

# INTECOL - Bulletin

## International Association for Ecology

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## Call for Bids "XII International Congress of Ecology 2017"

The INTECOL Board is seeking offers to host the XII International Congress of Ecology, which are usually held every four years. The last congress was held in Brisbane, Australia in 2009, and the XI Congress will be held in London, United Kingdom, 18-23 August 2013. The Board is seeking bids that should be sent by e-mail to the Secretary General of INTECOL, Professor Eun-Shik Kim (kimeuns@kookmin.ac.kr). These should arrive not later than 31 January 2013.

The bids should contain the following information:

- (a) the proposed venue and its convenience for international travel;
- (b) the infrastructure that will convene up to 2,500 participants and, in particular, to house plenary lectures and concurrent oral and poster sessions;
- (c) the availability of hotel and hostel accommodation with appropriate price ranges to include student participants;
- (d) recent experience organizing large meetings, and experience with INTECOL;
- (e) the evidence that the proposal is supported by, or comes from, a national ecological society;
- (f) the estimated cost per person for providing the conference venue, projection facilities, poster boards, conference programme, book of abstracts, and any projected staffing costs based on up to 2,500 participants;
- (g) the potential for obtaining sponsorship from exhibitors, partners, and others to share costs;
- (h) the proposed structure of the local organizing committee and financial arrangements;
- (i) proposed potential date(s) and theme(s) for the congress;
- (j) any other information which may be useful to the Board in considering the bid.

The bids will be considered by the Board during early 2013 with a view to making a decision, possibly involving further discussions with bidders, in April 2013.



## INTECOL Wetlands Conference Resolutions

### *9th INTECOL International Wetlands Conference*

4-11 June 2012, Orlando, Florida, USA

The INTECOL Working Group closed the 9th INTECOL International Wetlands Conference with a discussion of four resolutions sponsored by meeting attendees. About 1250 participants from 43 countries attended this conference entitled “Wetlands in a Complex World”. The estimated 300 people at the closing meeting voted to approve these resolutions:

Wetlands and Climate Change  
Oil Sands Mining in Wetlands  
Sustainable Use and Protection of Brazilian Wetlands  
Statement of Professional Involvement.

The approval of these resolutions are statements of the views of the individuals present and may, or may not, represent the views of their employers. The sponsors and voters are to be commended for participating in the open discussion of consequential ideas, and their efforts to develop professionalism, and to make this a better world.

R. Eugene Turner  
Chair, INTECOL Wetlands Working Group  
A Board member of INTECOL

### *1. Wetlands and Climate Change*

#### **Sponsors:**

Scott Bridgham, University of Oregon  
Patrick Magonigal, Smithsonian Environmental Center

Whereas climate is changing due to human activities;  
Whereas climate change is altering temperature, hydrologic cycles, and sea level which are fundamental influences on wetland processes and define their very existence;  
Whereas the importance of wetlands is widely recognized for the goods and services they provide to humans and as hotspots of global biodiversity;  
Whereas many people around the world depend on

wetlands for subsistence;  
Whereas wetlands are a major global carbon reservoir and are significant sources and sinks of greenhouse gases;  
Whereas human activities continue to drastically impact wetland carbon cycles, greenhouse gas emissions, ecosystem goods and services, subsistence values, and biodiversity,  
Be it resolved by the attendees of the 9th INTECOL International Wetlands Conference, Society of



Wetland Scientists Annual Meeting, and the Greater Everglades Ecosystem Restoration Conference that:

- 1) significantly more resources and research should be devoted to adaptation planning in wetlands to preserve their societal benefits,
- 2) significantly more resources and research should be devoted to adaptation planning to preserve wetland biodiversity and habitat quality for wildlife and fisheries,
- 3) wetlands should be preserved to maintain their carbon pools, with particular attention given to carbon-rich systems including northern peatlands, tropical peatlands, mangroves, tidal marshes, tidal forests,, and sea grass beds,
- 4) drained carbon-rich wetlands should be restored to diminish further loss of their carbon pools and reestablish carbon sequestration processes,
- 5) further research is needed on the effects of climate change on the functioning of wetlands in order to inform global climate models, management planning and carbon trading policy,
- 6) further research is needed on the feedbacks of natural, disturbed, and managed wetlands on climate.

## *2. Oil Sands Mining in Wetlands*

### **Sponsors:**

Suzanne Bayley, University of Alberta, Canada

Sylvie de Blois, McGill University, Canada

Irena Creed, University of Western Ontario, Canada

Whereas, wetland scientists are committed to objective scientific data and to science-based decision-making for the long term sustainability of both humans and our natural surroundings;

Whereas, wetlands of the boreal forest, especially peatlands, provide valuable and irreplaceable ecological services, including the provision of significant global carbon storage;

Whereas, Canadian boreal forests and wetlands are in the North American flyway and provide a significant fraction of breeding habitat for migratory birds;

Whereas, Canadian boreal wetlands are being destroyed at an unprecedented scale by open pit mining for oil sands;

Whereas, processes to extract bitumen from oil sands result in loss of thousands of hectares of peatlands and a complete change in land cover including creation of open pit toxic waste tailings storage;

Whereas, agreements between mine operators and the

Alberta government suggest that freshwater boreal peatlands destroyed by open pit mining will be replaced by upland forest, tailings storage lakes, and saline marshes;

Whereas, current oil sands operations are permitted to remove the equivalent of the water needs of a city of 3 million people, and that the rate of these removals are expected to increase over the next 50 years;

Whereas, there are no wetland compensation policies for peatlands in the oil sands region and reclamation of the mined landscape will not commence for at least 30 years after the initiation of mining activities, such that the boreal forest will be losing substantial wetlands for decades to come;

Therefore be it resolved:

That the global scientific community become engaged in supporting and developing the most rigorous science-based assessments to evaluate the full

consequences of oil sands extraction on the integrity of boreal wetlands and the ecosystem services they provide;

That such assessments include a full and complete carbon balance accounting;

That such assessments consider and quantify the ecosystem services permanently lost;

That such assessments explicitly address differing time scales of benefits to economies and costs to

ecosystem services at local to global scales;

That such assessments explicitly address the cumulative impacts of oil sands extraction, both within Canada and on boreal landscapes world-wide; and,

That progressive reclamation of boreal landscapes and associated wetlands be instituted immediately, even as mining activities are ongoing.

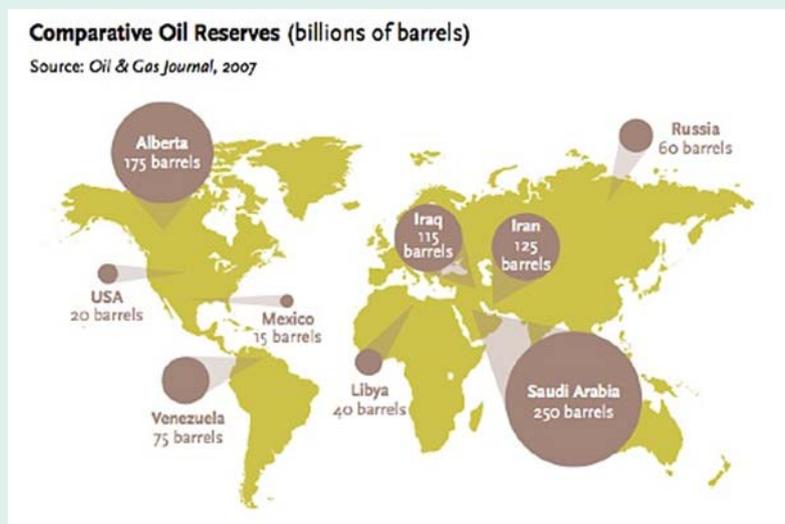


Figure 1. Alberta addresses oil sands' gigantic footprint (John Lorinc 2009)



Figure 2. Destinations of Alberta's oil sands to North American markets (Canadian Association of Petroleum Producers 2012)



### ***3. Sustainable Use and Protection of Brazilian Wetlands***

**Sponsors:**

Wolfgang Junk, Paulo Teixeira de Souza Jr., Catia Nunes da Cunha,  
Maria Teresa Fernandez Piedade, Florian Wittmann,  
Jochen Schöngart, AngeloAntonio Agostinho, Claudia Costa Bonecker,  
Horácio Ferreira Júlio Junior

Whereas, wetlands cover about 20% of Brazil;

Whereas, climate change is altering temperature, hydrologic cycles, and sea level, which are fundamental influences on wetland processes, and may even define their existence;

Whereas, the importance of wetlands is widely recognized for the goods and services they provide to humans, and as hot spots of global biodiversity;

Whereas, many people in Brazil depend on wetlands for subsistence and water supply;

Whereas, Brazilian agriculture and industrial development is quickly expanding, and directly and indirectly affecting large areas of formerly

intact wetlands;

Be it resolved by the attendees of the 9th INTECOL International Wetland Conference, the Society of Wetland Scientists Annual Meeting, and the Greater Everglades Ecosystem Restoration Conference that:

- 1) wetlands should be included as specific ecosystems in the Brazilian laws and regulations;
- 2) projects should be designed and supported to include wetland inventories and classification;
- 3) wetlands should be given particular attention in the ongoing discussion about ecosystem management and protection.

### ***4. Statement of Professional Involvement***

**Sponsors:**

Martin Willison, Dalhousie University

Whereas, wetlands in all their diversity are threatened throughout the world and face many common threats;

Whereas, there are concerned scientists and local communities throughout the world who lack some of the necessary knowledge or tools to address these threats;

Whereas, there is growing knowledge and experience to address these threats among developing and developed countries to secure the ecological functions and services of wetlands;

Be it resolved, that

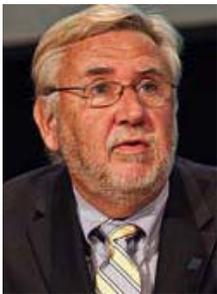
The attendees of this meeting will continue to support international exchange of wetland scientists, will continue to encourage governments and other capable agencies to facilitate the conservation and restoration of wetlands founded on best science and practice, and will encourage and facilitate opportunities to share and communicate data, information, knowledge and lessons learned regarding wetlands not only through the published media, but also through conferences, workshops, symposia, forums, meetings and other types of mass gatherings.



## A Letter from the Conference Chair of EcoSummit



4<sup>TH</sup> INTERNATIONAL ECOSUMMIT  
**ECOLOGICAL SUSTAINABILITY**  
RESTORING THE PLANET'S ECOSYSTEM SERVICES



William J. Mitsch  
*Conference Chair  
EcoSummit 2012*

Dear Colleagues,

There is a buzz about EcoSummit 2012 wherever I go around the world.

I have heard about it in Denmark, China, Mexico, Estonia, Sweden, The Netherlands, Czech Republic, Brazil and many states in the USA during my travels for the last 20 months.

I have heard it discussed as one of the best assemblages of ecologists that will ever meet in the world. It has been described as an ecological scientific meeting that will make a difference and as an epic meeting among ESA, INTECOL, and Society of Ecological Restoration International (SER). It has been called a vanguard moment for our preeminent plenary speakers like E.O. Wilson and Jared Diamond, as a memorial to the work of the recently deceased Nobel Prize winner Elinor Ostrom, as a summary of the global contributions of H.T. Odum in ecological economics, engineering, and modeling, and energy futures, and as a 50th anniversary event of Rachel Carson's landmark book *Silent Spring*.

It will be all of these things and more.

We expect 1500 to 1600 delegates from 75 countries to come to Columbus, Ohio, USA, for EcoSummit 2012 on September 30 - October 5 to hear 10 plenary

presentations from the world's premier ecologists and environmental scientists and practitioners, and 600 invited presentations in 65 symposia from around the world, and to participate in 21 forums and workshops on practical issues related to improving our environment. In addition, there are another 850 general sessions and poster presentations during EcoSummit 2012.

There are 6 pre-conference field trips based in Atlanta, New York, Washington DC, Miami, Chicago, and Columbus that will educate an estimated 100 international delegates about some to the large ecosystem restorations in the USA. Most delegates will take part in one of the 33 all-day mid-conference field trips that radiate throughout Ohio.

But the conference is about its content. It will focus on prescriptions for solving the world's environmental problems far more than on descriptions. Symposia and lectures will involve ecological engineering, ecological restoration, green infrastructure, the prosperous way down, adapting to climate change, earth stewardship, ecohydrology, eco-informatics, ecological modeling, sustainable agriculture, protecting biodiversity, carbon sequestration, human ecology, and enhancing ecosystem services.

And the grand ecosystems of the world that will be discussed! The Mesopotamian Marshlands of southern Iraq, the Florida Everglades, the Louisiana Delta, the Yangtze River in China, the Amazon and Pantanal of Brazil, the Laurentian Great Lakes of North America, the Baltic Sea in Europe, and the Hackensack Meadows and Delaware Bay of northeastern USA. And lest we forget it, E.O. Wilson's lecture and two of our pre-conference field trips will feature the Appalachian Mountain ecosystems that are at Columbus' doorstep-a 1.9 million square kilometer of recovering and virtually



intact deciduous forests and streams that have been described by E.O. Wilson as "America's treasure house of biodiversity."

So come to Columbus in late September!  
We are looking forward to meeting those of you who

have already registered as delegates to our edge of Appalachia in central Ohio USA and we encourage anyone reading this who is interested in saving the planet to plan to come too. It is easy to register on the web page [www.ecosummit2012.org](http://www.ecosummit2012.org) It is not too late!

Best regards,

William J. Mitsch, Ph.D.  
*Chair, EcoSummit 2012*

Distinguished Professor of Environment and Natural Resources  
Professor of Environmental Science and Ecological Engineering  
Director, Olentangy River Wetland Research Park  
Editor-in-Chief, Ecological Engineering  
Stockholm Water Prize Laureate  
The Ohio State University, Columbus, USA

EcoSummit 2012 is co-hosted by The Ohio State University, the Mid-Ohio Regional Planning Commission, the Ecological Society of America (ESA), The International Association for Ecology (INTECOL), and the Society for Ecological Restoration International (SER).





## Meetings and Congresses



### 1. INTECOL 2013 Third announcement

18-23 August 2013 - ExCel Centre, London, UK

#### Introduction

*Ecology: Into the next 100 years* is a major international ecological meeting that combines the 11th INTECOL Congress with the British Ecological Society's (BES) centenary celebrations. The theme of the Congress - *advancing ecology and making it count* reflects the world class ecology to be presented at the meeting.

#### Programme

##### Plenary speakers

- **Tim Clutton-Brock**, University of Cambridge, UK: Behavioural ecology;
- **Joel Cohen**, Rockefeller University, USA: Human microbe interactions;
- **Sandra Diaz**, Córdoba National University, Argentina: Functional role of biodiversity;
- **Nancy Grimm**, Arizona State University: Urban ecosystems and ecology;
- **Ilkka Hanski**, University of Helsinki, Finland: Spatial ecology;
- **Ove Hoegh-Guldberg**, University of Queensland, Australia: Ocean acidification;
- **Georgina Mace**, Imperial College London, UK : Biodiversity and conservation;
- **Martin Nowak**, Harvard University: Evolution of cooperation and eusociality;
- **Susan Trumbore**, Max Planck Institute for Biogeochemistry, Germany: Global carbon cycle in the context of environmental change.

**Symposia** will present the best and most current ecological science by researchers from across the world. Topics include new perspectives on classic theories, soil biodiversity, ecosystem services, macroecology, plant biodiversity and competition, urban ecology,

insect pollinators, marine biodiversity, forest restoration, the implications of ecological research for society, agricultural sustainability, climate change, evolutionary changes, light pollution, citizen science and landscape resilience.

##### Notable speakers include:

- **Robert May** from the University of Oxford on The ethical, aesthetic and practical values of basic research in ecology;
- **Robert E Ricklefs** from the University of Missouri on The dynamic nature of species within archipelagos;
- **Christian Körner**, University of Basel, Genetic limitations of climate change tracking in long lived plants;
- **Georgiana May**, University of Minnesota, Evolution of host/microbe interactions in forest ecosystems;
- **Claire Kremen** from the University of California on Global trends in pollinator conservation and links with society;
- **Richard Cowling** at the Nelson Mandela Metropolitan University, RSA on A widening research-implementation gap constrains successes of bioregional planning programmes in South Africa.

**Workshops** will showcase and introduce the most important and timely methods, applications, communications and technology associated with ecological science. Active participation will be encouraged with the opportunity to learn, discuss and communicate.

There will also be an invitation for submitted abstracts in late summer 2012 and a host of other training and networking events.



For a full list of symposia and a programme outline please visit [intecol2013.org](http://intecol2013.org).

### Location and accommodation

The ICC at ExCel is a state of the art, sustainable, modern conference venue in the heart of London's historic docklands. Transport links are excellent with a travel time of 25 minutes into central London.

There will be a wide range of accommodation, bookable with registration, from budget accommodation in university halls of residence to 3-5 star hotels. Special conference rates have been negotiated for delegates.

### Registration and abstract submission

Registration and abstract submission will open in late summer 2012, [intecol2013.org](http://intecol2013.org).

Registration fees have been kept as low as possible to allow participants to enjoy world class science, learn about new innovations through workshops, listen to prestigious plenary speakers and form new collaborations.

### Social and accompanying persons programme

There will be a wide range of social events for participants including a welcome mixer, British Ecological Society centenary birthday party and informal networking social events.

Pre-congress tours to places of ecological interest will be bookable with registration. There will also be a programme of day visits for accompanying persons and an on site crèche. The conference organisers are also working with a tour organiser for delegates to book tours of the UK to extend their stay.

### James Parkyn Bursaries

Dr Parkyn's kind legacy to the British Ecological Society will fund bursaries of up to £750 for students from developing countries to attend the meeting. Bursaries of up to £300 will also be available for other students. Full details can be found at [britishecologicalsociety.org/grants](http://britishecologicalsociety.org/grants).

### Key dates

September 2012	Registration and abstract submission opens
March 2013	Abstract submission closes
April 2013	Early bird registration closes

### Delegate fees

Early bird member of BES & INTECOL	£330 + VAT
Early bird non member	£481 + VAT
Early bird student	£180 + VAT

For further information please go to [intecol2013.org](http://intecol2013.org).

British Ecological Society  
Charles Darwin House  
12 Roger Street, London, WC1N 2JU

**Email:** [intecol@britishecologicalsociety.org](mailto:intecol@britishecologicalsociety.org)



British Ecological Society





## INTECOL Symposia speaker distribution

### *A critical study of biodiversity studies*

Organiser - Christopher Lortie, York University, Canada  
Organiser - Nathan Sanders, University of Tennessee, USA  
Organiser - Jens-Christian Svenning, Aarhus University, Denmark

### *Altitudinal patterns of biodiversity in a rapidly changing world: time for synthesis*

Organiser - Vojtech Novotny, Academy of Sciences of the Czech Republic/ Czech Ecological Society

### *Applying ecological science to increase agricultural yield and sustainability*

Organiser - Jacob Weiner, University of Copenhagen, Denmark  
Chair - Louis Assémat, INRA, UMR Biologie et Gestion Adventices, France

### *Applying the newest synthesis to understand how fast populations will respond to climate change*

Chair - Yngvild Vindenes, University of Oslo, Norway  
Co-organiser - Martijn de Pol, Australian National University

### *Biodiversity, ecosystem services and multifunctional landscapes*

Organiser - Jan Bengtsson, Swedish University of Agricultural Sciences  
Co-organiser - Lars Gamfeldt, University of Gothenburg, Sweden

### *Biological invasions: how to reconcile science, management and policy*

Organiser - Peter Pyšek, Academy of Sciences of the Czech Republic/ Czech Ecological Society

### *Climate change and African mountain ecosystems: modelling ecological change at different scales*

Organiser - Christine B Schmitt, Albert Ludwigs Universität, Germany  
Chair - Neil Burgess, University of Copenhagen, Denmark

### *Community ecology for infectious diseases*

Organiser - Jo Lello, Cardiff University, UK  
Chair - Mike Begon, University of Liverpool, UK

### *Eco evolutionary dynamics and the contemporary convergence of ecology and evolution*

Organiser - Richard P Shefferson, University of Georgia, USA  
Co-organiser - Rob Salguero - Gómez, Max Planck Institute for Demographic Research, Germany

### *Ecological consequences of evolutionary changes*

Organiser - Patrick Bergeron, Université de Sherbrooke, Canada  
Co-organiser - Dany Garant, Université de Sherbrooke, Canada  
Co-organiser - Fanie Pelletier, Université de Sherbrooke, Canada

### *Ecological research and public policy in southern mega diverse countries: lessons from successes and setbacks*

Organiser - Thomas M Lewinsohn - Brazilian Association for Ecological Science and Conservation

### *Ecosystem services contributing to poverty alleviation*

Organiser - Georgina Mace, Imperial College, London, UK  
Co-Organiser - Caroline Howe, Imperial College, London, UK



***Emphasising the importance of basic science in ecology***

Organiser - Michael E Hochberg, Université de Montpellier, France

Co-organiser - Etienne Danchin, Université Paul Sabatier, France

Frank Courchamp, Université Paris Sud, France

***Evolution in ecological communities - how evolutionary processes shape ecological communities and communities determine the direction on evolutionary change***

Organiser - Jennifer Rowntree, University of York, UK

Co-organiser - Jordi Moya-Laraño, CSIC, Spain

***Evolutionary management: sustainable food, health and biodiversity for the next 100 years***

Organiser - Peter Sjøgaard Jorgensen- University of Copenhagen, Denmark

Co-organiser - Scott Carroll, University of California, USA

***Forest resilience, tipping points and global change processes***

Organiser - Christopher Reyer - Potsdam Institute for Climate Impact Research, Germany

Co-organiser - Niels Brouwers, Murdoch University, Australia

Co-organiser - Anja Rammig, Potsdam Institute for Climate Impact Research, Germany

***Global change and ecosystem ecology: beyond the study of nutrient cycling***

Organiser - Diana Wall, Colorado State University, USA

Co-organiser - Alan K. Knapp, Colorado State University, USA

***Global change and multispecies systems: from understanding to prediction***

Organiser - Guy Woodward- Queen Mary, UK

Chair - Eoin O’Gorman, University of London, UK

Chair - Lee Brown, University of Leeds, UK

Chair - Bjorn Rall, University of Göttingen, Germany

***Grassland multifunction under economic high speed development times***

Organiser - Nan Zhibao, Lanzhou University, China

Co-organiser - Hou Fujiang, Lanzhou University, China

***How can we transform predictive ecology to better meet scientific and societal demands?***

Organiser - Matthew Smith - Microsoft Research, UK

Co-organiser - Dylan Z Childs, University of Sheffield, UK

Co-organiser - Attila N Lazar, University of Reading, UK

Co-organiser - Rick Stafford, LIRANS Institute of Research in the Applied Natural Sciences, UK

***Integrative island biogeography: new perspectives on a classic theory***

Organiser - Ana MC Santos - Universidade de Lisboa, Portugal

Co-organiser - Richard Field, University of Nottingham, UK

Alan Gray, NERC Centre for Ecology and Hydrology, UK

***International perspectives from long term research on ecosystem carbon budgets***

Organiser & chair - Tiffany Troxler, Florida International University, USA

Organiser - Guanghui Lin, Institute for Global Change Studies, China



***Island biocultural diversity and traditional ecological knowledge***

Organiser - Sun-Kee Hong - Mokpo National University, Korea  
Co-Organiser - Gloria Pungetti - University of Cambridge, UK  
Co-Organiser - Hiroyuki Matsuda - Yokohama National University, Japan  
Endorsement - East Asian Federation of Ecological Societies

***Light pollution in an urbanised world: ecological and evolutionary consequences***

Organiser & chair - Marcel Visser, Netherlands Institute of Ecology  
Co-organiser - Jesko Partecke, Max Planck Institute for Ornithology, Germany  
Co-organiser - Kamiel Spoelstra, Netherlands Institute of Ecology

***Long term urban ecological studies: linking pattern, process and ecosystem services towards sustainable cities***

Organiser - Zhiyun Ouyang, Research Center for Eco Environmental Services CAS, China  
Co-organiser - Steward Pickett, Cary Institute of Ecosystem Studies, , USA

***Maintaining top predator populations in the 22nd century: ecological channels and opportunities***

Organiser - Philip Riordan- University of Oxford, UK  
Co-organiser - Claudio Sillero, University of Oxford, UK  
Co-organiser - Amy Dickman, University of Oxford, UK  
Co-organiser - Andrew Loveridge, University of Oxford, UK

***Mechanisms of plant competition***

Organiser - David Robinson, University of Aberdeen, UK  
Co-organiser - Rob Brooker, James Hutton Institute, UK  
Co-organiser - Claire Trinder, University of Aberdeen, UK

***Multilevel transmission processes in disease transmission: blending models and data***

Organiser - Mike Boots, University of Exeter, UK  
Co-organiser - Ken Wilson, University of Lancaster, UK  
Co-organiser - Stephanie Godfrey, Murdoch University, Australia

***Natural forest succession in the tropics - lessons and implications for tropical forest restoration***

Organiser - Daisy Dent, University of Stirling, UK  
Chair - Simon Queenborough, Ohio State University, USA

***New insights from new methods in ecology and evolution***

Organiser - Rob Freckleton, University of Sheffield, UK

***Phenology and climate change: perspectives from ecosystems across the International Long Term Ecological Research Network (ILTER)***

Organiser - Jianwu Tang- Marine Biological Laboratory, USA  
Chair - Kristen Vanderbilt, University of New Mexico, USA

***Plant functional ecology and vegetation modelling in a new data rich world***

Organiser - Jens Kattge, Max Planck Institute for Biogeochemistry, Germany  
Chair - Sandra Lavorel, CNRS, France  
Co-organiser - Sandra Díaz, Universidad de Cordoba, Argentina  
Co-organiser - Franziska Schrodte, University of Minnesota, USA



Co-organiser - Cornelia Krug, DIVERSITAS & Université Paris Sud, France

***Plant invasion success: trait based analyses and prediction***

Organiser - Ming Dong, Institute of Botany, Chinese Academy of Sciences

Co-organiser - Wei-Ming He, Institute of Botany, Chinese Academy of Sciences

***Predicting and protecting marine biodiversity and ecosystem in a high CO<sub>2</sub> world***

Organiser - Stephen Widdicombe, Plymouth Marine Laboratory, UK

Chair - Jean Pierre Gattuso, CNRS- UPMC, France

Co-organiser - James P Barry, Monterey Bay Aquarium Research Institute, USA

***Putting applied ecology into practice: knowledge and needs for the 21<sup>st</sup> century***

Organiser - Philip Hulme, Lincoln University, New Zealand

Co-organiser - EJ Milner-Gulland, Imperial College, UK

***Reinvigorating macroecology with process based approaches***

Organiser - Sally Keith, James Cook University, Australia

Co-organiser – Sean R Connolly, James Cook University, Australia

***Soil biodiversity and ecosystem function: recent advancement and new challenges***

Organiser - Richard Bardgett, University of Lancaster, UK

Co-organiser – Wim van der Putten, Netherlands Institute for Ecology

***The effects of large scale manipulations of tropical forests on arthropod assemblages***

Organiser - Yves Basset, University of South Bohemia, Czech Republic

Co-organiser - Tom Fayle, University of South Bohemia, Czech Republic

***The Forest Microbiome: how microbes shape the structure and function of forest ecosystems in a changing world***

Organiser - Jenny Talbot - University of Minnesota, USA

Co-organiser - Emma J Sayer, Centre for Ecology and Hydrology, UK

***The future of ecological possibilities in citizen science***

Jennifer Shirk - Cornell University, USA

Co-organiser – Jonathan Silvertown, the Open University

***The tree of life in ecosystems: evolution of plant effects on carbon and nutrient cycling***

Organiser - Johannes Cornelissen, VU University Amsterdam, Netherlands

Co-organiser - William K Cornwell, VU University Amsterdam, Netherlands

***Threats to an ecosystem service: evaluating multifactorial pressures on insect pollinators***

Organiser - Adam J Vanbergen, NERC Centre for Ecology and Hydrology

Co-organiser - Simon G Potts, University of Reading, UK

Matt S Heard, NERC Centre for Ecology and Hydrology

***Tools to enhance landscape resilience to human impact***

Organiser - Andrzej Kedziora, Polish Academy of Sciences

Co-organiser - Andrzej Mizgajski, Adam Mickiewicz University, Poland



## ***2. International Workshop on Arctic Marine Ecosystems and Research Efforts Coordination***

14-16 November 2012, Plouzané, France  
Arctic Days 2012

The European Institute for Marine Studies (IUEM, France) organizes a workshop about Arctic marine ecology and ecosystem functioning, November 14th to 16th 2012 in Plouzané: Arctic Days 2012 (Journées De l'Arctique 2012).

The French government recently stated the importance of making Arctic research a priority (i.e. [http://media.enseignementsup-recherche.gouv.fr/file/2008/53/9/rapport\\_final\\_39539.pdf](http://media.enseignementsup-recherche.gouv.fr/file/2008/53/9/rapport_final_39539.pdf)). In this context, the French CNRS (National Scientific Research Center) has encouraged researchers to develop new research projects and to collect long term data sets in the framework of Arctic observatories. The Arctic Days 2012 aims therefore to facilitate exchanges between French and foreign scientists already experts in Arctic research and establish reliable collaborations.

This workshop focuses on two objectives:

- To establish the state of the art and current research challenges. In this context, the conference is part of the Master "Marine Biological Sciences" program of the IUEM

- To allow researchers involved in the study of the Arctic marine environment to interact with French and international researchers in order to develop partnerships around identified emerging issues.

During the mornings, national and international invited speakers will give an overview of their research topics and will present their new findings. These presentations will be open to all interested scientists, and master students will attend in the framework of their mandatory classes. The first afternoon will gather master students and senior scientists in order to facilitate exchanges based on different scientific and non-scientific topics such as international collaborations, outreach, funding, logistics... The following afternoon and morning will be dedicated to discussions about on-going projects and observatories, as well as future research.

Deadline for registration: 31 Oct. 2012

Deadline for submission: 5 Oct. 2012

Visit homepage: <http://jda2012.sciencesconf.org/>





## Obituary Notice: Professor F. Herbert Bormann

Members of INTECOL will have been saddened to learn the death of Professor F. Herbert Bormann, an Honorary Member of INTECOL, which occurred on 7th June 2012. He was 90 years old.

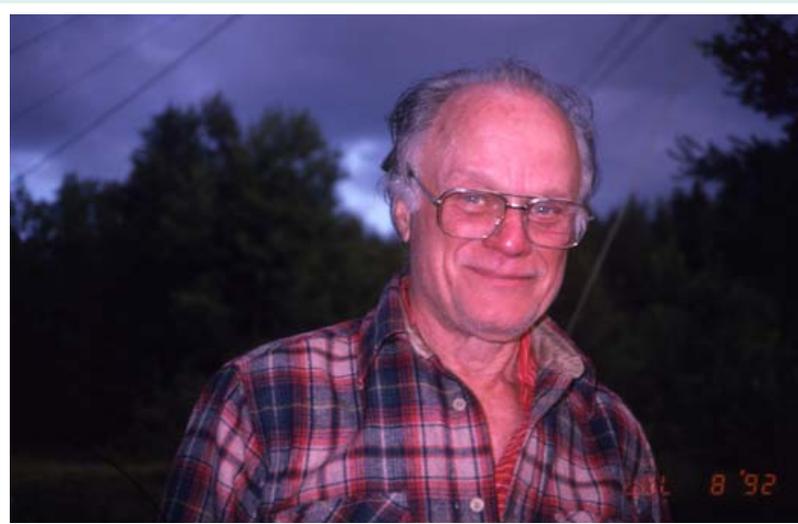
Since 1966 Professor Bormann taught courses about ecosystems, land use, and tropical ecology at Yale University, USA as the Oastler Professor of Forest Ecology until his retirement in 1992. After his retirement, he was the Oastler Professor Emeritus of Forest Ecology and senior research scientist at Yale.

Since 1963, as a professor at Dartmouth College, USA, Dr. Bormann established the Hubbard Brook Ecosystem Study at the Hubbard Brook Experimental Forest in central New Hampshire to study effects of disturbance on small watersheds within forest ecosystems. This research was conducted with Gene Likens and Noye Johnson, both of whom were then at Dartmouth College, and Robert Pierce of the US Forest Service. This study on the functioning of forest ecosystems made the Hubbard Brook Ecosystem Study an international scientific model.

In early 1970s, Drs. Bormann and Likens discovered that precipitation in rain and snow at Hubbard Brook Experimental Forest was increasingly acidic as also occurred in Europe. They published their research in Science in 1974, "Acid Rain: A Serious Regional

Environmental Problem," showing that acid rain was a widespread problem in the Northeast US. Their results ultimately aided US Congress in writing the Clean Air Act.

Professor Bormann wrote more than 200 articles and wrote, helped write, or edited eight books. He was elected to the US National Academy of Sciences at age 49 and was also elected to the American Academy of Arts and Sciences in 1972. Professor Bormann served the Ecological Society of America as president in 1970-71. From Yale University, in April 2012, he received Aldo Leopold Award, which had been awarded only once previously in the history of Yale. In the Award Ceremony, Dean Sir Peter Crane of Yale School of Forestry & Environmental Studies recognized him as an individual whose exceptional contributions in the protection of the environment, in the stewardship of 'the land' as Leopold envisioned it, as well as in environmental ethics and ecology serve as a model to others and inspiration for future generations. Professor Bormann was awarded the Tyler Prize for Environmental Achievement, International St. Francis Prize for the Environment, National Wildlife Foundation's National Conservation Achievement Award in Science, Ecological Society of America's Eminent Ecologist Award, and Asahi Glass Foundation's Blue Planet Prize, among many.



Professor Herb Bormann at his home located at the place overlooking at the Hubbard Brook Experimental Forest in New Hampshire (Eun-Shik Kim photo taken in July 8, 1992).



Professor Herb Bormann playing baseball with students at a field near Hubbard Brook Experimental Forest at age 70 (Eun-Shik Kim photo taken in July 7, 1992).



President John Lee awarding the Honorary Memberships to Drs. Herb Bormann and Gene Likens at the IX International Congress of Ecology in Montreal in 2005 (Rebecca R. Sharitz photo).

Recognized by his eminent achievements for the advancement of the science of ecology and for his service to society, Professor Bormann was elected an Honorary Member of INTECOL at the Montreal International Congresses of Ecology in 2005.

Professor Bormann was a great researcher, teacher, mentor, friend, and supporter of ecologists. He is survived by his wife of nearly 60 years Mary Christine

Williamson Bormann; four children; and six grandchildren. As well as being a distinguished scientist, Herb Bormann was a generous and kindly man who is sadly missed by his many INTECOL friends, not least by the Officers and Board.

Eun-Shik Kim (Secretary General, INTECOL)  
Alan Covich (President, INTECOL)



## INTECOL, International Association for Ecology

INTECOL is affiliated with the ICSU family of scientific organizations as the section responsible for general ecology within the International Union of Biological Sciences (IUBS). The association will assist and/or support the development of the science of ecology and the application of ecological principles to global problems, especially by assisting international cooperation; the collection, evaluation and distribution of information about ecology; national, regional and international actions which will serve ecological research, training of personal, coordination of general publications of ecological principles and the recognition of the importance of ecology for economy and society; the organization of conferences, meetings, symposia, programs and projects, conduct of speaking-series, publication of manuscripts, and measures which are deemed necessary to reach the goals of the association.

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Vol. 6 No. 4: 30 November 2012