



ECSA Newsletter, April 2015 (No. 21)

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MESSAGES FROM ECSA / ECSA EVENTS

Annual General Meeting of the Association 27 May 2015 in Le Havre

All members are cordially invited to the Annual General Meeting of the Association which will take place during the ECSA-sponsored Conference in Le Havre 27 & 28 May 2015.

The AGM will take place at 13:00 on Wednesday 27 May at the Le Havre World Trade Centre, 161 Quai George V, 76600 Le Havre, France.

This meeting is of great significance for the ECSA because the current President will have completed his 3-year term and the President-Elect, Dr Kate Spencer, will then become the first female President in the 40-year history of the Association.

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Nominations for Elected Members to the Council

There will be one position for an elected member available and the position of President-Elect will also become vacant. Should any member wish to put their name forward they should send a completed nomination form (attached), along with the names and addresses of a proposer and seconder to the Honorary Secretary, Dr Gillian Glegg (glegg@plymouth.ac.uk).

The nominations will be considered at the AGM. Thanks for your support and participation.

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ECSA Local Meeting in Le Havre, France (May 2015)



The ECSA Local Meeting is co-organised by ECSA, Grand Port Maritime du Havre (GPMH) and Grand Port Maritime de Rouen (GPMR).

The purpose of this symposium is, firstly, to review Port 2000 environmental measures, and to introduce other ecological restoration measures which have followed for almost 15 years. Feedback from stakeholders will contribute to sharing scientific and technical information gained through the implementation of these actions. Secondly, the symposium will open onto discussing broader issues

such as restoring estuarine ecosystems relying on prospective studies in the context of global change and sustainable management methods pertaining to estuaries of international importance.

Themes:

Estuarine restoration

Estuaries and Climate Change

Sustainable management of estuaries of international importance: reconciling environmental issues with developmental issues.

For ECSA members the Conference Fee is only €140 and includes the Conference Dinner and the Fieldtrip.

For any additional information, please contact Jean-Paul Ducrototy (j-p.duc@wanadoo.fr).

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ECSA 55 - Abstract submission deadline extended to 10th April



The deadline for abstract submission to the ECSA 55 Conference has been extended to the **10th April**.

Abstract submissions are invited on the conference topics below and should be submitted using the [online submission system](#).

Conference topics:

- People and coasts through time.
- Biology and ecology of coastal and estuarine systems: evolution, adaptation and shifting baselines.
- Physical and chemical processes in estuaries and coasts: geochemical, sedimentary, hydrodynamic and geomorphological change.
- Interactions between biological, geochemical and physical processes: fluxes and functions.
- Valuing estuaries and coasts: Shifting social, economic and cultural perspectives.
- Managing challenges: Working towards resilient and sustainable coasts and estuaries.
- Estuaries and coasts in the future: Prediction and adaptation.
- The challenges of heavily modified, industrialised megacity estuaries.
- Special Sessions:
 - [Creating space for coastal change: sustainability, challenges and successes](#)
 - [Ecogeomorphology of estuarine systems](#)
 - [Environmental management of enclosed coastal seas. EMECS SPONSORED](#)
 - [Estuaries of the world: comparing estuarine ecosystem functioning and management](#)
 - [Estuarine restoration: from restoring habitats to delivering ecosystem services?](#)
 - [Everyone is involved in risk assessment and risk management, so how do we achieve good status of transitional and marine waters?](#)

- [From rock pool to regional sea – can coordinated multi-scale, multi-pressure monitoring, protect the marine environment?](#)
- [How to proceed with analysing, assessing and judging environmental, social, economic and integral networks?](#)
- [Long-term monitoring to record change in coastal and transitional waters: what to learn from existing monitoring and data analysis](#)
- [Looking back to see forward: long-term perspectives on coastal change](#)
- [Modelling of hydrodynamics and sediment transport in estuaries](#)
- [Physical, ecological and chemical process interactions in coastal wetlands](#)
- [Species redistribution across the globe: processes and patterns of community change](#)
- [The role of estuaries and coastal waters in energy generation](#)
- [Urban sprawl in the marine environment](#)

Find more information on ECSA 55 at <http://www.estuarinecoastalconference.com/>

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Programme of the 10th BSSC is published!



The 10th Baltic Sea Science Congress (BSSC) is an event hosted by Latvian Academy of Sciences and Latvian Institute of Aquatic Ecology, and co-sponsored by ECSA.

The **Programme of the conference** has now been published and is available [here](#).

For young scientists attending the Baltic Sea Science Congress 2015, there is a workshop opportunity on the 15th June 2015 to learn **Seven secrets of extremely successful researchers**. This is a BONUS Young Scientist Club event. Find more information [here](#).

Other Important dates:

20 April 2015 – early registration closed

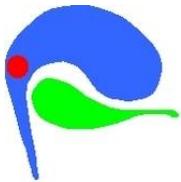
20 May 2015 – late registration Closed

Please check the 10th BSSC webpage for updated information – www.bssc2015.lv

BSSC 2015 is an official event of Latvian Presidency of the Council of the European Union

Local organisers:

Latvian Academy of Sciences, Latvian Institute of Aquatic Ecology, Ministry of Education and Science



Co-sponsored by



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Joint ECSA-CERF session at CERF 2015 – Call for Abstracts



CERF 2015 Symposium Call for Abstracts: Grand Challenges in Marine and Estuarine Spatial Planning around the World: Common Issues and Different Approaches (joint ECSA-CERF Session)

Greetings,

Our proposal for a joint ECSA-CERF Session symposium/special session entitled "*Grand Challenges in Marine and Estuarine Spatial Planning around the World: Common Issues and Different Approaches*" (see below) has been accepted for the CERF 2015 scientific program. The CERF2015 Call for Abstracts was published in early February (see: <http://www.erf.org/call-for-abstracts>) and we are in the process of assembling the core participants for our proposed session.

Please consider how you might contribute to an updated dialogue about the science and application of ecosystem-based spatial planning of estuaries and coasts (ECSP) and either you or one of your colleagues attend to make an oral presentation at CERF2015 in Portland, Oregon USA during the week of November 8-12, 2015. **The deadline for submission of abstracts is 1 May, 11:59 PM PDT / 2 May, 06:59 GMT.**

Feel free to contact myself or one of the co-conveners if you would like to discuss your contribution to our proposed ECSP symposium/session.

Thank you for considering this request!

Lead Convener:

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Co-Conveners:

Charles ("Si") Simenstad, University of Washington (simenstd@uw.edu)

Suzanne Bricker, NOAA (Suzanne.bricker@noaa.gov)

Proposal:

Ecosystem-based spatial planning of estuaries and coasts (ECSP) is increasingly required to address and integrate the otherwise piecemeal approaches to management and governance worldwide. The main aim and 'big idea' is to maintain and protect natural ecological structure and functioning while simultaneously supporting or recovering the system to deliver ecosystem services which in turn provide societal benefits. Within this, the scientific principles and approaches to ecosystem-based ECSP differ greatly worldwide and there appears to be little constructive learning or integration, even under the increasing borderless challenges of depleting resources and climate change. In particular, ECSP has to accommodate moving baselines, due to climate change, and unbounded boundaries; the latter are important because of the estuarine features dependent on factors far outside the ECSP area under management. Despite divergent ECSP settings and ecosystems under widely differing socioeconomic drivers worldwide, there are many lessons to be learned in communicating common experiences and working toward cohesive principles and approaches.

This symposium/session will view the goals, objectives, approaches and limitations to comprehensive ECSP and management, and the assumptions of the underlying science required to implement various approaches, from experiences in diverse coastal regions. The overall objective of the symposium/session will be a 'lessons learned' approach to understanding how ECSP can meet many of the common Grand Challenges. Examples from the extensive planning in the European Union (e.g., Water Framework Directive; Marine Spatial Planning Directive; Marine Strategy Framework Directive) and the US (NOAA Coastal and Marine Spatial Planning) will form the foundation but case studies will be sought from many other sectors and regions to enhance, explain and illustrate these 'lessons learned'. Accordingly, we will seek examples from Canada [Eastern Scotian Shelf Integrated Management Plan], Australia [Marine Bioregional Planning; Healthy Estuaries Initiative] and China [Marine Functional Zoning Plans]). Four to five presentations will be grouped thematically into approximately 6-8 segments, progressing from underlying principles to application, potentially initiated with a plenary presentation if appropriate under the CERF2015 theme and program, and concluding with a panel discussion:

- Need and approaches
 - goals, objectives and implementation
 - examples of the DAPSI(W)R approach (drivers, activities, pressures, state change, impacts (on welfare), responses)
- Issues and challenges
 - juggling multiple use and expectations
 - 'unbounded boundaries' - does scale matter?
 - moving baselines
 - integration ecology, society and economy
- Tools
 - ecosystem classification
 - mapping
 - spatial analyses
- Metrics and indicators
 - targets and thresholds
 - pressure indicators, status indicators/biotic indices
 - monitoring pressures/stressors vs. monitoring biotic response
 - ecosystem goods and services
- Applications

- recovering at-risk species or communities
- setting conservation and restoration priorities
- fisheries and aquaculture management
- Outcomes
 - ecosystem recovery
 - multiple use conflicts
 - socioeconomic responses
- Synthesis (panel)
 - What has worked?
 - What hasn't?
 - Why?

We will emphasize results from studies but lessons learned from coastal management, institutional, sociological, cultural and economic perspectives are also encouraged. As a synthesis, we will hold a moderated, closing panel discussion among the session/symposium presenters and audience.

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OTHER FEATURES/EVENTS OF INTEREST

UK to pioneer lagoon power plants



Plans to generate electricity from the world's first series of tidal lagoons have been unveiled in the UK, with sites proposed in Wales, Somerset and Cumbria.

Read the BBC article at
<http://www.bbc.co.uk/go/em/fr-/news/science-environment-31682529>

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Symposium on Tools for Assessing Status of European Aquatic Ecosystems, May 2015



Symposium on “Tools for assessing status of European aquatic ecosystems”, Malmö (Sweden)
6-7 May 2015.

This is the first joint Scientific Symposium of the research programmes DEVOTES (<http://www.devotes-project.eu/>), WATERS (www.waters.gu.se) and MARS (www.mars-project.eu).

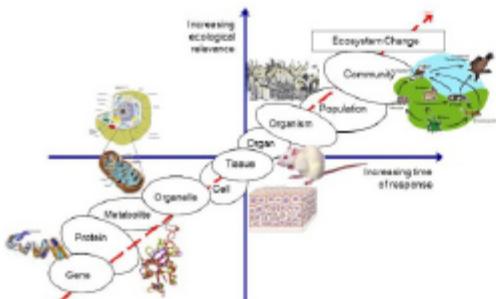
The symposium will bring together scientists and environmental managers to present and discuss state-of-the-art indicator development and assessment methods for ecological/environmental status of freshwater and marine ecosystems. The focus of the presentations will be related to the implementation of EU Water Framework Directive and EU Marine Strategy Framework Directive.

Find more information at www.waters.gu.se/scisymp



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Advanced Course on Biomarkers, June 2015



Advanced Course on
BIMARKERS | 1 - 5 of June, 2015
from gene to the ecosystem
ESTM – Polytechnic Institute of Leiria
Peniche, Portugal



The third edition of the one-week SETAC Summer School will be held from the 1st to the 5th June 2015 at ESTM - Polytechnic Institute of Leiria, Peniche, Portugal, under the framework of the Campus do Mar – International Campus of Excellence. The Biomarkers advanced course aims to provide knowledge on the development of biomarker tools to assess and understand the impact of stressors in the environment by establishing a link between different levels of the biological continuum. The course, worth 3 ECTS, is composed by theoretical lectures and a strong practical (hands-on) component and is targeted to scientists, and PhD and MSc students with a background in Biology, Environmental Sciences, Chemistry, Environmental engineering or related fields, members of consulting companies, and of private and public institutions responsible for environmental management

Registration is open until 15th May 2015 (limited to 16 participants)

For more information and registrations visit <http://www.environome.ipleiria.pt/> or contact Sara Novais (sara.novais@ipleiria.pt).

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DEVOTES-EUROMARINE Summer School on the Ecosystem Approach, June 2015



This FP7 DEVOTES project course falls into the first scientific priority and emerging fields identified by the FP7 EuroMarine programme (Understanding marine ecosystems for healthy oceans).

This is the 12 AZTI's Marine Research Division Summer School and the third one organized within DEVOTES. The course will explore the potential and recent advances in the integrative assessment of marine systems (based upon strong new monitoring tools, such as genomics), including the various ecosystem components (from plankton to marine mammals), at different scales (from water bodies to regional seas), in management applications (e.g. to the European Marine Strategy Framework Directive (MSFD), the Water Framework Directive (WFD), etc.). Hence, the main objective of the school is to give an overview on the integrative assessment to ocean and coastal management using an ecosystem approach view.

Registration is open until 3rd June 2015.

Find more information on the programme and registration [here](#).

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2015 SETAC Summer School on Trait Based Approaches in Community and Stress ecology, September 2015



This course aims at providing updated concepts and methodologies on the use of biological and ecological traits in Community Ecology and Stress Ecology, encompassing terrestrial and freshwater ecosystems. Particular attention will be given to the use of species traits to understand ecological

processes, such as niche partitioning, species interactions, community assembly and ecosystem processes, and as tools in bioindication schemes (including indication of ecosystem services and different stressors, e.g., chemicals, climate change).

The course is composed by theoretical, discussion and practical (hands-on) lectures and is targeted to scientists and post-graduate students, as well as to professionals involved in bioindication. It is composed of two complementary but independent modules: **module 1** is focusing on major concepts and on terrestrial environments and **module 2** focuses on freshwater systems. Participants can attend one or both modules.

Find more information on the programme and registration [here](#).

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Venice Summer School on Evolution of Developmental Processes, September-October 2015

The fourth edition of the Venice Summer School in Evolutionary Developmental Biology will run between September 28th and October 1st.



Konrad Lorenz Institute
for Evolution & Cognition Research



Evolution and development are two aspects of the same underlying dynamic. While morphological evolution occurs through changes in the underlying developmental processes, the regulatory structure of these processes in turn influences rate and direction of phenotypic change. Studying the complex feedback between development and evolution requires moving beyond qualitative comparative analysis of gene expression and key regulatory factors towards quantitative network-level studies of evolving developmental systems. This transition poses a number of considerable conceptual and methodological challenges.

This course will expose its participants to these challenges, with the aim of providing PhD students and postdocs interested in evo-devo with the methodological and conceptual toolkit required to face them. This year's course is centred on approaches that explicitly acknowledge the processual nature of evolution and development. It will start with a brief introduction to key concepts of process philosophy, which provide a unifying general conceptual framework for a possible extended synthesis for evolutionary biology. We will discuss problems of phylogenetics and the choice of model organisms as a necessary practical prerequisite for any investigation into evo-devo. The following three days of the course will cover different approaches to the study of developmental evolution. First, we will cover regulatory evolution and how it results in altered developmental dynamics and phenotypic variation. Second, we will introduce concepts and approaches that deal with higher-level organisation in evolving developmental systems. And finally, we will explore the interaction of ecology and evo-devo. Throughout the course, we will touch on central concepts such as evolvability, robustness, and phenotypic plasticity and their respective roles in evolution.

Registration is open until 30th May 2015.

Find more information on the course structure, programme and registration [here](#).

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FELLOWSHIPS/JOB POSITIONS/OPPORTUNITIES

Early Stage Researcher position on Economic and Social Evaluation of Conservation of Endangered Migratory Fishes



A three-year **Early Stage Researcher (ESR)**, preferably a **doctoral (PhD) student**, in the field of **“Economic and Social Evaluation of Conservation of Endangered Migratory Fishes”** is sought within a newly funded EU Marie Skłodowska-Curie Initial Training Network (ITN) entitled IMPRESS.

IMPRESS (*Improved production strategies for endangered freshwater species*, www.impress-itn.eu) is coordinated by the Norwegian University of Life Sciences (NBUM) in Oslo, Norway, and involves 15 ESRs hosted by 9 different organizations in Europe.

The candidate sought here will join the Fisheries Research group of Prof. Dr. Robert Arlinghaus in the Department of Biology and Ecology of Fishes at the Leibniz-Institute of Freshwater Ecology and Inland Fisheries in Berlin, Germany and shall be recruited by June, 1, 2015.

More details on the position and how to apply can be found [here](#).

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Research Fellowship on Saltmarsh Resilience and Regime Shifts



Bangor University are re-advertising an exciting Research Fellowship on **“Dynamics of marine and coastal ecosystems - bio-physical control of resilience and state shifts in salt marshes”**. This is a 43-month, full-time Research Fellowship to investigate how coastal and estuarine landscapes are shaped by interactions of biological and environmental/physical factors.

This post is an ideal opportunity for an ambitious postdoc to demonstrate leadership in high-impact research. The person will be based at Bangor University and will work with colleagues there (Stuart Jenkins and Martin Skov), at Swansea and Cardiff Universities (John Griffin, Eli Lazarus), as well as

NIOZ-Netherlands (Tjeerd Bouma). The fellowship comes with great scope of developing personal ideas, a nice budget and it is open to candidates outside Europe.

The closing date for applications is midnight, April 15th, 2015.

Full post details and links to application forms can be found [here](#).

Information on the overall research cluster, RESILCOAST, can be found at:

<http://nbn-lceee.ac.uk/resilcoast/index.php.en>

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Gallagher Fellowship on systematics of Rotifers



The Academy of Natural Sciences in Philadelphia is offering a unique opportunity for original postdoctoral or sabbatical research on the systematics of microscopic invertebrates with priority for the study of rotifers.

Application deadline is 30th June 2015.

Start date negotiable, but preferably sometime in 2015.

Find more detailed information [here](#).

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