



# WAVEC ANNUAL SEMINAR | B2B MEETINGS

ADVANCING THE BLUE ECONOMY THROUGH INTERCONTINENTAL COLLABORATION

LISBON | 9 -10 DECEMBER 2020 PORTUGAL AND CANADA

FREE ONLINE EVENT



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## WAVEC Seminar 2020

ADVANCING THE BLUE ECONOMY THROUGH INTERCONTINENTAL COLLABORATION

### SPEAKERS

#### OPENING SESSION | 09:30 - 10:00 GMT



**António Sarmiento, WavEC**

Founder and president of the Board of WavEC Offshore Renewables, co-founder and member of the Board of Ocean Energy Systems, former Associate Professor at the Mechanical Engineering Department of Instituto Superior Técnico, Lisbon University, he is involved in the ocean renewable energy for almost 40 years.



**Elizabeth Rice Madan, Embassy of Canada to Portugal**

She has served as the director of the Mission Support Division (2016-2018), responsible for public diplomacy and planning, and Southeast Asia and Oceania Relations Division (2010 to 2012). She also served as deputy director of the South Asia Relations Division, the Korea and Oceania Trade Division and two Trade Team Canada task forces. Ms. Rice Madan has held numerous other positions in the areas of international business development, trade policy, investment promotion and corporate policies and planning.



**Ricardo Serrão Santos, Ministry of Maritime Affairs**

Has been a Member of the European Parliament between 2014 and 2019. He was full Member of the Committees of Fisheries and of Agriculture and Rural Development and coordinator for the S&D group on Fisheries Committee, and Vice Chair of the intergroups Seas, Islands, Rivers and Coastal Zones and Climate change, Biodiversity and Sustainable Development RSS and holds a Doctorate Degree from the University of Liverpool. He is professor at the University of the Azores where he has been Pro Rector for Sea Affairs, Director of the Department of Oceanography and Fisheries and President of IMAR.

#### SESSION I | 10:00 - 11:30 GMT



**João Maciel, EDP NEW**

João Maciel is since 2015 the Managing Director of EDP's Centre for New Energy Technologies, dedicated to applied R&D in the energy sector. He was former Technology Development Director of EDP Inovação – between 2007 and 2015. João served on the Board of other EDP R&D initiatives, namely WindPlus – company dedicated to the development of the 20M€+ floating offshore wind demonstration project WindFloat. He has 18+ years of experience in working in the energy sector and has been involved in several innovation and R&D projects namely in the offshore renewables area. João holds a degree in Electrical Engineering – Power Systems from Lisbon University and a MBA from Portuguese Catholic University and Nova School of Business and Economics.



**Patrik Möller, Corpower**

Patrik is CEO of CorPower Ocean, a wave energy developer bringing a step-change improvement on the efficiency of harvesting wave energy. He has led CorPower since 2012, built a team of 50+ people and taken the technology through three stages of structured verification. He is a board member of Ocean Energy Europe and on ETIP Ocean steering committee. Patrik is a passionate entrepreneur with experience of building deep tech start-ups from first idea to multi-national operations. He has a chemical engineering degree from Lund Institute of Technology and UC Berkeley.



**Jussi Åkerberg, AW-Energy**

Jussi is the CTO of AW-Energy, the world leading wave energy technology developer. Jussi has a strong industrial background with over 20 years of experience in demanding multidisciplinary R&D projects. He has worked for AW-Energy since 2011, CTO since 2018. During his career Jussi has consistently chosen to follow the green path by first working in Vaisala with upper air weather measurements and later taking first ABB central solar inverters from concepting to production and market. Jussi is a M.Sc. Electrical Engineering 1997 graduated from Helsinki University of Technology in Finland.

# SPEAKERS

## SESSION I | 10:00 - 11:30 GMT



### **Fred Gardner, Teamwork Technology**

Fred Gardner has a background in electrical engineering, mechanical engineering and as a technical education teacher. He has designed fast production processes since 1980. In 1993 started Teamwork Technology with Hans van Breugel. Since then he has been busy developing several companies and concepts. In 2010 he was responsible for the performance of Teamwork Technology.



### **Simon De Pietro, DP Energy**

Simon is a graduate of Mechanical Engineering (Aerodynamics and Fluid Mechanics) from the University of Liverpool and started his career as a gas turbine engineer until he joined his mother Maureen in DP Energy in the early 90s. Since then Simon has been involved in developing renewable energy projects in Ireland, the UK, Australia and Canada. Simon has hands on experience of every aspect of the development process as well as grid issues, construction and financing projects. Simon is currently co-president of Ocean Energy Europe and a member of Marine Energy Canada and as a result has experience of lobbying at both national and EU level.



### **Jason Hayman, Sustainable Marine Energy**

Jason Hayman, has been declared a winner of this year's Vi Maris industry award. At the helm of Sustainable Marine Energy since 2009, Hayman has navigated both the Plat-O and Plat-I floating tidal devices through their demonstration phases, and is now gearing up to install one of the world's foremost tidal energy projects in Canada.

## SESSION II | 11:40 - 13:00 GMT



### **Ricardo Morgado, ASM Industries**

Ricardo start to serve A. Silva Matos (ASM) in 2008 and he is currently the Chief Commercial Officer of ASM Industries, a company that operates in the field of manufacturing of steel equipment for renewable and marine industries, such as wind towers, offshore foundations and marine structures. He has a Degree in Environmental Engineering and a Pos Grad in Renewable Energy and Energy Efficiency, both in University of Aveiro. He also has a MBA in Catolica Porto Business School and a Pos-Grad in Sales Management, in Porto Business School.



### **José Pinheiro, Ocean Winds**

José Pinheiro started working for wind turbine supplier VESTAS WIND SYSTEMS in 2007 and went through several functions in Spain, Denmark and Brazil. In 2011, he moved to EDPR, based in Madrid, first as Senior Technical Support Engineer and then as Head of O&M for EDPR's Global Technical Direction. In 2013, he moved to Scotland and supported the development of what is today known as Moray East Offshore Wind Farm, first as Head of Wind Turbines and Substructures and later as Project Technical Coordinator. In April 2017, he started leading the WindFloat Atlantic Project (WFA) as Project Director and Managing Director for WINDPLUS, the project company formed to develop, construct and operate the WFA project. More recently, he joined the new company formed between EDP Renewables and ENGIE, OCEAN WINDS as Country Manager for Iberia.



### **David Timm, Northland Power**

David is Northland Power's Global Head of Public Affairs and Government Relations. Bringing more than 20 years of experience in the renewable energy sector, he supports Northland's business development, strategy and operations teams in various markets around the globe in understanding and responding to policy, legislative and regulatory design and implementation that impact their businesses to ensure the continued growth of Northland's business.



### **Damien Lavagna, SBM Offshore**

Damien Lavagna has 14 years of experience with SBM Offshore in project management on some of the most innovative projects including cryogenic LNG offloading systems to the deepest mooring system worldwide. He recently joined the SBM floating offshore wind development and is responsible for the project development of the next generation floater demonstrator tailored for the coming commercial farms. He has a technical background in mechanics and industrialization at the Arts et Metiers ParisTech and a business background with a Master in Strategy & Management of International Business at the ESSEC.



### **Alex Raventos, X1Wind**

Alex Raventos has been working since 2007 in the offshore renewable energy sector. He has worked for WavEC as Head of the Economic department between 2009 and 2015, as well as for Bluewater in the Netherlands and Inn2Grid, before co-founding X1 Wind in 2017 to bring a disruptive floating wind solution to the market.



### **Amorina Armayor, WavEC**

Licentiate degree in Marine Science, specialized in Oceanography, by the University of Cádiz. Business development in renewable energy projects. Research in Marine Renewable Energy projects.

# SPEAKERS

## SESSION II | 11:40 - 13:00 GMT



**Manuel Rentschler, WavEC**

Manuel is a Research Engineer at WavEC since 2018. He holds a MSc in Ship Technology and Ocean Engineering from University of Rostock, Germany. He is mainly working on hydrodynamic simulations of floating renewable energy devices and aquaculture systems using CFD and OrcaFlex. His specializations are cable dynamics, moorings and automation.



**Elisa Obermann, Marine Renewables Canada**

Elisa joined Marine Renewables Canada in 2012, becoming executive director in 2015. In this role she works to facilitate technology innovation in the sector by advocating for supportive policies, identifying international business development opportunities, and enhancing the capacity of the local supply chain. Elisa has also designed and led numerous engagement and outreach activities to grow knowledge and support for marine renewable energy development.

## SESSION III | 14:00 - 15:30 GMT



**José Chambel Leitão, Hidromod**

José Chambel Leitão is a Civil Engineer and holds a Doctorate degree in Mechanical Engineering, both from Instituto Superior Técnico, in the University of Lisbon. He has 30-years experience in consultancy, operational services and R&D. He has worked in sea waves, hydrodynamics, transport processes, hydrology and river basin management. He is a managing partner of HIDROMOD and Non-Executive Director at WavEC.



**Miguel Patena, EDP**

Miguel Patena is the Innovation Technology Director in EDP Produção. He manages several innovative projects, in particular floating photovoltaics and storage applications for solar and geographical isolated electrical systems, hybrid systems and hydrogen. He is also responsible for the International Division in EDP Produção, dedicated to consultancy services. Previously, he managed the engineering team responsible for the design of the conventional generation fleet in EDP Produção, mainly hydro. They had a total of about 350 M€/year investment in the last seven years.



**Kendra MacDonald, Canada's Ocean Supercluster**

Kendra MacDonald is the CEO of Canada's Ocean Supercluster responsible for driving innovation and growth in the ocean economy. Together with a team working across six cities in Atlantic Canada, Kendra is focused on changing the culture of doing business in the ocean, increasing collaboration across ocean sectors and Canada's global reach. Kendra was previously a Partner in Deloitte's Risk Advisory practice and the Chief Audit Executive of Deloitte Global. Kendra speaks regularly on the topics of innovation, future of work, and disruptive technologies, and also serves on the Board of the Canadian Chamber of Commerce and is the Past-Chair of the Newfoundland and Labrador Association of Technology Industries. Over the course of her career, Kendra has both lived and worked in Ottawa, Montreal, Australia and Hong Kong before moving to St. John's in 2010 where she now resides with her husband and two children.



**Paulo Serra Lopes, OCEANIC Motion/AQUAZOR**

Paulo Serra Lopes, born in 1961, Marine Biologist, post-graduate in Aquaculture in Taiwan, first director of the Lisbon Oceanarium, CEO of Oceanic-Motion, a company investing in innovation and Ocean technologies in the Azores and Board member of Aquazor, the leading aquaculture company in the Azores.



**Aaron Hoskin, Natural Resources Canada (NRCan)**

Aaron Hoskin is Senior Manager responsible for Federal, Provincial and International activities within the Fuel Diversification Division at Natural Resources Canada. He has over 10 years of experience in fostering greater production and use of low carbon fuels across the economy. He has led and contributed to the development of various programs and policies, aimed to decarbonize Canada's economy, including The Hydrogen Strategy for Canada, electrification of transportation, electric and alternative fuels infrastructure, and greening government fleets. His work extends internationally, including representing Canada on several initiatives under the Clean Energy Ministerial. He has a Ph.D in chemistry, with a focus on catalytic activation of small molecules, including hydrogen, and methane.



**Edward Stuart, Hydrogen Optimized**

Edward Stuart is the Vice President of product strategy for Hydrogen Optimized. The Stuart family's pedigree dates to 1905, when Alexander T. Stuart, Canada's hydrogen pioneer, concluded that hydrogen and oxygen were the key building blocks to a sustainable clean and diverse energy and industrial world. Edward Stuart co-founded Hydrogen Optimized in 2017 with a vision to enable economic hydrogen production using renewable energy. His vision is that by 2030, the adoption of large-scale Green Hydrogen for energy and industrial purposes will have improved the quality of life for all individuals worldwide enabled by our patent pending RuggedCell technology.

# SPEAKERS

## SESSION IV | 15:40 - 16:45 GMT



**Luisa Carrilho da Graça,**  
**Gómez-Acebo & Pombo Abogados**

Luísa is the senior associate in the Corporate Finance and Energy departments of Gómez-Acebo & Pombo S.L.P. – Sucursal em Portugal. LL.M. in Commercial and Financial Law, King's College London (2008). Law Degree, University of Lisbon (2004). Member of the Portuguese Bar Association (Ordem dos Advogados) since 2006.



**Tony Wright,**  
**FORCE - Fundy Ocean Research Centre for Energy**

Tony is the general manager of the Fundy Ocean Research Centre for Energy (FORCE), Canada's leading facility for tidal stream technology research. Created to better understand if this technology can play a safe, effective role in Canada's energy future, FORCE hosts tidal stream technology developers at the test site and conducts environmental monitoring and research. Prior to assuming the role of general manager, Tony served as FORCE's Director of Marine Operations, and before that as a naval engineering officer in the Royal Canadian Navy, holding a variety of technical and leadership roles onboard Canadian vessels and ashore.



**Mário Vieira,+ATLANTIC Colab**

Mário is a Mechanical Engineer from Técnico Lisbon, with a PhD in Leaders for Technical Industries from the same institution. During his master thesis, he was an intern at the Pico Wave Power Plant, having produced research on the failure analysis of the guide vanes, whilst supporting the operation and maintenance processes of the plant. During his PhD candidacy, Mário produced research on the viability of monitoring systems on the support structures of offshore wind. Throughout the PhD, Mário gained interest in entrepreneurship, having been part of two different start-ups. Mário is currently a Consultant for the Energy field on the +ATLANTIC Colab.



**Nicolas Wallet,**  
**EMEC - European Marine Energy Centre**

Trained as a lawyer in France, Nicolas started his carrier working for economic development team on innovative and sustainable transport solutions for London. Nicolas then worked in UK on Marine Renewables strategy and Research programmes. In Brussels Nicolas led the writing of the first European Technology & Innovation Platform for Ocean Energy Research Priorities used by the EU Commission to write H2020 calls. At EMEC Nicolas led on EU Projects implementation such as FORESEA project finalist at the EU Sustainable Energy Week Award 2019. Nicolas is now based in Ireland for the Floating Offshore Wind Project AFLOWT and MegaAWE as well as managing EMEC portfolio of Projects.



**Helena Vieira, DGPM – Directorate-General for Maritime Policy of the Ministry for the Sea**

Helena is the current Director General of Maritime Policy under the Minister of the Sea, in Portugal. She has over 20 years of professional experience both in academic, industry and political backgrounds, holding lecturer (University of Lisbon and University of Angola), expert (UN-DOALOS, BBI-JU, EU-IPO, EUCOM – EIC and EASME), management and coordination positions in the fields of life and ocean sciences and bioeconomy backgrounds. Helena has a PhD in Biomedicine (Imperial College of London) and an Executive Post Graduation in Leadership and Strategy in Biotech & Pharma from Harvard Business School. She has founded a few start-ups and was co-founder and CEO (2005-2013) of BIOALVO SA, a Portuguese biotech company. Helena was also Executive Director of BLUEBIO ALLIANCE (2014-2019), and a Full Associated Professor of FCUL, in Entrepreneurship, Innovation and Technology Transfer (2008-2020).

## CLOSING SESSION | 16:45 - 17:15 GMT



**João Galamba,**  
**Ministry for the Environment and Climate Action**

João Galamba has a degree in Economics from the Faculty of Economics of Universidade Nova de Lisboa. He completed his PhD in Political Science at the London School of Economics, having taught Political Philosophy in the Government department. He worked at Banco Santander de Negócios, at DiamondCluster International consultant, at the Portuguese Presidency of the Council of the European Union. He entered the parliament in 2009, being a deputy in the XI, XII and XIII Legislatures. He was coordinator of the Socialist Party deputies in the Budget and Finance Committee and Vice-President of the Socialist Party Parliamentary Group. He has been Secretary of State for Energy since October 2018.



**Manuel Heitor, Minister of Science, Technology and Higher Education**

Manuel Heitor holds a PhD from Imperial College of London in Mechanical Engineering, and a post doctorate in California University, in San Diego. He pursued his academic career at Instituto Superior Técnico, where he developed investigation activity in Fluid Mechanics and Experimental Combustion. He was Secretary of State of Science, Technology and Higher Education between March 2005 and June 2011. Recently, he was one of the promoters of the European network step4EU, science, technology, education and policy for Europe, and the International Observatory of Global Politics for the Exploitation of Atlantic Ocean. In July 2015, he promoted the manifesto «Knowledge as Our Common Future».