World NAOE Forum 2013 & International Symposium on Marine and Offshore Renewable Energy

Organized by JASNAOE & RINA

28-30 October 2013
The SASAKAWA Hall, Tokyo Japan

We invite you to the joint conference of World NAOE Forum 2013 and International Symposium organized by JASNAOE and RINA. The conference consists of 1-day forum and 2-day symposium for the new advances in marine and offshore renewable energy.

Topics of interest are:
- Recent large projects in Japan, East-Asia, and EU countries
- Device, system and technology for marine renewable energy
- Vessels for installation, operation support, and removal
- Mooring equipment for floating systems

Place: The SASAKAWA Hall
3-12-12 Mita, Minato-ku, Tokyo, Japan
Language: English (No translation service is available)

Supporting Organizations:

ClassNK
Ministry of Land, Infrastructure, Transport and Tourism, Japan
ABS, Bureau Veritas, Det Norske Veritas,
Germanischer Lloyd, Lloyd’s Register
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<th>Time</th>
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<tr>
<td>9:00 - 9:30</td>
<td>Registration and welcome</td>
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<td>9:30 - 9:35</td>
<td>Opening address</td>
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<td>9:35 - 12:10</td>
<td><strong>Update of Marine and Offshore Renewable Energy Utilization Projects</strong>&lt;br&gt;Projects in Japan in the recent years (Prof. T. Kinoshita, Nihon University, Japan)&lt;br&gt;Offshore Wind Project in Nagasaki, Japan (Prof. T. Utsunomiya, Kyoto University, Japan)&lt;br&gt;Offshore Wind Project in Fukushima, Japan (Mr. T. Fukuda, Marubeni Corporation, Japan)&lt;br&gt;Projects in Europe in recent years (Mr. N. Kermode, European Marine Energy Centre, Scotland)&lt;br&gt;Project in France in recent years (Prof. B. Alessandri, ECN, France)&lt;br&gt;Discussion</td>
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<td>13:00 - 15:00</td>
<td><strong>Achievements and Future Prospects of Marine and Offshore Renewable Energy Utilization Technology</strong>&lt;br&gt;Offshore Wind Turbine - General View (Mr. M. Komatsu, Mitsubishi Heavy Industries, Japan)&lt;br&gt;Offshore Wind Turbine - Floating Facilities (Mr. Y. Awashima, Japan Marine United Corporation, Japan)&lt;br&gt;Current Turbine (Dr. H. Kiyose, Kawasaki Heavy Industries, Japan)&lt;br&gt;Offshore Wave Power Generator (Dr. T. Maemura, Mitsu Engineering &amp; Shipbuilding, Japan)&lt;br&gt;Ocean Thermal Energy Conversion (Prof. Y. Ikekami, Saga University, Japan)&lt;br&gt;Discussion</td>
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<td>16:00 - 18:00</td>
<td><strong>Prospects of Technical Challenges on Offshore Renewable Energy Utilization</strong>&lt;br&gt;Future activities in Iwate prefecture, Japan (Mr. Y Ueno, Lt. Gov. Iwate prefecture, Japan)&lt;br&gt;Steady stream of European offshore grid - Power systems sail out to sea (Prof. Y. Yasuda, Kansai University, Japan)&lt;br&gt;IEC verification system for Offshore Renewable Energy Utilization (Mr. H. Takano, ClassNK, Japan)&lt;br&gt;Discussion</td>
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<td>29 October (Tuesday)</td>
<td>International Symposium on Marine and Offshore Renewable Energy (MORE2013)</td>
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<td>Room 1</td>
<td>Room 2</td>
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<td>9:00 - 10:40</td>
<td><strong>Ordinary Session 4</strong>: Offshore wind energy (4)&lt;br&gt;<strong>Ordinary Session 6</strong>: Offshore wave energy (1)&lt;br&gt;Lunch</td>
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<td>11:00 - 12:40</td>
<td><strong>Ordinary Session 5</strong>: Offshore wind energy (5)&lt;br&gt;<strong>Ordinary Session 7</strong>: Offshore wave energy (2)&lt;br&gt;Lunch</td>
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<td>14:00 - 16:00</td>
<td><strong>Ordinary Session 8</strong>: Wave and current energy and OTEC&lt;br&gt;<strong>Ordinary Session 9</strong>: Eco-vessel and Others&lt;br&gt;Closing address</td>
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<td>16:00 - 16:05</td>
<td>ClassNK banquet</td>
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**Room 1**

**Room 2**

**Plenary 1**: Vessel for installation, support operation and removal stage

**Plenary 2**: Outlook on activities by classification societies

**Ordinary Session 1**: Offshore wind energy (1)

**Ordinary Session 2**: Offshore wind energy (2)

**Ordinary Session 3**: Offshore wind energy (3)
29 October 2013 (Tuesday)

13:00 – 15:00 Ordinary Session 1 (Offshore Wind Energy(1))
Chairman 1

1-1 Development Of Floating Wind Turbine For Fukushima
Haruki Yoshimoto, Yuji Awashima, Yuka Kitakoji, Hideyuki Suzuki

1-2 Managing Risk In Offshore Wind Farm Development
Kazunori Masabayashi, Florus Korbijn, Per Øystein Alvær

1-3 Motions And Mooring Tension Of A Floating Platform For Offshore Wind Power Generation In Hakata Bay
Yusaku Kyozuka, Makoto Sueyoshi, Changhong Hu, Yuji Ohya

1-4 Numerical Analysis Of Load Tendency For Floating Offshore Wind Turbines Under Typical Marine Conditions
Kimiko Ishii, Yoshitaka Totsuka, Hiroki Kikuchi, Hideyuk I Suzuki, Hiroshi Imamura, Shinichiro Hirabayashi

1-5 Coupled Nonlinear Analysis Method For A Floating Offshore Wind Turbine With Single-Point Mooring
Chong Ma, Kazuhiro Iijima, Masahiko Fujikubo

1-6 Evaluation Of Turbine Propeller Power With Boundary Element Method
Mahmuddin Faisal

15:00 – 15:10 Coffee Break

15:10 – 16:30 Ordinary Session 2 (Offshore Wind Energy(2))
Chairman 2

2-1 Research On Land Power-Supply Systems Using Ships’ Electric Generators In Times Of Disaster At Shimizu Port -Estimation Of Amount Of Electric Power Generated By Coastal Cargo Ships-
Hitoshi Kaneko, Masanori Tsugane, Hidenori Aoki, Kenya Sakamoto

2-2 Possibility Of Using Of Peo-Coatings For Carbon Steel For Marine And Offshore Renewable Structure
Alexander N. Minaev, Sergey V. Gnedenkov, Sergey L. Sinebryukhov, Dmitry V. Mashtalar, Vladimir Egorkin , Andrey S. Gnedenkov

2-3 Numerical Simulation Of Vortex-Induced Motion Of Floating Body By Lattice Bolzmann Method
Shinichiro Hirabayashi, Akitaka Miyamura, Hideyuki Suzuki

2-4 Survey On The Underwater Noise From The Bottom Fixed Offshore Wind Turbine During Construction
Megumi Shiokari, Motonobu Imasato, Osamu Miyata, Masafumi Okano

16:40 – 18:20 Ordinary Session 3 (Offshore Wind Energy(3))
Chairman 3

3-1 Effects Of Earthquake And Tsunami On Floating Offshore Wind Turbine
Kentaroh Kokubun, Tomoki Taniguchi, Shunji Inoue

3-2 Experimental Study For Floating Offshore Wind Turbine With Blade Pitch Control
Toshiki Chujo, Ken Haneda, Shigesuke Ishida, Tadashi Nimura

3-3 Applicability Of Fatigue Solutions To Floating Wind Turbine Structures
Yoichi Kayamori, Teppei Okawa, Takehiro Inoue, Seiji Nishimura, Takeshi Ishihara

3-4 Development Of A V-Shaped Semi-Submersible Floating Structure For 7mw Offshore Wind Turbine.
Makoto Ohta, Masao Komatsu, Hiroto Ito, Hitoshi Kumamoto

3-5 Offshore Wind Energy Policies And Projects In Twiwan
Yu-Ti Jhan , Ya-Jung Lee , Chien-Hua Huang
30 October 2013 (Wednesday)

9:00 – 10:40 Ordinary Session 4  (Offshore Wind Energy(4)) Room 1
Chairman 4
4-1 Basic Study Of An Installing Method Of A Finished Spar Type Floating Offshore Wind Turbine
Hisayoshi Suefuku, Kazunobu Hoshino, Osamu Miyata, Mitsuya Ooyama, Tadashi Nimura
4-2 The Research About Motion Characteristics Of Spar Type Offshore Wind Turbines In Wind And Wave Coexisting Condition
Minori Kozen, Yasunori Nihei, Tomoki Ikoma, Fumiya Sato, Motohiko Murai, Kazuhiro Iijima
4-3 An Experimental Study On Stability Of A Semi-Submersible Hull Type Floating Offshore Wind Turbine
Tomoki Taniguchi, Kentaroh Kokubun
4-4 Experimental Study On A Hydrodynamic Behavior Of A Semi-Submersible Type Fowt
Motohiko Murai, Miki Takei, Hotsuma Saeki, Yasunori Nihei, Kazuhiro Iijima, Tomoki Ikoma
4-5 Experimental Investigations Into The Motion Characteristics Of A Single-Point-Moored Fowt
Kazuhiro Iijima, Misako Kawai, Srinivasamurthy Sharath, Chong Ma, Yasunori Nihei, Motohiko Murai, Tomoki Ikoma

10:40 – 11:00 Coffee Break

11:00 – 12:40 Ordinary Session 5  (Offshore Wind Energy(5)) Room 1
Chairman 5
5-1 Concept Design Of A Floating Straight Wing Vertical Axis Wind Turbine
Hiroshi Kagemoto, Kunihisa Sao
5-2 Study Of Motion Of Floating Offshore Wind Turbine With Several Types Of Floater
Ken Haneda, Chujo Toshiki, Minami Yoshimasa
5-3 Comparisons Of Hydrodynamic Behavior Of Vertical Axis And Horizontal Axis Fowt
Motohiko Murai, Atsushi Nagamine
5-4 A Research About Motion Characteristics Of Tlp Type Offshore Wind Turbines In Wind And Waves
Midori Matsuura, Yasunori Nihei, Motohiko Murai, Kazuhiro Iijima, Tomoki Ikoma

10:40 – 11:00 Coffee Break

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5-4 A Research About Motion Characteristics Of Tlp Type Offshore Wind Turbines In Wind And Waves
Midori Matsuura, Yasunori Nihei, Motohiko Murai, Kazuhiro Iijima, Tomoki Ikoma

12:40 – 14:00 Lunch Break

14:00 – 16:00 Ordinary Session 8  (Wave And Current Energy And Otec) Room 1
Chairman 8
8-1 “Ekmene In The Sea” The Offshore Complex Float Using Deep Ocean Water As Infrastructure Of Isolated Island
Kazuyuki Ouchi, Sadayuki Jitsuhara, Takayuki Watanabe
8-2 Maritime Initiatives For Environmental Sustainability
Paul Tatan, Anuj Kumar Verma, Pramit Kumar Sarkar, Akula Nidarshan
8-3 Energetics Of Marine Turbine Arrays - Extraction, Dissipation And Diminution
Takafumi Nishino, Richard H. J. Willden
8-4 Tidal Current Energy Assessment Around Goto Islands, Japan
Huihui Sun, Soichi Yamaguchi, Yusaku Kyozuka
8-5 Development Of A Vertical Axis Marine Turbine With Variable Pitch Blades For Wide Range Current Speed
Tomoki Ikoma, Koichi Masuda, Yasunori Nakamura, Chang-Kyu Rheem, Hisaaki Maeda And Naseru Nakazawa
9:00 – 10:40 Ordinary Session 6  (Offshore Wave Energy(1)) Room 2
Chairman 6
6-1 Research Of Small Wave Power System Of Grid-Connected.
   Jin-Mun Bae, Shogo Nishikawa
6-2 Motion Characteristics In Waves Of A Floating Platform Of Complex Geometry For Renewable
   Energy Utilization
   Masashi Kashiwagi, Ishigami Yuki, Ishigami Kyohei, Iwashita Hidetsugu, Higo Yasushi,
   Ikeda Hiroki, Sueyoshi Makoto
6-3 Wave-Energy Absorption By An Asymmetric Floating Body Equipped With Rotating
   Pendulum-Type Electric-Power Generator
   Masashi Kashiwagi, Katsuhiko Sakai
6-4 Analytical Analysis Of Dynamics Of Spherical Wave Energy Converts Oscillating In Both
   Horizontal And Vertical Modes In Regular Waves
   Xian-Tao Zhang, Jian-Min Yang, Long-Fei Xiao
6-5 Motion Analysis Of An Oscillation Controlled Small Ship With Wave Energy Converters
   Jialin Han, Teruo Maeda, Takeshi Kinoshita, Daisuke Kitazawa
10:40 – 11:00 Coffee Break
11:00 – 12:40 Ordinary Session 7  (Offshore Wave Energy(2)) Room 2
Chairman 7
7-1 Development Of A Floating Wave Energy Station With Multiple Owc Columns
   Yukitaka Yasuzawa, Yoshitaka Okumura, Keisuke Nakao
7-2 Owc Type Wecs Equipped Vlfs For An Offshore Base
   Tomoki Ikoma, Koichi Masuda, Yuka Watanabe, Chang-Kyu Rheem And Hisaaki Maeda
7-3 Effects Of The Projecting Wall And The End Wall To Owc Type Wec In Shallow Water
   Tomoki Ikoma, Koichi Masuda, Hikaru Omori, Hiroyuki Taguchi, Hiroyuki Osawa And
   Tsuyoshi Miyazaki
7-4 A Fundamental Study On Electrical Generation Characteristics Of A Floating Type Wave Energy
   Converter Using Dielectric Elastomer.
   Koichi Masuda, Tomoki Ikoma, Kazuki Murata, Mikio Waki, Seiki Chiba
7-5 An Experimental Study Of Energy Conversion Characteristics Of A Floating Owc "Backward
   Bent Duct Buoy"
   Shuichi Nagata, Yasutaka Imai, Toshiaki Setoguchi
12:40 – 14:00 Lunch Break
14:00 – 16:00 Ordinary Session 9  (Eco-Vessel And Others ) Room 2
Chairman 6
9-1 “Wind Challenger” The Next Generation Wind Powered Vessel With Rigid Sails
   Kazuyuki Ouchi, Kiyoshi Uzawa, Yoshihiro Kanai, Masanobu Katori
9-2 The Conspectus Of Cchp Technology On Marine Application Prospect
   Yidong Lu,
9-3 Effects Of Flame Strengthening On The Mechanical And Corrosion Property Of 5083-H116
   Marine-Grade Aluminum Alloys
   Chen Ren Yu, Cheng-Chyuan Lai
9-4 Energy Efficiency & Environment Considerations In Modern Ships
   Arjun Namdev Mandrekar, Vivek Meena, Gaurav Jha
9-5 Use Of Hydro Generator On Ships: An Alternative Green Solution
   Wilfredo Erenio Yutuc
16:00 – 16:05 Closing Address
Director, Jasnaoe