

# **BUSINESS IMPACT SCHOOL 3**

WEDNESDAY 29<sup>th</sup> NOVEMBER – FRIDAY 1<sup>st</sup> DECEMBER 2017 EDINBURGH INTERNATIONAL CONFERENCE CENTRE (29/11) & DYNAMIC EARTH (30/11 & 1/12) EDINBURGH

# PROGRAMME





## WELCOME EVENING – Tuesday 28<sup>th</sup> November

#### 19:30-22:00 WELCOME DINNER, David Bann, 56-58 St Mary's Street, Edinburgh EH1

**Rosie Hails**, Director Biodiversity and Ecosystem Science, CEH and PI Valuing Nature Programme – *Introduction to the Valuing Nature Programme.* 

An overview of the Valuing Nature Programme, which aims to 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. The Programme is funding interdisciplinary research on projects relating to Health and Wellbeing, and on Tipping Points. The Valuing Nature Network is building links between researchers and people who make decisions that affect nature in business, policy-making and in practice.



## 'FIELD DAY' – Wednesday 29th November

Venue: <u>Edinburgh International Conference Centre</u>, The Exchange, Edinburgh EH3 8EE





NATURAL CAPITAL COALITION NOV

Natural Capital Coalition: A Day of Collaboration

by Natural Capital Coalition

All BIS 3 participants attend the Natural Capital Coalition's Day of Collaboration, which serves as the BIS3 'field day'. This Day of Collaboration brings together Coalition participants to share experiences and develop new ideas for collaboration.

The collaboration day will allow you to discover the progress made on Coalition projects, and to get involved if you are not already. It will allow you to find out what activities Coalition Organizations have planned and are underway. And it will allow you to contribute and take part in devising the next steps in the future of natural capital thinking.

## Working Agenda

09:00-09:15 Open and welcome 09:15-10:15 Where are we? Introduction and context 10:15-10:45 Pieces of the puzzle: how the Coalition works 10:45-11:10 Pulling the strings together: panel 11:10-11:30 BREAK 11:30-12:15 Deep Dive: Challenge of adoption 12:15-13:15 How can we contribute? Opportunities to engage 13:15-14:15 LUNCH 14:15-15:00 Deep Dive: Data 15:00-16:00 What are the remaining challenges? 16:00-16:30 Next steps 16:30 Close

19:30-22:00 DINNER, <u>The Gourmet Mash-Bar Company</u>, 9 North Bank Street, Edinburgh EH1 2LP

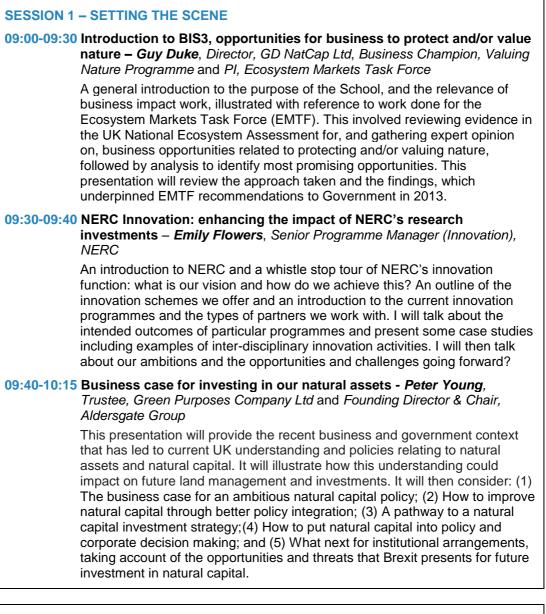


## DAY 1 – Thursday 30<sup>th</sup> November

## Venue: Dynamic Earth (Salisbury Room), Holyrood Rd, Edinburgh EH8 8AS



#### 08:30-09:00 COFFEE



## **SESSION 2 – FINANCE SECTOR**

10:15-11:00 Valuing environmental capital in long-term finance and investing where do we start? – Andrew Cave, Head of Corporate Governance, Baillie Gifford



Having worked in sustainability functions in an international bank and at an asset manager with global investments, there are a number of common technical and conceptual challenges with respect to taking proper account of environmental and social assets and risks. This session will explore a number of key questions in this respect: (a) The information gap - how do we get companies to value their natural capital assets? (b) What kind of data should we be collecting independently and do we need different tools and skills to collect this information? (c) How do banks and asset managers begin to move beyond the language of risk management with regards to valuing natural capital in their loan book or portfolio? (d) Is it realistic to expect the market to take proper account of environmental capital, or is it essential?

#### 11:00-11:30 COFFEE

## **SESSION 3 – ENERGY SECTOR**

#### 11:30-12:15 Ten things you didn't know about mitigation – Grant Douglas, Environmental Planner, SP Energy Networks

This will first provide a brief introduction to SP EnergyNetworks business and what this involves, outlining specifically the role as network operator and providing some context against the energy industry as a whole. It will then look at recent work SP EnergyNetworks have done and are doing in relation to mitigating the impact of energy infrastructure. This relates to 2 recent projects; Beauly Denny (a new 400kV overhead line); and 'VIEW', which is a project specifically aimed at mitigating the impact of existing infrastructure in designated areas. Reference will be made to some other National Grid infrastructure projects. The question arising is 'what mitigation is the best mitigation?' Is it, for example; large cabling projects where we seek to bury our infrastructure or is it more subtle green network or green infrastructure projects which seek to reduce landscape and visual impact but also seek to spread the benefits of this investment around a far wider area or community. Whatever the answer, and a great deal depends upon context, Natural Capital or similar valuation exercises can and should play a key role in guiding those decisions.

#### **SESSION 4 – ESR RAPID PRESENTATIONS**

#### 12:15-13:00 Rapid presentations – Early Stage Researchers

Strictly 5 minutes max per participant! (focus on business impact related to current research activities).

13:00-14:00 LUNCH

## SESSION 4 – ESR RAPID PRESENTATIONS (cont.)

14:00-15:00 Rapid presentations – *Early Stage Researchers* 15:00-15:15 Brief feedback – *Guy Duke* 

#### **SESSION 5 – LAND MANAGEMENT**

#### 15:15-16:00 Valuing natural capital and added value – a perspective from Crown Estate Scotland – Andy Wells, Head of Property, Crown Estate Scotland

This presentation will describe how Crown Estate Scotland views the Natural Capital and Ecosystem Service concepts and why these are important to our business. It will consider some of the challenges of integrating natural capital



accounting into our business and the work we are doing to address these to help drive innovation and long term sustainable business growth.

#### 16:00-16:30 COFFEE

## **SESSION 6 – REGULATION (HANDS-ON SESSION)**

#### 16:30-17:15 One Planet Prosperity: a 21<sup>st</sup> Century approach to regulation – *Nicola Melville*, Senior Scientist, Scottish Environment Protection Agency

In this hands-on session, Nicola will briefly introduce the role of the Scottish Environment Protection Agency and how it works with the businesses it regulates. Then participants will work in groups to develop a short action plan for how they would work with 3 business sectors using the One Planet Prosperity approach. Information and briefing will be provided to each group to help them. Each group will report back and reflect on how this change in approach by SEPA could help restore and enhance natural capital.

17:15 Close of Day 1

19:30-22:00 DINNER - Scotch Whisky Experience, 354 Castlehill, Edinburgh EH1 2NE

**Powerful partnerships – Morag Garden**, Head of Sustainability & Innovation, Scotch Whisky Association

This short presentation will focus on SWA's Environmental Sector Strategy and on SWA's sustainable land use ambitions.

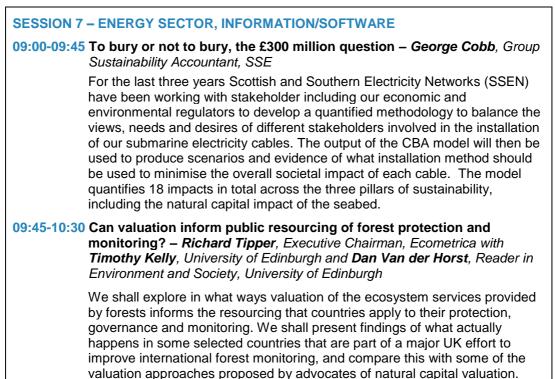


## DAY 2 – Friday 1<sup>st</sup> December

## Venue: Dynamic Earth (Salisbury Room), Holyrood Rd, Edinburgh EH8 8AS



## 08:30-09:00 COFFEE



#### 10:30-11:00 COFFEE

## **SESSION 8 – WATER UTILITIES, LAND MANAGEMENT**

11:00-11:45 Delivering better outcomes for our customers and the environment? Natural and Social Capital Accounting in the water sector – Mark Williams, Head of Environmental Science and Regulation, Scottish Water

> Water companies, perhaps more than most, interact directly with the water environment across the entirety of water catchments. From managing water sources in upland areas through to urban drainage and wastewater recycling to rivers and seas, we rely on and work with the services provided by nature. The life of our assets is measured in decades, and the social, environmental, and sustainability implications of decisions we make today will be felt by future generations. As a sector we are exploring how Natural and Social Capital Accounting may offer a new approach to decision making, supporting more sustainable outcomes for customers and the environment.



#### 11:45-12:30 A New Nature Economy – possible, desirable, essential? – *Mat Roberts,* Group Director of Environmental Strategy, Interserve PLC

Nature underpins all human life; in business, in society, at home, at school we interact with it everyday in multiple ways. Despite this most intimate of relationships many people, almost all business find it impossible to effectively value nature. There is an opportunity to use traditional business tools and proven science to place nature at the heart of a new economy that sees ingenuity of humans to work in harmony with natural systems to improve the physical, mental and economic future of UK communities. This brief presentation will look at the state of the art, engineering, science and economics of businesses reliance with nature.

#### 12:30-13:30 LUNCH

#### SESSION 9 - KNOWLEDGE EXCHANGE WITH BUSINESS (HANDS-ON SESSION)

#### 13:30-15:00 Maps and empathy: communicating your research – *Ece Ozdemiroglu*, *Director*, eftec

Take a step back from your research, see the big picture, understand your audience, their challenges and how you can help them. Only then they will listen to you and may even change their behaviour. There are theories about communicating and measuring the impact of your research. This hands-on session is about what I have learnt over 25 years of (mostly) avoiding tickbox exercises, asking awkward questions and defending my work. And we'll get to learn more about how you communicate and on whom you should focus.

## 15:00-15:30 COFFEE

## **SESSION 10 – FINANCE SECTOR**

#### 15:30-16:15 The Green Investment Group: what green means to us – Emma Knight-Strong, Manager, Sustainable Finance, Green Investment Group

The Green Investment Bank was the first institution of its type in the world. A pioneering business – created and initially capitalised by the UK Government – it is at the forefront of a growing network of specialist green investors across the world. The newly renamed Green Investment Group is a fully integrated business that brings together the Green Investment Bank and Macquarie Capital's renewable team to create one of Europe's largest team of specialist investors. Our investment decisions are underpinned by robust principles and policies designed to ensure that each investment's green impact is assessed, monitored and reported to the highest standard. Green impact assessment, monitoring and reporting is a relatively young discipline within banking. We are committed to ensuring our approach is at the forefront of market practice. That means the adoption of existing relevant international good practice and active engagement on our own approach with a wide range of stakeholders.

16:15-16:30 Close - Guy Duke

9



## ANDREW CAVE

Andrew graduated from London's School of Oriental and African Studies (SOAS) with an MSc in International Development in 2001, after completing an MA in History at the University of Edinburgh in 1999. Andrew joined <u>Baillie Gifford</u> as Head of Corporate Governance in May 2015. In his previous role as Chief Sustainability Officer for RBS he was responsible for helping to rebuilding RBS's approach to corporate responsibility, ethics and sustainability in the wake of the financial crisis. Andrew is a member of a number of industry sustainability working groups, and is a former chair of the <u>UK Network of the UN Global Compact</u>.

## GEORGE COBB

George is the Group Sustainability Accountant at <u>SSE Plc</u>, a UK listed utility company. His primary role is advising senior management on capital expenditure decisions, which seek to balance financial and non-financial priorities. Prior to joining SSE, George qualified as a Chartered Accountant with <u>PwC</u>. Academically, he graduated from the University of Dundee with a PhD and has been published in international accounting journals. Outside his work commitments George is the Chair of the <u>ICAS Sustainability Panel</u> and Co-Chair of

the Human and Social Capital project for The Prince of Wales Accounting for Sustainability (A4S) <u>CFO network</u>.

## GRANT DOUGLAS

Grant Douglas is an Environmental Planning specialist at <u>SP</u> <u>EnergyNetworks</u> (SPEN), part of the ScottishPower group of companies. SPEN take electricity generated from power stations, windfarms and other utilities and transport it through a vast network, providing power on behalf of supply companies to over 3.5 million customers. With over 10 years of experience in sustainable development and Environmental Impact Assessment, Grant has delivered numerous high profile projects across the UK and is leading SPEN efforts to modernise the approach to planning and development. Grant has most recently worked on the planning

and delivery of the 220km Beauly to Denny transmission project, developing a unique approach to the planning of mitigation. Alongside the future planning of almost £8bn of investment in the transmission network he is also working on a £500m UK wide project to mitigate the impact of transmission infrastructure in nationally designated areas. In developing a sustainable approach to these outputs he has recently been working a wide range of stakeholders to examine the practical applications of natural capital accounting and eco-system services valuation.









#### **BUSINESS IMPACT SCHOOL 3, 29 Nov - 1 Dec 2017 - PROGRAMME**



## GUY DUKE

Guy Duke is Business Champion for the Valuing Nature Programme. He was (2012-13) PI for the Ecosystem Markets Task Force, under the previous Valuing Nature Network. He is also Innovation Lead for the EU Business & Biodiversity Platform, Director Europe and Research with The Environment Bank Ltd (a broker in emerging markets for environmental assets) and an Honorary Visiting Researcher at the Environmental Change Institute, University of Oxford. He was (2012-17) a steering committee member of the €12 m EU FP7-funded project Operationalisation of the Concepts of Natural Capital and Ecosystem Services (OpenNESS). He was previously Deputy Chair and



Independent Member of the <u>Joint Nature Conservation Committee</u> (2010-17) and Principal Administrator for Biodiversity Policy, <u>European Commission</u> (2002-07) where he introduced the concepts of natural capital and ecosystem services into EU policy and played a key role in launching <u>The Economics of Ecosystems and Biodiversity</u> (TEEB). Guy frequently evaluates and reviews research and innovation proposals and projects for the EU.

## EMILY FLOWERS

Emily Flowers is currently a Senior Programme Manager in the innovation team at <u>NERC</u> and leads on the Sustainable Food Systems innovation priority area. She studied marine and freshwater biology at Queen Mary, University of London followed by an MPhil in microbial ecology at Cardiff University. She has been at NERC for 4 years and was formerly a soil science researcher at the <u>Natural History Museum</u> as well as working in charity fundraising.



## MORAG GARDEN

Morag Garden is the <u>Scotch Whisky Association</u>'s Head of Sustainability & Innovation, a role she took up in 2007. Her career began, and has always remained, in the environmental lobbying arena working with a number of industry bodies. Her career started in <u>Scottish Water</u> covering a range of roles from Laboratory through to Environmental policy. She has also taken a number of secondment opportunities during her career, including a year with the Scottish Government developing Diffuse Pollution policy. She was delighted to move from water to whisky 10 years ago and to be working for Scotland's most exciting and first truly sustainable industry. She moved to Edinburgh for University and has only ever been away for brief periods.

## ROSIE HAILS

Prof Rosemary Hails is the Science Director for Biodiversity and Ecosystems Services at the Centre for Ecology & Hydrology. She is Chair of the Advisory Committee on Releases to the Environment (ACRE) and a member of the <u>Natural Environment Research Council</u> <u>Science Board</u> as well as Council member of the <u>RSPB</u>. She leads the co-ordination team for the <u>Valuing Nature Programme</u>, a £7 million interdisciplinary research programme funded by NERC, ESRC, BBSRC, Defra and AHRC. She is a vice president and member of council for the <u>British Ecological Society</u> (BES) and in 2008 cofounded the <u>Natural Capital Initiative</u> in collaboration with the BES and The Royal Society of Biology. She was a member of the expert





panel and an author for the <u>UK National Ecosystem Assessment</u> and a member of the first <u>Natural</u> <u>Capital Committee</u>. She was awarded an MBE for services to environmental research in June 2000.



## TIMOTHY KELLY

Following a BSc in Ecological Design at the University of Vermont (UVM), Tim worked as an environmental researcher, investigating the viability of cultivating switchgrass as a form of biomass energy in the State of Vermont. Tim later earned an MSc in Ecosystem Services at the University of Edinburgh, where he looked at the political and practical challenges of delivering Sustainable Urban Drainage Systems (SUDS) in Scotland, using the City of Edinburgh as a case study. Since graduating, Tim worked as a research assistant at the University of Edinburgh, helping to develop a key performance indicator for measuring the impact of the UK's international



investments on forestry-based ecosystem services. More recently, Tim had the opportunity to work with environmental-software company <u>Ecometrica</u> on the Forests 2020 project, a <u>UK Space</u> <u>Agency</u>-funded collaboration that looks to improve the remote sensing capabilities of tropical forest countries for monitoring deforestation. Tim now works as an environmental consultant at <u>Mott MacDonald</u>.

## EMMA KNIGHT-STRONG

Emma is part of the <u>Green Investment Group</u>'s Sustainable Finance Team, otherwise known as the Green Team. She has a background in ecology, environmental management and environmental impact assessment and has worked for the past 4.5 years as part of the team responsible for designing and implementing the Green Investment Group's <u>Green Investment Handbook</u> – setting out how to assess, monitor and report Green Impact of investments.



## NICOLA MELVILLE

Nicola is a senior specialist scientist at <u>SEPA</u> working on Sustainable Use of Natural Systems. She works within the Evidence and Flooding portfolio, developing new methods and approaches to improve decisions about sustainable use of the environment. This includes working with businesses, communities and other agencies. For example she has worked with Scottish Hydro and Electrical Transmission (<u>SSE</u>) to develop an approach to take account of ecosystem services and the impact on ecosystems when selecting transmission routes. She worked with agencies and communities to put an ecosystems approach into practice in Strathard in the Loch Lomond

and Trossachs National Park. Prior to working with SEPA she worked in England for the <u>RSPB</u> on landscape scale conservation.

## ECE OZDEMIROGLU

Ece Ozdemiroglu is Economics Lead for the Valuing Nature Programme and the Founding Director of eftec. She is also a member of <u>the Climate Change Committee Adaptation Sub Committee</u> and the <u>Natural Capital Initiative</u>. She specialises in interpreting economic value evidence for natural capital, ecosystem services, cultural heritage, charitable sector and value of information. Her clients include most UK government departments, the European Commission, the European Investment Bank, the governments of many countries, local authorities and forward thinking businesses. She is an Associate Editor of the <u>Journal of Environmental Economics and Policy</u> and has co-edited or co-authored 11 books. Her 12<sup>th</sup> is one she is co-editing on assessing environmental damage and remediation in liability cases,



and is due out in 2018. Ece holds an MSc in Environmental and Resource Economics from University College London and a BA in Economics from Istanbul University. She works in English and Turkish.





## MAT ROBERTS

Mat is Interserve PLC's Group Director of Sustainability Strategy. He leads on the development of the Interserve SustainAbilities Plan with a specific focus on the social and natural capital. Before joining Interserve was Head of Sustainability at Landmarc Support Services, an Interserve joint venture. Mat is an advisor to the EU Business @ Biodiversity Platform, a Trustee of The Princes Countryside Fund, a Non Executive Director of Cynnal Cymru Sustain Wales, the National Association of AONBs and a fellow of the RSA. Outside work he enjoys sailing, running and mountain biking.

## RICHARD TIPPER

After studying Agricultural Science (Edinburgh University) Richard worked in Mexico as an advisor to farmers' organisations. He later took an MSc in Technology Management, then doctoral research on the economics of contemporary Mayan farmers. Following his PhD he obtained research funding to develop the Plan Vivo system for payments for ecosystem services, and subsequently commercial investment to put theory into practice in Mexico, India, Uganda and Mozambique. Richard founded the <u>Edinburgh Centre for Carbon</u> <u>Management</u> (ECCM) in 1994, and built a team of experts on land use and GHG accounting. While at ECCM Richard was appointed to the UK Roster of Experts on Climate Change and was Lead Author on two IPCC

reports. In 2007 his work on the IPCC was recognised as a contribution to the Nobel Peace Prize. Richard also advised on numerous standards and methodologies for accounting for greenhouse gas emissions, including the <u>WBCSD-WRI GHG Protocol</u>, <u>European standards for biofuels</u> and <u>PAS</u> <u>2060</u>. Since co-founding <u>Ecometrica</u> in 2008 Richard has focused on developing the Earth Observation and spatial data platform side of the business. He has retained an interest in evaluation of land use interventions as a senior evaluator of Norway's international climate and forests initiative (NICFI), and an advisor to the UK government's investments in forests under the <u>International Climate Fund</u>.

## DAN VAN DER HORST

Dan van der Horst is a Reader in Environment & Society at the <u>School</u> of <u>Geosciences</u>, <u>University of Edinburgh</u>. He has a background in spatial environmental modeling, ecological economics and policy evaluation and has worked in government and consultancy before starting his academic career. His current research interests include the political economy of natural resource management and the development of new business models for environmental and social sustainability, especially in relation to of land use and poverty alleviation.









## MARK WILLIAMS

Following an academic career in marine biology and chemical ecology at the Universities of St Andrews and Cardiff, Mark joined the water industry in 2000 in environmental management and regulation. As Strategy Manager, he developed <u>Scottish Water</u>'s long term Vision, as well as developing and implementing climate, carbon and sustainability strategies. Mark is Head of Environmental Science and Regulation within Scottish Water, supporting operational and investment teams across Scotland in meeting regulatory, environmental and sustainability objectives, and working with <u>SEPA</u> at local and national levels to take appropriate steps to protect our environment. Mark leads



the climate and carbon programmes for the UK Water sector's collaborative research agency <u>UK</u> <u>Water Industry Research</u>, delivering projects to guide the industry on climate change, carbon and sustainability. A recent focus has been the development of tools and approaches to support water industry engagement with natural capital.

## ANDY WELLS

Andy has worked for The Crown Estate since 1990, managing the Glenlivet Estate before becoming Head of Countryside Management across the UK. He took up his current role in July 2016. Andy is responsible for The Crown Estate's rural and coastal assets which includes 37,000 hectares of rural land with forestry, farming, commercial and residential tenants as well as around half of Scotland's coastline with ports, harbours and 5,800 moorings. He also oversees health and safety policy on behalf of the Board. Andy's work has been recognised with a raft of



international and national awards, including an honorary fellowship at the University of Edinburgh.

## PETER YOUNG

Peter has spent his entire career working on environmental issues since the late 1970s, mainly in multi-disciplinary environmental management consulting. Until 2015 he was a member of the last government's <u>Green Economy Council</u>, Defra's Regulatory Challenge Panel, and the recent business-led <u>Ecosystem Markets</u> <u>Task Force</u>. Peter is an individual member of the <u>Aldersgate Group</u>, having been a Founding Director and Chair from 2007 to 2015. He is a Trustee of <u>The Wildlife Trusts</u>. He is a Trustee of the <u>Green</u> <u>Purposes Company</u>, which holds a special share in the recently privatised <u>Green Investment Bank</u>. He is chair of the Business



Interest Group for the Valuing Nature Programme, and a member of the Programme Advisory Board. He is also an external advisor to the <u>School of Business and Management</u> at Queen Mary College, London, and the <u>British Standards Institute</u>. He is an alumnus of Cranfield and Edinburgh Universities.



## FURTHER INFORMATION

Sign up to the Valuing Nature Network to receive updates on activities **valuing-nature.net/join** Information on Programme research objectives **valuing-nature.net/about** 

Contact the Programme Coordination Team e: info@valuing-nature.net

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## valuing-nature.net



# **Participating Companies & Organisations**



Business Impact School Coordinator Guy Duke, Business Champion, Programme Coordination Team GD NATCAP LTD

ENVIRONMENT