



## Water Lives: new scientific horizons for biodiversity and water policy

A SCIENCE POLICY SYMPOSIUM for Freshwater Life

Brussels, 29-30 January 2014

Royal Belgian Institute of Natural Sciences (RBINS) - Museum of Natural Sciences  
Rue Vautier 29 - 1000 Brussels

### Day 1 – Wednesday, 29 January 2014

Programme	
10:00	Registration and coffee
<b>Opening session</b> <b>Chair:</b> Martin Kernan ( <i>University College London - UCL</i> )	
10:30	<b>Societal challenges in managing freshwater ecosystems</b> Klement Tockner ( <i>Leibniz-Institute of Freshwater Ecology and Inland Fisheries - IGB</i> )
10:45	<b>Science and Policy: acting together to address societal challenges</b> Birgit de Boissezon ( <i>European Commission, DG RTD</i> )
<b>Session 1: Key Notes: Challenges from different perspectives</b> <b>Chair:</b> Martin Kernan ( <i>University College London - UCL</i> )	
11:00	<b>Scientists and managers: the best of times and the worst of times</b> Brian Moss ( <i>University of Liverpool</i> )
11:30	<b>Reporting flows: informing ecological and conservation status</b> Hans Bruyninckx ( <i>European Environmental Agency - EEA</i> )
12:00	Questions & Discussion
12:30 – 13:30	<b>Lunch</b>
<b>Session 2: Future visions for Freshwater Ecosystems (Inputs and moderated discussion)</b> <b>Chair/Moderator:</b> Paul Jepson ( <i>University of Oxford</i> )	
13:30 – 15:30	<b>How to deal with multiple stressors to freshwater biodiversity in the future</b> Daniel Hering ( <i>University Duisburg-Essen</i> ) <b>Discussion:</b> What are the implications of these findings for policy?  <b>Research infra-structures: the case for integrating freshwater biodiversity data</b> Aaike De Wever ( <i>Royal Belgian Institute of Natural Sciences (RBINS) - Museum of Natural Sciences</i> ) <b>Discussion:</b> How do we ensure maximize the relevance and uptake of biodiversity datasets for policy?  <b>Freshwater Key Biodiversity Areas as a critical tool in the conservation of freshwater biodiversity: application to strengthen the Natura 2000 network</b> William Darwall ( <i>IUCN</i> ) <b>Discussion:</b> What are the next steps to ensure freshwater KBAs are better accounted for within the Natura 2000 network?



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Programme	
	<p><b>Impacts of climate change and land use on freshwater ecosystems</b> Piet Verdonchot (<i>Alterra Research Institute</i>) <b>Discussion:</b> Is the Water Framework Directive prepared for global change?</p> <p><b>Integrated catchment modelling as a tool for managing freshwaters under global change</b> Andrew Wade (<i>University of Reading</i>) <b>Discussion:</b> Freshwater ecosystem change: can we predict the future?</p> <p><b>The role of agri-environmental measures in achieving WFD compliance</b> Demetris Psaltopoulos (<i>University of Patras</i>) <b>Discussion:</b> How can we better integrate policy to protect freshwaters?</p>
15:30 – 16:00	<b>Coffee break</b>
<b>Session 3: Science- Policy Café</b> <b>Chair:</b> Martin Kernan ( <i>University College London - UCL</i> )	
16:00 – 17:30	<p><b>Science-Policy Dialogues:</b></p> <ol style="list-style-type: none"> <li><b>1) Arguing for conservation and ecological status – how far brings us the ecosystem service approach?</b> Moderator: Timo Kaphengst (<i>Ecologic Institute</i>); Scientist: Isabell Durance (<i>Cardiff University</i>); Policy maker: Patrick Murphy (<i>European Commission, DG ENV</i>)</li> <li><b>2) Does the food-water-energy-nexus provide the basis for integrating different policies to protect freshwaters?</b></li> <li><b>3) Do we use the knowledge generated by EU projects efficiently and meaningfully for the implementation of environmental policies?</b> Moderator: Ana Cristina Cardoso (<i>European Commission, DG JRC</i>); Scientist: Josef Settele (<i>Helmholtz Centre for Environmental Research - UFZ</i>); Policy Maker: Adrian Peres (<i>European Commission, DG RTD</i>)</li> <li><b>4) Launch of the Global Freshwater Biodiversity Atlas</b> Moderator: Astrid Schmidt-Kloiber (BOKU - University of Natural Resources &amp; Life Sciences)</li> <li><b>5) Poster session</b></li> </ol>
17:30	<p><b>Wine reception</b> Speech: Richard Seeber (<i>MEP, President of the European Parliament Water Group</i>)</p>
20:00	<b>End of Day 1</b>



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### Day 2 – Thursday, 30 January 2014

Programme		
9:00	<b>Wrap up from the first day and introduction to programme of 2nd</b> Klement Tockner ( <i>Leibniz-Institute of Freshwater Ecology and Inland Fisheries - IGB</i> )	
9:30	<b>Session 4a: Making the WFD fit for future: Integrating climate and land use change in the WFD</b> Chair: Martin Kernan ( <i>University College London - UCL</i> )  Intro: Peter Gammeltoft ( <i>European Commission, DG ENV</i> )  Inputs: <b>How to reach the goals of the Water Framework Directive? The role of time and riparian land use (WISER-project)</b> By Daniel Hering ( <i>University Duisburg-Essen</i> ) Stakeholder reply by Roger Owen ( <i>Head of Ecology at Scottish Environment Protection Agency</i> )  <b>Restoration under global change (REFORM-project)</b> By Harm Duel ( <i>Deltares</i> ) Stakeholder reply by Jenny Mant ( <i>River Restoration Centre, UK</i> )	<b>Session 4b: Meeting EU 2020 Biodiversity Strategy targets for freshwater life</b> Chair: Klement Tockner ( <i>IGB</i> )  Intro: Francois Wakenhut ( <i>European Commission, DG ENV</i> )  Inputs: <b>The role of freshwater Key Biodiversity Areas and the Natura 2000 network: designing an optimal network to address gaps in protection, now and under climate change (BioFresh-project)</b> By William Darwall ( <i>IUCN</i> )  <b>Setting priorities in conservation and restoration in the Mediterranean Biodiversity Hotspot (BioFresh-project)</b> By Jörg Freyhof ( <i>Leibniz-Institute of Freshwater Ecology and Inland Fisheries - IGB</i> ) Stakeholder reply by Maria Stoumboudi ( <i>Hellenic Centre for Marine Research</i> )
10:30 – 11:00	<b>Coffee Break</b>	
11:00	<b>Session 4a: Making the WFD fit for future: Integrating climate and land use change in the WFD (continued)</b>  <b>Guiding principles for management of freshwaters (recommendations for RBMPs) (REFRESH-project)</b> By Peeter Nõges ( <i>Estonian University of Life Sciences</i> ) Stakeholder reply by Geoff Phillips ( <i>Environment Agency UK</i> )	<b>Session 4b: Meeting EU 2020 Biodiversity Strategy targets for freshwater life (continued)</b>  <b>New strategies to fight invasive alien species in freshwater ecosystems (EASIN-project)</b> By Ana Cardoso ( <i>European Commission, DG JRC</i> ) Stakeholder reply by Patrick Murphy ( <i>European Commission, DG ENV</i> )



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Programme		
	<p><b>Can we still use the reference condition to underpin the WFD?</b> (REFRESH-project) By Richard Johnson (<i>Swedish University of Agricultural Sciences</i>) Stakeholder reply by Jorge Rodriguez Romero (<i>European Commission, DG ENV Water</i>)</p> <p><b>Discussion</b></p>	<p><b>From Nutrient Limitation to Recreation: putting Ecology into Ecosystem Service Mapping</b> (OPENNESS-project) By Laurence Carvalho (<i>Centre for Ecology &amp; Hydrology UK</i>) Stakeholder reply by Anne Teller (<i>European Commission, DG ENV Biodiversity</i>)</p> <p><b>Discussion</b></p>
12:30 – 13:30	<b>Lunch</b>	
13:30	<b>Session 5: Synergies between the WFD and the Biodiversity Strategy and cross-cutting issues</b>	
	<p><i>Report back from Chairs of session 4a and 4b (15 minutes each)</i> Chair: Klement Tockner (<i>IGB</i>) &amp; Martin Kernan (<i>UCL</i>)</p>	
14:00	<p><b>Panel discussion on main findings and possible synergies between biodiversity and water policy</b> Moderator: Paul Jepson (<i>University of Oxford</i>) Panelists:</p> <ul style="list-style-type: none"> <li>▪ Francois Wakenhut (<i>European Commission, DG ENV</i>)</li> <li>▪ Peter Gammeltoft (<i>European Commission DG ENV</i>)</li> <li>▪ Horst Korn (<i>EPBRS/Federal Agency for Nature Conservation</i>)</li> <li>▪ Ana Cristina Cardoso (<i>European Commission, DG JRC</i>)</li> <li>▪ Maria Stoumboudi (<i>Hellenic Centre for Marine Research</i>)</li> </ul>	
15:30 – 16:00	<b>Final Coffee</b>	
16:00	<b>End of Symposium</b>	