

## Annual Autumn Meeting of JASNAOE 2015 Program

Date: November 16 (Mon.) – 17 (Tue.), 2015

Venue: Institute of Industrial Technology, University of Tokyo

### November 16 (Monday)

No.	Time	Title	Author
<b>【Room 1】</b>			
	9:40 ~ 12:00	<b>Organized Session (OS5) Integration of Ocean Engineering for Offshore Development</b>	
2015A-OS5-1	9:40 ~ 10:00	Collaboration Platform of Integrated Ocean Engineering	○Ryota Wada, Ken Takagi
2015A-OS5-2	10:00 ~ 10:20	Proposal of Monitoring System for Ocean Development	○Ryota Wada, Ken Takagi
2015A-OS5-3	10:20 ~ 10:40	A study on Logistic Hub Introduction Design Considering Passengers' Transportation of Offshore Petroleum Development Project	○Taiga Mitsuyuki, Hiroyuki Yamato, Kazuo Hiekata
2015A-OS5-4	10:40 ~ 11:00	Study on Reduction of Multi-body Interaction in FLT	○Ken Kamizawa, Ken Takagi, Ryota Wada, R. Mondal
2015A-OS5-5	11:00 ~ 11:20	Numerical Investigation of the Drill Pipe Stick-Slip Considering the Fluctuation of Sea Bottom Friction	○Kenta Izutani, Tokihiro Katsui, Tomoya Inoue, Miki Yamamoto, Chang K. Rheem
2015A-OS5-6	11:20 ~ 11:40	Variation of WOB for Ultra-deep Drilling	○Tatsuya Kaneko, Ryota Wada, Masahiko Ozaki
2015A-OS5-7	11:40 ~ 12:00	Study on Performance of Dynamic Positioning System When Suffering from a Sudden Change of Wind Condition	○Yongjian Lu, Masahiko Ozaki
	13:00 ~ 14:40	<b>Organized Session (OS6) Technologies to Utilize and Control a Wind for the Ship</b>	
2015A-OS6-1	13:00 ~ 13:20	Development of Energy-saving Windshield for Large Container Ship	○Kazuyuki Ouchi, Tingyao Zhu, Junichi Hirata, Yoshikazu Tanaka, Yoshikazu Kawagoe, Junshi Takashina, Katsuyuki Suzuki
2015A-OS6-2	13:20 ~ 13:40	Review and Investigation of EEDI with Sail Assisted Merchant Ship	○Yasuo Yoshimura, Takuji Waseda, Kazuyuki Ouchi
2015A-OS6-3	13:40 ~ 14:00	Measurement and Consideration for Control of the Verification Sail Model for the Hybrid Sailing Ship with Hard Sail	○Takehiro Shirai, Kiyoshi Uzawa, Gaku Kimura, Shunsuke Tamura, Mizuho Sawada, Hideki Yodawara, Kazu Nagahama, Izumi Osugi, Ichiro Aoki, Kazuyuki Ouchi
2015A-OS6-4	14:00 ~ 14:20	Development of Auto-pilot for Sailing Ship	○Fuyuki Hane, Ichiro Aoki, Kazuyuki Ouchi
2015A-OS6-5	14:20 ~ 14:40	Selecting Optimum Ship Route for the Wind Challenger	○Takuji Waseda, Yuki Kita, Masanobu Katori, Sinichiro Ishida, Tomoya Nishida, Akihiro Kanai
<b>【Room 2】</b>			
	9:40 ~ 11:40	<b>Organized Session (OS3) Progress and Future of Particle Method in Naval Architecture and Ocean Engineering</b>	
2015A-OS3-1	9:40 ~ 10:00	Comparison of Semi-implicit and Explicit MPS Methods as Flow Solvers for a Flooded Compartment	○Hirotsada Hashimoto, Kouki Kawamura, Makoto Sueyoshi, Takahiro Munesue
2015A-OS3-2	10:00 ~ 10:20	Experimental Technique and Particle Simulation for Large Deformation Problems of Free-surface	○Makoto Sueyoshi, Changhong Hu
2015A-OS3-3	10:20 ~ 10:40	High-speed and Large-scale Computation of a Particle Method Using GPU	○Kouki Kawamura, Noyuki Onodera
2015A-OS3-4	10:40 ~ 11:00	A Study on Applicability of the MPS Method to Performance Analysis Method of a Fixing Type OWC Type WEC (1st Report: Applicability to a Fixing Type)	○Yutaro Sasahara, Mitsuhiro Masuda, Kiyokazu Minami
2015A-OS3-5	11:00 ~ 11:20	A Fundamental Research on Characteristics of String Disaster of a Vessel Moored Koichi Masuda to Quay at a Harbor in Tsunamis	Koichi Masuda, ○Kazuki Murata, Takujiro Miyamoto, Hirotsuka Murata, Tomoki Ikoma, Hiroaki Eto
2015A-OS3-6	11:20 ~ 11:40	Numerical Simulation of Fluid by a Particle Method Using a Technique for Arranging Particle in Arbitrary Shapes	○Kazuya Shibata, Issei Masaie, Seiichi Koshizuka
	13:00 ~ 16:00	<b>Organized Session (OS1) State-of-the-Art Technology for Risk Analysis in Maritime Field</b>	
2015A-OS1-1	13:00 ~ 13:20	A Consideration on the Development of Risk Assessment of Ships	○Fujio Kaneko, Takeshi Shinoda
2015A-OS1-2	13:20 ~ 13:40	State of the Art Techniques on Estimation of Collision Frequency	○Fujio Kaneko
2015A-OS1-3	13:40 ~ 14:00	Risk Analysis for Collision Accident of Vessels Considering Items Related to Human Error	○Takeshi Shinoda

2015A-OS1-4	14:00 ~ 14:20	Mariner Personal Safety Database Analysis for Human Risk-taking Behaviors	○Yuka Tamura, Kevin P Mcsweeney
2015A-OS1-5	14:20 ~ 14:40	Risk Evaluation of Ship Hullgirder Collapse based on Post-Ultimate Strength Behavior Analysis	○Kazuhiro Iijima, Masahiko Fujikubo
2015A-OS1-6	14:40 ~ 15:00	A Procedure for Estimating Loss of Life Caused by a Passenger Ship Accident	○Mitsufumi Asami, Hideyuki Oka, Fujio Kaneko
2015A-OS1-7	15:00 ~ 15:20	A Study of Consequence Modeling of Spills and Fires from Flammable Liquid Tankers Due to the Maritime Accident	○Arata Kimura, Hideyuki Oka
2015A-OS1-8	15:20 ~ 15:40	Study on the Evaluation Methods of Oil Spill Risk from Tankers and Environmental FSA	○Yasuhira Yamada, Fujio Kaneko
2015A-OS1-9	15:40 ~ 16:00	Concept of Structural Design based on Life-cycle Risk Assessment	○Yasumi Kawamura, Fujio Kaneko

### 【Room 3】

#### 10:00 ~ 11:40 General Session (GS1)

2015A-GS1-1	10:00 ~ 10:20	Investigation of Critical Shear Stress in Simulation of Mud Erosion	Takero Yoshida, ○Takuya Yamaguchi, Hiroyuki Oyama, Toru Sato
2015A-GS1-2	10:20 ~ 10:40	Experimental Research on the Erosion model for Large Particle Collisions	○Satoru Takano, Sotaro Masanobu, Hiroki Sasagawa
2015A-GS1-3	10:40 ~ 11:00	A Measurement of VIV Hydrodynamic Forces in Cross-flow and Rotational direction on Two Circular Cylinders with Constant Space	○Hiroya Yamamoto, Tomo Fujiwara, Masahiko Ozaki
2015A-GS1-4	11:00 ~ 11:20	Two Dimensional Simulation of Rotating Cylinder by Discrete Vortex Method	Chen Wei, ○Chang-Kyu Rheem
2015A-GS1-5	11:20 ~ 11:40	Model Test and CFD Analysis for Cargo Oil Heating of a Crude Oil Tanker	○Naoya Yamashita, Susumu Tanaka, Kazutaka Seki, Shogo Kashiwabara, Satoshi Yamauchi

#### 13:00 ~ 14:40 General Session (GS2)

2015A-GS2-1	13:00 ~ 13:20	Experimental Study on Generating Efficiency of a Floating OWC "Backward Bent Duct Buoy"	Yasutaka Imai, Syuichi Nagata, Tengen Murakami, ○Yohei Ushijima, Tosiaki Setoguti
2015A-GS2-2	13:20 ~ 13:40	A Fundamental Study on the Wave Run-Up Performance for the Floating Overtopping Wave Energy Converter	Mitsuhiro Masuda, Yutaro Sasahara, ○Yoshihiko Hujita, Kiyokazu Minami
2015A-GS2-3	13:40 ~ 14:00	Numerical Simulation of Point Absorber Type Wave Energy Converter under Resonance Control	○Chutatsu Hirao, Tomoki Taniguchi, Kentaroh Kokubun, Toshifumi Fujiwara, Shunji Inoue
2015A-GS2-4	14:00 ~ 14:20	Numerical Analysis on Primary Conversion Efficiency of a Floating Pendulum Wave Energy Converter	Shuichi Nagata, Yasutaka Imai, Tengen Murakami, ○Hiroshi Morikawa
2015A-GS2-5	14:20 ~ 14:40	System Performance of OWC Type Wave Power Generator	○Masami Suzuki

#### 15:00 ~ 16:20 General Session (GS3)

2015A-GS3-1	15:00 ~ 15:20	Numerical Simulation of Interaction Between Wave and Structures	○Reika Tanimoto, Shingo Yamanaka, Akira Sou, Yasunori Nihei
2015A-GS3-2	15:20 ~ 15:40	Numerical Estimation for Tidal-current Energy Resources in Indonesia	○Shade Rahmawati, Hidemi Mutsuda, Yasuaki Doi
2015A-GS3-3	15:40 ~ 16:00	An Experimental Investigation into Coupled Response of FOWT Moored to Single Point Buoy Under Combined Wind and Wave Loads	○Yuiko Kuroda, Kazuhiro Iijima, Pierre-Emmanuel Guillemet
2015A-GS3-4	16:00 ~ 16:20	Demonstration on Cost-reduction of Mooring System for Floating Offshore Wind Turbine Facility	○Tomoaki Utsunomiya, Koji Gotoh, Katsutoshi Kita, Osamu Kobayashi, Iku Sato, Hirofumi Takano, Toshiya Iwashita

### 【Room 4】

#### 10:00 ~ 12:00 General Session (GS4)

2015A-GS4-1	10:00 ~ 10:20	3D Dispersion Analysis for Spilled Oil	○Takahiro Majima, Shoichi Hara, Hideyuki Shirota, Naoki Nakatani
2015A-GS4-2	10:20 ~ 10:40	An Impact Assessment for the Coastal Marine Ecosystem by Oil Spill	○Naoki Nakatani, Minae Takahashi, Takahiro Majima, Shoichi Hara, Hideyuki Shirota
2015A-GS4-3	10:40 ~ 11:00	An Experiment on the Transition of the Development of Axisymmetric Gravity Currents	○Yosuke Sawano, Nobuhiro Baba, Satoshi Morita, Masayuki Ishida
2015A-GS4-4	11:00 ~ 11:20	Control of Subharmonic Motion in Tethered Buoy System	○Chong Ma, Kazuhiro Iijima, Masahiko Fujikubo
2015A-GS4-5	11:20 ~ 11:40	Study on Energy Conservation in Cloaking by Multiple Floating Bodies	○Mariko Miki, Masashi Kashiwagi, Takahito Iida
2015A-GS4-6	11:40 ~ 12:00	Numerical Reproduction of Interaction Effect Between Circular Polyethylene Pipe and Net of Aquaculture Cage under Current	○Ryuichi Takagi, Taisuke Ozaki, Kazuhiro Iijima, Sho Ito, Masahiko Fujikubo

13:00 ~ 14:40 **General Session (GS5)**

2015A-GS5-1	13:00 ~ 13:20	Development of Image Analysis of Bubble Distribution around the Ship with Air Lubrication System	○Takamichi Hiroi, Tatsuya Hamada, Naoto Sogihara, Hideki Kawashima, Hikaru Kamiirisa, Kiyoshi Arihama, Takashi Yonezawa, Yoichi Moriuchi, Susumu Maita, Yuki Yoshida
2015A-GS5-2	13:20 ~ 13:40	Bubble Trace Prediction around Ship with Air Lubrication System	○Naoto Sogihara, Kiyoshi Arihama, Takashi Yonezawa, Yoichi Moriuchi, Susumu Maita, Yuki Yoshida
2015A-GS5-3	13:40 ~ 14:00	SPIV Stern Flow Measurement around Operating Propeller for with and without Duct Condition of Japan Bulk Carrier	○Norihiro Jufuku, Masatoshi Hori, Syougo Ito, Munehiko Hinatsu, Yasuyuki Toda
2015A-GS5-4	14:00 ~ 14:20	CFD Computation around Energy-saving Device of Japan Bulk Carrier on Overset Grid	○Saori Yokota, Emel Tokgoz, Wu Ping-Chen, Yasuyuki Toda
2015A-GS5-5	14:20 ~ 14:40	Estimations of Propeller Cavitation Noise by CFD - Conventional vs Highly-Skewed Propeller -	○Nobuaki Sakamoto, Hikaru Kamiirisa

15:00 ~ 16:20 **General Session (GS6)**

2015A-GS6-1	15:00 ~ 15:20	Accuracy of Frictional Resistance Evaluation Method by Towing Parallel Plates in the Model Basin	○Hideki Kawashima, Tatsuya Hamada, Takamichi Hiroi, Masahiko Makino
2015A-GS6-2	15:20 ~ 15:40	Hull Surface Pressure Measurement of the Affix-type Multipoint Pressure Sensor Using FBG	○Hiroshi Fukushima, Masahito Wakahara, Tatsuo Nishikawa, Toichi Fukasawa, Takeshi Kanai
2015A-GS6-3	15:40 ~ 16:00	Calculation of Propeller and Rudder Interaction Using Simplified Propeller Theory Considering Propeller Geometry Exactly	○Takashi Kanemaru, Tomohiro Ryu, Akira Yoshitake, Jun Ando
2015A-GS6-4	16:00 ~ 16:20	Fundamental Investigations on Numerical Prediction for Ship Speed Drops and Propeller Forces in Waves	○Yasushi Kitagawa

**【Room 5】**

9:40 ~ 12:00 **General Session (GS7)**

2015A-GS7-1	9:40 ~ 10:00	Application of Extended Maximum Likelihood Method to Wave Observation by Microwave Pulse Doppler Radar	○Hidetaka Kobayashi, Chang-Kyu Rheem
2015A-GS7-2	10:00 ~ 10:20	Development of Disk Type Underwater Glider for Virtual Mooring - Oceanographic Observation by Underwater Glider -	○Masahiko Nakaura, Yuzuru Ito, Wataru Koterayama, Joshiro Noda, Hisao Kanehara, Nobuhiro Yamawaki, Takeshi Matsuno
2015A-GS7-3	10:20 ~ 10:40	Design of a Gliding Underwater Vehicle for Ocean Floor Resources Exploration	Satoru Yamaguchi, Yo Yamamoto, ○Satoshi Nakamura, Taishiro Katsu
2015A-GS7-4	10:40 ~ 11:00	Development of Fish Type Robots swimming in a Complex Flow Field	○Shinpei Fujiwara, Satoru Yamaguchi
2015A-GS7-5	11:00 ~ 11:20	A Method for Wide Area Survey of Seafloor Using Multiple Autonomous Underwater Vehicles - Performance Evaluation and Discussion through Experiments in Shallow Area-	○Takumi Matsuda, Toshihiro Maki, Yoshiki Sato, Takashi Sakamaki
2015A-GS7-6	11:20 ~ 11:40	Seabed Visualization Technology Using an Underwater 3D Laser Scanner and the Prospect	○Shojiro Ishibashi, Hiroshi Yoshida
2015A-GS7-7	11:40 ~ 12:00	Underwater Acoustic Observations of Marine Mammals and Sound-source Analysis (3rd Report) - Estimation of Three-Dimensional Position of Cetacean Vocalisation Source -	○Masakazu Arima, Ying Zheng, Shinya Akiyama, Noriko Funasaka, Shiriji Sakamoto, Hiroya Minakuchi

13:00 ~ 14:40 **General Session (GS8)**

2015A-GS8-1	13:00 ~ 13:20	Numerical Simulation of Fatigue Crack Propagation Using Elastic-plastic Finite Element Analysis and a Proposal of Fatigue Crack Propagation Law Considering the Plastic Strain Energy Consuming in the Vicinity of a Crack Tip	○Kohei Yamashita, Koji Gotoh
2015A-GS8-2	13:20 ~ 13:40	Fatigue Strength Assessment of Tubular Structures Based on Fracture Mechanics Approach	○Takahiro Kawahara, Kazuhisa Yagi, Satoyuki Tanaka, Hiroshi Okada, Naoki Osawa
2015A-GS8-3	13:40 ~ 14:00	Study on Equivalent Distributed Stress Determination Technique Which Takes into Account SIF Convergence for Infinitesimally Short Cracks	Naoki Osawa, Satoyuki Tanaka, ○Genki Shiraishi, Masahiro Toyosada
2015A-GS8-4	14:00 ~ 14:20	The Study on Controlling Brittle Crack Propagation and Arrest in Heavy-Section Steel Plates by the Model Calculation	○Fuminori Yanagimoto, Kazuki Shibamura, Katsuyuki Suzuki, Shuji Aihara
2015A-GS8-5	14:20 ~ 14:40	Numerical Evaluation of Stress Intensity Factors of Three-Dimensional Surface Cracks in Welded Joints Using the Superposition Method	○Ramy Gadallah, Naoki Osawa, Satoyuki Tanaka

15:00 ~ 15:40 **General Session (GS9)**

2015A-GS9-1	15:00 ~ 15:20	Ice Resistane test Using Synthetic Ice for Icebreaker Advancing in Pack Ice	○Junji Sawamura, Hidetaka Senga
2015A-GS9-2	15:20 ~ 15:40	A Study on the Collision Response Between Icebreaker and Ice Floe based on the Model Test Using the Synthetic Ice	○Hyoil Kim, Junji Sawamura

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### November 17 (Tuesday)

No.	Time	Title	Author
<b>【Room 1】</b>			
10:00 ~ 12:00 <b>General Session (GS10)</b>			
2015A-GS10-1	10:00 ~ 10:20	A Study on The Usefulness of Laser Tack Welding for Laser/arc Hybrid Welding	○Shuichi Tsumura, Ryota Aoyagi, Keji Gotoh
2015A-GS10-2	10:20 ~ 10:40	A Study on Evaluation of Ductile Fracture Limit for Various Steels	○Takehisa Yamada, Yoichi Yamashita, Sohei Kanna
2015A-GS10-3	10:40 ~ 11:00	A Study on Collapse Behavior and Decrease of Effective Width of Stiffened Plates Under Biaxial Compression	○Yoshiaki Naruse, Yasumi Kawamura, Tetsuo Okada
2015A-GS10-4	11:00 ~ 11:20	Simplified Estimation of Stress Distribution of Double Bottom Structure under Local Loads	○Sadaoki Matsui, Chikahisa Murakami, Toshiro Arima, Masahiko Fujikubo
2015A-GS10-5	11:20 ~ 11:40	Strength of Curved Shell Plating of Ships under Hoop Stress –2nd Report: Verification and Considerations through Finite Element Analysis–	○Tetsuo Okada, Junze Lin, Yasumi Kawamura
2015A-GS10-6	11:40 ~ 12:00	Nonlinear Analysis for Stiffened Plate Structure Employing Reproducing Kernel Particle Method	○Ken-Ichiro Yoshida, Shota Sadamoto, Satoyuki Tanaka
13:00 ~ 14:40 <b>General Session (GS11)</b>			
2015A-GS11-1	13:00 ~ 13:20	Effect of Mechanical Softening on Cyclic Buckling Behavior of a Steel Plate	○Seiichiro Tsutsumi, Kazushi Ueda, Riccardo Fincato, Masahiko Fujikubo
2015A-GS11-2	13:20 ~ 13:40	Prediction Method of Buckling Strength for Ellipsoidal Spherical Shell with Initial Imperfection by Numerical Analysis	○Atsushi Sano, Naoya Matsubara, Tatsuya Imai, Naruyoshi Izumi
2015A-GS11-3	13:40 ~ 14:00	Torsional Buckling Strength Formula of Tee-bar Stiffeners with Consideration of Web Deformation	○Yusuke Murata, Masahiko Fujikubo, Kazuhiro Iijima, Akira Tatsumi
2015A-GS11-4	14:00 ~ 14:20	Collapse Behavior of Steel Sandwich Panel with Corrugated-Core or Web-Core Subjected to In-Plane Compression	○Daisuke Yanagihara
2015A-GS11-5	14:20 ~ 14:40	Ultimate Longitudinal Strength Analysis of Container Ships Considering Local Load Effects (1st Report)	○Akira Tatsumi, Masahiko Fujikubo, Sadaoki Matsui
15:00 ~ 16:40 <b>General Session (GS12)</b>			
2015A-GS12-1	15:00 ~ 15:20	Natural Frequency Analysis of Ship's Superstructure Considering Support Structure	○Kenji Shimoda, Daisuke Yanagihara, Naoji Toki
2015A-GS12-2	15:20 ~ 15:40	Basic Study on Estimation Method of Water Impact Load Using CFD (2nd Report)	○Tomoki Takami, Masayoshi Oka
2015A-GS12-3	15:40 ~ 16:00	An Investigation of an Effect of Wave Impact Load on a Probability of Exceedance of Wave Vertical Bending Moment in Irregular Waves	○Yoshitaka Ogawa
2015A-GS12-4	16:00 ~ 16:20	Investigation of Design Wave for a Fatigue Strength Assessment by means of Whole Ship Finite Element Analysis	○Teppei Shiraishi, Yoshitaka Ogawa
2015A-GS12-5	16:20 ~ 16:40	Fundamental Study on Combined Motion/collapse Analysis of Ship Hull Girder Using Smith's Method	○Kazuki Murata, Akira Tatsumi, Masahiko Fujikubo, Kazuhiro Iijima
<b>【Room 2】</b>			
9:40 ~ 12:00 <b>Organized Session (OS7) The Forefront Activities of Maritime Tsunami Disaster</b>			
2015A-OS7-1	9:40 ~ 10:00	Seismic Survey and Crustal Structure Model Along the Eastern and Southwestern Margin of the Japan Sea	○Takeshi Sato, Tetsuo No, Seiichi Miura, Narumi Takahashi, Shuichi Kodaira
2015A-OS7-2	10:00 ~ 10:20	Basic Research of the Wharf Effect During Tsunami Attack	○Shota Yoneda, Eiichi Kobayashi, Hirotsada Hashimoto, Yusuke Tahara
2015A-OS7-3	10:20 ~ 10:40	Simulation of Sediment Resuspension and Advection Transport in Osaka Bay Induced by Tsunami of Nankai-Trough Great Earthquake	○Soto Suzuki, Satoshi Nakada, Mitsuru Hayashi, Shunichi Koshimura, Eiichi Kobayashi
2015A-OS7-4	10:40 ~ 11:00	A Study on the Tsunami Protection Measures by the Floating Tsunami Protection Wharf Which Considered Backwash	○Mitsuhiro Masuda, Chiaki Sato, Kiyokazu Minami
2015A-OS7-5	11:00 ~ 11:20	A Feasibility Study on the Pier Mooring Method of the Floating Medical Support System	○Mitsuhiro Masuda, Chiaki Sato, Yosuke Hashimoto, Kiyokazu Minami, Koichi Masuda, Hiroaki Eto, Tomoki Ikoma
2015A-OS7-6	11:20 ~ 11:40	A Study on Marine Evacuation Traffic Under the Newly Assumed Tsunami Attack in Akashi Strait	○Masako Murayama, Eiichi Kobayashi, Yuki Taniguchi, Shunichi Koshimura
2015A-OS7-7	11:40 ~ 12:00	A Fundamental Study on Development and Practical Use of the Tsunami Hazard Map for Mooring Ships	Koichi Masuda, Yoichi Arai, Masato Ohno, Tomoki Ikoma, Mitsuhiro Masuda, Takujiro Miyamoto, ○Satoshi Hoshino, Masatoshi Ishihashi

13:00 ~ 16:40 **Organized Session (OS2) Optimize Shipping Operation Efficiency and CO<sub>2</sub> Emission Reduction**

2015A-OS2-1	13:00 ~ 13:20	On the Verification Project for CO <sub>2</sub> Emission Reductions with Ship-scheduling/Voyage-planning System	○Toshiyuki Kano
2015A-OS2-2	13:20 ~ 13:40	A Ship Scheduling System for Coastal Cement Carriers by Constraint Programming and Slow Steaming	Keisuke Sato, ○Keiji Sato, Takahiro Seta, Mitsunori Yasuda
2015A-OS2-3	13:40 ~ 14:00	Decision Support System for Coastal Oil Tanker Scheduling	○Kazuhiro Kobayashi, Takahiro Seta, Keiji Sato
2015A-OS2-4	14:00 ~ 14:20	A Study of Evaluation methodology for Ship Propulsion Performance with Operational Monitoring Data	Toshiyuki Kano, Keiji Sato, ○Minato Sato
2015A-OS2-5	14:20 ~ 14:40	Speed Planning Support System for Coastal Vessels	○Keiji Sato, Takahiro Seta
2015A-OS2-6	14:40 ~ 15:00	On Log Speed Correction for Ship Navigation Analysis	Katsuyoshi Takekuma, ○Fumika Kitazawa , Etsuko Yamazaki
2015A-OS2-7	15:00 ~ 15:20	Improvement of Current Forecast by Assimilating Observed Ship Drift Data	○Kazutoshi Horiuchi, Toshiyuki Kano, Yasumasa Miyazawa, Keiji Sato, Akinori Murata
2015A-OS2-8	15:20 ~ 15:40	Development and Installation of Onboard Navigation Support System for Existing Vessels	○Mitsuru Kobayashi, Kazuo Matsuda, Keiichi Hirayama, Hidetoshi Tachibana
2015A-OS2-9	15:40 ~ 16:00	Development of a Fleet Management System for Coastal Shipping in Japan	○Takahiro Majima, Toshiyuki Kano
2015A-OS2-10	16:00 ~ 16:20	On the Evaluation Methodology Applying Ship-scheduling /Voyage-planning System for CO <sub>2</sub> Emission Reductions	○Toshiyuki Kano, Sadahiro Namie, Yukimi Shimura
2015A-OS2-11	16:20 ~ 16:40	On the Effect of CO <sub>2</sub> Emission Reduction from Vessels by Introducing Voyage-planning System	○Toshiyuki Kano, Takahiro Majima, Keiji Sato, Sadahiro Namie, Katsuyoshi Takekuma, Etsuko Yamazaki, Reiko Kon

**【Room 3】**

9:40 ~ 12:00 **General Session (GS13)**

2015A-GS13-1	9:40 ~ 10:00	Investigation of Advantages of High Lift Rudders by Viscous CFD	○Kenichi Kume, Ryosuke Suzuki
2015A-GS13-2	10:00 ~ 10:20	Development of High Lift Performance Rudders with Wedge Tails	○Trieu Van Nguyen , Taruko Ikebuchi , Yoshiho Ikeda
2015A-GS13-3	10:20 ~ 10:40	An Experimental Study on the Performance of High Lift Rudders under High Propeller Loads	○Ryosuke Suzuki, Yoshiaki Tsukada, Michio Ueno, Eiichi Muraoka
2015A-GS13-4	10:40 ~ 11:00	An Experiment on Effective Wave Slope Coefficient for Heeled Two-Dimensional Models	○Harukuni Taguchi, Hiroshi Sawada, Tomihoro Haraguchi, Takako Kuroda
2015A-GS13-5	11:00 ~ 11:20	Motion Analysis of Crane Barge During Lifting Operation	○Hiroshi Kawabe, Muneo Tsuda, Satoshi Miyazaki, Yoshinosuke Kurahara, Nobuhiko Matsuda, Tarou Isayama
2015A-GS13-6	11:20 ~ 11:40	On the Effect of the Longitudinal Restoring Force on Added Resistance in Long Crested Irregular Waves in Tank Tests	○Mariko Kuroda, Ken Takagi, Masaru Tsujimoto, Akiko Sakurada, Junichi Fujisawa
2015A-GS13-7	11:40 ~ 12:00	Effect of Stem Profile on Added Resistance of Full Hull Ships in Waves	○Akinori Matsumoto, Hironori Yasukawa

13:00 ~ 14:40 **General Session (GS14)**

2015A-GS14-1	13:00 ~ 13:20	A Study on Application of Sailboat's Hull form to a PCC (2nd Report)	○Sejiro Miyake, Takahiro Yano, Yoshifumi Tai, Nobuyuki Shimizu, Satowa Ibata, Yoshiho Ikeda
2015A-GS14-2	13:20 ~ 13:40	Model Test and CFD Analysis of Maneuvering Forces on a Ship under Reverse Rotations of Propeller	Susumu Tanaka, ○Shinnosuke Hori
2015A-GS14-3	13:40 ~ 14:00	An Attempt of Energy Saving for a Ship in Wave by Using Real-Time Optimal Control of Propeller Pitch and Electric Propulsion	○Hidenari Makino, Naoya Umeda, Shoji Ikejima, Toshiyuki Ohtsuka, Hidenori Sekiguchi, Masaki Fukazawa
2015A-GS14-4	14:00 ~ 14:20	Mathematical Model of Propeller Thrust /Torque and Rudder Normal Force in Following and Quartering Seas	○Mitsuhiro Nakamura, Yasuo Yoshimura, Fumiaki Saito, Hirotada Hashimoto, Yo Fukui
2015A-GS14-5	14:20 ~ 14:40	Wave Forces Acting on Hull in Following and Quartering Seas (2nd Report)	○Fumiaki Saito, Yasuo Yoshimura, Mitsuhiro Nakamura, Hirotada Hashimoto, Akihiko Matsuda, Daisuke Terada

15:00 ~ 16:40 **General Session (GS15)**

2015A-GS15-1	15:00 ~ 15:20	An Investigation of Relation Between a Probability of Occurrence of Excessive Acceleration and Wave Condition	○Yoshitaka Ogawa
2015A-GS15-2	15:20 ~ 15:40	Long-term Prediction of Ship Responses with Service Performance Simulation	Munehiko Minoura, ○Naoyuki Murata
2015A-GS15-3	15:40 ~ 16:00	Application of Weather Correction to Onboard Measurement Data and Evaluation of Weather Effect by Performance Simulations in Actual Seas	○Akiko Sakurada, Naoto Sogihara, Mariko Kuroda, Masaru Tsujimoto, Yoshihiko Sugimoto, Ken Hasegawa
2015A-GS15-4	16:00 ~ 16:20	Data Assimilation on Parametric roll Resonance in Regular Head Waves	○Daisuke Terada, Hirotada Hashimoto, Akihiko Matsuda
2015A-GS15-5	16:20 ~ 16:40	On Economical Evaluation in Operating the Resonance-Free SWATH	○Tokuko Matsuki, Hajme Kihara, Motoki Yoshida, Munehiko Minoura

**【Room 4】**

10:00 ~ 11:40 **General Session (GS16)**

2015A-GS16-1	10:00 ~ 10:20	Flow Analysis around a Container Ship with an Energy-saving Rudder Using an Overset Grid Method	○Takuya Okamoto, Takanori Hino
2015A-GS16-2	10:20 ~ 10:40	Hydrodynamic Study on Propeller – Rudder System Performance Using CFD Code	○Takeaki Tamada, Jun Ando
2015A-GS16-3	10:40 ~ 11:00	A Detailed Numerical Study on Influence of After-Body Frame-Lines on Near-Wall and Near-Wake Flow Fields	○Yasuo Ichinose, Yusuke Tahara, Yoshikazu Kasahara
2015A-GS16-4	11:00 ~ 11:20	Calculation of an Annular Lifting Surface by a Mode Function Method (Part 1) –Using the Cylindrical Coordinate System–	○Koichi Koyama, Koichiro Shiraishi, Hikaru Kamiirisa
2015A-GS16-5	11:20 ~ 11:40	Calculation of an Annular Lifting Surface by a Mode Function Method (Part 2) –Using the Helical Coordinate System–	○Koichi Koyama, Koichiro Shiraishi, Hikaru Kamiirisa

13:00 ~ 14:40 **Organized Session (OS4) A Three-Dimensional Product Information Sharing and Application in the Maritime Industry**

2015A-OS4-1	13:00 ~ 13:20	Activity Report on the Project Research Committee P-40: Committee to Examine the Common Format of Ship 3D Information to Realize the Intelligence Sharing and Advanced Use of Ship 3D Information – Toward the Realization of SPEEDS–	○Kunihiro Hamada
2015A-OS4-2	13:20 ~ 13:40	Result of the Project Research Committee P-40 Working Group for the Advanced Use of Ship 3D Information within Shipyards	○Tokimasa Hiraki
2015A-OS4-3	13:40 ~ 14:00	Result on the Project Research Committee P-40 Working Group for Integrated Utilization of 3D Information in Maritime Industries –Potentiality of SPEEDS–	○Motochika Nagano
2015A-OS4-4	14:00 ~ 14:20	An Outline and Conceptual Image of 3D Viewer for Sharing Ship's 3D Information	○Masaru Ozaki
2015A-OS4-5	14:20 ~ 14:40	Feasibility Study of Plan Approval utilizing 3D-CAD Model	Toshihiro Fujii, Koji Mihashi, Kazuhiko Matsuoka, Ken Ito, Koki Maeda, Mitsuhiro Kidogawa, ○Satoshi Mizutani

15:00 ~ 16:40 **General Session (GS17)**

2015A-GS17-1	15:00 ~ 15:20	Improvement of Heap Model for Block-Assembly Scheduling	○Tomoya Iwashita, Hiroyuki Kajiwara
2015A-GS17-2	15:20 ~ 15:40	A Study on the System Dynamics Model for Demand Forecasting of Ship in Consideration of the Influence of Ship Price	○Yujiro Wada, Kunihiro Hamada, Noritaka Hirata
2015A-GS17-3	15:40 ~ 16:00	A Study on the Demand Forecasting of Tankers Using System Dynamics Model	○Yui Ishihara, Kunihiro Hamada, Noritaka Hirata, Yujiro Wada, Kazutaka Seki, Shinji Yamada
2015A-GS17-4	16:00 ~ 16:20	Trend Analysis of East Asia Automotive Parts Logistics	○Sung-Il Han
2015A-GS17-5	16:20 ~ 16:40	An Estimation Method of Vessel Detection Rate from Actual AIS Data Themselves Using Binomial Distribution Model	○Takahiro Seta, Hiroshi Matsukura, Taro Aratani, Kenkichi Tamura

**【Room 5】**

9:40 ~ 12:00 **General Session (GS18)**

2015A-GS18-1	9:40 ~ 10:00	Empirical Research for Ship Design by CO-USE of 3DCAD in the Engineering Cloud (4)	Masaharu Kado, Masahiro Tamashima, Akira Matsuo, ○Kenji Mokuo, Souichi Yamaguchi, Kouki Maeda, Toshifumi Takeda, Akira Okamura, Shinichi Tagashira
2015A-GS18-2	10:00 ~ 10:20	A Study on Evaluation Method of Ship Life Cycle Value with Real Option Analysis Considering Real Sea Environments and Market Fluctuation	Kazuo Hiekata, Taiga Mitsuyuki, Hiroyuki Yamato, ○Tomoki Saito
2015A-GS18-3	10:20 ~ 10:40	Development of Data Management System combining Experimental and CFD for Ship Design Platform Based on Ships' Performance in Actual Sea	○Shinnosuke Wanaka, Hiroyuki Yamato, Kazuo Hiekata, Taiga Mitsuyuki, Motokazu Enomoto, Yoshihiro Tsuchiya
2015A-GS18-4	10:40 ~ 11:00	Development of an Instrument System for Field Alignment Piping Using Kinect V2 Sensor	○Takumi Nakamura, Hajime Kimura
2015A-GS18-5	11:00 ~ 11:20	Deflection Measurements of Wooden Blocks under Ship Bottom	○Takaaki Iwakiri, Yukio Hama, Yasuhisa Okumoto
2015A-GS18-6	11:20 ~ 11:40	Fundamental Study for the Application of Laser Scanner to the Measurement of Building Block	○Yusuke Komoriyama, Naoji Toki, Daisuke Yanagihara

13:00 ~ 14:20 **General Session (GS19)**

2015A-GS19-1	13:00 ~ 13:20	Development of Storm Surge Risk Map for Container Based on Characteristics of Ise Bay	○Rikito Hisamatsu, Kei Horie
2015A-GS19-2	13:20 ~ 13:40	Study of the Breakwater at Ofunato Bay, with an Equal Emphasis on Disaster Prevention and Environmental Protection (II)	○Hiroyuki Oyama, Xuening Wen, Toru Sato
2015A-GS19-3	13:40 ~ 14:00	Interactions Between Run-up Tsunami and Structures Using Particle Based Method	○Andi Ardianti, Hidemi Mutsuda, Yasuaki Doi
2015A-GS19-4	14:00 ~ 14:20	A Fundamental Study on Development and Performance Verification of High Performance New Type Anchor	○Mitsuhiro Masuda, Chiaki Sato, Ikuho Otani, Kiyokazu Minami

15:00 ~ 16:20 **General Session (GS20)**

2015A-GS20-1	15:00 ~ 15:20	Research on Structural Design of a Triangular Floating Structure Equipped with Three Wind-lens Turbines	Yukitaka Yasuzawa, Yoshikazu Tanaka, ○Shunsuke Ohtsubo, Masanori Kobayashi
2015A-GS20-2	15:20 ~ 15:40	Study on Thruster Induced Roll/Pitch Motion of Semi-submersible	○Kazuhisa Otsubo, Mitsushi Watanabe
2015A-GS20-3	15:40 ~ 16:00	Simulation Method of VIM on Mono-column Type Floater	○Toshifumi Fujiwara
2015A-GS20-4	16:00 ~ 16:20	VIM Measurement and Simplified Estimation Method on Semi-submersible Type Floater with Different Column Interval	○Toshifumi Fujiwara, Tadashi Nimura, Kohei Shimozato, Ryosuke Matsui