



ECSA Newsletter, April/May 2013 (No. 15)

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MESSAGES FROM ECSA / ECSA EVENTS

Join the ECSA social media network

Participate within the Estuarine and Coastal Sciences community - join our expanding social media network!

Did you know that ECSA is on Twitter, Facebook and LinkedIn?

Follow us on twitter for the latest news and information and join our facebook group and LinkedIn network to ask questions and participate in our discussions about all aspects of estuaries and coasts.



[@ECSAssociation](https://twitter.com/ECSAssociation)



[ECSA Students – Estuarine and Coastal Sciences Association](#)



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Did you renew your membership for 2013/14?

Subscriptions for 2013/14 were due on 1st April. Did you remember to renew yours? If not, then hurry up, it's not too late!



You can do it easily and quickly - here below are the methods you can use:

- **PayPal** - you can access it directly clicking [here](#) or via the [ECSA website](#);
- **Cheque** - this should be made payable to *Estuarine and Coastal Sciences Association*;
- **Bank Transfer**, or why not setting a **Standing Order**? - For bank details please contact the Membership Treasurer or refer to the membership form available in the [ECSA website](#);
- **Credit Card** (but please see message below from the ECSA treasurer);

Whatever the method you choose, please remember that **new subscription rates** apply this year as per table below:

**Regular
Rates
(from April 2013)**

Category of Membership	Yearly payment by Banker's (Standing) Order only	Yearly payment by all other means
Member	£35	£36
Student member (annual)	£14	£15
Institutional member	£100	£100
Sponsoring member	£250	£250



Student member (3 years)	£30	£30
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Please, address any **enquiry about your membership** to the ECSA Membership Treasurer at the following numbers/address:

Dr Clare Scanlan, SEPA, Inverdee House, Baxter Street, Torry, Aberdeen AB11 9QA, Scotland, UK

Tel: +44 (0)1224 266617 Fax: +44 (0)1224 896657 Email: clare.scanlan@sepa.org.uk

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Payment of subscriptions by credit card

At present members can pay their subscriptions to ECSA by credit card either directly to us or through **PayPal**.

It is proposed to close the direct method of payment in about a month's time, but payment by **PayPal** will still allow members to pay by credit card even if they do not have a **PayPal** account. It should be stressed that anyone can pay by **PayPal** and have it directly debited to their credit card or debit card.

We are doing this for two reasons. Payment by **PayPal** is much more secure as we will not receive any details of the card which you use to make the payment. Secondly, **PayPal** only charge a small percentage of the money actually processed for this service while direct credit card payment requires ECSA to also pay a monthly subscription for the service, additional to any commission charged, even if we do not have a single credit card receipt during the month. We estimate a saving of about £300 a year to result from this change.

At present [payments by PayPal](#) can be made through the [ECSA website](#) for fixed amounts corresponding to the various subscription rates. Shortly instructions will appear on the website for those who may wish to pay other amounts.

Martin Wilkinson, ECSA Treasurer

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Calling all Research Students: Enter the competition for a free registration to ECSA-53 in Shanghai



Don't miss the opportunity to participate to the **ECSA 53 Symposium** in October this year.

And if you are a **Research Student** and you would like to give a presentation at the symposium, then here is another great opportunity offered by ECSA: you may **win a FREE REGISTRATION** to the ECSA53.

ECSA is holding a competition open to all research students who are currently members of the Association. On offer are **5 free registrations for ECSA-53 in Shanghai** to research students who plan to give presentations.

Check the [ECSA website](#) (in the ECSA News page) for terms and conditions and to download the application form.

The **deadline** to send applications is the **31 July 2013**.

The **ECSA 53: Estuaries and coastal areas in times of intense change** is organised in partnership with the State Key Laboratory of Estuarine and Coastal Research (SKLEC) and Elsevier at the East China Normal University in Shanghai, China. Find further details on the conference [here](#).

We are looking forward to seeing you in Shanghai!



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ECSA Special Session at the 8th SedNet Conference (Portugal), November 2013

8th international SedNet conference

‘INNOVATIVE SEDIMENT MANAGEMENT: HOW TO DO MORE WITH LESS’

6-9 November 2013 at LNEC, Lisbon, Portugal

Sediment management has proven to be a significant issue in European rivers, estuaries and coastal areas. This has both a quantity and a quality aspect, as prior SedNet activities have clearly shown.

Human interventions, such as river regulation, dredging, coastal and port construction and soil degradation often have large impacts on sediment supply, sediment transport and river and coastal morphology. Sediment-starved systems, particularly in coastal, lowland areas, are more vulnerable to extreme events, putting people, infrastructure and natural capital at risk. Mitigation measures may be technically feasible, but are quickly becoming too costly.

Sediment and biota in river systems have been exposed to multiple and interacting stressors for decades or even centuries. Europe has responded to the most apparent contaminants and pressures with a range of policies and measures since the 1970s. Clear improvements in water quality can be attributed to integrated river basin action plans and to the Programmes of Measures that resulted from the major and coordinated effort of the Water Framework Directive. However, improvements

in sediment and longer-lived or bottom feeding biota lag behind due to storage and accumulation of contaminants, costly and laborious monitoring techniques, and sometimes lack of sufficient legal integration of sediment management into legislation.

To sustainably manage sediments, innovative and cost-efficient approaches and solutions are needed. Sediment management, which tends to be focused only on the apparent areas of concern, comes with the challenge of avoiding measures which have only short-term and locally positive effects, whilst having unforeseen negative consequences elsewhere.

Against this background SedNet is organising its 8th international conference in Lisbon. Given the tremendous diversity of Europe's southwest coast, Lisbon is a highly appropriate venue for a conference that will pay special attention to estuarine and coastal sediment management.

In conjunction with the SedNet conference, **a special session will be organised by ECSA on 'Changing hydrodynamics of estuaries and tidal river systems'.**

Tidal and fluvial hydrodynamics and the interactions between these flows change in the estuarine environment over a range of time-scales (i) in response to human management interventions, e.g. tidal barrages, weirs, restoration and flood management/storage schemes and (ii) over longer time-scales associated with predicted changes to the frequency and magnitude of coastal storm surges, river discharge extremes and sea level rise. This will have impacts for: sediment (sand and mud) dynamics including the redistribution of contaminated sediment; water quality and the physico-chemical environment; and the ecological status of estuarine, tidal freshwater and lower river systems.

This special session, hosted by speakers from ECSA, will outline current knowledge and tools for understanding and predicting changing hydrodynamics in estuarine systems and explore the implications this may have for contaminant/nutrient cycling and ecological status. This will be followed by a discussion of gaps in knowledge and management implications over short to medium time-scales.

Find more information at the conference website <http://www.sednet.org/conference2013.htm>

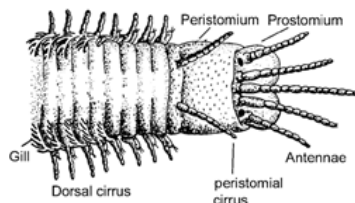
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OTHER FEATURES/EVENTS OF INTEREST

Key to European Eunicids

From: Massimo Ponti
Sent: 16 April 2013 11:41
Subject: Key to European eunicids

Dear Clare



I would like to signal to the members of ECSA that is now online available the combinatory key to the European eunicids Polychaetes. Through the selection and combination of 12 characters, illustrated by figures, you can refine your search and get to discern your specimens among 29 species possible.

http://www.ecology.unibo.it/Polychaete_keys/Eunicidae/eunicidae.htm

Sincerely

Massimo Ponti

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AEHMS 11, June 2013



The 11th international conference of the Aquatic Ecosystem Health and Management Society (AEHMS) is organised this year in collaboration with the University of Victoria, Canada, where the conference will take place from 17 to 20 June 2013.

AEHMS conferences focus on aquatic ecosystems, their health and their management. AEHMS 11 aims to bridge the gap between scientific research, policy debates and public deliberation.

Further information is available on the conference website:

<http://conferences.aehms.org/AEHMS11/>

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12th International Estuarine Biogeochemistry Symposium, June/July 2013



Marine Institute
PLYMOUTH UNIVERSITY



ESTUARINE
BIOGEOCHEMISTRY
WITH
PLYMOUTH
UNIVERSITY

12th International Estuarine Biogeochemistry Symposium (IEBS2013)

Plymouth University, 30th June - 4th July 2013

The theme of the four-day 12th IEBS Symposium is "An Integrated Approach to Estuarine Biogeochemistry". We aim to explore what we know, and what we don't know, about estuarine and coastal biogeochemistry, and evaluate our ability to predict estuarine processes at a time of great natural and man-induced environmental change. Holistic approaches to the biogeochemistry and modelling of estuarine and coastal processes will be addressed, including the controls imposed by physical processes and process-oriented research in biogeochemistry. The Symposium will encompass a wide spectrum of analytes in the estuarine and coastal setting, including metals, radionuclides, organic micropollutants, nutrients and organic carbon, as well as emerging contaminants such as pharmaceuticals and nanoparticles. The Symposium will be of interest to estuarine and marine chemists, geochemists, biologists, ecologists, physicists and modellers, and regulators, policy makers and environmental consultants

Oral or poster presentations will be invited on the following themes:

- Physical processes and their control on biogeochemistry
- Sediment-water interactions
- Biogeochemistry of emerging contaminants
- Processes affecting nutrients and organic carbon
- Biological-chemical interactions in estuaries
- Integrated modelling of estuarine processes
- Processes in tropical and mangrove systems

Further information is available on the conference website: <http://www.iebs2013.org/>

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Summer School on Genomic Tools, July 2013

From: Angel Borja

Sent: 14 March 2013 11:19

Subject: Genomics, DEVOTES and news

Dear colleague,

It is my pleasure to announce you two initiatives from the 7th FP European project DEVOTES (Development of innovative tools for understanding marine biodiversity and assessing good environmental status: www.devotes-project.eu), which I coordinate, for coming months. Both are related to genomics and its use in marine policies, at European and/or global scale.

- The first one is a [summer school](#) which we organize in San Sebastian (Spain), from 15th to 17th July. During the project life it is expected to organize a summer course each year, and we have selected the **genomic topic** for 2013. The course is addressed to PhD students, post-doc students, people working in different fields of marine research and management, etc. Registration will be open on 22nd March. In coming years other DEVOTES topics will be covered. I encourage you to attend these summer courses and enjoy the nice city of San Sebastián, the beaches and, especially, the very good food and drink! Summer is time for relax and here you will relax and learn new things on marine research.
- The second one is a session which we organize at the [Coastal and Estuarine Research Federation \(CERF\)](#) meeting in San Diego (California), from 3rd to 7th November 2013, with the same topic. In this case, you can submit abstracts with your contributions in genomic applications. Registration will be open on 15th March. We will try to make a special issue in a scientific journal. It could be a good opportunity to put together much of the knowledge on genomic applications in marine waters and discuss about the future.

I hope that you will find this interesting and attend one or two of the events. Please, distribute the leaflets to your colleagues and students. If you have any doubt, don't hesitate to contact me.

I apologize for double reception

Regards

Dr Angel Borja

AZTI-Tecnalia

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Download AMBI and M-AMBI: <http://ambi.azti.es/>

Visit on-line:

European Environment Agency (EEA):

<http://www.eea.europa.eu/about-us/governance/scientific-committee/list-of-scientific-committee-members>

Editorial Board: Marine Pollution Bulletin:

www.elsevier.com/wps/find/journaleditorialboard.cws_home/400/editorialboard

Editorial Board: Ecological Indicators

www.elsevier.com/wps/find/journaleditorialboard.cws_home/621241/editorialboard

Editorial Board: Continental Shelf Research

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Editorial Board Ocean & Coastal Management

www.elsevier.com/wps/find/journaleditorialboard.cws_home/405889/editorialboard

Editor: Open Marine Biology Journal www.bentham.org/open/tombj/EBM.htm

Editor: Revista de Investigación Marina www.azti.es/rim/en.html

Associate Editor: Journal of Sea Research

www.elsevier.com/wps/find/journaleditorialboard.cws_home/600318/editorialboard

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Biodiversity 2013, August 2013

2nd International Conference on Biodiversity & Sustainable Energy Development (Biodiversity-2013), August 12–14, 2013 at Raleigh, North Carolina, USA

The conference will be hosted by OMICS Group, the World Class Open Access Publisher and Scientific Events Organizer involved in organizing about 100 International Conferences in 2013.

Biodiversity-2013 is a specially designed cluster conference. The main theme of the conference is "To understand the recent advances in Biodiversity on earth by implying research, education and outreach" which covers a wide range of critically important sessions. Biodiversity-2013 would lay a platform for the interaction between experts around the world and aims in accelerating scientific discoveries.

For more details and submission of abstract see conference website:

<http://www.omicsgroup.com/conferences/biodiversity-sustainable-energy-development-2013/cfa.php>

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INTECOL, August 2013



From 18-23 August 2013, the 11th INTECOL Congress, Ecology: Into the next 100 years will be held in London as part of the centenary celebrations of the British Ecological Society.

The theme of the Congress is advancing ecology and making it count, and will present world class ecological science that will truly move the science forward.

The programme will feature forty three symposia. The programme will also feature dedicated session on a wide variety of ecological topics.

Early Bird Registration Deadline is 12 May 2013.

Further details are available on the conference website: <http://www.intecol2013.org/index.php>

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Ecosystem Based Management using Ecopath with Ecosim Course, September 2013



Ecopath with Ecosim
No fish is an island



Ecosystem Based Management using Ecopath with Ecosim Course

Dates: 3rd – 5th September 2013

Venue: Scottish Association for Marine Science ([SAMS](http://www.sams.ac.uk)), Oban

Recognised by The National Oceanic and Atmospheric Administration (NOAA) as one of the ten most important scientific breakthroughs in the organisation's 200-year history; [Ecopath](http://www.ecopath.org)'s free ecosystem modelling software leads the way in describing the ecological effects of fishing and climate change. This course will give you an understanding of the theory behind the Ecopath with Ecosim software, along with the confidence to construct and interpret basic ecosystem models.

This three-day course is designed for policy makers, ecological or social scientists, people interested in ecosystems and those working in ecosystem based management. It includes:

- An introduction to models used for ecosystem based management of fisheries
- Using Ecopath to address ecological questions
- Modelling the effect of environmental changes with Ecosim
- Evaluating the social and economic consequences of ecosystem based management
- Analysing the impact and placement of marine protected areas using Ecospace

The course is led by [Dr Sheila Heymans](http://www.sams.ac.uk/people/dr-sheila-heyman) who has worked extensively with Ecopath, Ecosim and Ecological Network Analysis. Her research includes the use of these tools for marine planning, as well as ways to combine ecological and social network analysis for ecosystem based management. As a result, the course provides an excellent practical introduction to this topic.

For further information and booking details, please

visit <http://www.sams.ac.uk/education/short-courses/ecosystem-based-management-july>,

email SAMSCourses@sams.ac.uk

or call 01631 559000.

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Coastal Cliffs and Lake Bluffs Symposium, September 2013



Symposium 'Conservation, management and restoration of coastal cliffs and lake bluffs'

The event is based in Llandudno, North Wales, UK and will take place on the 17th and 18th September 2013.

An international symposium exploring the conservation, management and restoration of coastal cliffs and lake bluffs.

Understanding the significance of these areas and their management requirements in the face of human exploitation and the impact of climate change is a major challenge. In order to identify the status, issues and management requirements of these areas a symposium is organised.

For more information see the symposium website <http://www.hope.ac.uk/cliffs/>, or email cliffs@hope.ac.uk



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CoLaCMar 2013, October 2013



XV Latin-American Congress of Marine Sciences

Congreso Latinoamericano de Ciencias del Mar

CoLaCMar 2013

Connecting marine sciences in Latin America

Dates: October 27-31, 2013

Venue: Punta del Este, Uruguay

Details on the event at the conference page:

www.colacmar2013.com

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ISEM 2013, October 2013



The **19th biennial ISEM Conference - Ecological Modelling for Ecosystem Sustainability in the context of Global Change** - will be hosted by Météo France in Toulouse, France, from 28th to 31st October 2013.

We live in a changed and changing world. Never before on Earth has the importance of sustainable development resonated with so many people. Without immediate and effective action, our planet will face unyielding pressure on the environment. The action needs to be guided by a scientific understanding of ecosystem function. Research, especially in Ecological Modelling, is crucial to support the sustainable development paradigm, in which economy, society and environment are integrated and positively reinforcing each other.

The International Society for Ecological Modelling (ISEM) is an important and active research community contributing to this arena. Some progress towards gaining a better understanding of the processes of global change has been achieved, but much more is needed. This conference will provide a forum to present current research using models to investigate our actions to mitigate and adapt to change as well as how to preserve and protect ecosystems and their services.

Abstract submission deadline: May 20th

Further information is available at the conference website:

<http://www.meteo.fr/cic/meetings/2013/ISEM/>

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MEDCOAST13 and EMECS, October/November 2013



GLOBAL CONGRESS on ICM:
LESSONS LEARNED to ADDRESS NEW CHALLENGES
EMECS 10 - MEDCOAST 2013 JOINT CONFERENCE



This Global Congress on Integrated Coastal Management will be the second opportunity for convening as a joint meeting of two major conference series, EMECS and MEDCOAST. The first joint conference that took place in Antalya, Turkey during 9-13 November 1999, was a major success attracting over 500 participants representing 50 countries. It is expected that the Global Congress on Integrated Coastal Management, organized at a corner of the magnificent Aegean Sea, enhanced by the charms of the famous tourist resort town of Marmaris and environs, enjoying the rich culture and warm hospitality for which Turkish people are well-known, will serve as a reference event for the future of ICM. Scientists, experts, managers, planners, policy makers, administrators, resource developers, users and conservationists from all corners of the world, are cordially invited!

Further details are available at the conference website: <https://conference.medcoast.net/>

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CERF 22nd Biennial Conference, November 2013



The Coastal and Estuarine Research Federation 22nd Biennial Conference - CERF 2013
Toward Resilient Coasts and Estuaries, Science for Sustainable Solutions

Dates: November 3-7, 2013

Venue: San Diego Town and Country Resort and Convention Center, San Diego, CA USA

The world's oceans, coasts and estuaries are under increasing pressure from human activities – at the same time that society looks increasingly towards the ocean for resources and inspiration. Pollution, changing hydrographs, changing climate, invasive species, shoreline development, resource extraction, and changing water chemistry negatively impact ecosystems and physical processes, placing at risk the very fabric that supports the diversity of marine life along the coast, and in turn threatening local, national and global ocean economies. Now, more than ever, the role of science in supporting the management of these complex stressors is critical. But often scientists work in isolation from real world problems, or their valuable efforts fail to be effectively transmitted to key decision-makers working in a political sphere. As complex challenges mount, scientists and decision-makers alike need to understand their respective and collective roles in addressing these issues – scientists to be aware where new knowledge is most needed, and managers to be aware of how science can guide decisions.

Abstract submission deadline: June 1, 2013 11:59 pm Eastern Time.

Further details are available at the conference website: <http://www.sgmeet.com/cerf2013/>

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AQUACULTURE 2013, November 2013



Aquaculture Conference: To the Next 40 Years of Sustainable Global Aquaculture

Dates: 3rd - 6th November 2013

Venue: Palacio de Congresos de Canarias, Las Palmas, Gran Canaria

This conference will not only celebrate the last 40 years of outstanding science accomplishments in aquaculture it will identify the top science challenges for the next generation of global aquaculture. The conference will be essential for helping assist in a generational change to new leaders for the next science accomplishments needed to double global aquaculture production. You should attend if you are at the cutting edge of science understanding genetics, diseases, feeds, ecological interactions, and sustainable systems.

Abstract submission deadline: 24th May 2013

For complete meeting details, please visit www.aquaculture-conference.com

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FELLOWSHIPS/JOB POSITIONS/OPPORTUNITIES

PhD on marsh restoration, University of Antwerpen

The University of Antwerpen has a vacancy for a PhD grant in the domain of estuarine geomorphology and ecology:

The **department of Biology** of the Faculty of Sciences has a vacancy for the following **full-time** position (m/f):

PhD grant – Developing tools for design, evaluation and adaptive management of marsh restoration projects

Background:

This research project is carried out within the Ecosystem Management Research Group (ECOBÉ) of the University of Antwerpen. ECOBÉ is involved in both fundamental and applied research on ecological, biogeochemical and geomorphological processes in rivers and estuaries. This project is in collaboration with several Flemish universities within the framework of OMES, a monitoring program that investigates the environmental impact of the Sigma plan, a flood control plan for the Schelde estuary (Belgium).

The Schelde estuary, like many estuaries, faces important challenges regarding protection against inundations by storm surges, maintaining the accessibility to the ports, and meanwhile improving the ecological functioning. In order to comply to environmental legislation such as the EU bird and habitat directive and the EU Water Framework directory, ecological restoration measures are planned and implemented in combination with a flood protection plan (Sigma plan). Within the Sigma plan, flood control areas (FCA) with a controlled reduced tide (CRT) are foreseen. This new FCA-CRT technique was developed by the Universiteit Antwerpen and tested on a pilot scale (10 ha) in Lippenbroek. Now this technique will be implemented soon on a large scale (many 100s ha) in Flanders.

The intensive Lippenbroek monitoring project was set up to follow up the development of the FCA-CRT system, both in terms of physical processes (tidal flow, erosion, sedimentation, geomorphological development) and ecological processes (vegetation development, benthic fauna, avifauna, nutrient exchange,...). The initial transformation of a former polder area into a marsh is well described now. But how will it evolve on a longer term? Can we extrapolate the Lippenbroek results to other sites that are much larger, have different tidal characteristics and different water quality (e.g. salinity)? The OMES project aims at developing tools for the design, the evaluation and adaptive management of FCA-CRTs. It will put a strong emphasis on the ecosystem goods and services delivered by these areas and the sustainable management of it.

The work will consist of fieldwork on the geomorphological and ecological development in specific restoration projects, as well as the analysis of large datasets through modelling. Starting from existing modelling approaches, a model will be developed and evaluated against the datasets in order to simulate the eco-geomorphological development of marsh restoration projects, under the influence of different management scenarios, such as different tidal flooding regimes. Such a model must support decisions for the design of future marsh restoration projects.

Description of the position:

- You prepare a PhD dissertation on the above described subject.

- You publish research results in international scientific journals.
- You work in close collaboration with scientists of the research group ECOBE
- You conduct applied research within the frame of OMES and MONEOS

Your profile:

- You have a Master degree in Bio-Engineering, Geography, Geology or Biology
- Preferentially you have experience or interest in ecology and geomorphology of aquatic or estuarine ecosystems
- Preferentially you have experience or interest in modelling of landscape development (ecology and geomorphology) through the use of spatial models and statistical analysis of datasets
- You have a communicative and enterprising attitude. This is a multidisciplinary project in which information and knowledge has to be combined from different disciplines.

Our offer:

- A fascinating and versatile research and PhD project in a dynamic research group.
- A contract for 1 year, with possible extension with 3 years
- You can start immediately.
- Additional training and education possibilities (e.g. PhD training).
- Regular participation to international conferences.

How can you apply:

- You can apply until **15 May 2013**.
- Send you curriculum vitae en application letter to Prof Dr P. Meire (patrick.meire@ua.ac.be). Describe in your application letter briefly (max. 250 words) your previous knowledge and your motivation.

For more information on the scientific content, you can contact Prof. P. Meire – University of Antwerpen (patrick.meire@ua.ac.be or +32 3265 22 64), Prof. S. Temmerman (Stijn.temmerman@ua.ac.be, +32 3 2652313) or Ir Tom Maris (Tom.maris@ua.ac.be or +32 3 265 2263).

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

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

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