

International RIAM Symposium on Ocean Renewable Energy Technologies and related fluid dynamics researches

RIAM Research Workshop of Designated Joint Research Project on Development of Floating Marine Renewable Energy Systems

December 7-8, 2015
W601, RIAM, Kyushu University, Kasuga, Fukuoka, Japan

Organized by
Research Institute for Applied Mechanics, Kyushu University

Co-Organized by
Research and Education Center for Advanced Energy Materials, Devices, and Systems, Kyushu University

TIME TABLE

7 December (Monday)

13:00 - 13:10	<i>Opening Address</i> Changhong Hu (RIAM, Kyushu University)
13:10 - 13:50	<i>Keynote Lecture</i> Observation and Experiment of Bio-Fouling Effects on Tidal Power Generators Yusaku Kyojuka (Kyushu University)
13:50 - 14:20	<i>Invited Lecture</i> Tidal Stream Measurements for the Water off the Cape Fuguei for a Potential Power Generation Site Cheng-Han Tsai (National Taiwan Ocean University, Taiwan, R.O.C.)
14:20 - 14:50	<i>Invited Lecture</i> Duct Application to Tidal Current Energy Power Convertor Chul H. Jo (Inha University, Korea)
14:50 - 15:00	Coffee break
15:00 - 15:30	Numerical Investigation of Coupled Floating Offshore Wind Turbine System in Wind and Waves Decheng Wan (Shanghai Jiao Tong University, China)
15:30 - 16:00	Model Test Research on Spar-Type Floating Wind Turbine Zhiqiang Hu (Shanghai Jiao Tong University, China)
16:00 - 16:30	Hydrodynamic Performance of the FOWT-WEC Coupling System Kangping Liao (Harbin Engineering University, China)
16:30 - 17:00	CFD Simulation of a Tidal Current Farm Cheng Liu, Changhong Hu (Kyushu University)
17:00 - 17:30	Time-Domain Calculation of Hydrodynamic Forces on a Floating Platform of Complex Geometry for Renewable Energy Utilization Yuichi Ashida, Masashi Kashiwagi (Osaka University)
17:30 - 18:00	Utilization of Hydrofoil to Improve Propulsive and Seakeeping Performance of a Ship Hiroshi Isshiki (Inst. of Mathematical Analysis)

8 December (Tuesday)

9:30 - 10:00	<i>Invited Lecture</i> Development of Wind Energy Systems and Future Trends Peter Jamieson (University of Strathclyde, UK)
10:00 - 10:30	<i>Invited Lecture</i> Retrospect and Development of Classical Rotor Theories in Context of Making Torque from Wind Valery Okulov (Technical University of Denmark, DK)
10:30 - 11:00	Power Augmentation Methods for the Wind Solar Tower Tomo Nagai (Kyushu University)
11:00 - 11:30	Performance of Clustered Diffuser Augmented Wind Turbines Uli Goeltenbott (Kyushu University)
11:30 - 13:00	Lunch
13:00 - 13:30	Development of an Ocean-Current Turbine at OIST Katsutoshi Shirasawa, Junichiro Minami, Tsumoru Shintake (Okinawa Institute of Science and Technology), Hidetsugu Iwashita (Hiroshima University)
13:30 - 14:00	Hydro-VENUS: Pendulum-Based Tidal Energy Converter Shinji Hiejima (Okayama University)
14:00 - 14:30	Observation and Numerical Simulation of Tidal Current around Amami-Oshima in Relation to Tidal Power Generation Ritsuki Kunisato (Sanyo Techno Marine), Tohru Yamashiro (Kagoshima University)
14:30 - 15:00	Current Influence on Hydrodynamics and Motions of FOWT in Waves Yasushi Higo, Hidetsugu Iwashita, Kyohei Kajino, Akihide Koya (Hiroshima University)
15:00 - 15:30	Research on Structural Analysis of a Floating Structure Equipped with Wind-Lens Turbines using Shell Element Yoshikazu Tanaka (Hiroshima University)
15:30 - 16:00	Initial Structural Design of a Triangular Floating Structure with Three Wind-Lens Turbines Yukitaka Yasuzawa, Shunsuke Otsubo (Kyushu University)
16:00 - 16:10	<i>Closing Remarks</i> Hidetsugu Iwashita (Hiroshima University)

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