

AZTI & EEAcademy SUMMER SCHOOL 2018

5th to 7th June 2018. San Sebastián (Spain)

Blue Growth: can marine environment support growth maintaining good ocean health?

Ángel Borja

AZTI, Spain

AZTI & EEAcademy SUMMER SCHOOL Director



He studied Biology, obtained a PhD in Marine Ecology (University of the Basque Country, 1984) and is Doctor in Sciences (honoris causa) by the University of Hull (UK, 2015). He is Principal Investigator at AZTI, a private non-profit research foundation in Spain, where he has been also Head of the Department of Oceanography and Head of the Marine Environment Area. His main work is making marine ecology research useful for policy-makers and managers, studying the effects of human activities on marine ecosystems, monitoring of marine waters and recovery after impact. This includes developing methodologies to assess the marine status under European directives (i.e. Water Framework Directive; Marine Strategy Framework Directive), being some of these methods used worldwide. He is member of the Scientific Committee of the European Environment Agency (since 2013) and its EEAcademy, dedicated to train and divulgate environmental sciences. He is author of more than 230 peer-reviewed papers (Hindex: 50), Specialty Chief Editor of *Frontiers in Marine Ecosystem Ecology*, Associated Editor of *Continental Shelf Research* and *Journal of Sea Research*, and member of the Editorial Board of *Ecological Indicators* and *Marine Pollution Bulletin*. Referee in more than 80 international journals and project evaluation agencies, is member of different advisory boards and scientific associations (ASLO, CERF, ECSA), serving as chair in numerous international conferences. He has participated in more than 100 European and international projects, being the coordinator of the EU 7th FP project DEVOTES (DEvelopment Of innovative Tools for understanding marine biodiversity and assessing good Environmental Status). He has been characterized by the continuous dissemination of science and organizer of the AZTI's successful marine summer school since 2004. He was awarded with the SETAC Environment Education Award in 2017.

SPEAKERS

Juan José Ronco Zapatero

DG-MARE, Brussels

5th June, 9:15 to 10:00

Blue Growth: what is it and how it will be developed in Europe.

5th June, 13:00 to 13:40

Maritime Spatial Planning and Blue Growth sectors.



He was born in 1959 in Zaragoza, Spain.

He holds a degree in International and Monetary Economics from the Catholic University of Louvain (KU Leuven), Belgium. He is Policy Officer at the European Commission, Directorate General Maritime Affairs and Fisheries (DG MARE).

His main responsibilities are in Maritime Spatial Planning. Within DG MARE he also worked in the implementation of Action Plan for the Atlantic, in the context of the sea basin strategy for the Atlantic Area, and developed tasks in relation to Outermost Regions and Integrated Maritime Policy. Prior to that, he was with the Directorate General Education and Culture (1994-1998), and Research and Technology (1992-1993). He has also worked in the private sector, with UNISYS Belgium and with S.W.I.F.T., the

worldwide banking network.

Gordon Dalton

University College Cork, Ireland

5th June, 10:00 to 10:40

Advantages of Aquaculture in multiple use of space Blue Growth projects.

6th June, 10:00 to 11:00

Technical and non-technical barriers facing blue growth sectors.



He is an Ocean Renewable Energy Economics Engineer, a staff member of MaREI Research centre, UCC, Cork Ireland. His specialty is techno-economics, socio-economics and business plans. Gordon is the lead coordinator of the BG5 Maribe H2020 project www.maribe.eu. The Maribe project is a CSA project, spanning 1.5 years, €2M funds, and 10 international partners. The Maribe project proposal gained a review score of 14/15. The Maribe project has a wide selection of partners,

including FAO from the United Nations and BVG associates. Gordon was also the lead coordinator of the H2020 Geri4-2015 proposal 'Gendering'. The project received 14.5/15, and attained 'Reserve' status. The project will be resubmitted in 2016.

Dr. Dalton is chair of the International Consortium of Research Staff Associations (ICoRSA), consisting of 14 member associations, and a research network of 0.5 million researchers globally. Gordon is the lead coordinator in a 2016 Cost Action proposal 'SECURE'. The project has 20 countries as secondary proposers. Gordon is the chair of the Irish Research Staff Association (IrishRSA <http://www.irishrsa.ie/>) and the Vice Chair of the Cork Branch in UCC (www.ucc.ie/en/rsa).

As a mature student, Dr Dalton completed a degree in electronic engineering in Trinity College Dublin 2002, and a PhD in Australia in renewable energy economics in 2007. Prior to the pursuit of an engineering career, Dr. Dalton had a career in dentistry spanning 12 years.

Fernando de la Calle

Pharmamar, Spain

5th June, 11:40 to 12:20

Biotechnology: New opportunities from the oceans



He is currently the Head of the Microbiology Dpt. within Drug Discovery (R&D) at PharmaMar, biopharma involved in the development and commercialization of anticancer drugs of marine origin. He received his Ph.D. in Molecular Biology from UAM (Madrid) in 1998. He also completed an Executive-MBA at IDE-CESEM (Madrid) in 2005. He has more than 30 years' experience working in drug discovery from marine microorganisms. He is an Expert in Applied Biotechnology, Molecular characterization of Bacterial Biodiversity and the use of Biotechnology tools for Drug Discovery. Co-author of the current hemisynthetic process for manufacturing the anticancer

Yondelis[®], the first European marine derived compound approved. In addition, he has been external advisor for biotechnology issues to the Spanish Government (INCUAL), current member of the International Advisory Group of European ERA-NET for Marine Biotechnology and Biodiversity, reviewer for H2020 and ERA-NET projects and the scientific contact person from PharmaMar for FP7/H2020 EU projects related to Marine Biodiversity such as MAMBA, MaCuMBA, MicroB3 and INMARE as WP leader. Principal Investigator in more than 10 other nationally funded projects.

María C. Uyarra

AZTI, Spain

5th June, 12:20 to 13:00

Coastal tourism: wellbeing for an overwhelmed society.



She is a biologist, with an MSc in Applied Ecology and Conservation and a PhD awarded by the University of East Anglia, UK.

Her MSc, PhD and postdoctoral research focused on the interactions between coastal tourism and marine ecosystems, including aspects of climate change, coastal development, biodiversity and contributions of tourism to conservation. As a result, over the last fifteen years, she has designed and

conducted interdisciplinary research projects, applying biological, ecological, and socio-economic techniques. She has experience working within a broad array of international working environments and organizations (NGOs, Universities, research centres, consultancy, governments and the European Commission). Since 2011, she works in AZTI marine research division, where she participates in several European Union projects and proposals related to the implementation of marine legislation, management and conservation of marine resources, and recreational ecosystem services. María C. Uyarra combines research activities with teaching postgraduate courses on marine conservation in Spain and South America.

Arantza Murillas

AZTI, Spain

5th June, 12:20 to 13:00

Coastal tourism: wellbeing for an overwhelmed society.



PhD in Economics, “Doctorate in Economic Analysis and Public Economy”, University of the Basque Country (2001). She worked for three years (2000-2003) in the Department of Applied Economics, University of Vigo, Spain. She has worked as Principal Investigator since 2004 in the marine research division of AZTI, a private non-profit research foundation in the Basque Country, in the field of the marine socio-economics. She has worked on research topics such as, the natural resources valuation, economic assessment of ecosystem services, development of impact economic assessments, price formation analysis, markets, fisheries management, maritime economy, blue growth and fisheries governance. She has applied these expertise topics in more than 20 European projects being some of them ELME, COMMIT, EFIMAS, VANE, CEVIS, OCIPESCA, MADE, MARNET, PRESPO, SOCIOEC, DEVOTES, AQUASPACE and a large number of other regional and national projects providing support to the scientists but also, to the different administrations from the local to the European level. Currently, she is coordinating the EC call for proposal MARE/2014/04-SI2.723886 to enhancing small-scale fishing sector’s participation in decision-making. She authored more than 35 publications, including international peer-reviewed journals and some book chapters, being referee in many international journals. She has given over 50 oral presentations in international conferences, serving as a chair in some of them. She has collaborated in a consolidated research group from the Basque Country University since the last 10 years and developing supervision of several Master theses and two Phd in the last years.

Stéphane Isoard

EUROPEAN ENVIRONMENT AGENCY, Denmark

6th June, 9:00 to 10:00

The policy context for the sustainable use of European seas, as the environment pillar of the blue growth agenda.

6th June, 12:30 to 13:30

The EEA Marine Roadmap 2016-2022: making strategic planning operational.



He is leading the freshwater and marine activities at the [European Environment Agency](#) (EEA).

Since joining the EEA in 2002, he has been responsible for developing outlooks across sectoral and environmental themes, before moving on to work on integrated assessments of climate change adaptation, and now leading the freshwater and marine operations. Before joining the EEA, he worked for the Institute for Prospective Technological Studies (European Commission-Joint Research Centre) and the consulting and software firm Caminus Ltd. on short and long-term energy and environmental forecast issues. He published extensively in international academic and scientific journals. He's background is in mathematical economics and modelling, and

he took a Ph.D. from the University of Paris I - Panthéon Sorbonne in Economics.

For further details please visit EEA's web site at <https://www.eea.europa.eu/themes/water> and the Water Information System for Europe (WISE) at <https://water.europa.eu/>.

Anna-Stiina Heiskanen

SYKE, Finland

6th June, 11:30 to 12:30

Enhancing Adaptive Capacity for Sustainable Blue Growth: participation.



She studied hydrobiology at the University of Helsinki, and obtained her Ph.D. in 1998 on the nutrient cycling and eutrophication of the Baltic Sea. She was nominated as an adjunct professor on marine biology in 1998. Since 2017, she has worked as the director of the Freshwater Centre at the Finnish Environment Institute (SYKE), and nominated as research professor at SYKE in 2016. Previously she was heading the Marine Assessment and Management Unit at the SYKE Marine Research Centre, where she had research and managerial positions since 2008. Earlier (since 2000) she worked as a scientific officer and an action leader at the EU Joint Research Centre, Institute for Environment and Sustainability in Ispra, Italy. There she led a team carrying research on aquatic bioindicators and assessment tools and supporting the common implementation strategy for the EU Water Framework Directive (WFD). She was also coordinating EU-wide expert networks on harmonisation and intercalibration of European ecological water quality assessments. She has wide experience on research, monitoring, assessment, and management of the inland, coastal, and marine waters. She has a long experience on science-policy interface at the EU, regional sea, and national level. She has also carried out research on ecosystem based management of coastal and marine waters, supporting the implementation of the EU Marine Strategy Framework Directive (MSFD) in the Baltic Sea. She has chaired and collaborated in several HELCOM expert groups for development of the joint monitoring and assessment programme of the Baltic Sea, and participated in a number of EU projects supporting R&D needs of the EU WFD and MSFD (e.g. DEVOTES, KNOWSEAS, WISER). Currently she is coordinating a large research project 'BlueAdapt' funded by the Strategic Research Council in Finland which is focused on multidisciplinary integration of ecological modelling with economic, policy and regulatory analysis for co-creation of adaptive governance options and transition to sustainable blue-growth. She has presented several keynotes in international scientific and managerial conferences, and authored totally ca. 135 publications (including 56 peer reviewed papers; Google Scholar H-index 33).

Alec Taylor

WWF, United Kingdom

7th June, 10:00 to 11:00

Challenges for marine conservation under Blue growth policies.



He heads up the marine governance programme of work for WWF-UK, responsible for WWF's advocacy on issues including marine spatial planning (MSP), marine protected areas (particularly for harbour porpoises), pollution and plastics, Marine Strategy Framework Directive and Sustainable Development Goal implementation. He is vice-chair of the marine working group at the umbrella organisation Wildlife and Countryside Link, which brings almost 50 NGOs together on marine issues in England, as well as co-chair of internal WWF networks on MSP and MPAs. He has represented WWF at various fora, including within OSPAR and the European Commission, and has been involved in MSP in the UK from its early stages in 2009. Alec has degrees in Economics with German (Nottingham University, 2003) and Marine Geography (Cardiff University, 2008), followed by roles in both the public and charity sectors in marine environmental policy. Prior to WWF, he spent four years with the Royal Society for the Protection of Birds (RSPB, UK partner of BirdLife International) and as conservation advisor to the Welsh Government. His authored publications include marine chapter lead for the first "State of Nature" report in 2013. He lives in Cardiff and enjoys cycling, diving, live music and ecosystem-based MSP.

