Pineda</td>
</tr>
<tr>
<td>04:45</td>
<td>SSI 3. Sapper</td>
<td>SSI 3. Sapper</td>
</tr>
<tr>
<td>04:30</td>
<td>SSI 3. Mathonel</td>
<td>SSI 3. Mathonel</td>
</tr>
<tr>
<td>04:15</td>
<td>SSI 3. Timoner</td>
<td>SSI 3. Timoner</td>
</tr>
<tr>
<td>04:00</td>
<td>SSI 3. Del Giorgio</td>
<td>SSI 3. Del Giorgio</td>
</tr>
<tr>
<td></td>
<td>SSI 3. Wallin</td>
<td>SSI 3. Wallin</td>
</tr>
<tr>
<td>03:45</td>
<td>SSI 3. Sapper</td>
<td>SSI 3. Sapper</td>
</tr>
<tr>
<td>03:30</td>
<td>SSI 3. Mathonel</td>
<td>SSI 3. Mathonel</td>
</tr>
<tr>
<td>03:15</td>
<td>SSI 3. Tomlin</td>
<td>SSI 3. Tomlin</td>
</tr>
<tr>
<td>03:00</td>
<td>SSI 3. Pineda</td>
<td>SSI 3. Pineda</td>
</tr>
<tr>
<td>02:45</td>
<td>SSI 3. Wagenerhof</td>
<td>SSI 3. Wagenerhof</td>
</tr>
<tr>
<td>02:30</td>
<td>SSI 3. Abela</td>
<td>SSI 3. Abela</td>
</tr>
<tr>
<td>02:15</td>
<td>SSI 3. Sanchez-Fontemilla</td>
<td>SSI 3. Sanchez-Fontemilla</td>
</tr>
<tr>
<td>02:00</td>
<td>SSI 3. Pineda</td>
<td>SSI 3. Pineda</td>
</tr>
<tr>
<td>01:45</td>
<td>SSI 3. Sapper</td>
<td>SSI 3. Sapper</td>
</tr>
<tr>
<td>01:30</td>
<td>SSI 3. Mathonel</td>
<td>SSI 3. Mathonel</td>
</tr>
<tr>
<td>01:15</td>
<td>SSI 3. Tomlin</td>
<td>SSI 3. Tomlin</td>
</tr>
<tr>
<td>01:00</td>
<td>SSI 3. Del Giorgio</td>
<td>SSI 3. Del Giorgio</td>
</tr>
<tr>
<td></td>
<td>SSI 3. Wallin</td>
<td>SSI 3. Wallin</td>
</tr>
<tr>
<td>00:45</td>
<td>SSI 3. Sapper</td>
<td>SSI 3. Sapper</td>
</tr>
<tr>
<td>00:30</td>
<td>SSI 3. Mathonel</td>
<td>SSI 3. Mathonel</td>
</tr>
<tr>
<td>00:15</td>
<td>SSI 3. Tomlin</td>
<td>SSI 3. Tomlin</td>
</tr>
<tr>
<td>00:00</td>
<td>SSI 3. Del Giorgio</td>
<td>SSI 3. Del Giorgio</td>
</tr>
</tbody>
</table>

MORNING BREAK

10:30 - 11:00
FRIDAY, 30 JUNE 2011

SS4 Freshwater ecosystems as fundamental components in regional carbon budgets: a cross-system perspective
Location: Sala Simfònica
Chairs: Del Giorgio, P.; Sobek, S.; Obrador, B. and Marce, R.

09:15 Singer, Gabriel; Hengsberger, Sabrina; Besemer, Katharina; Battin, Tom; Dittmar, Thorsten
STREAM NETWORK-SCALE PATTERNS OF DOC-PROCESSING AND CARBON DIOXIDE EVASION

09:30 Wallin, Marcus; Grabs, Tomas; Buffam, Ishi;
EVIASION OF CO₂ FROM STREAMS – A MAJOR COMPONENT OF THE CARBON EXPORT THROUGH THE AQUATIC CONQUIT IN A BOREAL CATCHMENT

09:45 Del Giorgio, Paul; St Pierre, Annick; Lapierre, Jean-François; Vachon, Dominic
MAJOR ROLE OF CARBON DIOXIDE AND METHANE EMISSIONS FROM BEAVER DAMS AT THE LANDSCAPE LEVEL IN THE BOREAL REGION OF QUEBEC

10:00 Obrador, Biel; Marcé, Rafael; Riera, Joan
ALKALINITY AND THE INORGANIC CARBON EQUILIBRIUM SHAPE THE METABOLISM-CO₂ SATURATION RELATIONSHIP IN LENTIC FRESHWATERS

10:15 Roland, Fabio; Barros, Nathan; Cole, Jonathan; Huszar, Vera
ECOSYSTEM ASSESSMENT OF CARBON IN TROPICAL HYDROELECTRIC RESERVOIRS

Chairs: Del Giorgio, P.; Sobek, S.; Obrador, B. and Marce, R.

11:00 Lopez-Laseras, Pilar; Marce, Rafael; Armengol, Joan
NET HETEROTROPHY AND CO₂ EVASION FROM A PRODUCTIVE CALCAREOUS RESERVOIR

11:15 Scott, Daniel; Anderson, John; Ryves, David
CARBON FIXATION, FLUX AND BURIAL EFFICIENCY IN TWO CONTRASTING EUTROPHIC LAKES IN THE UK (ROSTHERNE MERE AND TATTON MERE).

11:30 Rasilo, Terhi; Ojala, Anne; Huotari, Jussi; Pumpinen, Jukka
DYNAMICS OF CO₂ CONCENTRATION IN A SOIL-LAKE-BROOK CONTINUUM OF A BOREAL FORESTED CATCHMENT

11:45 Vidal, Luciana; Roland, Fabio; Abril, Gwenaël; Artigas, Felipe
BACTERIAL METABOLISM IN THE AMAZON RIVER SYSTEM

12:00 Fiella, Montserrat; Rodríguez-Murillo, Juan Carlos; Nirel, Pascale
TEMPORAL EVOLUTION OF DISSOLVED ORGANIC CARBON IN A TEMPERATE WATERSHED: LAKE GENEVA AND RIVERS OF CANTON GENEVA, SWITZERLAND

SS1 When rivers run dry: temporary streams as coupled aquatic-terrestrial ecosystems
Location: Sala Petita
Chairs: Datry, T.; Tockner, K.; Arscott, D. and Corti, R.

09:15 Timoner, Xisca; Acuña, Vicenç; Sabater, Sergi
INTERMITTENCY DIFFERENTIAL EFFECTS ON C:N:P USE BY ECTOENZYMES IN A MEDITERRANEAN STREAM.

09:30 Dehedin, Arnaud; Gaillard, Isabelle; Danjean, Marc; Thibault, Datry; Volatier, Laurence
LONGITUDINAL CHANGES IN EPILITHIC MICROBIAL COMMUNITY STRUCTURE ALONG AN INTERRMITTENT RIVER: INFLUENCE OF DRYING/REWETTING CYCLES

09:45 Zoppini, Annamaria; Fazi, Stefano; Almalfitano, Stefano; Casella, Patrizia; Lupini, Giuliano; Puddu, Alberto
RECOVERY OF BACTERIA FROM DRY RIVER SEDIMENTS AFTER A PERIOD OF SIMULATED AND NATURAL DROUGHT

10:00 Moras Gomez, Juana; Romani Cornet, Anna; Elosegi, Arturo
MICROBIAL DECOMPOSITION OF LEAF LITTER IN A MEDITERRANEAN STREAM

10:15 Stubbington, Rachel; Wood, Paul J.; Reid, Ian
INVERTEBRATES IN THE HYPORHEIC ZONE REFUGIUM: IS COMPARING BENTHIC AND HYPOHEIC POPULATIONS VALID?

Chairs: Datry, T.; Tockner, K.; Arscott, D. and Corti, R.

11:00 Poznanska, Malgorzata; Kakareko, Tomasz; Krzyzynska, Maciej; Kobak, Jaroslav
EFFECT OF SUBSTRATUM DRYING ON THE SURVIVAL AND MIGRATIONS OF NATIVE AND PONTO-CASPIAN GAMMARIDS

11:15 Wood, Paul; Stubbington, Rachel; Pitcher, Andrew; House, Andy
HYDROGEOLOGICAL CONTROLS ON INVERTEBRATE COMMUNITIES IN TEMPORARY STREAMS

11:30 Magoulick, Dan
IMPACTS OF DRYING AND CRAYFISH INVASION ON STREAM ECOSYSTEM STRUCTURE AND FUNCTION

11:45 Datry, Thibault; Corti, Roland; Philippe, Michel; Charansol, Stéve
INVERTEBRATE RESPONSES TO REWETTING IN A TEMPORARY RIVER IN FRANCE: EFFECTS OF PRECEDING DRY PERIOD DURATION.

12:00 Corti, Roland; Charansol, Stéve; Datry, Thibault
SURFING THE WAVE: INVERTEBRATE FLUXES
IN THE ADVANCING WETTED FRONT OF A TEMPORARY RIVER FOLLOWING A 6 MONTH DRY PERIOD

12:15  SS1-11  Von Schiller, Daniel; Gräbe, Daniel; Britto, David; García-Roger, Eduardo; Gelbrecht, Jörg; Karaoz, Ioannis; Koutsikos, Nikolaos; Prat, Narcís; Steward, Alisha; Tockner, Klement
TERRESTRIAL INVERTEBRATE COMMUNITIES OF TEMPORARY MEDITERRANEAN STREAMS

12:30  SS1-12  García Novo, Francisco; Fernández Lo Faso, Raquel P.
PLANT COMMUNITIES OF AN EPHEMERAL STREAM IN THE AQUATIC-TERRESTRIAL TRANSITIONAL PHASE

O9 Emerging concepts in freshwater ecology
Location: Sala d’Assaig
Chair: Dahm, C.
09:15  09-1  Matthaei, Christoph; Piggott, Jeremy; Townsend, Colin
MULTIPLE AGRICULTURAL STRESSORS IN STREAMS: LESSONS FROM EXPERIMENTS AT TWO SPATIAL SCALES

09:30  09-2  Salis, Romana; Matthaei, Christoph; Winkworth, Cynthia
MULTIPLE-STRESSOR EFFECTS OF THE AGRICULTURAL ANTIBIOTIC MONENSIN, DAIRY EFFLUENT AND RIPARIAN SHADE ON STREAM ALGAL COMMUNITIES

09:45  09-3  Wagenhoff, Annika; Matthaei, Christoph; Townsend, Colin
MULTIPLE-STRESSOR EFFECTS ALONG GRADIENTS OF DEPOSITED FINE SEDIMENT AND DISSOLVED NUTRIENTS IN STREAMS

10:00  09-4  Keck, François; Lepori, Fabio
CAN WE PREDICT NITROGEN LIMITATION IN STREAMS AND RIVERS?

10:15  09-5  Liess, Antonia; Lind, Martin; Rowe, Owen; Thomsson, Gustaf; Guo, Junwen
AQUATIC CONSUMER GROWTH RATES AND GROWTH EFFICIENCIES ARE HIGHER AT HIGHER LATITUDES - BUT AT WHAT COST?

11:00  09-6  Plénet, Sandrine; Statzner, Bernhard
GRADIENTS IN PHYLOGENY AND PUPAL CASE ARCHITECTURE OF NINE HYDROPSCHE SPECIES (TRICHOPTERA) ALONG THE LOIRE RIVER

11:15  09-7  Istvánowics, Vera; Honti, Márk
PHYTOPLANKTON GROWTH IN THREE RIVERS – THE ROLE OF MEROPHANOTON AND THE BENTHIC RETENTION HYPOTHESIS

O4 Physiological Ecology
Location: Sala d’Assaig
Chair: Borrego, C.
11:30  04-1  Corcoll, Natàlia; Bonet, Berta; Leira, Manel; Guasch, Helena
LIGHT HISTORY INFLUENCES THE RESPONSE OF FLUVIAL BIOFILMS TO ZN EXPOSURE
SS7 Effects of global change on water quality under drought conditions in Mediterranean regions
Location: Sala 1
Chair: Boavida, M.

11:00 Sabater, Sergi; Duran, Concha; Perez-Baliero, Maria C; Romaní, Anna M; Ruiz-González, Clara; Soley, Susanna; Timoner, Xisca; Tornés, Elisabet; Ylla, Irene; Artigas, Joan

SPATIAL AND TEMPORAL PATTERNS OF PHOSPHORUS UTILIZATION BY PLANKTONIC COMMUNITIES IN A LARGE REGULATED MEDITERRANEAN RIVER

11:15 Carrapiço, Francisco

DEVELOPMENT AND ENVIRONMENTAL IMPACTS OF AZOLLA FILICULOIDES IN THE IBERIAN PENINSULA UNDER THE CLIMATIC CHANGES

11:30 Naselli-Flores, Luigi

INFLUENCE OF CLIMATE ON PHYTOPLANKTON DYNAMICS IN MEDITERRANEAN WATER BODIES

11:45 Ordóñez, Jaime; Rodríguez, José Javier; García, Juan Carlos; Marcé, Rafael; Armengol, Joan

IMPORTANCE OF RESERVOIR MANAGEMENT TO IMPROVE THE WATER QUALITY THEY SUPPLY: EXAMPLE OF SOME CATALAN RESERVOIRS

12:00 Terrado, Marta; Acuña, Vicenç; Ennaanay, Driss; Sabater, Sergi

CHANGE IN THE PROVISION OF CURRENT FRESHWATER ECOSYSTEM SERVICES IN A MEDITERRANEAN BASIN UNDER WET AND DRY CONDITIONS

11:00 Romaní, Anna M.; Díaz Villanueva, Verónica; Font, Jordi; Schwartz, Thomas

BIOFILM FORMATION AT WARMING TEMPERATURE: ENHANCED EFFECTS AT EUTROPHIC CONDITIONS