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## MESSAGES FROM ECSA / ECSA EVENTS

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### Season's greetings from ECSA



Warmest wishes to all ECSA Members  
for a joyous holiday  
and a very happy and prosperous New Year.

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### ECSA 56 – 1st Announcement and Call for Papers



We are delighted to announce that ECSA's next major symposium, [ECSA 56 – Coastal systems in transition: From a 'natural' to an 'anthropogenically modified' state](#), will take place from the 4-7 September 2016 in Bremen, Germany.

Humans are drivers of and affected by global change. Human-induced global climate and regional environmental change dramatically modify the structures and functions of coastal systems driving them into a new system state. The altered resource potentials and ecosystem services then, in turn, significantly affect the livelihoods of the population.

Distinguishing between natural and anthropogenic control factors and quantifying their impacts is a major challenge in the investigation of hydrodynamic, sedimentological, biogeochemical, ecological and socioeconomic processes in the coastal zone.

Inter- and transdisciplinary efforts are required to gain a profound understanding of these "novel" systems, which provides the basis for a sustainable management.

**ECSA 56** brings together a global multi-disciplinary community of researchers and professionals to discuss and address these issues of outstanding scientific importance in the science and management of estuaries and coastal seas in this rapidly changing world.

Oral and poster abstracts are invited on the following conference topics and should be submitted using the [online submission system](#)

- Changing physical settings and processes
- Biogeochemical processes and fluxes at the land – sea interface
- Shifting ecosystem structures and functions
- The human dimension: impact, management, governance

**Important dates:**

- **18 March 2016 - Abstract submission deadline**
- **10 June 2016 – Author registration deadline**
- **3 June 2016 - Early Bird registration deadline** (please note that this gives you the chance of getting very advantageous rates compared to standard registration rates you would pay after this date)

Register for [news updates](#) to be kept informed of new developments.

For the complete meeting details including sponsorship opportunities visit [www.estuarinecoastalconference.com](http://www.estuarinecoastalconference.com)

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## **ECSA Local Meeting on Estuarine Restoration, July 2016**

**ANTWERP: 5-9 July 2016**

**ECSA Local Meeting - Estuarine Restoration: from theory to practice and back**

For centuries, estuaries have been impacted by habitat reclamation, pollution, hydrological alterations and dredging among many other human uses leading to a large loss of biodiversity and ecosystem services. It is only recently that estuarine restoration became a hot topic and now many restoration projects are implemented worldwide.

The Schelde estuary situated in the north of Flanders and the south of the Netherlands is a typical example of this development. More than 150.000 ha of intertidal area was reclaimed over the last 1000 years and in the 20<sup>th</sup> century a large part of the estuary was anoxic for most of the year. Major waste water treatment and restoration works have taken place resulting in the improvement of the water quality and the recovery of the estuarine food web. Habitat restoration takes place at a large scale and range from vegetation management to managed retreat. In total more than 4000 ha of natural habitat will be restored. New techniques like flood control areas with controlled reduced tide were developed and implemented. The major project, the Kruibeke Bazel Rupelmonde flood control area, in total some 700 ha, becomes operational at the end of 2015 resulting in more than 300 ha of new tidal marshes

To celebrate this event the University of Antwerp (together with other local partners, universities and institutes) is organising an ECSA Local Meeting on estuarine restoration. The aim of the meeting is to bring together scientists and practitioners from over the world to exchange ideas and discuss the field of estuarine restoration.

Major topics dealt with during the conference are:

1. Setting the objectives of restoration
2. What measure is fit for which objective?
3. Evaluation of restoration measures: are the objectives achieved?
4. Ecosystem services: a driving force for future restoration?
5. Planning for estuarine restoration
6. The role of environmental legislation as a driver for restoration

Restoring hydrodynamics

Restoring morphology

Restoring the pelagic system

Restoring the benthic system

Restoring marshes

Restoring species (birds, fish, species specific projects)

Restoring Biogeochemical functioning of marshes and flats

The conference will bring together both scientists and practitioners and result in new insights in the important field of estuarine restoration and lead to guidelines and concepts for further estuarine restoration projects. The projects along the Schelde estuary will be presented in several lectures and field visits to the most important sites will be organised during and after the conference.

For more information, see <https://www.uantwerpen.be/en/rg/ecobe/> and <http://www.ecsa-news.org/>

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## ECSA 55 – publications, photo gallery and blog



ECSA 55 has been a very successful meeting, with over 300 delegates attending from 36 countries. Thank you to all the participants who made this success possible.

**ECSA 55 Special Issues** (deadline 31<sup>st</sup> December):

**Estuarine, Coastal and Shelf Science:** Understanding physical, chemical and biological processes in a rapidly changing world. Guest Editors: [Sally Little](#); [Geoff Millward](#); [Henk Schuttelaars](#); [Kate Spencer](#)

**Ocean & Coastal Management.** The challenge of developing policies and management strategies under changing baselines and unbounded boundaries. Guest Editors: [Barbara Bischof](#); [Victor de Jonge](#)

**Photo Gallery:**

<https://drive.google.com/folderview?id=0ByzjySBzrFWSNGZwdmJzck1fQzA&usp=sharing>

**Blog:** [http://scitechconnect.elsevier.com/a-look-back-at-ecsa-55/?utm\\_source=socialmedia&utm\\_medium=ees&utm\\_campaign=A%20look%20back%20at%20ECSA%2055&sf13078252=1](http://scitechconnect.elsevier.com/a-look-back-at-ecsa-55/?utm_source=socialmedia&utm_medium=ees&utm_campaign=A%20look%20back%20at%20ECSA%2055&sf13078252=1)

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## ECSA Local Meeting in Le Havre – meeting presentations



The meeting was co-organised by ECSA, Grand Port Maritime du Havre (GPMH) and Grand Port Maritime de Rouen (GPMR)

### Themes:

- Estuarine restoration
- Estuaries and Climate Change
- Sustainable management of estuaries of international importance: reconciling environmental issues with developmental issues.

**Website:** <http://www.colloqueport2000-2015.com/index.php/en/>

**Presentations available from:** <http://www.colloqueport2000-2015.com/index.php/en/symposium-presentations>

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## OTHER FEATURES/EVENTS OF INTEREST

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### News – Tidal energy project linking the south-west of Scotland with Cumbria

Plans have been drawn for building turbines which harness the power of the tide into a crossing from Workington to Kirkcudbright, thus blocking off six major estuaries in NW England, including the Solway Firth.

More information in [Tidal project to link Workington with Kirkcudbright - BBC News](#)

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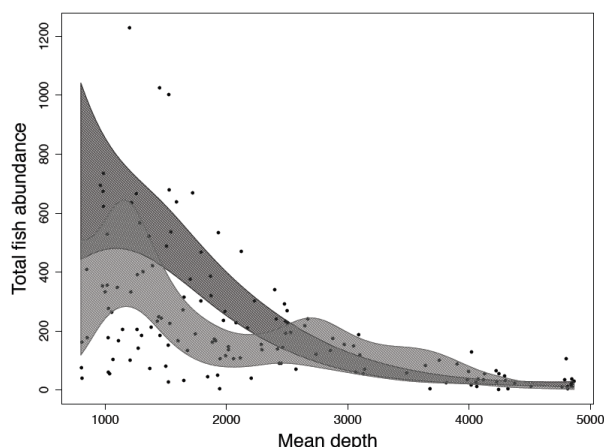
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## Course on Data Exploration, Regression, GLM & GAM with Introduction to R (Feb 2016)

**Lisbon, 8-12 February, 2016**

Hotel Tivoli Oriente, Lisbon, Portugal

A course provided by Highland Statistics Ltd, in cooperation with Dr José Paulo Sousa, Centre for Functional Ecology - CFE, Universidade de Coimbra, Portugal



Commencing with an introduction to R and provide a protocol for data exploration to avoid common statistical problems, discuss how to detect outliers, deal with collinearity and discuss transformations.

An important tool used in statistics is linear regression. Various basic linear regression topics will be explained from a biological point of view. We will discuss potential problems and show how GLM can be used to analyze count data, presence-absence data and proportional data. Sometimes, parametric models (linear

regression, GLM) do not quite fit the data and in such cases GAM (a smoothing technique) can be used.

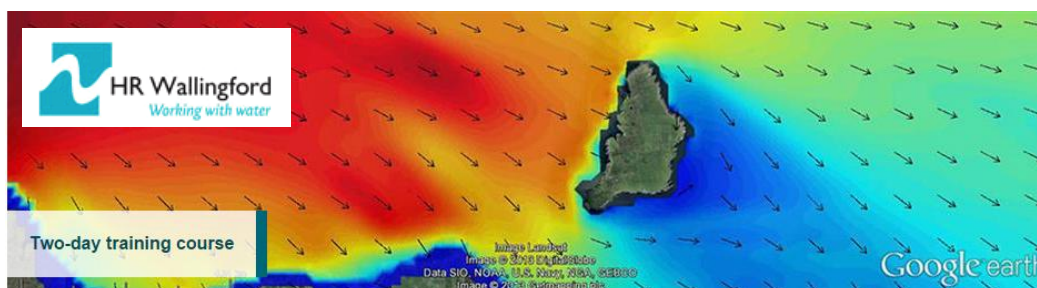
During the course several case studies are presented, in which the statistical theory is integrated with applied analyses in a clear and understandable manner.

Info & registrations: <http://www.highstat.com/CourseReg1.htm>

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## Coast and maritime training courses (Feb-Mar 2016)



HR Wallingford coast and maritime courses are scheduled for February-March 2016 and will be held in their conference facilities at our Howbery Park campus in Wallingford, UK. Registration is now open for these courses and bookings can be made online at <http://events.hrwallingford.co.uk/>

## **WAVES AND WAVE MODELLING USING SWAN**

**Two-day training course: 24-25 February 2016**

**Course Fee: £600 +VAT at 20% (includes all documentation, lunch and refreshments)**

<http://training.hrwallingford.com/training/introduction-to-wave-modelling-using-swan>

This two-day course will provide a summary of the theory related to wave transformation, and then provide a hands-on introduction to setting up and running SWAN, including pre- and post-processing. Example applications of SWAN will also be presented. The course content includes:

- an introduction of concepts (overview of wave transformation modelling);
- the background wave theory relevant to spectral wave transformation modelling;
- the generation of grids;
- model settings and SWAN steering file keywords;
- how to run SWAN;
- model calibration and validation;
- analysis and visualisation of results.

The course is open to students and professionals e.g. coastal engineers from consultants and local government. No previous experience of running computational wave models is required.

## **COASTAL PROCESSES AND MANAGEMENT**

**Two-day training course: 1-2 March 2016**

**Course Fee: £600 +VAT at 20% (includes all documentation, lunch and refreshments)**

<http://training.hrwallingford.com/training/introduction-to-coastal-processes-and-management>

The risk of coastal flooding and erosion, both in the UK and overseas, will increase as existing man-made defences deteriorate and as a result of sea level rise due to climate change. Land close to the sea is often under pressure, both from development and as a natural resource. There are, however, constraints on public spending and a growing awareness of the need to preserve the natural coastal environment and to ensure that its management is sustainable.

It is important to understand the physical processes that have so far shaped and will continue to affect the coastline before contemplating any engineering or management works. These processes include wave generation and propagation, the movements of the tides and the resulting disturbance and transport of sediments both over the seabed and on beaches. Predicting how the coastline will continue to change, with or without man's intervention, is a fundamental requirement for planning its management. This course introduces methods used in designing and planning coastal engineering and management schemes, and includes:

- Coastal management planning - An overview of the history of coastal planning and strategic coastal management.
- Waves and tides - An introduction and requirements for coastal management (extremes and climates).
- Beach sediment transport/ morphology processes.
- Coastal management options - An introduction to type options, appropriate application and assessing the potential effects of such works, for example on the environment.

## **COASTAL STRUCTURES**

**One-day training course: 3 March 2016**

**Course fee: £350 +VAT (includes all documentation, lunch and refreshments)**

<http://training.hrwallingford.com/training/introduction-to-coastal-structures>

The design of coastal structures needs to address many factors to ensure long-term effectiveness and stability. This includes an understanding of wave loads, wave characteristics, engineering design, future climate change and coastal processes. This one-day course introduces the key issues of coastal processes and design methods for coastal structures, including seawalls, breakwaters, vertical walls, piers and jetties. This course will cover:

- An introduction to the key issues in coastal engineering, vulnerabilities of different coastlines (developed and natural), and the key drivers for flooding/erosion threats.
- The effects of encounter probability, climate change, wave forecasting, wave transformations and depth-limited breaking.
- Simple methods to estimate wave loads and how to predict wave overtopping, crest level calculation, and armour size determination.

Further details on the content for each of these courses can be found on our training website or you can contact us at [training@hrwallingford.com](mailto:training@hrwallingford.com).

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## **EUROLAG 7 European Coastal Lagoons Symposium (Mar 2016)**



**European Coastal Lagoons Symposium**  
**1-4 March 2016**  
**Murcia, Spain**

Coastal lagoons and estuaries are unique systems that offer a large number of goods and services. They are highly productive and include important fisheries and aquaculture exploitations, playing an important role in biogeochemical cycles, protecting and promoting the genetic diversity of the species that inhabit or use them as refuge or nursery. They are ideal for water sports, having a high tourist and recreational value, and can also be used as mesocosm for scientific research and educational projects. But, for the same reasons, these environments are exposed to many human pressures that could affect their biodiversity, resilience or even the entire functioning of the ecosystems they represent.

Due to the high degree of heterogeneity and complexity of the hydrodynamic and the ecological processes that are inherent to these ecosystems, new research and experience gained through observation networks need to be strengthened to further develop, preserve and manage their potential.



This symposium seeks to bring together scientists, managers and stakeholders to discuss new scientific findings and experiences on the knowledge and use of coastal lagoons, from cold-fresh-water Baltic lagoons to the warm-hyperhaline lagoons in the Mediterranean.

After the first meeting in Ferrara in 2003, we have met in Klaipeda, Naples, Montpellier, Aveiro and, on the last occasion, in Lecce. Now we invite you to Murcia, where we hope to reach successful outcomes, and where the climate, culture, gastronomy and the friendliness of the people will certainly contribute to making this symposium at least as successful as previous editions.

### **Scope of the 7th EUROLAG**

Scientific papers are hereby invited from Europe and other global regions. Emerging science, interdisciplinary approaches and managing tools based on empirical evidence will be given priority. The symposium seeks to integrate ecological, economic and social aspects of coastal lagoons and transitional waters, and to facilitate interactive scientific, management and policy discussions. Emphasis will be placed on innovative and broadly applicable approaches, including interaction with stakeholders in dealing with multiple management objectives.

### **Scientific themes**

The symposium aims to cover the following topics:

#### **Coastal lagoons evolution and functioning**

- Paleocology and geomorphologic processes
- Hydrographical variability and dynamics
- Biological and ecological processes and interactions
- Spatio-temporal variability of assemblages, life-stages, colonization process and connectivity at multiple scales
- Physiological adaptations to lagoon environments

#### **Assessing coastal lagoon performance and tools for their management and conservation**

- Implementing European Directives and international agreements
- Defining management objectives and criteria
- Red listing of lagoon ecosystems
- Coastal lagoon monitoring strategies
- Implementation of indicators and protocols
- Mapping of habitats, water bodies, species and human activities
- Modelling and forecasting complex systems at multiple spatio-temporal scales.
- Participatory mechanisms in coastal lagoons planning, management and conservation
- Bio-economic models for coastal lagoon management and conservation

#### **Coastal lagoon goods and services: effects on biodiversity, climate and human economy**

- The role of coastal lagoons in biogeochemical cycles and climate change process
- Their role on the genetic structure and biodiversity of marine populations
- Fisheries and aquaculture exploitation
- Tourism, recreation and urban development
- Socio-Economic values and implications- Blue Growth and blue infrastructures

**Integrated management of transitional waters and their surroundings** (promoted by BaltCoast project – [www.baltcoast.net](http://www.baltcoast.net))

#### **Coastal lagoons observation networks**

- Monitoring programs as the basis for long term data recording, management and forecasting
- Future priorities in coastal water and lagoon research

Further info and registration at <http://www.um.es/7eurolag/>

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## 57th Marine Measurement Forum, Wallingford, UK (Mar 2016)



### Marine Measurement Forum 57

An informal exchange of ideas, knowledge, techniques and developments across an extensive range of marine scientific measurement activities.

HR Wallingford hosts the 57<sup>th</sup> Marine Measurement Forum at its Howbery Park site, UK.

This one day event will consist of a series of presentations as well as an opportunity to visit our physical modelling facilities and the UK Ship Simulation Centre.

#### **Date : Thursday 3 March 2016**

Venue: Conference Centre, Howbery Park, Wallingford OX10 8BA

Conference Fee: £35.00 +VAT.

To book your place, please go to <http://training.hrwallingford.com/training/marine-measurement-forum>

Speakers wanted: If you would like to give a presentation (17 minutes with 3 minutes for Q&A), please send a title and short summary (250 words) to [training@hrwallingford.com](mailto:training@hrwallingford.com)  
About the Marine Measurement Forum

The Marine Measurement Forum (MMF) is a series of one-day, non-profit making events that provides opportunities for the informal exchange of ideas, knowledge, techniques and developments across an extensive range of marine scientific measurement activities. Attendees typically include scientists, surveyors, engineers and business people from a variety of organisations including research centres, academia, manufacturers, survey companies, consultants, monitoring authorities, dredging companies, port authorities, oil companies, societies. For more information, visit [www.mmf-uk.org](http://www.mmf-uk.org)

If you would like any further information, please contact [training@hrwallingford.com](mailto:training@hrwallingford.com) or alternatively please phone 01491 822223

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## Coastalzones-2016 conference, Osaka, Japan (May 2016)

The Organizing Committee of “International Conference on Coastal Zones” invites you to participate in the Coastalzones-2016 conference scheduled during May 16-18, 2016 at Osaka, Japan through submission of abstracts for consideration to present (oral / poster) as a Speaker or organizing a workshop at the Conference.

It is an honor for Coastalzone-2016 to welcome the greatest world prodigies in the field who will have an opportunity to debate throughout the Conference on the general theme: “Multidisciplinary approach in achieving equitable development for Coastal zones”.

Workshops like “Planning and governance of estuaries – challenges driven from climate change prospects” organized by Teresa Fidélis (University of Aveiro) and more events by global prodigies. We can ensure the best experience by having your gracious participation with Coastal Zones 2016.

Coastalzones-2016 mainly comprises the marine and coastal studies involved with

- Environmental sciences
- Marine Ecology
- Marine policy
- Oceanography Marine Biology
- Disaster management
- Remote Sensing & GIS
- Coastal Biodiversity
- Marine pollution
- Geology & Geophysics
- Coastal Tourism
- Aquaculture & Algaeculture
- Seismology & Tsunamis
- Meteorology
- Maritime Engineering

Submit your research abstract at the

<http://coastalzonemanagement.conferenceseries.com/abstract-submission.php>

For more information contact:

Loraine Regina.

Coastal Zone -2016

America: 2360 Corporate Circle, Suite 400, and Henderson, NV 89074-7722.

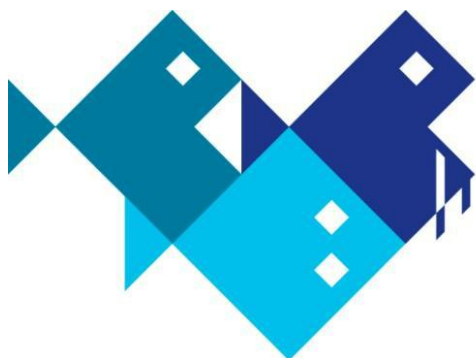
Phone: +1-888-843-8169(or) 1-702-508-5200 Ext:8051

Mail: [coastalzones@conferenceseries.com](mailto:coastalzones@conferenceseries.com) (or) [coastalzones@insightconferences.com](mailto:coastalzones@insightconferences.com)

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## SIBIC 2016 VI Iberian Congress of Ichthyology (Jun 2016)



# SIBIC2016

VI CONGRESO IBÉRICO  
DE ICTIOLOGÍA / MURCIA

**21st to 24th June 2016**  
**Murcia, Spain**

The VI Iberian Congress of Ichthyology, titled 'Ichthyology: dedication to marine fish, freshwater fish and aquaculture', which will be held at the Auditorium and Congress Centre Victor Villegas, in Murcia (Spain) between the 21st and the 24th of June 2016.

SIBIC congresses are celebrated every two years, to address scientific and management challenges related to different aspects of Ichthyology. The forthcoming 6th edition of such Congress specifically aims at creating a meeting point between conservationists, researchers and managers working with marine fishes, freshwater fishes and aquaculture.

Please visit the conference website ([www.um.es/sibic6](http://www.um.es/sibic6)) for further information

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## FELLOWSHIPS/JOB POSITIONS/OPPORTUNITIES

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### Post-doc in marine numerical ecology, SAHFOS, Plymouth, UK



SAHFOS requires a post doc as part of its role in the newly funded OSPAR project aimed at addressing gaps in biodiversity indicator development. OSPAR is working to develop and operationalise ecological indicators for European marine policy; the current round of this effort will

take place as part of an EU-funded project which seeks to apply an ecosystem approach to regional habitat assessments. This project is a continuation of work in OSPAR which has been ongoing for five years. The Post Doc, supervised by SAHFOS, will work closely with the established OSPAR Pelagic Expert Group (chaired by Dr Abigail McQuatters-Gollop at Plymouth University MarCoPol), acting as an added resource.

Essential requirements for the post:

- Matlab and/or R programming skills
- Knowledge of the handling of large datasets
- Knowledge of marine ecology
- Preferable to have knowledge of the Marine Strategy Framework Directive
- Willing to travel to meetings in Europe
- Self motivated
- Excellent communication skills
- Publication record and a clear desire to commit to publications resulting from this position.

Deadline for applications on **14 January 2016**.

For more information please see: <http://www.sahfos.ac.uk/about-us/vacancies/post-doctoral-ra-in-marine-numerical-ecology.aspx>

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## **ECI and IRPE Prize - Call for nominations 2016 in Marine Ecology**

### **Nominations for ECI and IRPE Prize Winners**

Since 1986, the International Ecology Institute in Oldendorf/Luhe, Germany (Founder Prof. Dr Otto Kinne) has selected each year two top performers in the field of ecology: the winner of the Ecology Institute (ECI) Prize (which carries an endowment of €6000) and the winner of the International Recognition of Professional Excellence (IRPE) Prize (which carries an endowment of €3000).

The Prize Winners are selected by a jury consisting of 7 distinguished ecologists, chosen by the Institute's director. The prizes are awarded in annual sequence to marine, terrestrial or freshwater ecologists distinguished by outstanding and sustained scientific achievements. The Ecology Institute prize both honours the recipient and requires him or her to serve science and society by authoring a book published in the series "Excellence in Ecology" and made available worldwide on a non-profit basis. The expectation is that the text and figures of the book will be submitted within three years of the award of the prize. The books present the personal experiences, insights and visions of their authors. They should criticize freely, and courageously formulate new scientific concepts. EE books are often donated to libraries in developing countries.

Ecology Institute prize winners, their major achievements and their EE book titles are listed under ECI Prize Winners. International Recognition of Professional Excellence prize winners and their major achievements are listed under IRPE Prize. The aims of the International Ecology Institute are summarized at International Ecology Institute.

### **Call for nominations 2016 in Marine Ecology**

Nominations are invited from research ecologists worldwide. Candidates must be in agreement with the nomination, and with the attached requirement (for the ECI Prize) to write a book. Nominations should include a brief statement why, in the opinion of the nominator, the nominee qualifies for the prize, as well as the candidate's CV, publication list, and a short outline of the book that the candidate would wish to write if successful, with an expected completion date.

Nominations and accompanying documents should be sent to the Director of the Ecology Institute, Professor Brian Moss [brmoss@liverpool.ac.uk](mailto:brmoss@liverpool.ac.uk) by **March 15, 2016**

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

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