CDTI-NEDO Joint Workshop on
NEXT GENERATION TECHNOLOGY OF OFFSHORE WIND POWER
Monday 8 July, 2019 – Speakers’ Profiles

Opening Session

Isamu YAGYU
Director-General
Natural Resources, Energy and Environment Department
Kyushu Bureau of Economy, Trade and Industry
Ministry of Economy, Trade and Industry (METI)

April 1989  • Ministry of Economy, Trade and Industry
July 2011  • Professor, Center for Industry-Academia-Government Collaboration, Tokushima University
July 2013  • Advisor to Executive Director, Center for Industry-Academia Government Collaboration, Nagoya Institute of Technology University
June 2015  • Director General, International Affairs Department, New Energy and Industrial Technology Development Organization
June 2018  • Director-General, Natural Resources, Energy and Environment Department, Kyushu Bureau of Economy, Trade and Industry, METI
<Education> Master’s course, Tokyo Institute of Technology University

Noriyoshi FUKUOKA
Principal Deputy Director, Trade Promotion Division, METI

<Expertise>
Industrial Policy, Healthcare Policy, Energy Policy
2007 Joined the Ministry of Economy, Trade and Industry (METI)
2011 Deputy Director, Chemical Industries Division, METI
2012 Deputy Director, Healthcare Industries Division, METI
2014 Second Secretary, Embassy of Japan in Thailand
2017 First Secretary, Embassy of Japan in Thailand
2017 M.A. Program in International and Development Economics, Yale University
2018 Principal Deputy Director, Trade Promotion Division, METI
<Education>
2018 M.A. International & Development Economics, Yale University
2007 Bachelor of Engineering, the University of Tokyo

Tomás ROMAGOSA Cabezudo
Spanish Wind Energy Association (AEE)
Technical Director
tromagosa@aeoelica.org

Industrial Engineer by Pontificia de Comillas University (ICAI), works as Technical Director of the Spanish Wind Energy Association since 2017, being responsible of the following areas related to wind energy: Grid Integration, Electricity Markets, Industrial Agenda, Life Extension, Operation and Maintenance, Offshore Wind and Research & Development.
He is also coordinator of the Spanish Technical Committee of Standardization in Wind Turbines, and
member of the board of REOLTEC, the technological platform of Wind Energy in Spain. Previously, he has more than 10 years of experience as group manager in energy and infrastructure projects, working in several consultancy and construction companies such as ISDEFE and TECONSA.

Yuji MITSUTAKE
Co-CEO
Port & Harbour Bureau of Kitakyushu
Email: yuji_mitsutake01@city.kitakyushu.lg.jp

<WORK EXPERIENCE>
・Co-CEO, Port & Harbour Bureau of Kitakyushu  April, 2019
  Executive Director, “Green Energy Port” Project Division
  Director, Port Logistics Promotion Division
  Manager, HIBIKINADA Port Planning and Construction Project Office
・The Overseas Coastal Area Development Institute of Japan  (1994-1998)
  Ferry Network Project in Indonesia
  Port of Laem Chabang Linkage Project in Thailand
  Panama Canal Rehabilitation Project
・Port & Harbour Bureau of Kitakyushu  (1990-1994)
  Port Promotion Division

<EDUCATION>
・Local Autonomy College, Ministry of Internal Affairs and Communications, Japan
  September, 1989

José Ignacio HORMAECHE
General Manager
Basque Energy Cluster (Cluster de Energía)
jihormaeche@clusterenergia.com

Mr. Hormaeche is the General Manager of the Basque Energy Cluster, a non-profit private organization with the mission of improving competitiveness in the Basque energy sector through collaboration. BEC integrates main companies in the energy supply chain in the Basque Country (energy operators, manufacturers and service companies), scientific-technological organisations, and public administration bodies with responsibilities in the energy area. Previously, he also worked as Managing Director of the Basque Energy Agency, as Chief Operating Officer of Gamesa and as Deputy Director of Robotiker, a technology center that nowadays is part of Tecnalia.
Masaharu ITOH
Senior Researcher,
New Energy Technology Department
NEDO

April 2017 : Senior Researcher, New Energy Technology Department
July 2014 : Director General, New Energy Technology Department
October 2009 : Director, New Energy Technology Department

Masaharu Itoh is Senior Researcher of the New Energy and Industrial Technology Development Organization (NEDO), which he joined in 2006. Mr. Itoh leads the NEDO’s projects on wind energy, with providing analysis and planning on technology development along with the national strategy of promoting wind energy. He launched and directed the demonstration projects of the bottom-fixed offshore wind in Choshi and Kitakyushu and engage in the floating offshore wind project in Kitakyushu at the present.
Email: itohmsh@nedo.go.jp

Session 1. Bottom-fixed offshore technologies and cases

Koichi KAWASAKI
Assistant Senior Manager
Business Development Section, Corporate Planning Division
Kyuden Mirai Energy Company, Inc.

<WORK EXPERIENCE>
August 1998 - July 2000: West Japan Engineering Consultant, Inc* (Geothermal Division)
August 2000 - March 2003: New Energy and Industrial Technology Development Organization* (Geothermal Division)
April 2003 - June 2006: Kyushu Electric Power Company (Sales Division)
July 2006 - June 2008: Kyushu Economic Federation*
July 2008 - June 2010: Kyushu Electric Power Company, Assistant Manager
July 2010 - June 2014: Kyushu Electric Power Company, Assistant Manager
July 2014 - June 2016: Kyushu Electric Power Company, Assistant Manager
July 2016 - present: Kyuden Mirai Energy Co.,INC*
Assistant Senior Manager (from July 2017)
Business Development Section, Corporate Planning Division
*: Dispatch from Kyushu Electric Power Company

<EDUCATIONAL ATTAINMENT>
March 1995: M.A. in Faculty of Engineering, Kyushu University, Japan
March 1993: B.A. in Faculty of Engineering, Kyushu University, Japan
email: kouichi.kawasaki@q-mirai.co.jp
Lara CERDÁN Aznar
Esteyco S.A.
Head of R&D Dept.
lara.cerdan@esteyco.com
MEng CIVIL ENGINEERING
Joined ESTEYCO in: 2016
<Education>:
Bachelor of Science in Civil Engineering.
Concentration in Civil Construction.
Polytechnic University of Alicante. Class of 2011.
Master of Science in Civil Engineering with distinction by the
Polytechnic University of Alicante. Class of 2014.
Languages: Spanish (mother tongue), English (advanced level) and Chinese (intermediate level).

Lara obtained her Bachelor's degree in Civil Engineering focused on civil construction from the Polytechnic University of Alicante. Afterwards, she graduated with honors by the Polytechnic University of Alicante in her Master's degree in Civil Engineering. She completed her master studies at Vilnius Gediminos Technical University in Vilnius (Lithuania) and she finished her dissertation project at Southwestern University of Science and Technology, Mianyang (China), under a prestigious scholarship program.

Since she joined Esteyco in 2016, she has worked for the R&D department and since 2017 is responsible for its management where she coordinates the company's research and development activities in order to define projects' goals and to set their budgets. It carries out the management of both national and international research projects (H2020, Interreg, Eurostars) coordinating the different activities.
In addition, she participates in the writing and technical assistance of new research projects in the field of offshore wind energy, an area in which she has focused her specialization.

Saik PARK
SCADA Engineer, Wind Turbine Maintenance Technician
Hokutaku Co., Ltd.

<Hokutaku Co., Ltd.>
■ November 2012 – present
SCADA Engineer
・ Worked with Mita-Teknik on installation and configuration of new software for SCADA platforms
・ Followed up customer issues and performed necessary troubleshooting, fault finding and diagnostics
Wind Turbine Maintenance Technician
・ Performed scheduled and unscheduled maintenance on wind turbines: NEG Micon, Vestas, Nordex, Lagerwey, Mitsubishi and Hitachi

<Hyosung Heavy Industries, South Korea>
■ January 2008 – June 2011
Mechanical Engineer
・ Designed jigs, fixtures and mechanical components for 750kW and 1.5MW wind turbine and produced CAD solid models, detailed drawings, and assemblies.

<Ajou University, South Korea>
■ March 2001 – February 2008
・ Bachelor’s Degree in Mechanical Engineering
Carlos BERNABÉU
CEO, Arborea Intellbird S.L.
carlos@aracnocoptero.com

Founder of the company Arborea Intellbird, in the Scientific Park of the University of Salamanca, where he is a teacher in national and international masters.
Advisor to the Spanish State in matter of drones AESA.
Introduces in a pioneering way drones and the concept of deferred digital inspection in the inspection of large energy industry structures in onshore and offshore wind, vertical concrete and power lines in Europe, America and Asia for companies such as Iberdrola, EDPR, Vestas, REE, Naturgy. Developed the first digital platform for the safe management of drones in U-space. Falconer since the age of 17, founded and presided over the Spanish Association of Falconry and Raptor Conservation. Member of the advisory committee of the Ibero-American Falconry Archive.
Author of various books, publications and patents.
Ice climber and deep sea freediver.

Session 2. Floating offshore technologies and cases

Osamu AZUMAYA
General Manager
Engineering and Technology Development Department
Wind Power Business Unit
HITACHI ZOSEN CORPORATION
E-mail: azumaya@hitachizosen.co.jp
Education: B.Eng.
Work Experience
- April 1991 – Present, Hitachi Zosen Corporation
- 17 years’ experience in design of steel bridges
- 7 years’ experience in design of steel stacks
- 3 years’ experience in design of marine structures
- Involved in NEDO’s floating offshore wind turbine demonstration project since July 2016 and mainly responsible for the design of floating structure and mooring system.
Xabier AGUIRRE  
Renewables Business Manager  
Vicinay Marine, S.L.  
xaquuirre@vicinaymarine.com

Mechanical M.Sc (Eng) in the University of the Basque Country and certified Project Manager Professional (PMP), with more than 12 years in Vicinay Marine.

From 2006 to 2011, working as Project Manager for all major O&G international companies, such as ExxonMobil, BP, Shell,...

From 2011 to 2017, Head of Project Management Department, and member of the managing board. In 2017, he was appointed as Renewables Business Manager, a new business line created within Vicinay Marine.

Iku SATO  
Senior Director, Energy Division  
Toda Corporation

After graduating from Kyoto University in 1991, Iku Sato joined Toda Corporation and has been engaged in a wide range of projects related to design and construction of social infrastructures such as bridges, dams and tunnels.

A major achievement has been the joint project to design the world's first hybrid-spar floating wind turbine platform, which was installed in 2013, making it Japan’s first and the world’s third commercial-scale floating offshore wind power facility.

The evaluation and feasibility of the plant was completed and started commercial operation from March 2016. Since 2018, he is Senior Director at the Energy Division, and is responsible for driving and disseminating technological developments for decarbonization.
Pedro M. MAYORGA Rubio  
President and Chief Technology Officer  
Enerocean, S.L.  
Pedro.mayorga@enerocean.com

Engineer with more than 24 years of experience. He started as manufacturing and maintenance engineer at General Motors group and as renewable energy expert in a research center, before creating EnerOcean.

Founder of EnerOcean, the oldest Spanish company specialised in marine energy, Mr. Mayorga has led the development of W2Power since 2012, including design, tank testing, control and monitoring solutions and finally coordinating the project that has built the current scale prototype, first floating platform in Spanish waters and the first multirotor design to achieve this technological level.

Associated Professor at Malaga University (Marine Energy). Member of several associations and committees.

Session 3. New Designs and Concepts

Shigeo YOSHIDA
Dr. Engineering, Professor  
Research Institute for Applied Mechanics  
Kyushu University  
e-mail: yoshidas@riam.kyushu-u.ac.jp

Shigeo Yoshida is a researcher/engineer of wind turbine, especially in the fields of aerodynamics, aeroelastics, and control. He started R&D of wind turbines at SUBARU in 1996, after several years of carrier as an aeronautical engineer. He had contributed to the developments of 40, 100, 2,000, and 5,000kW onshore/offshore/floating offshore wind turbines there and at Hitachi. He is rather focusing on innovative concepts and analysis technologies since he transferred to the present position in 2013.

Alex RAVENTOS, Co-founder & CEO  
Exponential Renewables S.L. (X1 Wind)  
alex.raventos@x1wind.com

Alex Raventos has been involved in offshore renewable energies since 2008, having worked in wave, tidal and offshore wind projects at Abencis (Spain), WAVEC (Portugal), Bluewater (Netherlands) and Inn2Grid. In 2017, he co-founded X1 Wind with Carlos Casanovas, to develop a disruptive floating wind concept conceived by Carlos while at MIT.
Alex holds a Bachelor of Science in Industrial Engineering by UPC (Barcelona) and a master's degree in Sustainable Energy Systems by the MIT-Portugal program. He was also one selected participants in the Global Solutions Program developed by Singularity University at NASA Ames Research Centre and co-founded by Google.
Yosuke Yagi  
Director of Engineering Division  
FUJI P.S CORPORATION  
y.yagi@fujips.co.jp

Yosuke Yagi is civil engineer and specializes prestressed concrete (PC) technology. Since 2013, he is the Director of Engineering Division. He had been directing the construction of many PC bridges for more than 30 years and had also worked on the construction of bridges that adopted the new design concept with precast concrete. His experience is now being utilized in efforts to apply PC technology to wind turbine support structure.

Mariano ABADIA
CEO
HWS CONCRETE TOWERS S.L.
www.hwstowers.com  
mabadia@hwstowers.com

MSc. in Civil Engineering, Structural Engineer, by the UPC-University of Catalunya (1991) and MBA from IESE Business School, University of Navarra (2006).

He has an experience of **26 years in construction and engineering companies both in Public Works and Housing.**
In 2002 become Project Manager on a **Real State company**, managing a Development in the Basque Country area, which had 450 homes. In 2006 he had to complete his studies with a MBA to become COO of a north-Spain area, which involves 25 real state developments (1.500 houses).

Since 2011 was US-market Manager at **Structural Research (S.R.),** a structural engineering firm highly specialized in design worldwide unique precast/prestressed bridges.

In 2011 and 2012 submitted a Paper, with Jesús Montaner (MSc. in Civil Engineering, founder and owner of S.R.), on the Precast/Prestressed Concrete Institute, USA (www.pci.org), introducing our own precast bridges technology with a special joint, called BSST: "Precast Mono-Box Deck of Spliced U-Girders & Planks: Technical Aspects, Cost-Effectiveness and Lessons Learned".

In 2015 he and Mr. Jesús Montaner founded **HWS CONCRETE TOWERS S.L.** business project, deciding to be fully involved in the **AirCrane project.**