



Estuarine & Coastal Sciences Association

ECSA Newsletter, December 2013 (No. 17)

CONTENTS

Messages from ECSA / ECSA events:

- [Christmas wishes from ECSA](#)
- [Calling all student members – ECSA council needs a new Student Representative!](#)
- [Making payments to the Association by PayPal](#)
- [ECSA Local Meeting “Estuaries and Coasts of North and mid-Wales”, April 2014](#)
- [ECSA 54 “Coastal systems under change”, May 2014](#)
- [ECSA 55 Cancellation](#)

Other features/events of interest:

- [NMBAQC Macroalgae Proficiency Tests, January 2014](#)
- [GLAM & GAM Course, February 2014](#)
- [V International Symposium "Monitoring of Mediterranean coastal areas, June 2014](#)
- [3rd International Conference on Biodiversity & Sustainable Energy Development, June 2014](#)
- [IMBER ClimEco4 Summer School, August 2014](#)

Fellowships/job positions/opportunities:

- [PhD research position on marine aggregate formation in turbulence at UNC](#)
- [3 PhD research positions at Liverpool and Sheffield](#)
- [NERC-funded PhD positions at University of Liverpool](#)
- [2 post-doc opportunities on fishery science at the University of Minnesota](#)
- [7 Fellowships for female researchers in Berlin](#)

MESSAGES FROM ECSA / ECSA EVENTS

Christmas wishes from ECSA



[Top](#)

Calling all student members – ECSA council needs a new Student Representative!

The role of the Student Representative is to:

1. Provide the ECSA council with a student's perspective.
2. Provide new ideas and concepts to help the association grow and evolve, particularly through encouraging student membership and participation.
3. Help to develop a community of early career researchers (from undergraduate to postdoctoral) from a variety of backgrounds/disciplines within the estuarine and coastal sciences.
4. Attend the twice yearly ECSA Council Meetings.

Requirements for the role:

1. You must be an ECSA member.
2. You must be registered on a higher education course specialising in any aspect of estuarine and coastal sciences.

3. Most importantly, you must be enthusiastic!

Benefits of the role:

1. You will have an active role in developing the student and early career arm of ECSA, including organising meetings and networking events.
2. The role provides an excellent opportunity to network with your peers on the ECSA council and through ECSA meetings and symposia.

Application:

If you are interested in undertaking this role, please email a short application letter (no more than one side of A4) to the ECSA Secretary, Dr Mark Fitzsimons at mfitzsimons@plymouth.ac.uk. This should include a short summary CV and a section on what you could bring to the role.

If you have any questions regarding the role, please contact me (the former Student Representative) at Sally.Little@hull.ac.uk

Many thanks,

Sally

[Top](#)

Making payments to the Association by PayPal

ECSA has ceased accepting payments directly to our own credit card account as it is cheaper and much easier for us to receive such payments through PayPal. Anybody can make payments to an organization or business's PayPal account, even if they do not have their own personal PayPal account, and you can charge them to any debit card or credit card that you would otherwise have used to make the payment. You may find the system works so easily that you may want to open your own personal account as it is such an easy way to securely pay an increasingly wide range of traders.

Payment of membership subscriptions

This can be done using the PayPal link on the membership payment page of the ECSA website and following the instructions. This particular link is specially set up only with fixed subscription rates for membership applications and renewals. You can make any other payments to ECSA using PayPal but do not use the link on the website. Instead please follow the procedure below:

Payment of any other monies to ECSA e.g. meeting registration

(i) If you already have your own personal PayPal account

- Go to www.paypal.com and log in with your e-mail address and password.
- On the next screen which has your account overview select "send money" from the top menu bar.
- The payment screen will appear.
- The payment is to be made to m.wilkinson@hw.ac.uk which is the e-mail address linked to the ECSA PayPal account. Enter this e-mail address in the "to" field. Under PayPal rules no other account than ECSA's can be linked to this address so your payment will safely go to ECSA

- Enter the amount to be paid in the box below and select the appropriate currency from the currency menu beside it.
- Select “in payment for goods or services”
- Click on “continue”.
- The next screen is the payment review screen. You will see confirmation that the payment will appear on your account statement as “ESTUARINECO” i.e. it will be made to ECSA. Please fill in your postal address by clicking on the blue link. The address linked to your PayPal account is likely to appear from a dropdown menu.
- In the subject field please enter a brief title to show why you are making the payment e.g. “meeting registration”.
- In the message field you can enter a little more detail such as “payment for registration for local meeting in Bangor 2014 for --- *names of delegates*” to clearly identify what your payment is for.
- When you are happy with the payment screen please click on “send money” and the sum will be transferred to ECSA from your nominated account.
- Please make sure that you separately send any meeting registration form to the address given on that form and that the amount paid through PayPal matches the amount due on the form.

(ii) If you do not have your own personal PayPal account

- Go to www.paypal.com
- Choose “personal” (not business) from the top menu bar without logging in.
- From the next screen select “buy”.
- From the drop-down menu that appears select “make a payment”.
- On the next screen enter in the “to” field m.wilkinson@hw.ac.uk which is the e-mail address linked to the ECSA PayPal account.
- Enter the amount to be paid in the box below and select the appropriate currency from the currency menu beside it.
- Select “in payment for goods or services”
- Click on “continue”.
- The next screen will enable you to set up a PayPal account to make the payment. You can charge the payment to an existing debit card or credit card.

Martin Wilkinson
ECSA Treasurer
16 December 2013

[Top](#)

ECSA Local Meeting “Estuaries and Coasts of North and mid-Wales”, April 2014

**Meeting on the Coasts and Estuaries of North and mid Wales
10-12 April 2014 University of Bangor, Bangor, Gwynedd**

The ECSA 2014 spring local meeting, held in conjunction with the University of Bangor, will focus on the coasts and estuaries of North and mid- Wales. This region extends from the River Dee in the North (which forms the boundary with England) to Aberystwyth and Cardigan Bay in the south and includes the North Wales coast, Anglesey and the Menai Straits, the Llyn Peninsular and the coast and estuaries of mid-Wales.

The region contains some of the most distinctive marine areas in Great Britain ranging from spectacular estuaries with extensive intertidal areas to the rocky shores of Anglesey and the Llyn Peninsular.

Abstracts are invited on the following topics:

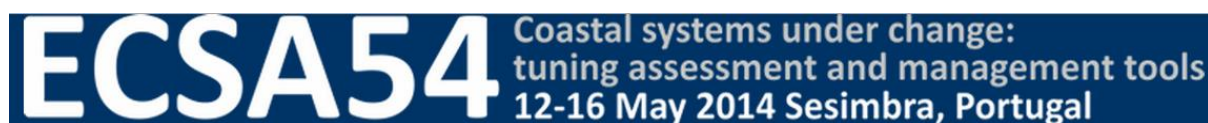
- The biology and ecology of coastal habitats
- Hydrology, sedimentology and geomorphology in the coastal zone
- Fisheries and aquaculture
- Nutrients and pollution
- Management of the coastal zone
- Marine energy
- Socioeconomic utilisation of the coastal zone

Speakers are expected from, Aberystwyth University, Bangor University, the Centre for Ecology and Hydrology, Dŵr Cymru/Welsh Water, Gwynedd Council, National Oceanography Centre, Natural Resources Wales, Swansea University, the University of Hull, the Welsh Government and the local shellfish industry.

Full details for booking will shortly be posted on the ECSA website, but for further information or to offer a paper or poster please contact Andrew Wither at the National Oceanography Centre, Liverpool (awith@noc.ac.uk)

[Top](#)

ECSA 54 “Coastal systems under change”, May 2014



Environmental change is occurring at unprecedented rates and scales. However, knowledge on how climate and anthropogenic impacts interact and affect hydrodynamic, geomorphological, geochemical, biological and ecological processes in coastal areas is still limited. A better understanding of changes in ecosystem function and processes will contribute to more efficient management and conservation strategies. The integration of current knowledge and the development of predictive tools involve a multidisciplinary effort to deal with challenges posed by changing coastal environments.

To explore the topic of environmental change in coastal systems aiming at advancing assessment and management tools, ECSA 54 will address the following topics:

Themes:

1. Hydrodynamic and geomorphological shifts in coastal systems

2. Geochemical processes in changing environments
3. Structural shifts in biodiversity and ecosystem functioning
4. From genes to ecosystems: effects of global change
5. Connectivity and its implications towards conservation and management
6. Paleo-perspectives for present and future coastal management
7. Improving management and decision processes: advances in understanding and predictive tools

» IMPORTANT DATES	
01/10/2013	Abstract submission opens
28/02/2014	Deadline abstract submission
31/03/2014	Early registration closes
30/04/2014	Registration deadline
12-16/05/2014	ECSA 54 Conference
30/09/2014	Manuscript submission for Proceedings

More Information at <http://ecsa54.fc.ul.pt/index.html>

Conference Secretariat:

ecsa54@fc.ul.pt

www.ecsa54.fc.ul.pt

Convenor:

Henrique Cabral

Centro de Oceanografia

Faculdade de Ciências da Universidade de Lisboa

Campo Grande

1749-016 Lisboa

PORTUGAL

Phone: + 351 21 750 08 26

Fax: + 351 21 750 02 07

E-mail: hcabral@fc.ul.pt



ECSA 54 is supported by



[Top](#)

ECSA 55 Cancellation

Dear members,

Due to unforeseen circumstances ECSA 55: Estuaries and coastal seas in a rapidly changing world, due to be held in Phuket, Thailand in October 2014 has been cancelled.

ECSA would like to apologise for any inconvenience caused to members and potential delegates.

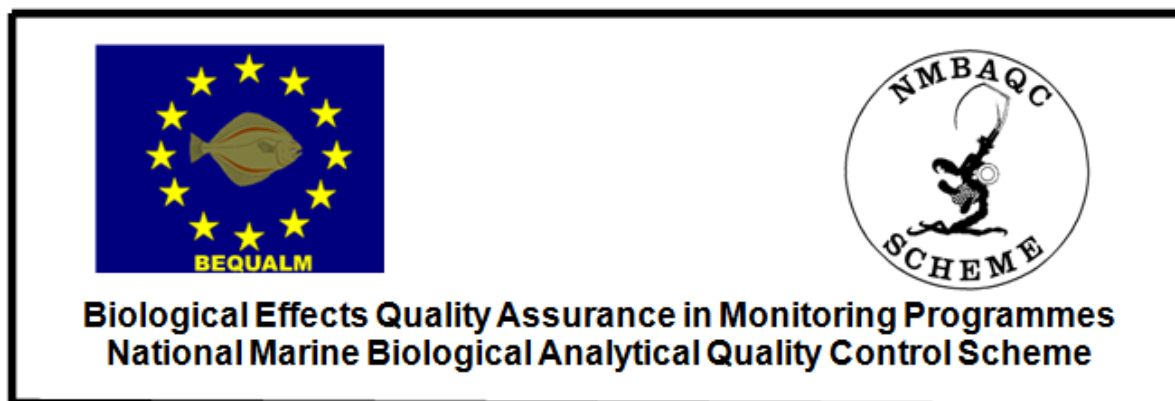
Best wishes,

Sally

[Top](#)

OTHER FEATURES/EVENTS OF INTEREST

NMBAQC Macroalgae Proficiency Tests, January 2014



Macroalgae Proficiency Tests

The NMBAQC (National Marine Biological Analytical Quality Control Scheme) runs external proficiency tests for the identification of rocky shore algae and the assessment of macroalgal blooming and seagrass abundance. The modules are:

- | | |
|----------|---|
| Module 1 | Rocky shore algae identification |
| Module 2 | Opportunistic macroalgae & seagrass % cover
Opportunistic macroalgae Biomass ring test |

Each module or part thereof may be taken individually. Further details may be found at <http://www.nmbaqcs.org/scheme-components.aspx> and an application form at <http://www.nmbaqcs.org/news/nmbaqc/new-info-note-year-20.aspx>. Further information may also be obtained from Amanda.Prior@environment-agency.gov.uk.

Please note that the next exercises will be run in late January 2014, so participants should sign up by 6th January 2014 at the latest.

[Top](#)

GLAM & GAM Course, February 2014

From: Paulo Sousa [mailto:jps@zoo.uc.pt]
Sent: 18 August 2013 23:49
Subject: GLAM & GAM Course - Coimbra 2014

Dear Colleague

We would appreciate if you could announce within your Institution and research team the 2014 edition of the following course on statistics:

DATA ANALYSIS TOOLS IN ECOLOGY

Data Exploration, Regression, GLM & GAM - With Introduction to R

Coimbra, 3-7 February, 2014

Department of Life Sciences – University of Coimbra

For more information and registrations, please see www1.ci.uc.pt/imar/mvs_13

Thank you very much for your attention

Best regards

Paulo Sousa

[Top](#)

**V International Symposium "Monitoring of Mediterranean coastal areas,
June 2014**



Fifth International Symposium:
**"Monitoring of Mediterranean coastal
areas: problems and measurement
techniques"**

Livorno (Italy) 17-18-19 June 2014

SESSIONS

- Measures for environment and energy production in the coastal zones
- Morphology and evolution of coastlines and seabeds
- Flora and Fauna of the littoral system: dynamics and protection
- Coastline geography: territory uses, processes and dynamics
- Coastal landscapes: past and present aspects of human influence
- Management and integrated coastal protection: economic and legal profiles

The symposium will also include oral presentations and a poster session.

Final deadline for abstracts: 4 November 2013

For further information please visit the website

<http://server.ss.ibimet.cnr.it/ita/simposio/2014/eng/s2014eng.html>

Scientific Secretariat: National Research Council of Italy

Institute for Biometeorology (CNR – IBIMET) - Seat of Sassari Traversa La Crucca, 3 Loc. Balinca, Li
Punti; 07100 Sassari (Italy) Phone +390792841508-1 Fax +390792841598 e-
mail:simposio@ibimet.cnr.it

[Top](#)

3rd International Conference on Biodiversity & Sustainable Energy Development, June 2014



3rd International Conference on

Biodiversity & Sustainable Energy Development

June 24-26, 2014 Valencia Conference Centre, Spain

Greetings from Biodiversity-2014.

Biodiversity-2014 is specifically premeditated with a unifying axiom providing pulpit to widen the imminent scientific creations. The main theme of the conference is "Milestones of innovative scientific research in biodiversity and its allied areas" which covers a broad array of vitally key sessions.

On behalf of the Organizing Committee, we would like to invite you at the upcoming 3rd International Conference on Biodiversity & Sustainable Energy Development on June 24-26, 2014. This conference will be held at Valencia, Spain.

For details regarding scientific tracks and submission of abstract, Please click here:
<http://www.omicsgroup.com/biodiversity-sustainable-energy-conference-2014/cfa.php>

Special Issues:

- We are pleased to inform you that all accepted abstracts will be published in the respective OMICS Group Journals
- Each abstract will receive a Digital Object Identification Number (DOI) provided by CrossRef

We welcome you to be a part of this exciting conference Biodiversity-2014 as a Delegate/Speaker.

Kindly contact us for any sort of further assistance.

With Regards,

Valentina Lisitsa

Biodiversity-2014

Life Science Conferences

5716 Corsa Ave, Suite110

Westlake, Los Angeles

CA-91362-7354, USA

Office Ph: +1-650-268-9744

Toll No +1-800-216-6499(USA & Canada)

IMBER ClimEco4 Summer School, August 2014



IMBER ClimEco4 Summer School – First Announcement

IMBER is very pleased to announce that the fourth summer school in its ClimEco (Climate and Marine Ecosystems) series will be held at the East China Normal University in Shanghai, China from 4-9 August 2014.

ClimEco4 will focus on Delineating the issues of climate change and impacts to marine ecosystems: Bridging the gap between research, assessment, policy and management.

Download the summer school flyer

http://www.imber.info/index.php/Media/Files/ClimEco4/ClimEco4_flyer more detailed information.

For more information about the summer school and how to apply, please go to:

<http://www.imber.info/index.php/Early-Career/IMBER-Summer-Schools/ClimEco4-August-2014-Shanghai-China>

FELLOWSHIPS/JOB POSITIONS/OPPORTUNITIES

PhD research position on marine aggregate formation in turbulence at UNC

A PhD graduate research assistantship is available in the Department of Marine Sciences at the University of North Carolina at Chapel Hill to study the formation of marine aggregates in turbulent flow. These aggregates, termed 'marine snow', are composed of phytoplankton, fecal pellets, detritus, and other organic and inorganic matter, and play a critical role in the marine carbon cycle, often dominating carbon flux from the surface to the deep ocean and acting as hotspots for bacterial activity. In this interdisciplinary research project, the Ph.D. student will investigate the role of turbulence and biological factors on marine snow formation and implications for marine carbon cycling. The research will include a combination of experimental measurements of aggregate formation under turbulence, data analysis, and mathematical modeling.

We encourage applications from students with strong quantitative skills and interdisciplinary research interests, particularly in the interaction between biology and fluid physics in marine ecosystems. Applicants are welcome from a wide range of majors/backgrounds, including physics, biology, environmental science, marine science, mathematics, engineering, and related fields.

If interested, please apply to the graduate program in Marine Sciences at University of North Carolina at Chapel Hill. Information on the program can be found at <http://marine.unc.edu/students/prospective/>.

Please contact Dr. Brian White (bwhite@unc.edu) in the Department of Marine Sciences at UNC with any questions.

[Top](#)

3 PhD research positions at Liverpool and Sheffield



Three Studentships (PhD) are available to apply for, starting in 2014. They are all part of the newly funded ACCE programme for Doctoral Training linking Sheffield with Liverpool and York University.

The FIRST,

[Adaptation under Climate Change: Coping with Predation and Variation in Food \(Links to Bigger](#)

[Description\)](#)

is hosted at Sheffield, under the supervision of Dr. Andrew Beckerman, and co-supervised by Dr. Stewart Plaistow at Liverpool. This project will combine physiology, ecology and evolution to tackle the important question about how adaptation to climate change works under realistic ecological conditions where food and predation are important. Also part of the project are Dr. David Atkinson at Liverpool and Dr. Dylan Childs at Sheffield.

** [APPLY HERE for Sheffield Post](#)

The SECOND is hosted at Liverpool University focusing on Parasites and Food Web Complexity and Structure. This is a good project for a mathematically minded individual. The lead PI is Dr. Andrew Fenton, at Liverpool. It includes me, Dr. Owen Petchey in Zurich and Dr. Kieren Sharkey at Liverpool. Link to find a PhD.

[Mathematical modelling of the community context of host-parasite interactions](#)

The THIRD is also hosted at Liverpool University focusing on the evolutionary biology of parental effects (e.g. maternal and paternal effects on offspring). This is a good project for a person interested in evolution, using a model ecological and evolutionary organism, *Daphnia pulex*. The lead PI is Dr. Stewart Plaistow, at Liverpool with Dr. Stewart Plaistow as Co-supervisor at Sheffield.

[Parental effects and local adaptation in *Daphnia pulex*](#)

** [APPLY HERE for Liverpool Posts](#)

The deadline for applications is Monday 20th January 2014.

[Top](#)

NERC-funded PhD positions at University of Liverpool

PhD Opportunity (Oct 2014 start)

A Novel Eco-Physiological Approach to Predicting Aquatic Oxygen Limitation

Background:

A fundamental challenge for predicting biological impacts of environmental change is to be able to quantify the extent to which particular resources become limiting to particular species. This is especially important in the case of eutrophication and environmental warming, which typically deplete oxygen supply, cause fish kills, and reduce biodiversity and water quality. The project investigates a novel approach to predicting oxygen depletion impacts on aquatic biota, which combines ecophysiological mechanism and readily available data.

Objectives:

The student will predict oxygen consumption from body size and shape, temperature, respiratory adaptations and environmental oxygen supply (extending metabolic scaling).

The student will extend existing global databases containing ectotherm oxygen consumption rates by adding widely available data on consumption at different levels of environmental oxygen availability and adding organism trait data. S/he will perform meta-analyses to test predicted relationships between oxygen supply and maximal sustained consumption rates, and to quantify effects of temperature and relevant biological traits. S/he will then validate predicted differences in species response to oxygen depletion against changes in abundance of individual species of aquatic invertebrates already recorded in our large-scale manipulation of 48 pond ecosystems. Opportunities will be available to investigate experimentally the respiratory benefits from specific adaptations to oxygen depletion (e.g. respiratory pigments). All necessary training will be provided.

Novelty and Timeliness:

Innovations include: incorporating variation in oxygen supply and explicit physiological mechanism into predictive metabolic scaling relationships; and avoiding long-standing disagreements about oxygen availability estimates by adopting a recently published measure that is equivalent to oxygen diffusion at the respiratory surface. Together with the readily available data, these make the approach both novel and economical. It has a robust universal applicability because it is based on mechanism rather than taxonomy, and predicting impacts of severe aquatic eutrophication and oxygen-depletion are timely as these impacts worsen worldwide.

This NERC-funded studentship is available to UK citizens and some EU citizens resident in UK.

Relevant references by supervisors:

Forster*, J., Hirst, A.G. & Atkinson, D. (2012). Warming-induced reductions in body size are greater in aquatic than terrestrial species. *Proceedings of the National Academy of Sciences of the USA*. **109**, 19310-19314.

Mirceta*, S., Signore*, A.V., Burns, J.M., Cossins, A.R., Campbell, K.L. & Berenbrink, M. (2013). Evolution of mammalian diving capacity traced by myoglobin net surface charge. *Science* **340**, 1234192.

Killen, S.S., Glazier, D.S. & Atkinson, D. (2010). The intraspecific scaling of metabolic rate with body mass in fishes depends on lifestyle and temperature. *Ecology Letters* **13**, 184-193.

Moran*, R., Harvey, I., Moss, B., Feuchtmayr, H., Hatton, K., Heyes, T. & Atkinson, D. (2010). Influence of simulated climate change and eutrophication on three-spined stickleback populations in a large-scale mesocosm experiment. *Freshwater Biology* **55**, 315-325.

Postgraduate co-authors*

Further information:

Please contact Dr David Atkinson, davida@liv.ac.uk, T 0151 795 4527
or Dr Michael Berenbrink, michaelb@liv.ac.uk, T 0151 795 4511

[Top](#)

2 post-doc opportunities on fishery science at the University of Minnesota

Opportunity 1: conduct open-ended research related to the foundation and application of degree-days in fish science and/or life history theory and sustainable exploitation. For complete details and to apply visit

https://employment.umn.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=655130

Opportunity 2: model fish community dynamics on an evolving river delta for a large, dynamic, and interdisciplinary team. For complete details and to apply visit

7 Fellowships for female researchers in Berlin

Postdoctoral Fellowships

(Seven posts)

Technische Universität Berlin

The International Post-Doc Initiative (IPODI) is part of the gender equality strategy of the Technische Universität Berlin and aims at increasing the number of female researchers in leadership positions. The IPODI Fellowship Program is open to outstanding female* researchers of all nationalities and from all fields of research represented at the TU Berlin. IPODI awards

Seven Incoming Postdoctoral Fellowships (salary scale between E 13 and E 14 TV-L)

IPODI Fellows will receive:

- A two-year employment contract including social security and health insurance as well as pension coverage,
- A mobility and a travel allowance,
- A monthly contribution to research costs,
- The opportunity for professional training in career development and research management.

Conditions for application:

- Applicants must have at least two and not more than ten years' of research experience after obtaining their doctoral degree*, in exceptional cases an extension of up to three years is possible,
- Applicants must not have resided or carried out their main activity in Germany for more than 12 months in the three years prior to the call deadline*,
- The research proposal has to be supported by a cooperating professor of the TU Berlin.

Required documents include:

- An innovative and independent research proposal and a time plan demonstrating how the proposed objectives are to be achieved,
 - A letter of motivation detailing career perspectives and motivation to apply for IPODI,
 - A letter of support of a cooperating professor of the TU Berlin and two letters of reference.
- Researchers returning from periods of international mobility, intersectoral mobility or non-academic mobility (e.g. after parental leave) are especially encouraged to apply. Applications have to be submitted in English via the IPODI Application Portal. For further information see www.ipodi.tu-berlin.de via the **Apply** button below or contact the IPODI Office (application@ipodi.de).

Application deadline: January 15, 2014.

IPODI is co-funded by the Marie Curie Programme of the European Union (Co-funding of Regional, National, and International Programmes) and awards a total of 21 fellowships in three internationally open selection rounds.

* See: http://ec.europa.eu/research/fp6/mariecurie-actions/action/level_en.html for the Marie Curie Programme candidate requirements.

#####

Website: <http://www.ecsa-news.org/>

ECSA is a registered charity (reg. no. 264006)

Compiled by: Anita Franco (A.Franco@hull.ac.uk)

Disclaimer: ECSA is not responsible for faults due to incorrectness of info in this newsletter