



**VALUING
NATURE**

Valuing Nature Annual Conference 2018

13 & 14 November 2018

National Museum Cardiff Cathays Park Cardiff CF10 3NP



#ValNat18

Welcome...

...to the Valuing Nature Annual Conference 2018!

Conference places for 2018 were snapped up in just a few weeks, showing the huge interest in:

- Sharing research findings and experience of applying Valuing Nature approaches in practice
- Participating in discussions with people with diverse perspectives to help find common ground
- Contributing to development of the future Valuing Nature agenda in the UK and internationally.

We are delighted to be hosted this year by the National Museum of Wales in Cardiff. The museum brings together world class art, natural history, geology, and social, cultural and industrial history. This reflects our ambition to bring together researchers from the very different worlds of arts, humanities, sciences, economics and social sciences, to consider the big questions in Valuing Nature and their application in policy, business and in practice. I hope you will have a chance to visit the museum collections while you are here, and perhaps join one of our “Behind the Scenes” tours.

We are also pleased to welcome our Keynote Speaker, Prof Ian Hodge, to stimulate our thinking with his presentation “The value of nature and the nature of values – revisiting the principles”.

Over lunches you can meet representatives from the seven projects funded under the Valuing Nature Programme at their project stands, and various presentations from these interdisciplinary projects appear throughout the conference programme. As a reminder the projects are as follows.

Human Health & Wellbeing

- CoastWEB: Valuing the contribution which COASTal habitats make to human health & WELLBeing
- IWUN - Improving Wellbeing through Urban Nature
- GHIA - Green Infrastructure to Promote Health and Wellbeing in an Ageing Population
- WetlandLIFE - managing mosquitos and the socio-ecological value of wetlands for wellbeing

Tipping Points

- Identifying potential tipping points in the benefits derived from the UK's land ecosystems
- Understanding ecosystem stocks and tipping points in UK blanket peatlands
- TPAL - Mechanisms and consequences of tipping points in lowland agricultural landscapes

The poster session is sponsored by the British Ecological Society who are promoting their new journal *People and Nature* – please come and see their stand at the poster session & lunch break on day 1.

The final session of the conference is a look ahead, to beyond the current programme which runs until March 2020. We will be considering where this whole area should go next, and would value your thoughts, either directly during the final session, or on the feedback form.

Please do share your own experience and participate in the conversations throughout the conference, we also invite you to join in on Twitter #ValNat2018.

Finally, thanks again to the funders and to everyone who has helped with organising, delivering and participating in this genuinely community driven conference.

Anita Weatherby – Centre for Ecology & Hydrology

On behalf of the Valuing Nature Programme Coordination Team: Rosie Hails, Val Woods, Guy Duke, Jonathan Porter, Ece Ozdemiroglu, Rob Fish, Charles Godfray and Michael Winter.

The Valuing Nature Programme is a 5 year £7M research programme which aims to improve understanding of the value of nature both in economic and non-economic terms, and improve the use of these valuations in decision making. It funds interdisciplinary research and builds links between researchers and people who make decisions that affect nature in business, policy-making and in practice. The Valuing Nature Programme is funded by the Natural Environment Research Council, the Economic and Social Research Council, the Biotechnology and Biological Sciences Research Council, the Arts and Humanities Research Council, and the Department for Environment, Food and Rural Affairs.

Day 1 - Tuesday 13 November

11:30	Registration opens	
12:00	Lunch	Oriel Restaurant
13:15	Session A	Reardon Smith Theatre
13:15	Welcome to the Valuing Nature Annual Conference 2018	
13:20	Welcome from the National Museum of Wales	
13:25	News from the Valuing Nature Programme	
13:45	Keynote Speaker: Ian Hodge	
14:45	Navigating the Conference	
15:00	Tea / Coffee	Oriel Restaurant
15:30	Session B	<i>Please choose one of the four parallel sessions</i>
	B1: Applying Nature Based Solutions	Reardon Smith Theatre
	B2: Global Challenges and Valuing Nature	Oriel Suite
	B3: Agricultural Land Use Post Brexit	Court Room
	B4: Valuation Tools and Approaches in Practice	Clore Discovery Centre
17:00	Close	
17:30	Art Gallery Lock In / Leave the Museum / Tours <i>(for those pre-booked on tours at 17:30 or 18:00)</i>	
18:30	Poster Session	Grand Hall
19:30	Networking Dinner <i>(cash bar)</i>	Grand Hall

Day 2 - Wednesday 14 November

09:00	Doors Open	Oriel Restaurant
09:15	Session C	<i>Please choose one of the four parallel sessions</i>
	C1: Valuing Nature for Marine & Coastal Decisions	Reardon Smith Theatre
	C2: Demystifying Health & Health Metrics	Oriel Suite
	C3: Valuing the Arts in Valuing Nature - Part 1	Court Room
	C4: Informing Decisions	Clore Discovery Centre
10:45	Tea / Coffee	Oriel Restaurant
11:15	Session D	<i>Please choose one of the four parallel sessions</i>
	D1: Investing in Natural Capital	Reardon Smith Theatre
	D2: Green & Blue Spaces for Health & Wellbeing	Oriel Suite
	D3: Valuing the Arts in Valuing Nature - Part 2	Court Room
	D4: Public and Shared Values for Nature	Clore Discovery Centre
12:45	Lunch	Oriel Restaurant
14:00	Session E	Reardon Smith Theatre
	Valuing Nature: What works & where next?	
15:00	Close and Refreshments	Oriel Restaurant

Day 1 - Tuesday 13 November

11:30	Registration opens	
12:00	Lunch	Oriel Restaurant
13:15	Session A	Reardon Smith Theatre
13:15	Welcome to the Valuing Nature Annual Conference 2018 <i>Rosie Hails, National Trust - Valuing Nature Programme Coordination Team</i>	
13:20	Welcome from the National Museum of Wales <i>Richard Bevins, National Museum of Wales</i>	
13:25	News from the Valuing Nature Programme <i>Rosie Hails, National Trust - Valuing Nature Programme Coordination Team</i>	
13:45	Keynote Speaker: The value of nature and the nature of values – revisiting the principles <i>Ian Hodge, University of Cambridge</i> <p>Professor Ian Hodge's research and teaching is primarily in the areas of rural governance, land and environmental management and agricultural and environmental policy. His current research is focussing on agri-environment mechanisms, property institutions and neoliberalism, and largescale conservation initiatives.</p> <p>He is currently Professor of Rural Economy in the Department of Land Economy. He has a background in agricultural economics and rural planning and previously worked at the Universities of Newcastle upon Tyne and Queensland before coming to Cambridge in 1983. He is a Fellow of the Royal Institution of Chartered Surveyors and past President of the Agricultural Economics Society.</p>	
14:45	Navigating the Conference <i>Rosie Hails, National Trust - Valuing Nature Programme Coordination Team</i>	
15:00	Tea / Coffee	Oriel Restaurant

B1: Applying Nature Based Solutions**Reardon Smith Theatre**

Presentations and discussion exploring how the concept of nature-based solutions is being applied in research and practice in the UK and internationally to tackle societal challenges.

Chair: Jonathan Porter, Countryside – Valuing Nature Programme Coordination Team

Surveying views on Natural Flood Management: implications for flood risk management & research

Rosalind Bark, University of East Anglia

Valuing green infrastructure in London: the role of local government, business, developers & third sector / environmental communities in funding green space

Ian Mell, University of Manchester – Valuing Nature Placement Holder

Mainstreaming Green Infrastructure in the English Planning System: A policy perspective

Alister Scott, Northumbria University – NERC Green Infrastructure Knowledge Exchange Fellow

Valuation of urban Nature Based Solutions: application of benefit transfer method & lessons learnt

Marija Bockarjova, Utrecht University

B2: Global Challenges and Valuing Nature**Oriel Suite**

An exploratory conversation about the contribution a Valuing Nature perspective can make to the Global Challenges Agenda, including presentations and a panel discussion. The session will include the launch of a new Valuing Nature Report 'Global Challenges and the Valuing Nature Agenda: Joining the Dots' and a presentation from Kate Schreckenberg, Director of the Ecosystem Services and Poverty Alleviation (ESPA) programme.

Global Challenges and the Valuing Nature Agenda: Joining the Dots

Rob Fish, University of Kent – Valuing Nature Programme Coordination Team

Global Challenges and Valuing Nature - Reflections from the Ecosystem Services & Poverty Alleviation Programme

Kate Schreckenberg, Kings College London

B3: Agricultural Land Use Post Brexit**Court Room**

From modelling exercises and scenario building to advocacy and policy proposals: post Brexit land use is not suffering from an attention deficit. But what do we really know about the likely balance and intensity of land use as the impact of CAP diminishes? This session will explore the possibilities and potentialities for a post-CAP agriculture.

Chair: Michael Winter, University of Exeter – Valuing Nature Programme Coordination Team

The emerging context for domestic agricultural policy post Brexit

Rob Cooke, Natural England

TPAL Tipping points in lowland agricultural landscapes: A case study from Dorset

Stephen Watson, Bournemouth University - Valuing Nature TPAL Project

Hefted to Hill: Art as process in revealing the unheeded values of upland farming which deliver for nature & society

Ewan Allinson, Northern Heartlands

Farming food, growing nature post Brexit – a view from Wales

Andrew Tuddenham, National Trust

B4: Valuation Tools and Approaches in Practice

Clare Discovery Centre

Short presentations from members of the Valuing Nature Network

Chair: Ece Ozdemiroglu, eftec – Valuing Nature Programme Coordination Team

Simple tools for assessing the value of nature

Alison Smith, University of Oxford

Wildlife and ecology on canals: How to evaluate 'environmental assets'

Robert O'Connor, Canal and River Trust

How a 'Natural Capital Approach' is improving England's forests

Miranda Winram, Forest Enterprise

Valuing Abiotic Nature

Murray Gray, Queen Mary University of London

Shaping the future of economic valuation for environmental management

Steve Arnold, Environment Agency

Soil Natural Capital – valuation needs for sustainable management in agribusiness

Victoria Janes-Bassett, Lancaster University - Valuing Nature Natural Capital Report Author

17:00 Close

The Grand Hall needs to be rearranged for our evening sessions, so we must ask delegates to leave this area between 17:30 and 18:30. You have three options:

- (i) Join our “Art Gallery Lock-In” – make your way to the Modern & Impressionist Galleries upstairs where knowledgeable museum staff will be available to answer any questions
- (ii) Leave the museum – please come back for the poster session and dinner
- (iii) Join an escorted tour – only for those already signed up for tours at 17:30 or 18:00 – details below - meet at the main door of the Modern & Impressionist Galleries upstairs

If you have a poster please put it up at 17:00 in the Grand Hall.

Places are limited to those who have signed up in advance.
Please meet at the main door of the Modern & Impressionist Galleries upstairs.



Tour 1: Molluscs, Mammon, and Millionaires

Ben Rowson

Molluscs have been collected, exploited, and battled against throughout history. We explain the many ways in which we make use of one of the UK's most important natural history collections.

This tour will be repeated at 18:00 as Tour 5.

Tour 2: Fossils for Wellbeing

Cindy Howells

Fossils in museum collections can be used to inspire people of all ages and backgrounds with their fascinating stories of past times and environments. The ability to hold something that lived hundreds of millions of years ago offers an unforgettable and uplifting experience.

This tour will be repeated at 18:00 as Tour 6.



Tour 3: Plants for health, sustenance, craft and industry

Poppy Nicol and Heather Pardoe

A tour of the economic botany collection and the herbarium of the National Museum Wales, examining how the collections can further societal understanding and valuing of biodiversity and promote well-being.



18:00 Behind the Scenes Tours – Part 2

Grand Hall

Places are limited to those who have signed up in advance.

Please go to the “Art Gallery Lock-In” at 17:30 & meet at the main doors to the Modern & Impressionist Galleries at 18:00.

Tour 4: Where art meets science; the role of the botanical artist to record newly discovered plants

Heather Pardoe

Over the last 250 years botanical artists have played a crucial part in recording exotic new plants found in remote regions of the world. The superb collection of botanical illustrations held by National Museum Wales illustrates how new species were made accessible to British plant enthusiasts and those seeking new sources of raw materials.



Tour 5: Repeat of Tour 1 above

Tour 6: Repeat of Tour 2 above

18:30 Poster Session

Grand Hall

Poster titles and lead authors are listed on the following page

If you have a poster please put it up at 17:00 in the Grand Hall

The poster session is sponsored by the British Ecological Society who are promoting their new journal People and Nature.

To find out more visit their stand at the poster session and over lunch breaks.

**PEOPLE
AND
NATURE**
A journal of relational thinking

Led by Editor-in-Chief Kevin Gaston and Lead Editors Kai Chan, Robert Fish, Rosemary Hails, and Cecily Maller, *People and Nature* is a broad-scope open access journal publishing work from across research areas exploring relationships between humans and nature. We encourage conceptual and empirical approaches to answer interesting questions within this scope. Qualitative, quantitative and mixed methodologies are all welcome. *People and Nature* fosters innovation and experimentation and particularly encourages submissions that stimulate debate.

19:30 Networking Dinner*

Grand Hall

Welcome from Ece Ozdemiroglu – eftec, Valuing Nature Programme Coordination Team

*cash bar

Posters

1. **Deflecting visitor disturbance from high-value wildlife sites**
Liz Allinson, University of Southampton
2. **The community structure and distribution of benthic foraminifera in the saltmarshes of Y Foryd Nature Reserve, Menai Strait, Wales**
Mariann Biro, University of Chester
3. **7 days with Generation Z: Increasing Nature Connection**
Francesca Boyd, University of Sheffield – Valuing Nature IWUN project
4. **A community-led approach to wetland and peatland conservation in Ireland**
Kate Flood, National University of Ireland, Galway
5. **Getting Smarter with Nature**
Mike Grace, Birmingham City University
6. **Analysing biophysical and economic trade-offs in management decision-making between Ecosystem services, Biodiversity conservation, and Commodity production in Peruvian Amazon National Reserve under future land use scenarios**
Diego Hopkins, Imperial College London
7. **The relationship between values and environmental commitment**
Camila Horst Toigo, University of Brighton - Valuing Nature WetlandLIFE project
8. **Greening the grey - integrated green grey infrastructure innovations**
Hugh Kippen, University of Glasgow
9. **Applying the ecosystem approach to collaborative land use and management in the Pentland Hills Regional Park**
Neville Makan, Scottish Natural Heritage
10. **Sponge 2020: Co-creating a climate resilient Somerset**
Jo Neville, Westcountry Rivers Trust
11. **A practical tool for assessing pollination services at a site level**
Fabrizia Ratto, University of Southampton
12. **What is Natural Capital?**
Hazel Trenbirth, Office for National Statistics
13. **The role of nature in cancer patient experience: findings from an arts for health enquiry**
Sofia Vougioukalou, Cardiff University
14. **Identifying and quantifying the gaps in coastal sediment valuation: a case study of inter-tidal fisheries**
Gordon Watson, University of Portsmouth
15. **The effect of different richness level of nature exposure for health promotion**
Hsiaopu Yeh, Independent

Posters from Natural Capital Synthesis Report Authors

16. **Soil, Cities and Sustainability**
Jess Davies, Lancaster University
17. **The Natural Capital of floodplains as a function of land use**
Emma Rothero, Open University
18. **The Natural Capital of temporary rivers: Characterising the value of dynamic aquatic terrestrial habitats**
Rachel Stubbington, Nottingham Trent University

Posters from Valuing Nature Projects

19. **CoastWEB** - Valuing the contribution which COASTal habitats make to human health & WELLBeing
 20. **IWUN** - Improving Wellbeing through Urban Nature
 21. **GHIA** - Green Infrastructure to Promote Health and Wellbeing in an Ageing Population
 22. **WetlandLIFE** - managing mosquitos and the socio-ecological value of wetlands for wellbeing
 23. Identifying potential tipping points in the benefits derived from the **UK's land ecosystems**
 24. Understanding ecosystem stocks and tipping points in **UK blanket peatlands**
 25. **TPAL** - Mechanisms and consequences of tipping points in lowland agricultural landscapes
-

Day 2 - Wednesday 14 November

09:00 **Doors Open**

09:15 **Session C**

Please choose one of the four parallel sessions

C1: Valuing Nature for Marine & Coastal Decisions

Reardon Smith Theatre

Bringing together new research findings, insight into the changing policy landscape and lessons from practical projects that recognise the huge public interest in marine and coastal environments.

Jonathan Porter, Countryside – Valuing Nature Programme Coordination Team

Exploring intangible values associated with saltmarshes & their relation to human health & wellbeing

Erin Roberts, Cardiff University - Valuing Nature CoastWEB project

Revealing values at the coast: narratives from socio-economically deprived areas

Cheryl Willis, Natural England

Using Q-sort methodology to understand plurality in social values & interests around a Marine Conservation Zone in North Norfolk

Carole White, University of East Anglia

A global review of the ecosystem services provided by bivalve aquaculture

Andrew van der Schatte Olivier, Bangor University

The Marine Pioneer: Testing Approaches for the 25 Year Environment Plan in Suffolk & North Devon

Aisling Lannin, Marine Management Organisation

Natural Capital Assessment Tools for the North Devon Marine Pioneer

Sian Rees, University of Plymouth

C2: Demystifying Health & Health Metrics

Oriel Suite

What do we mean by human health when considering decisions about the natural environment, and what should we measure? This session will share the findings of the Valuing Nature “Demystifying Health” community-developed report and participants will help shape a new “Demystifying Health Metrics” activity.

Chair: Rosie Hails, National Trust - Valuing Nature Programme Coordination Team

Introduction to “Demystifying Health”

Becca Lovell, University of Exeter – Editor of Demystifying Health

A systematic review and meta-analysis protocol of economic models and techniques for quantifying the impact of green and blue spaces in public health

Victory Ezeofor, Bangor University

What health metrics do the Green Infrastructure Partnership use & need?

Alistair Scott, Northumbria University

C3: Valuing the Arts in Valuing Nature - Part 1

Court Room

A two-part session exploring the role of the arts within the remits of valuing nature research.

Part 1. Reflecting on examples of arts-based research funded as part of the Valuing Nature Programme, the session aims to deepen our understanding of what artistic research is, and how it is incorporated in current valuing nature research agendas.

Introduction, context and purpose

Robert Fish, University of Kent

Participatory Arts and Creative Archiving for Valuing Urban Nature

Jenna Ashton, University of Manchester - Valuing Nature GHIA project

Why and how we used arts-methods to reach new understandings of nature's influence on mental health, and why we'd do it again

Jo Birch, University of Sheffield - Valuing Nature IWUN project

WetlandLIFE, epistemological equality and a disciplinary theatre: the experiences of art approaches for valuing nature

Tim Acott, Valuing Nature - Valuing Nature WetlandLIFE project

Within the Living Memory of the Dead and other stories: art and the challenge of interdisciplinary partnership

Simon Read, Middlesex University London - Valuing Nature CoastWEB project

Questions from the floor & directed discussion

Led by Chris Fremantle - Independent arts producer / Robert Gordon University - Valuing Nature WetlandLIFE

C4: Informing Decisions

Clore Discovery Centre

Short presentations from members of the Valuing Nature Network

Chair: Guy Duke, GD NatCap Ltd - Valuing Nature Programme Coordination Team

Can Natural Capital Accounts help us manage land better? Natural England's Natural Capital Accounts

Tim Sunderland & Ruth Waters, Natural England

Biodiversity and ecosystem services net gain assessment using habitat maps

Alistair McVittie, SRUC - Scotland's Rural College

Spatial optimization of energy infrastructure considering ecosystem services

Gemma Delafield, University of Exeter

Businesses to invest in urban natural capital?

Helen Davies, University of Southampton

Language and meaning in ecosystem partnership work in the Brecon Beacons

Matthew Quinn, Cardiff University

Alive with Nature: An evidence-based analysis of the benefits of investing in the natural environment in Stirling

Jim Rouquette, Natural Capital Solutions

10:45 Tea / Coffee

Oriel Restaurant

D1: Investing in Natural Capital**Reardon Smith Theatre**

Bringing together the investment, practitioner and research communities to understand each others' priorities, constraints and language; to explore research and innovation needs to underpin investment in natural capital.

Chairs: Ece Ozdemiroglu, eftec & Guy Duke, GD NatCap Ltd - Valuing Nature Programme Coordination Team

Speakers:

- *Jenny Merriman, WSP UK*
- *Peter Young, Independent - Valuing Nature Programme Advisory Group*
- *Stephanie Hime, Little Blue Research Ltd*

D2: Green & Blue Spaces for Health & Wellbeing**Oriel Suite**

Short presentations from members of the Valuing Nature Network

Chair: Jonathan Porter, Countryside - Valuing Nature Programme Coordination Team

Measuring health and wellbeing for an urban green space valuation toolkit

Benedict Wheeler, University of Exeter

A systematic review of economic evaluation studies of green and blue spaces in improving population health

Mary Lynch, Bangor University

Investigating whether a change in exposure to Green and Blue Spaces impacts on wellbeing and mental health?

Amy Mizen, Swansea University

Relationships between size, quality and proximity of green-space on population health: a cross-sectional ecological study

Matthew Dennis, University of Manchester - Valuing Nature GHIA project

Valuing Nature-based Interventions: the Economic Evaluation of Park Improvements for Health and Wellbeing

Jing Ma, University of Sheffield - Valuing Nature IWUN project

D3: Valuing the Arts in Valuing Nature - Part 2

Court Room

A two-part session exploring the role of the arts within the remit of valuing nature research.

Part 2. Reflecting upon key messages / questions originating from the 'AALERT - Arts and the Artist in Landscape and Environmental Research Today' initiative and considering wider approaches to artistic research, this session reflects on what, and how, art can contribute to environmental research. The session will further discuss the development of a 'demystifying the arts' note.

Introduction: context and critical questions

Eirini Saratsi, University of Reading and David Edwards, Forestry Commission

Introduction to three case studies

- *Greenhouse Britain* - HM Harrison; N. Harrison - (2007-2009) by *Chris Fremantle*
- *Sounding coastal change/Listening to Climate Change* - G. Revill (2016) by *Ewan Allison*
- *The Listening Stick* - S. Stenton and J. Nakazato (2015-19) by *Eirini Saratsi*

Group discussion of case studies and feedback

Implications and next steps for AALERT

Led by the AALERT team

D4: Public and Shared Values for Nature

Clare Discovery Centre

Short presentations from members of the Valuing Nature Network

Chair: Michael Winter, University of Exeter – Valuing Nature Programme Coordination Team

People's experiences, attitudes and actions for nature - what's changing & how can we better understand change?

Rose O'Neill, Natural England

Using Community Voice Method to understand people-wetland relationships

Adriana Ford, University of Greenwich - Valuing Nature WetlandLIFE project

WetlandLIFE: Outlining the 'place-based narratives' research

Mary Gearey, University of Brighton - Valuing Nature WetlandLIFE project

Sharing Collections and Valuing Biodiversity in Wales

Poppy Nicol, Sustainable Places Research Institute - Valuing Nature Placement Holder

Nature and people: exploring the debate between different epistemic communities

Caroline Howe, Imperial College London

How social media can enrich our understanding of the value of the natural environment

Duncan Stewart, Kantar TNS

12:45 Lunch

Oriel Restaurant

14:00

Session E

Reardon Smith Theatre

Valuing Nature - What Works and Where Next?

At this challenging time of change, what is the Valuing Nature agenda contributing and where does it need to go next? Hear perspectives from interdisciplinary research, evidence into practice and business, contribute your thoughts and round off the conference with a final reflections from our Keynote Speaker, Ian Hodge, University of Cambridge.

15:00

Close and Refreshments

Oriel Restaurant

Museum Floor Plan

Not remotely to scale

