

OSES2019 DAY 1 Wednesday July 10, 2019		
TIME	SESSION	ACTIVITY
830	BUS	AIRPORT PICK UP
900	BUS	RAILWAY PICK UP
930	BUS	IMT DROP OFF
0930-0950	BK	COFFEE & CROISSANTS
0950-1020	INTRO	OPENING REMARKS and WELCOME OSES CHAIRS
1020-1050	S1	SESSION 1: PLENARY TALK Funding the Innovation: What is in for Our Ocean <i>Andreea Strachinescu</i> <i>Head of Unit, Directorate-General for Maritime Affairs and Fisheries</i> <i>European Commission</i>
1050-1100	BK	BREAK
1100-1220	S2A	SESSION 2a: OFFSHORE PLATFORMS AND STORAGE MODEL TESTS PANEL LEAD: Anastasia Ioannou
1100-1120	S2A.1	On the Costs of Grid Inertia <i>A. Hoskin, S.D. Garvey, J. Rouse, B. Cardenas, W.Q. Xu</i> <i>University of Nottingham, UK</i>
1120-1140	S2A.2	BEQs - Marine Pumped-Storage Concepts for Floating City Extensions <i>Robert Klar, Regina Mayer, Rames Najjar, Markus Aufleger</i> <i>University of Innsbruck, Austria</i>
1140-1200	S2A.3	Marine Testing of a Small-Scale Prototype of the FLASC Offshore Energy Storage System <i>D. Buhagiar, T. Sant, R.N. Farrugia</i> <i>University of Malta, Malta</i>
1200-1220	S2A.4	Offshore Platform Stability in Extreme Weather Conditions <i>Sarah Nichol, Rupp Carriveau, Lindsay Miller</i> <i>University of Windsor</i>
1220-1300	L	LUNCH
1300-1420	S3A	SESSION 3a: IMPLEMENTATION OF NEW WIND AND STORAGE PROJECTS PANEL LEAD: Alex Slocum
1300-1320	S3A.1	Floating Off-shore Wind Power Strategy in South Korea and R&D Suggestion <i>Young-Ho Lee</i> <i>Korea Maritime and Ocean University, South Korea</i>
1320-1340	S3A.2	A Preliminary Techno-Economic Comparison Between a Grid-Connected and Non-Grid Connected Offshore Floating Wind Farm <i>Anastasia Ioannou, Prof. Feargal Brennan</i> <i>University of Strathclyde, UK</i>
1340-1400	S3A.3	Status of Implementation and Development for Floating Wind Energy in South-East Sea of Korea <i>Byung Ha Kim, Ayham Amin Alhabashna, Dai Hyun Chang, Young Ho Lee</i> <i>Center for Renewable Energy Turbine Researches, Korea Maritime and Ocean University, South Korea</i>
1400-1420	BK	BREAK

DAY 1 - ROOM 1

1420-1450	S4	SESSION 4: PLENARY TALK An Overview of Offshore Renewable Energy Development in France <i>Yann-Hervé De Roeck</i> General Manager French Energies Marines
1450-1550	S5A	SESSION 5a: SUSTAINABILITY IN OFFSHORE ENGINEERING PANEL LEAD: Ed Barbour
1450-1510	S5A.1	Green Hydrogen Multi-Market Optimisation: Real Complementarities or Additional Transaction Costs? <i>Rodica Loisel, Corentin Simon, Maxime Woznicki, Mathias Guérineau, Laurent Baranger, Emmanuel Schaeffer, Lionel Lemiale, Guenael Le Solliec</i> University of Nantes, France
1510-1530	S5A.2	Hydrogen and a New Paradigm for Electricity Storage <i>Kenneth Brown</i> Safe Hydrogen, LLC, USA
1530-1550	S5A.3	Building Sustainable Power Mix in Small Island Grids: a Multi-Criteria Analysis <i>Lionel Lemiale, Rodica Loisel, Salvy Bourguet, Antony Roy, Mohamed Machmoun</i> University of Nantes, France
1630	BUS	IMT PICK UP
1700	BUS	RAILWAY DROP OFF
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1050-1100	BK	BREAK
1100-1220	S2B	SESSION 2b: ADVANCEMENTS IN STORAGE - PART 1 PANEL LEAD: Jochen Bard
1100-1120	S2B.1	Study of Working Fluids for Transcritical PTES Cycles <i>Antione Koen, Pau Farres-Antunez, Alexander J. White</i> University of Cambridge, UK
1120-1140	S2B.2	Effects of Low-Cost Large-Scale Energy Storage in the UK Electricity Network <i>Edward Barbour, Andrew Pimm, David Parr</i> Loughborough University, University of Leeds, University of Geneva
1140-1200	S2B.3	Evaluating the Regional Potential for Emissions Reduction Using Energy Storage <i>Andrew Pimm, Tim Cockerill, Jan Palczewski</i> University of Leeds, UK
1200-1220	S2B.4	Energy Storage for a High Penetration of Renewables <i>B. Cardenas, J.P. Rouse, A. Hoskin, L. Swinfen-Styles, W. Xu., S.D. Garvey</i> University of Nottingham, UK
1220-1300	L	LUNCH

DAY 1 - ROOM 2

OSES2019 DAY 2 Thursday July 11, 2019		
TIME	SESSION	ACTIVITY
800	BUS	RAILWAY PICK UP
830	BUS	IMT DROP OFF
0830-0850	BK	COFFEE & CROISSANTS
0850-0920	S6	SESSION 6: PLENARY TALK Wind Energy Development in the U.S. <i>Daniel Laird</i> Director, National Wind Technology Center National Renewable Energy Laboratory, USA
0920-0930	BK	BREAK
0930-1030	S7A	SESSION 7a: INTEGRATING RENEWABLES WITH STORAGE - PART 2 PANEL LEAD: Daniel Buhagiar
0930-0950	S7A.1	Modeling of Multiterminal HVDC Offshore Grids with Renewable Energy and Storage Integration by Opensource Tools <i>J. Espvik, E. V. Tranulis; S. Sanchez, E. Tedeschi</i> Norwegian University of Science and Technology, Norway
0950-1010	S7A.2	A Pumped Thermal Energy Storage Cycle with Capacity for Concentrated Solar Power Integration <i>Pau Farres-Antunez, Joshua McTigue, Alexander J. White</i> Cambridge University, UK and NREL (USA)
1010-1030	S7A.3	A Comparative Study of Compressed Air Energy Storage (CAES) and Pumped Thermal Energy Storage (PTES) Systems <i>H. Xue</i> Cambridge University, UK
1030-1050	S7A.4	Energetic Macroscopic Representation and Inversion-Based Control of a Grid-Connected MCT Power Generation System with Super-Capacitor Based Energy Storage Unit in Ushant Island <i>Mohamed Trabelsi, Jean-Frédéric Charpentier, Franck Scuiller, Christopher Franquet, Erwan Nicolas</i> French Naval Academy (France), Entech (France), SABELLA(France)
1050-1110	BK	BREAK
1110-1230	S8A	SESSION 8a: INTEGRATING RENEWABLES WITH STORAGE - PART 1, WIND PANEL LEAD: Rupp Carriveau
1110-1130	S8A.1	Engineering and Cost Study of an Offshore Wind Farm Compressed Air Energy Storage System <i>William Hurley, Alan J Orthmann, Ben M Enis, Paul Lieberman</i> Hurley Maritime Consulting, Glostten, Inc., EnisEnerGen, USA
1130-1150	S8A.2	Energy Harvesting and Storage System Stabilized Offshore Wind Turbines <i>Alexander Slocum</i> Massachusetts Institute of Technology, USA
1150-1210	S8A.3	Combining Wind-Driven Air Compression with Underwater Compressed Air Energy Storage <i>L. Swinfen-Styles, S.D. Garvey, D. Giddings</i> University of Nottingham
1210-1230	S8A.4	Concept of Offshore Direct Wind-to-Heat System Integrated with Thermal Energy Storage for Decarbonising Heating <i>Yulong Ding, Yi-Chung Chen, Jonathan Radcliffe</i> University of Birmingham, UK
1230-1310	L	LUNCH

DAY 2 - ROOM 1

1310-1340	S9	SESSION 9: PLENARY TALK Wave Energy at Crossroads <i>Gregorio Iglesias Rodriguez</i> Professor MaREI University College Cork
1340-1500	S10A	SESSION 10a: GENERATION - WAVE ENERGY PANEL LEAD: Jochen Bard
1340-1400	S10A.1	Simulation of a Power Electronic Conversion System with Short-Term Energy Storage for Actively Controlled Wave Energy Converters <i>Andrew Hillis, Andrew Plummer, Xianwu Zeng & John Chapman</i> University of Bath (UK), Marine Power Systems Ltd (UK)
1400-1420	S10A.2	Modeling of Submerged Oscillating Water Columns with Mass Transfer for Wave Energy Extraction <i>Sjors De Rooij, Antonio Jarquin-Laguna</i> TUDelft, the Netherlands
1420-1440	S10A.3	Three-Dimensional Numerical Modelling of a U-Oscillating Water Column Array <i>Giovanni Malara, Carlo Ruzzo, Felice Arena</i> NOEL Lab, Mediterranean Univ of Reggio Calabria, Italy
1440-1500	BK	BREAK
1500-1600	S11A	SESSION 11a: ADVANCED GENERATION AND STORAGE PANEL LEAD: Sarah Nichol
1500-1520	S11A.1	The Research of Combined Energy Generation on Overseas by Using Kites <i>Ho Seong Yang, Hyeon Soo Park, Young Hoo Lee</i> Korea Maritime and Ocean University
1520-1540	S11A.2	A Real Scale Prototype to Smooth Short-Time Power Fluctuations of Marine Renewable Energy Sources - Uliss.EMR Project <i>Sophie Molina, Erwann Nicolas, Jean-Frédéric Charpentier, Dr. Franck Scullier</i> Entech SE, SABELLA, French Naval Academy
1540-1600	S11A.3	On the Energy Requirements of UAVs Used for Blade Inspection in Offshore Wind Farms <i>J. P. Aquilina, R.N. Farrugia, T. Sant</i> University of Malta, Malta
1630	BUS	IMT PICK UP
1700	BUS	RAILWAY DROP OFF
1930-2130	GALA	BOAT CRUISE BANQUET DINNER

DAY 2 - ROOM 1

OSES2019 DAY 2 Thursday July 11, 2019		
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800	BUS	RAILWAY PICK UP
830	BUS	IMT DROP OFF
0830-0850	BK	COFFEE & CROISSANTS
0850-0920	S6	SESSION 6: PLENARY TALK Wind Energy Development in the U.S. <i>Daniel Laird</i> Director, National Wind Technology Center National Renewable Energy Laboratory, USA
0920-0930	BK	BREAK
0930-1030	S7B	SESSION 7b: ADVANCEMENTS IN STORAGE - PART 2 PANEL LEAD: Alex White
0930-0950	S7B.1	Transient Thermodynamic Assessment of the World's First Grid Connected UWCAES Facility by Exergy Analysis <i>Mehdi Ebrahimi, Rupp Carriveau, David Ting, Andrew McGillis, David Young</i> University of Windsor, Hydrostor Inc., Canada
0950-1010	S7B.2	Dynamics of Dissolution for Underwater Compressed Air Energy Storage <i>WeiQing Xu, Seamus D. Garvey, Teng Ren, Yu Hu</i> University of Nottingham(UK) and Beihang university (China)
1010-1030	S7B.3	On the Use of Wire-wound Pressure Vessels for a Hydro-Pneumatic Energy Storage Concept Integrated in Floating Wind Turbines <i>T. Sant, R. N. Farrugia. D. Buhagiar</i> University of Malta, Malta
1030-1050	S7B.4	Molecular Investigation on the Specific Heat Capacity Enhancement of Molten Salts Based Nanofluids for Thermal Energy Storage <i>Xiaohui She, Geng Qiao, Tongtong Zhang, Yulong Ding</i> University of Birmingham
1050-1110	BK	BREAK
1110-1230	S8B	SESSION 8b: CAES PANEL LEAD: Andrew Pimm
1110-1130	S8B.1	Underwater CAES assessment: Economic and Engineering References for Energy Mix Sizing in Islands Grids <i>Antoine Debille, Corentin Simon, Rodica Loisel, David Guyomarc'h, Thibault Neu, Lionel Lemiale</i> Segula Technologies
1130-1150	S8B.2	Offshore Renewable Energy Storage: CAES and Buoyancy Engine <i>Daniel Onwuchekwa</i>
1150-1210	S8B.3	Enabling Cold Compressed Air Energy Storage through Pressure Vessel Manufacture with Autofrettage <i>James Rouse, S. D. Garvey, A. Hoskin, B. Cardenas, W. Xu</i> University of Nottingham, UK
1210-1230	S8B.4	Low-Temperature Adiabatic Compressed Air Energy Storage for Island Applications <i>Marcus Budt, Markus Hadam, Eva Schischke</i> Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Germany
1230-1310	L	LUNCH

DAY 2 - ROOM 2

OSES2019 DAY 3 Friday July 12, 2019		
TIME	SESSION	ACTIVITY
800	BUS	RAILWAY PICK UP
830	BUS	IMT DROP OFF
0830-0900	BK	COFFEE & CROISSANTS
0900-1000	S13	SESSION 13: DESALINATION AND NAVIGATION PANEL LEAD: Seamus Garvey
0900-0920	S13.1	Integration of Hydraulic Wind Turbines for Seawater Reverse Osmosis Desalination <i>Antonio Jarquin-Laguna, Francesca Greco</i> TUDelft, the Netherlands
0920-0940	S13.2	Modelling of a Hybrid Floating Wind, Energy Storage and Desalination Unit <i>C. Cutajar, T. Sant, R.N. Farrugia, D. Buhagiar</i> University of Malta, Malta
0940-1000	S13.3	Present Status and Challenges for the Interaction between Offshore Wind Farms and Maritime Navigation in the Taiwan Strait <i>Jinhai Chen, Christophe Claramunt, Eric Saux, Peng Peng, Qiang Mei, Yongfeng Suo</i> Jimei University (China), Naval Academy Research Institute (France), Institute of Geographic Sciences and Natural Resources Research (China)
1000-1020	BK	BREAK
1020-1140	S14	SESSION 14: GENERATION - TIDAL PANEL LEAD: Robert N. Farrugia
1020-1040	S14.1	Hydrodynamic Performance Analysis and Experimental Investigation of a Small-Scale Current Turbine <i>I. Cheol Kim, A. Azzam, W. TongPhong, Y. Ho Lee</i> Korea Ocean & Maritime University, South Korea
1040-1100	S14.2	Composite Ducted Tidal Turbine Design: Modelling strategy <i>Mahrez AIT MOHAMMED, Mostapha TARFAOUI, Jean Marc LAURENS</i> IRD, France
1100-1120	S14.3	Hydrodynamic Performance of Conical Shaped Heave Plates <i>Robbie Mecrow, Seamus D. Garvey</i> University of Nottingham(UK)
1120-1200	S14.4	Body-Yawing Semi-Subs: Progeny and Possible Futures <i>Jacques Ruer, Seamus D. Garvey</i> University of Nottingham (UK), SAIPEM-SA
1200-1230	S15	SESSION 15: OSES SOCIETY: Getting the Message Across PANEL LEADS: Rupp Carriveau, Seamus Garvey OSES2019 Chairs
1230-1320	L	LUNCH
1400	BUS	IMT PICK UP
1430	BUS	RAILWAY DROP OFF
1500	BUS	AIRPORT DROP OFF
1330-1545	FT2	POSSIBLE FIELD VISIT: IFREMER Deep Ocean Wave Basin

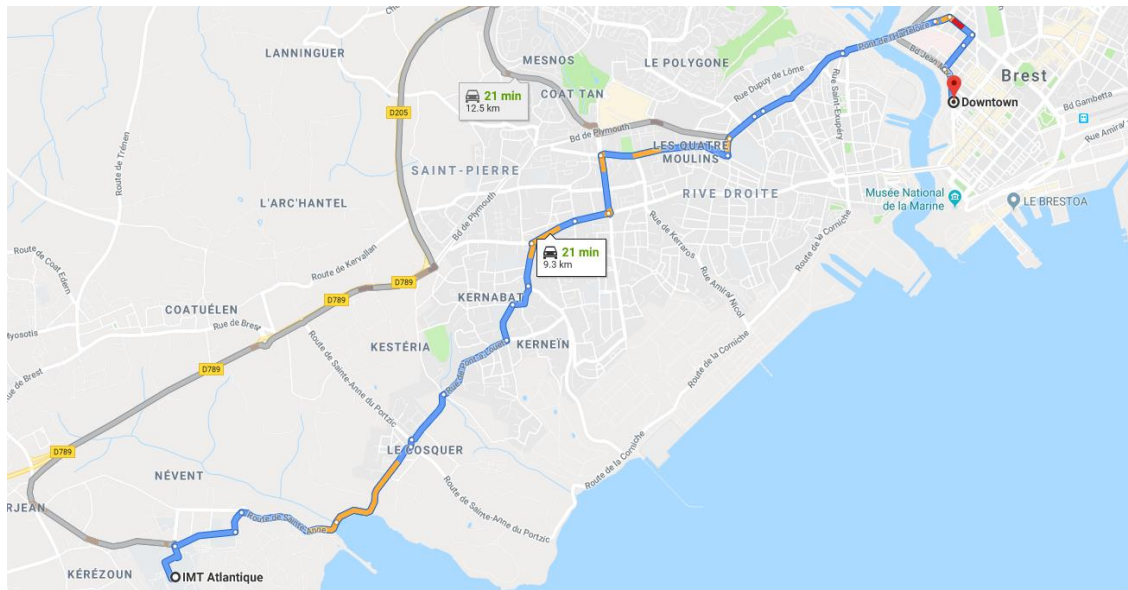
DAY 3

VENUE LOCATION

The event will be held at IMT Atlantique, situated to the west of Brest, in the technology hub of Brest-Iroise, in Plouzané.

It can be easily reached by following signs for Technopôle (towards Le Conquet and Plouzané). The school can be found at 655, Avenue du Technopôle, in Plouzané, opposite Avenue La Pérouse. GPS coordinates: N 48.3597° - W 04.5705°

Parking facilities are also available in front of the main entrance for those opting to hire a car.



Bus shuttles are planned to take you to the IMT-Atlantique every day of the conference.

The bus will be parked near the exits of the airport and the railway station, the logo of the conference will be displayed on the front of the bus.

On Day 1 (July 10th) – Departures from the Airport and from the Railway station (Town Centre of Brest):

At the **Airport**: departure at **8.30**

At the **Railway**: departure at **9.00**

At the end of the conference day, a bus shuttle is planned towards the Town Centre: Departure at **16.30**

On Day 2 (July 11th) – Departure from the Railway station at **8.00**

At the end of the conference day, a bus shuttle is planned towards the Town Centre: Departure at **16.30**

Meeting point for the boat cruise and dinner at 19.30 (see access plan)

On Day 3 (July 12th) – Departure from the Railway station at **8.00**

At the end of the conference, a bus shuttle is planned towards the Railway station and the Airport: Departure at **14.00**

For the participants to the IFREMER basin visit:

Meeting point in front of the main entrance of IMT-Atlantique, departure at **13.30**

Bus shuttle from Ifremer to Railway at **15.45**

Boat Cruise Gala Dinner

Embark aboard the “Brestoâ” and enjoy the exceptional scenery of Brest harbor and its surroundings.



Located at:

Quai de la Douane
29200 Brest

in front of the restaurant “Le Crabe Marteau”.
About 20 min walk from the railway station

By bus from the railway station:
Bus Line N°1, direction “Fort Montbary”
Bus stop “Rampes” + 5 min-walk



