

# Schedule

## November 20(Mon.),2017

14:00	Meeting at Fukuoka Airport & Move to IOES by Chartered Bus
15:30	Registration & Orientation
18:00	Move to Hotel
18:30	Welcome Reception

## November 21(Tue.),2017

9:00-9:10	Opening Ceremony
9:10-12:40	Special Lectures
12:40-14:00	Lunch Break *Optional tour(IOES Facilities)
14:00-18:00	Presentations by Young Researchers

## November 22(Wed.),2017

9:00-11:50	Presentations by Young Researchers
11:50-12:30	Lunch Break
12:30-15:20	Presentations by Young Researchers
15:20-17:30	General Discussions
17:30-17:40	Best Presentation Award Ceremony

## November 23(Thu.),2017

8:30	Move to Nagasaki by Charteres Bus
10:15-11:05	Guided Tour(Mitsubishi Heavy Industries,Ltd.)
PM	Free Time

## November 24(Fri.),2017

9:00	Move to Imari by Chartered Bus
10:30-11:30	Guided Tour (Namura Shipbuilding Co.,Ltd.)
12:00	Travel Expenses Payment from Saga University
14:30-17:00	Guided Tour (Genkai Energy Park)
17:00	Move to Hakata by Chartered Bus

## November 25(Sat.),2017

9:00-10:30	Short Presentation by Young Researchers
10:30-11:00	Closing Ceremony

# Program

November 20(Mon.),2017

15:30	Registration & Orientation
18:30	Welcome Reception

November 21(Tue.),2017

9:00-9:10	Opening Ceremony
	Prof.Shuichi Nagata                      Director of IOES

## Special Lectures

9:10-9:50	Ocean Energy Utilization	
	Prof.Takeshi Kinoshita	Nagasaki Institute of Applied Science,JAPAN
9:50-10:30	Advanced Offshore Wind Energy	
	Prof.Tomoaki Utsunomiya	Kyushu University,JAPAN
10:30-11:10	Development of Wave Energy Utilization	
	Prof.Shuichi Nagata	Institute of Ocean Energy at Saga University,JAPAN
11:10-11:20	Coffee Break	
11:20-12:00	Present State and Future Chalenge of Tidal Currenct Power Generation in Japan	
	Prof.Yusaku Kyozuka	Nagasaki University,JAPAN
12:00-12:40	Advanced Ocean Thermal Energy	
	Prof.Yasuyuki Ikegami	Institute of Ocean Energy at Saga University,JAPAN
12:40-14:00	Lunch Break *Optional tour(IOES Facilities)	

### Presentations by Young researchers

## Session1: Tidal Energy Converter

Chair: Kourosh Rezanejad, Instituto Superior Técnico, Universidade de Lisboa, Portugal

14:00–14:20	Tidal Turbine Testing: Spanning the Gap between the Laboratory and Tidal Test Site Experiments
	Carwyn Huw Frost Queen’s University Belfast,UK
14:20–14:40	Preliminary Mapping of Tidal Energy Density Potency in Lampuyang Strait, Indonesia
	Rajuli Amra Osaka University,JAPAN
14:40–15:00	Electrical Design Aspects of Tidal Stream Turbine Power Take-off Systems
	Faisal Mushtaq Wani Technical University of Delft,NETHERLANDS
15:00–15:20	Multi-objective Optimization of Blade Profiles for a Horizontal Axis Tidal Turbine
	Chen Xuemeng Institute of Ocean Technology Ocean College, Zhejiang University,CHINA
15:20–15:40	Experimental Research on Performance of Bi-Directional Impulse Turbine and Flow Collector for Tidal Energy Conversion
	Fuyuki Nishimura Saga University,JAPAN
15:40–15:50	Coffee Break

**Session2: Wave Energy Converter**

Chair: Carwyn Huw Frost, Queen's University Belfast,UK

15:50–16:10	Performance assessment of Horizontal-axis 3-blades for wave power generation in the coastal zone of Thailand Chanchai Petpongpan King Mongkut's University of Technology Thonburi(KMUTT) ,THAILAND
16:10–16:30	Evaluation of Wave Energy Using Numerical Model in Thailand Sea Sutthida Umjaeng King Mongkut's University of Technology Thonburi(KMUTT) ,THAILAND
16:30–16:50	An Efficient Convex Formulation for Model-Predictive Control on Wave-Energy Converters Qian Zhong University of California at Berkeley,USA
16:50–17:00	Coffee Break
17:00–17:20	Hydrodynamic Analysis and Optimization of Oscillating Water Column Wave Energy Converters Kourosh Rezanejad Instituto Superior Técnico, Universidade de Lisboa,Portugal
17:20–17:40	Development of a Nearshore Oscillating Surge Wave Energy Converter with Variable Geometry Nathan Michael Tom National Renewable Energy Laboratory,USA
17:40–18:00	Ocean Energy development at NIOT,India Ashwani Vishwanath National Institute of Ocean Technology,INDIA

**November 22(Wed.),2017**

**Presentations by Young researchers**

**Session3: OTEC**

Chair: Nathan Michael Tom, National Renewable Energy Laboratory, USA

9:00–9:20	A Feasibility Study on Fixed Offshore Platform for Ocean Thermal Energy Conversion (OTEC) Power Plant Nurul Azizah Binti Mukhlas Universiti Teknologi Malaysia, Kuala Lumpur,MALAYSIA
9:20–9:40	Each Presenter Will Make A Presentation for 15 Min And 5 Min Q&A Herry Susanto Darma Persada University,INDONESIA
9:40–10:00	Modeling and model validation of the performance of an ammonia–water OTEC demo plant using advanced condenser models Frank Carlo Geschiere Bluerise B.V.,NETHERLANDS
10:00–10:20	Pressure Drop Characterisitcs of Flow in Parallel Plate Channels with Trapezoidal Disturbance Promoters Disturbance Promoters Satoshi Hotta Akita University,JAPAN
10:20–10:30	Coffee Break
10:30–10:50	Development of A Method to Compare the Maximum Power Output of an OTEC Power Plant for The Choice of an Heat Exchanger. Kevin,Davy-Erik Fontaine EPF-Montpellier engineering school,FRANCE
10:50–11:10	Preliminary Design of an 100 MW Ocean Thermal Energy Conversion (OTEC) Power Plant in Indonesia Ristiyanto Adiputra Kyushu University,JAPAN
11:10–11:30	Performance test of 200kW HOTEK power plant Moon Jung-Hyun Korea Research Institute of Ships & Ocean Engineering(KRISO),KOREA
11:30–11:50	Optimization of OTEC for Reduction of Required Seawater Takafumi Noguchi Saga University,JAPAN
11:50–12:30	Lunch Break

#### Session4: Environment

Chair: Qian Zhong, University of California at Berkeley, USA

12:30–12:50	Assessing the Marine's Biodiversity Using eDNA Metabarcoding Method as a Tool for EIA Suriyanti Su Nyun Pau University Technology Malaysia,MALAYSIA
12:50–13:10	"Renewable Energy: Solar Energy Protects Land and Ocean." Courtney T. Joshua Palau Community College,PALAU
13:10–13:30	"Renewable Energy: Solar Energy Protects Land and Ocean." Cecilia Olikong Palau Community College,PALAU
13:30–13:50	CO2 Emission Reduction Through OTEC Technology Implementation for Power Generation in Indonesia Rudy Heryadi Darma Persada University,INDONESIA
13:50–14:10	Tidal Platform Environment Monitoring using Computer Vision Francis James Olegario Corpuz OceanPixel Pte. Ltd. ,SINGAPORE
14:10–14:20	Coffee Break

#### Session5: Offshore Wind Energy and Other Ocean Energy Utilizations

Chair: Faisal Mushtaq Wani, Technical University of Delft, NETHERLANDS

14:20–14:40	Selection and Design of Deep Sea Floating Wind Power Foundation Wang Xinyu Dalian University of Technology,CHINA
14:40–15:00	Effects of the operating condition and the geometric parameter on the mass transfer rate of Non-Newtonian in the wavy-walled tubes for pulsatile flow Zhu Donghui Dalian University of Technology,CHINA
15:00–15:20	Reverse Electrodialysis (RED) power generation by mixing sea water and river water Soroush Mehdizadeh Yamaguchi University,JAPAN

#### General Discussins

15:20–17:30	General Discussins
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