



## WAVEC SEMINAR - SPEAKERS



### **António Sarmento, 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.



### **Tarja Laitainen, Embassy of Finland**

Ambassador Tarja Laitainen arrived in Lisbon in October 2016. Prior to that she was the Director of the National Security Authority for four years at the Ministry for Foreign Affairs in Helsinki. In 2009-2012 she was the Finnish Ambassador in Bulgaria, in 2005-2009 in Luxembourg, and in 2002-2005 Roving Ambassador in Afghanistan and Pakistan. During her career she has also served in Brussels, Paris, Tokyo, Lima and New York.



## PANEL I



### **Miguel Marques, PwC**

Economy of the Sea Partner at PricewaterhouseCoopers Portugal

Miguel Marques is the Economy of the Sea Executive Partner at PricewaterhouseCoopers Portugal. Since he completed the degree in Economics at Porto University he has been working at PricewaterhouseCoopers as advisor of multinational companies related with several industries, including ports, shipbuilding, offshore energy, aquaculture, energy, maritime transportation and biotechnology. He speaks regularly at conferences and other events around the world regarding off shore activities and sea industries.

Miguel has worked with leaders and executives across Europe, The Americas and Asia in order to help them make the best business decisions.

Miguel is the author of HELM – PwC Economy of the Sea Barometer (World), a compilation of data that allows, a better understanding of the evolution of the economy of the sea. Simultaneously, HELM enables trend analysis and the evaluation of decisions that are being taken by various economic agents. HELM is a barometer made up of quantitative information transformed into indexes and perspectives of top managers provided by questionnaires answered by CEO's of several important entities operating in different subsectors of the economy of the sea.



### **Ramiro Neves, IST**

Professor of Fluid Mechanics and Environmental Modeling at the Instituto Superior Técnico (IST), University of Lisbon and the MARETEC Environmental Modeling Group's coordinator. Mechanical engineering from IST and Ph.D in applied sciences - hydrodynamic Modeling-from the University of Liège, in Belgium. Promotor of the development of MOHID modeling system that includes integrated models for free surface flows (MOHID Water) and watersheds (MOHID Land). Participated in more than four dozens of projects and supervised 16 doctoral theses and is the author or co-author of 68 articles in international newspapers and 18 book chapters and co-editor of 2 special issues of magazines and books (<http://orcid.org/0000-0001-6571-5697>).





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### António Pascoal, IST

PhD in Control Science from the University of Minnesota, Minneapolis, MN, USA. Professor of Control and Robotics at IST, University of Lisbon, Portugal. Member, Scientific Council of the Institute for Systems and Robotics, Lisbon. Adjunct Scientist, National Institute of Oceanography (NIO), Goa India. Expertise in Dynamical Systems Theory, Robotics, Navigation, Guidance, and Control of Autonomous Vehicles. His long-term goal is to contribute to the development of advanced robotic systems for ocean resources exploration and exploitation.



### Pasi Laihonon – Finnish Environment Institute

Pasi Laihonon is a trained marine scientist with a PhD on global biodiversity issues. He is presently working as a Development Manager in the Marine Research Centre of the Finnish Environment Institute (SYKE). His work includes cooperation with other Baltic Sea countries and representing Finland in several international bodies. Among his previous duties Laihonon has been in charge of the laboratory and environmental monitoring activities for the governmental environmental authority, as well as for the academia. Having participated in planning and implementation of national environmental monitoring and marine pollution response programmes, Laihonon has gained profound understanding of environmental monitoring as well as reporting. Besides in Finland, Laihonon has worked among these issues in Africa and Asia for several years.

Laihonon has

- 30 years' work experience on marine and environmental issues in Finland and internationally
- Excellent knowledge of environmental administration at local, regional and central level
- Versatile experience in management and leadership of expert organisations
- Excellent project management experience on environmental development projects
- Long term international project management experience in Asia and Africa
- Versatile writing and reporting skills for multiple purposes (administrative, scientific, awareness raising) in Finnish and English



### Pedro Encarnação, Jerónimo Martins

Dr. Pedro Encarnação has an extensive background in aquaculture and nutrition. He has an Honors Degree in Marine Biology and Fisheries and an MSc in Aquaculture from the University of Algarve (Portugal), and obtained his PhD in Animal Nutrition from the University of Guelph (Canada).

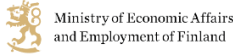
He spent 10 years in Asia as Director of Business Development for the Aquaculture industry in a Biotech company (Biomin). Recently he returned to Portugal to assume the position of Aquaculture director at Jerónimo Martins Agri-Business, where he will be responsible to set up aquaculture projects to supply the group stores. Dr. Encarnação has published various articles in peer reviewed scientific journals as well as numerous technical articles for industry magazines. Dr. Encarnação has also given an extensive number of oral communications in many international conferences and seminars around the world.



### Jari Haapala, Finnish Meteorological Institute

Research Professor Jari Haapala, Head of Marine Research Unit, Finnish Meteorological Institute  
Jari Haapala is a physical oceanographer, graduated at the University of Helsinki in 2000. For over 20 years, his research has centered on a climate variability and change, development of numerical models and sea ice dynamics research. His expertise extends through a broad range of techniques, from experimental field research and data-analysis to numerical modelling. Dr. Haapala is a developer of a sea ice model HELMI, which has been used in several applications and as an operational forecasting model. He is also an experienced fieldwork scientist, conducted and coordinated research experiments both in the Arctic Ocean and the Baltic Sea. Currently, he is the head of the Marine Research Unit at the Finnish Meteorological Institute and adjunct professor at the University of Helsinki. He has been involved in several international research projects such as IceState, IRIS, SafeWin, Damocles, SPICES, SmartSea and been active in many international bodies, like the Finnish represent of the IOC, EuroGOOS, ArcticROOS and EuroArgo. He has authored 50 peer-reviewed publications and 50 other scientific reports. He has 20 years experience on teaching and supervision in the university level. He has been a visiting scientist at the Institute of Marine Research, Kiel, Germany, University Louvain La Neuve, Belgium, Rossby Center, Sweden, Max-Planck Institute of Meteorology, Germany and at the Norwegian Polar Institute.





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### Miguel Lopes, WavEC

Miguel Lopes Holds a MSc in Civil Engineering and a PhD in Mechanical Engineering at Instituto Superior Técnico related to tank testing of Wave Energy Converters. Miguel has been working in offshore renewable energy projects since 2006. Leading a team of 5 engineers/researchers at WavEC, he is involved in the project development, management and implementation of several projects and coordinates the Technology and Monitoring team.

## PANEL II



### Jorge Vasconcelos, NEWES

Chairman of NEWES, New Energy Solutions. Consultant to several international organizations and national authorities. Invited Professor at the Instituto Superior Técnico (Technical University of Lisbon). Author and editor of several books and articles. Graduated in power systems from Porto University and got the Dr.-Ing. degree from the University of Erlangen-Nuremberg. First chairman of the Portuguese Energy Regulatory Authority. Founder and first chairman of the Council of European Energy Regulators Founder and member of the Executive Committee of the Florence School of Regulation. Prior to the regulatory experience, he worked in industry and at several European universities.



### António Vidigal, EDP

António Vidigal is the President of EDP Inovação, a company that has the mission to develop Innovation and Added Value to the EDP Group. Offshore Energy is one of the areas where EDP Inovação focuses its activity having the floating offshore energy project WindFloat as a result of this effort of innovation and development.



### Heli Antila, Fortum

Dr Heli Antila, Chief Technology Officer, Fortum Oyj since June, 2012. In Fortum her main tasks are to capture and develop technology enabled business opportunities for Fortum. The framework for these new business opportunities is defined in Fortum's vision of Solar economy. Thus the future technologies we are interested are all carbon-free and mostly renewables, e.g. bioeconomy, wave and solar power as well as flexible energy systems and advanced customer solutions. The Clean Energy Ministerial (CEM) has nominated Heli Antila as ambassador for clean energy.



### John Liljelund, AW Energy

Mr. John Liljelund is the Chief Executive Officer and one of the founders and of AW-Energy Ltd, a world leading wave energy technology provider that has developed the revolutionary WaveRoller® technology for harvesting ocean wave energy in near-shore locations. He oversees company strategy and operational execution of the commercial roll-out currently ongoing in four continents.

Mr. Liljelund has almost two decades of work experience from the industry and renewable energy sector in general, including board positions in group companies of Enersis/InfraVentus Group, - specialized in developing and operating renewable energy assets with more than 1100MW of built wind, solar and small hydro energy capacity in Australia, Africa, Europe and Central America

He holds M.Sc. in Engineering from the Helsinki University of the Technology.





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### Heikki Paakkinen, Wello

Heikki Paakkinen has been developing wave energy technologies practically all his life. In the beginning it was merely a hobby. He spent hours staring at waves and contemplating the mystery of energy: how to get it out of waves. It became an obsession. There must be a way to get the vast amount of energy out of waves and in use. Heikki developed different gadgets and has built and tested in scale practically all existing WEC technologies. This continuous struggle towards better and better technology resulted finally to the invention of a special hull shape that converts wave motion directly into rotation. This is the basis for Wello's technology. Since eight years Wello's excellent team has continued the story Heikki started making wave energy available for everybody in competitive price.



Wello  
DIRECT CONVERSION



### Francisco Garcia, Wedge Global

Francisco García Lorenzo is MIT (Massachusetts Institute of Technology) alumnus, holds an Industrial Engineer degree and has a professional experience of more than 16 years in the renewable energy sector, both in the private industry as in the public sector as an Advisory Member of the Office of the Secretary for Energy of Spain.

He has also been involved in the International Energy Agency (2006-2008) as Delegate, on behalf of Spain, at the Renewable Energy Working Party on Renewable Energy Technologies (REWP-RET) as well as observer in the Ocean Energy Systems Implementing Agreement (OES-IEA).

Currently, Francisco is APPA Marina President, the most representative renewable energy industry in Spain and highly recognized in Europe; Executive Director of the Renewable Energy Program at EOI Business School, and Wedge Global (\*) CEO ([www.wedgeglobal.com](http://www.wedgeglobal.com)).

(\*)Wedge Global is a technology mid stage start-up, created to develop an innovative solution for generating electricity from ocean waves and to reduce wave electricity production costs to sustainable levels through technology development, operational excellence and scalability to ultimately compete with conventional generation. <http://www.wedgeglobal.com/en>



## PANEL III



### Tiago Pitta e Cunha, Ocean Vision

Tiago Pitta e Cunha is a specialist in ocean policies and maritime affairs. In this capacity he has worked at the United Nations, the European Commission, for the Government of Portugal and as an advisor to the former President of the Portuguese Republic. He is currently in charge of the launching of the Oceano Azul Foundation. A Foundation exclusively dedicated to ocean sustainability.



### Ruben Eiras, Ministry for the Sea

Adviser of the Minister of the Sea for Energy and Industry. Science and Technology Manager in the Research and Technology Department of Galp Energia. Director of the Energy Security Program of the Luso-American Foundation for Development (FLAD). Energy Security SAS Technical Member of the Science and Technology Organization of NATO. Member of the Group of Experts on Natural Gas of the United Nations Economic Commission for Europe (UNECE). Phd in History, Defence and International Relations from ISCTE - University Institute of Lisbon (ISCTE-IUL), in partnership with the Military Academy, with the thesis: Energy Security Policy – the potential for strategic cooperation between Portugal and Brazil. Executive Master in Sustainable Energy Systems from MIT-Portugal (Instituto Superior Técnico, Universidade de Lisboa). Degree in Sociology of Labour from Instituto Superior de Ciências Sociais e Políticas, Universidade de Lisboa.



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### Nuno Matos, WavEC



Nuno Matos graduated in Telecommunication and Electronics in 1974. Since that year he joined Portugal Telecom to work at operational and engineering areas. In 1981 he moved to the Commercial Direction, being Commercial Director of Telepac (PT subsidiary for Data Communications) since its creation in 1984. Board Member of Telepac between 1996 and 1999. Vice President of Lusa (Portuguese News Agency) between 2000 and 2003. Director of Revenue Assurance, Fraud and Credit Control of TMN (PT Mobile subsidiary) between 2003 and 2007. WavEC Consultant since 2009. He started his Phd in the field of public policies in 2011.



### Teresa Simas, WavEC



Teresa holds a MSc on Marine Ecology and a PhD on Ecological Modelling from the Nova University of Lisbon, where she worked, during 10 years, as associate researcher at the Marine Ecological Modelling team. She has been also involved in Environmental Impact Assessment consultancy for projects to be installed at sea, and on the national implementation of European Directives related with marine environment quality standards. Teresa integrated WavEC in 2008 to coordinate the Marine Environment team. Since then she has been involved in several European funded projects, on marine renewable energy environmental impacts and their assessment, as well as on the environmental licensing process and monitoring activities of several marine renewable energy projects.



### Teppo Vehanen, National Resources Institute Finland



Teppo Vehanen is a senior researcher at the Natural Resources Institute Finland. He received his Diploma (M.Sc.), Doctorate (Ph.D.) and Docenture in Fish Biology from the University of Oulu, Finland. In 2008 he accomplished a Diploma in Environmental Economics from the University of Helsinki. He has 25 years of experience from the blue bioeconomy, especially from the fish and fishery issues. He is author of more than 40 peer reviewed scientific publications and numerous other publications. Currently he is working on several international duties in Europe, like Water JPI, EIFAAC and ECOSTAT.



### Okko-Pekka Salmimies, Ministry for Foreign Affairs of Finland



Mr. Salmimies was born in 1967 and holds a Masters in Political Sciences, Economics and International law from the University of Helsinki which he obtained in 1993.

Mr. Salmimies worked in EFTA Secretariat in Geneva from 1993 to 1994. From 1994 to 1996 he was Research Fellow in the Finnish Institute for International Affairs specializing in international trade and globalization. In 1997 he worked as editor and consultant in a communications company in Helsinki and later that year entered the Ministry of Foreign Affairs as an Attaché.

From 1998 to 2001 he served as First Secretary at the Permanent Representation of Finland to the European Union in Brussels and was responsible for trade policy and transatlantic relations. In 2001 he returned to the Ministry of Foreign Affairs and served as First Secretary responsible for trade in services at the Department for External Economic Relations.

From 2003 to 2005 he served as Adviser and Head of Cabinet to the Minister for Foreign Trade, Development and European Affairs. In 2005 he was appointed Deputy Permanent Representative of Finland to the OECD in Paris, where he served until 2009.

In 2009 he returned to the Ministry for Foreign Affairs as Director at the Department for Development Policy. From 2011 to 2013 Mr. Salmimies worked as Director at the Department for External Economic Relations.

In 2013 he was nominated as Permanent Representative and Ambassador of Finland to the OECD and UNESCO in Paris, where he served until 2016.

He returned to the Ministry of Foreign Affairs in 2016 and took up his duties as Ambassador for Team Finland, Coordinator of export and investment promotion activities.





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### **Toni Sulameri**, Suomen Hyötytuuli Oy

Toni Sulameri (Master of Science, Engineering) is Managing Director of Suomen Hyötytuuli Oy. He has three years' experience in the field of wind power. Prior to that, Sulameri has worked over 20 years in several management positions within manufacturing, mainly in the field of mechanical engineering.

## PANEL IV



### **António Sá da Costa**, APREN

President of the Board of APREN – Portuguese Renewable Energy Association. Professor of Hydraulics and Water Resources of Instituto Superior Técnico, Lisbon for 28 years, consultant in the water resources and renewable energy for over 40 years.



### **António Costa Silva**, Partex

António Costa Silva is Chairman of the Management Commission of PARTEX OIL AND GAS Group. PARTEX is involved in oil and gas operations in Abu Dhabi, Oman, Kazakhstan, Brazil, Algeria, Angola and Portugal.

He is also Professor at IST – Instituto Superior Técnico (Technical University of Lisbon) where he got his aggregation in Planning and Integrated Management of Energy Resources. He holds an MSc in Mining Engineering from (IST), an MSc in Petroleum Engineering from the Imperial College (University of London) and a Doctorate Degree from the Technical University of Lisbon and Imperial College.



### **Victor Baptista**, REN

Director of Institutional Relations of REN, SGPS, SA

Victor Baptista Institutional Relations Director of REN, SGPS, SA has a degree in electrical engineering from the Faculty of Engineering of the University of Porto (FEUP), has additional training in energy planning from the University of Chicago/Argonne National Laboratory (USA), where he later was involved as lecturer in postgraduate courses in the area of Electrical Systems Planning. Also in Portugal has participated as a trainer in these fields of energy in the several Universities and Institutions. Responsible for international projects in the area of the electrical sector under the aegis of the World Bank and also within the framework of international cooperation of the company, he was also Assistant Professor at FEUP from 1975 until 1980. Director of the Board of REN, between 2001 and 2010, plays currently as Director of Institutional Relations of the Group REN accumulating with the Vice President of Med-TSO-Mediterranean Transmission System Operators Association and the Portuguese chairmanship of CIGRÉ-International Council of Large Electric Systems.



### **Markku Mylly**, EMSA

Mr. Mylly started his maritime career in the Finnish Merchant Shipping 1973. He attended Rauma Maritime College of the Satakunta University of Applied Science, obtaining a Bachelor of Science in maritime studies and qualifying as an Officer and Master Mariner in 1980. He sailed on Finnish ships until 1987 when he joined the Finnish Maritime Administration (FMA), where he served until 2010. He was appointed Executive Director of EMSA (European Maritime Safety Agency) in 2012.





*Presidência da República*



Ministry of Economic Affairs  
and Employment of Finland



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**Janne Peltola**, Ministry of Economic Affairs and Employment of Finland

Janne Peltola works as Ministerial Adviser in the office of the Permanent Secretary of the Ministry of Economic Affairs and Employment. He has worked in the ministry since 2009. Besides assisting the Permanent Secretary in industrial policy issues, he is responsible for coordinating all the maritime cluster issues in the ministry. He also deals with Arctic-related issues. He is e.g. a member of the steering group of Tekes Arctic Seas programme and Arctic Advisory Board appointed by the Prime Minister's Office. Within his duties, Janne Peltola takes part in national, EU and international policy fora covering marine industry and Arctic issues.

