## Annal Autumn Meeting of JASANOE 2014 Program

**Date:** November 20-21, 2014  
**Venue:** Nagasaki Brick Hall (http://www.brickhall.jp/), Nagasaki, Japan

### November 20 (Thursday)

#### General Session

**International conference room**  
Organizer: Toichi Fukasawa

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:40 ~ 15:40</td>
<td>The effects of bow shape on added resistance in waves</td>
<td>Dong-Min Park, Jae-Hoon Lee, Min-Guk Seo, Yonghwan Kim, Chiharu Kawakita</td>
</tr>
<tr>
<td>13:40 ~ 15:40</td>
<td>Estimation of frictional drag reduction effect for the ship with air lubrication system</td>
<td>Hyun-suk Park, Bae-won Seo, Kim Han</td>
</tr>
<tr>
<td>13:40 ~ 15:40</td>
<td>A study on the characteristic of hull form design under the influence of global recession and environmental regulations tightened by IMO</td>
<td>Kazuyoshi Harumi</td>
</tr>
<tr>
<td>09:00 ~ 09:20</td>
<td>Prevention of Adhesion of Cypris Larvae under LED Light Source with High Illumination Intensity as well as Survey of Individuals of the Larvae in Seawater taken on Board</td>
<td>Haruo Mimura, Kohei Hirono, Yoshiji Yano Noriyuki Endo</td>
</tr>
<tr>
<td>09:20 ~ 09:40</td>
<td>Improvement of Water Quality by Microbubble Generation in Hakata Bay - Experiment and Simulation</td>
<td>Patxi Garcia Novo, Yusuke Mori, Yusaku Kyozuka, Yosuke Kyoizuka, Masayuki Ida, Seiji Kobayashi, Shuzo Igawa, Ichiro Katsuyama</td>
</tr>
<tr>
<td>09:40 ~ 10:00</td>
<td>Study on Bio-Fouling on Test Plates in Strong Tidal Current</td>
<td>Masakazu Arima, Masayuki Miyamoto, Noriko Funasaka, Shinji Sakamoto, Hiroya Minakuchi</td>
</tr>
<tr>
<td>10:00 ~ 10:20</td>
<td>Water Tank Testing on the Collision Risk of Fish With Tidal or Oceanic Current Turbines</td>
<td>Sayuri Taya, Daisuke Kitazawa, Yoichi Mizukami, Masakazu Arima, Masayuki Miyamoto, Noriko Funasaka, Shinji Sakamoto, Hiroya Minakuchi</td>
</tr>
<tr>
<td>11:00 ~ 11:20</td>
<td>On a Concept for considering that the Freak Wave which a Ship encounters</td>
<td>Tokako Kuroda, Katsuji Tanizawa, Hiroshi Kobayashi, Kento Mozumi, Takuii Waseda, Amin Chabchoub, Chang-Kyu Rheem</td>
</tr>
<tr>
<td>11:20 ~ 11:40</td>
<td>Nonlinear numerical analysis on geometry and particle velocity of three dimensional freak wave</td>
<td>Hidetaka Kobayashi, Chang-Kyu Rheem</td>
</tr>
<tr>
<td>11:40 ~ 12:00</td>
<td>Wash Wave Generation by the Three Dimensional Numerical Wave Tank</td>
<td>Chang-Kyu Rheem</td>
</tr>
<tr>
<td>12:00 ~ 12:20</td>
<td>Free Surface Wave Reconstruction Using Marker-Net Method</td>
<td>Chang-Kyu Rheem</td>
</tr>
<tr>
<td>12:20 ~ 12:40</td>
<td>Numerical simulation of irregular wave growth based on Boussinesq equation</td>
<td>Chang-Kyu Rheem</td>
</tr>
</tbody>
</table>
**General Session**

09:00 ~ 09:20
Characteristics of Hydrodynamic Forces of the Triple-Wing-Rudder and the Influence on the Propulsive Performance of a Ship

The new hull form with twin rudders utilizing duct effects

Kenichi Kume, Masahiro Kishimoto, Ryoei Fukasawa

Adatomo Kuribayashi, Takehiko Matsuoka, Nobuhiro Asaumi, Toshifumi Takeda, Masaki Fukazawa, Hiroyuki Yanaizumi, Noriyuki Sasaki

09:20 ~ 09:40
Development of Methodology on Model-Ship Experiment to Measure Ship Speed Drop in Waves using Marine Diesel Engine Simulator and Auxiliary Thruster System Third Report, Measurement of Speed Drop in Multi Directional Irregular Waves

Application of Uncertainty Analysis for Measurement of Added Resistance in Waves

○Naoto Sogihara, Masaru Tsujimoto, Yoshikazu Kasahara, Ryoei Fukasawa

09:40 ~ 10:00
Study of wind resistance and wind velocity measured at the sea trial

A Study on the Propulsion Test Procedure adopting the Reversed Configuration Propeller Open Water Test

11:00 ~ 11:20
Simulation Study on a New Procedure of Tidal Current Correction - When a Tidal Constituent of around a Half-day Period is Dominant -

Simulation Study on a New Procedure of Tidal Current Correction - When Tidal Current Velocity Variation does not Show Regularity -

The development of a dissipative potential flow model for resistance prediction

○Naoji Toki

11:20 ~ 11:40
Some expressions for ship maneuverability by a simple zigzag steering using rectangular function

Zig-zag simulations of KYLCC2 by CFD-Systems based maneuvering prediction method

A Study on Steady Equilibrium Condition of Free-running Model Ships

11:40 ~ 12:00
A Study on Steady Equilibrium Condition of Free-running Model Ships

A Study on the Narrow Water Effect on the Hydrodynamic Forces Acting on a Hull by Captive Model Test

A Study of the Distinction Tool for Kinds of Ship based upon the Image-processing about the Silhouette of a Ship

12:00 ~ 12:20
Study on the Narrow Water Effect on the Hydrodynamic Forces Acting on a Hull by Captive Model Test

A Study of the Distinction Tool for Kinds of Ship based upon the Image-processing about the Silhouette of a Ship

○Toru Katayama, Kazuki Hashimoto, Hiroshi Asou, Member Shigenori Komori

○Yuji Doya, Syunsuke Tutumi

○Nozomi Sugiyama, Motohiko Murai, Hiroshi Kawabe, Paula Suemy Arruda Michima

**General Session**

09:00 ~ 09:20
Development of a motion stabilizer for a Shallow Sea Area Spar Buoy in Wind, Current and Waves

Consideration about the Evaluation Technique of the Stability as the Floating of the Rectangular Hull

09:20 ~ 09:40
Coupled response of floating body and mooring system in case of a mooring line break

Time domain drill ship motion calculation considering moon pool water surface motion effect

09:40 ~ 10:00
Some expressions for ship maneuverability by a simple zigzag steering using rectangular function

Zig-zag simulations of KYLCC2 by CFD-Systems based maneuvering prediction method

A Study on Steady Equilibrium Condition of Free-running Model Ships

11:00 ~ 11:20
Reflecting Operation Limits of Engines

11:20 ~ 11:40
A Study on Steady Equilibrium Condition of Free-running Model Ships

A Study on the Narrow Water Effect on the Hydrodynamic Forces Acting on a Hull by Captive Model Test

A Study of the Distinction Tool for Kinds of Ship based upon the Image-processing about the Silhouette of a Ship

12:00 ~ 12:20
Study on the Narrow Water Effect on the Hydrodynamic Forces Acting on a Hull by Captive Model Test

A Study of the Distinction Tool for Kinds of Ship based upon the Image-processing about the Silhouette of a Ship

○Keisuke Suzuki, Shun Sakuma

○Yosuke Asakura, Kenichi Kume, Ryuuke Suzuki, Michio Ueno, Yoshiaki Tsukada

○Hiroyoshi Ibaragi, Yoshitaka Furukawa, Yatsuki Nakiri, Akiji Shinkai, Satoru Yamaguchi, Yuki Kanmera, Yusuke Kuchiki, Satoshi Nakamura
[Room 4]

General Session

A study on topology optimization for the reduction of weld residual stress
09:00 ~ 09:20
Takafumi Nishizu,
Akihiro Takezawa,
Mitsuru Kitamura

Method for analyzing Structure with Uncertainty in Shape by Stochastic Finite Element Method
09:20 ~ 09:40
Xi Chen, Yasumi Kawamura

In-situ Temperature Measurement using Multi-sensor Camera during Laser Welding
09:40 ~ 10:00
Shotaro Yamashita, Motomichi Yamamoto,
Kenji Shinozaki, Kota Kadoi, Kenji Mitsui, Hiroyuki Usui

Development of Vertical Welding Process for Thick Steel Plate using Hot-wire Laser Welding Method
10:00 ~ 10:20
Koei Hashida,
Eakkachai Warinsiriruk,
Motomichi Yamamoto,
Kenji Shinozaki, Kota Kadoi, Hiroshi Yajima,
Tadakazu Tanino, Tsutomu Fukui, Shin Nakayama, Tetsuro Nose, Syoko Tsuchiya,
Hiroshi Watanabe, Tatsunori Kanazawa

Improvement of Fatigue Strength for Fillet Welded Joint using Hot-wire Laser Welding
10:20 ~ 10:40
Daiki Okita,
Motomichi Yamamoto,
Kenji Shinozaki, Kota Kadoi

Fatigue strength of non-load carrying type Tee welded joints with large gap
11:00 ~ 11:20
Junichi Deguchi, Koji Gotoh

Evaluations of crack propagation behaviors in T-shaped tubular joint
11:20 ~ 11:40
Takahiro Kawahara, Satoyuki Tanaka,
Kazuhiisa Yagi, Takashi Murakami, Hiroshi Okada, Naoki Osawa

A study of fatigue strength estimation method in terms of structural reliability analysis
11:40 ~ 12:00
Masayoshi Oka,
Toshio Niwa, Ken Takagi

On the Calculation of the Re-Compressive Plastic Zone’s Size at a Tip of Fatigue Crack Using the PIV Method
12:00 ~ 12:20
Kazuya Nishimura, Junichi Katsuta,
Masayoshi Wada, Masao Moriyama

On the Characteristic of Fatigue Crack Propagation And a New Estimation Method of Propagation Limit at the 780 Class High-Tensile Steel Plate
12:20 ~ 12:40
Daichi Miyazaki, Junichi Katsuta

On the Estimation of the Fatigue Life in the Spot Welded Joint of Thin Steel Plates
12:40 ~ 13:00
Kenta Komiya, Junichi Katsuta,
Masayoshi Wada, Seiichiro Tsutsumi

[Room 5]

General Session

Estimation of flow information necessary for the design of ocean current turbine
09:00 ~ 09:20
Kosuke Makino, Ken Takagi, Takuji Kaseda, Koji Kiyomatsu

An Evaluation of Ocean Renewable Energy Potential around Japan with 20 years Metocean Dataset
09:20 ~ 09:40
Tomoki Taniguchi, Shigesuke Ishida,
Toshifumi Fujiwara, Shinji Inoue

A Study on Standard Sea State for Safety and Performance Evaluation of Offshore Wind and Marine
09:40 ~ 10:00
Tomoki Taniguchi, Shigesuke Ishida,
Toshifumi Fujiwara, Shinji Inoue

Wave Amplitude Patterns among Floating Bodies in the Cloaking Phenomenon
10:00 ~ 10:20
Takahito Iida, Masashi Kashiwagi

Wave Energy Absorption in Irregular Waves by a Floating Body Equipped with Interior Rotating Generator
10:20 ~ 10:40
Riku Takaramoto, Masashi Kashiwagi

Investigation of flow velocity distribution around double rotor type horizontal axis tidal power turbine
11:00 ~ 11:20
Tomoyuki Hirobe, Chang-kyu Rheem, Koki Maruyama

Evaluation of winglet effect on tidal power turbine with reverse taper blade
11:20 ~ 11:40
Tomoyuki Hirobe, Chang-kyu Rheem, Koki Maruyama
Motion analysis of resonance type wave energy converter

Primary Conversion Efficiency of a Floating Type Pendulum Wave Energy Converter in Irregular Waves

Power Generation Experiments of Fixed OWC Wave Energy Converter with Impulse Turbine

A Study on Movement Performance of Fish Type Robots using Artificial Muscle and Servo Motor
Developments of Analysis Codes of Coupled Response of Floating Offshore Wind Turbine

- Hideyuki Suzuki, Yoshitaka Totsuka, Kimiko Ishii, Toshiya Iwashita, Shinichiro Hirabayashi, Hiroshi Inamura
- Shunji Inoue
- Kazuhiro Iijima, Yuiko Kuroda, Chong Ma, Motohiko Murai, Yasunori Nihei
- Daisuke Kitazawa, Shigeru Tabeta
- Tomoki Utsunomiya, Shigeo Yoshida, Iku Sato, Takashi Shiraiishi

Tank test technologies for floating offshore wind turbine
Weathervane performance of a single point moored FOWT

- Consideration on Environmental Impact Assessment of Floating Wind Turbines
- Working Example of Design Loads Acting on a Spar-type Floating Wind Turbine

13:20 ～ 16:20

OS4: Integrated engineering in marine resources development
Organizers: Ken Takagi and Ryota Wada

On the Enhancement of Ocean Technology for Offshore Oil and Gas Development
Recent Activities of Japanese Companies in Offshore Oil and Gas Development
A study on a commercial gas production system for methane hydrate development
Classification and Applicable Rules for Offshore Structures
A study of excavation for mining from the deep sea floor
Fluctuations of Rotary Speed and Torque on Bit due to Drilling Ship Motions
Sudden change of wind conditions for offshore operation in the sea near Japan
Consideration of duration statistics of ocean state for offshore operation

[Room 2]

General Session

Response Surface Methodology for Propeller Blade Optimization Using Real-Coded Genetic Algorithm

- Daijiro Arakawa, Takashi Kanemaru, Jun Ando
- Shinjiro Arakawa, Takashi Kanemaru, Jun Ando
- Shinya Matsumoto, Risa Kimoto, Takayuki Mori
- Yusuke Tahara
- Takayoshi Yamada, Chiharu Kawakita, Kei Sato

Curved Surface Reconstruction for Local Refinement of CFD Grids
Study on the incerase or decrease of pressure fluctuation of marine propeller running in bubbly flow
Numerical Simulation on Propulsion and Seakeeping Performance of a Fishing Boat Improving Bow and Stern
Development of the Vessel Performance Simulator along Northern Sea Route - Verification of the Resistance Prediction Model of Ships in Ice-clogged Channel -

- Takanori Hino
- Chiharu Kawakita
- Takahiro Go, Hidemi Mutsuda, Yasuaki Doi
- Shotaro Uto, Haruhito Shimoda, Daisuke Wako, Takatoshi Matsuawara
- Masahiro Sakai, Naho Yamashita, Naoya Umeda
- Daisuke Terada, Hirota Hashimoto, Akihiko Matsuda
- Daisuke Terada, Jyun Miyoshi, Akihiko Matsuda
- Toru Katayama, Jun Umeda, Burak Yildiz
- Harukuni Taguchi

Direct Estimation of Maximum Amplitude of Ship Parametric Roll in Longitudinal Waves Identification procedure of the parameter used for the mathematical model due to the parametric roll resonance (2nd report)
Parameter identification of the mathematical model on prediction of manoeuvring motion
A Study on Bilge-keel Roll Damping Component for shallow draft
An Effect of Steady Heel on Short-Term Probability of Shipping Water onto a Purse Seiner
**OS2 : Spilled Oil and Gas Tracking Autonomous Buoy System and Application to Marine Disaster Prevention System**

**Organizer: Yoshimi Kato**

- Current Status and Issues of SOTAB Project
  - Naomi Kato, Hiroyoshi Suzuki, Hidetaka Senga, Yasunori Okano, Yohei Takagi, Eiichi Kobayashi, Masakazu Arima, Hajime Chiba, Muneo Yoshie, Toshinari Tanaka

- Spilled Oil and Gas Tracking Autonomous Underwater Vehicle SOTAB-I
  - Mahdi Choyekh, Masahiro Ukita, Ryota Kimura, Yasuaki Yamaguchi, Naomi Kato, Hidetaka Senga, Muneo Yoshie, Toshinari Tanaka

  - Ryota Kimura, Hiroyoshi Suzuki, Hidetaka Senga, Masahiro Ukita, Mahdi Choyekh

- Autonomous sea surface vehicle for oil spill tracking in open waters
  - Swarn Singh Rathour, Naomi Kato, Hidetaka Senga, Naoto Tanabe, Muneo Yoshio, Toshinari Tanaka

- Numerical simulation of methane gas blow out in deep water
  - Youhei Takagi, Yasunori Okano, Naomi Kato

- Data Assimilation in the Numerical Model of Drifting of Spilled Oil on Sea Surface
  - Hiroyoshi Suzuki, Satoaki Tsutsukawa, Naomi Kato

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**[Room 3]**

**General Session**

- On the Steady and Unsteady Aerodynamics of Wing-In-Ground Effect
  - Yuma Ito, Hidetsugu Iwashita

- Numerical simulation of wave-body interaction by Lattice Boltzmann method
  - Xuhui Li, Changhong Hu

- Hydrodynamic Characteristic of Rudder Sections with High Lift Force (Part 3) - The Trailing Edge with Flat Plate -
  - Trieu Van Nguyen, Yoshiho Ikeda

- Design of Track-Keeping Control System without Speed Through Water
  - Fuyuki Hane

- Sliding-Mode Control System Design for Resonance-Free SWATH
  - Hiroyuki Kajiwara, Masamitsu Kanda, Go Oishi, Motoki Yoshida

- Construction of Maneuvering Support System to a Sailing Ship in Coastal Sea Area
  - Shigeaki Shiotani, Xinzhu Liu, Toshiki Gotoh, Kenji Sasa, Ichirou Asano

- Evaluation of Abrasion for Subsea Mining with Large Particles in Inclination Pipe
  - Satoru Takano, Masao Ono, Sotaro Masanobu

- Study of Slurry Transport for Subsea Mining - 1st Report Experimental Studies of Slurry Transport in Inclined Pipe -
  - Sotaro Masanobu, Tomo Fujitara, Shigeo Kanada, Masao Ono, Satoru Takano

- Study of Slurry Transport for Subsea Mining - 2nd Report Estimation Method of Pressure Loss in Slurry Transport in Inclined Pipe -
  - Sotaro Masanobu, Satoru Takano, Tomo Fujitara, Shigeo Kanada, Masao Ono

- Permeability reduction caused by suspended fine particles migrating in sand sediment
  - Keisuke Mitsuhori, Toru Sato, Shinichiro Hirabayashi

- Development of Simulation Method for Mud Erosion in Methane Hydrate Bearing Layers Using Lattice Boltzmann Method
  - Takero Yoshida, Toru Sato, Hiroyuki Oyama
13:40 ~ 14:00 Experimental Analysis of Fluidization Phenomena during Gas Production Condition in Sand-Mud

14:40 ~ 16:40

**OS3: Fluid-Structure Interactions**
Organizer: Masashi Kashiwagi

Wave-induced vibration of a flexible jacket foundation for OWT

○Kazuhiro Iijima, Pierre-Emmanuel Guillerm

Fluid structure interaction analysis by interface tracking method using background mesh

○Kazuki Ikushima, Masahiko Fujikubo

Coupled response of a tethered buoy in waves

○Chung Ma, Kazuhiro Iijima, Masahiko Fujikubo

Coupled motion/collapse analysis of ship’s hull girders in waves using Idealized Structural Unit Met

○Shuo Huang, Masahiko Fujikubo, Kazuhiro Iijima, Akira, Tatsumi

Study on Scale Effects on Three-Dimensional Sloshing Flow

○Sang-Yeob Kim, Jae-Hoon Lee, Yonghwan Kim

**General Session**

09:00 ~ 09:20 An experimental study concerning corrosion fatigue of structural steels in seawater

○Yoshitaka Wataya, Noboru Konda, Hidetoshi Kobayashi, Keitarou Horikawa, Kenichi Tanigaki

Study on simulation method for corrosion of coated steel panels in water ballast tank (Part 1) - Numerical simulation of under-film corrosion starting from a linear coating defect -

09:20 ~ 09:40

Characterization of corroded surface of coated steel panels in water ballast tank

09:40 ~ 10:00

Characterization of deterioration phenomenon in water ballast tank

10:00 ~ 10:20

Development of Fe(II) Fluorescent Indicator for Under-Film Corrosion Monitoring of Epoxy-coated Steel Panels

10:20 ~ 11:00

Development of evaluation method for brittle crack arrest toughness in heavy thick plate by combined small-scale tests

11:00 ~ 11:40

Effect of fillet weld metal toughness on long brittle crack arrest behavior in Tee joint

11:20 ~ 11:40

Evaluation of statistical scatter in Charpy absorbed energy with brittle fracture process zone

11:40 ~ 12:00

Study on CTOD evaluation method of weld joint with strength mismatch (2nd Report)

12:00 ~ 12:20

Study on Scale Effects on Three-Dimensional Sloshing Flow

○Sang-Yeob Kim, Jae-Hoon Lee, Yonghwan Kim
Ultimate strength assessment of continuous stiffened panel under shear and thrust (2nd report) - Shear buckling collapse behavior and ultimate strength assessment - Hiroaki Ogawa, Tomoki Takami, Masahiko Fujikubo, Yoshiteru Tanaka, Takahiro Ando, Shinichi Hirakawa, Tomoki Miyata, Akira Tatsumi

Ultimate Longitudinal Strength of Ships’ Hull Girder under Combined Loading - Development and validation of simplified analysis method - Yoshiteru Tanaka, Yutaka Hashizume, Hiroaki Ogawa, Akira Tatsumi, Masahiko Fujikubo

Model test of a damaged hull girder assuming side damage caused by ship collision - Tomoki Takami, Masaaki Sakuma, Yasuhira Yamada

Damage tolerance design methodology of windshield membrane - Katsumi Suzuki, Zhenlin Zhao, Kazuki Shibahara

Estimation of Ultimate Strength of Stiffened Plates Considering Torsional Deformation of Stiffeners - Kimitihiro Toh, Takao Yoshikawa

OS1: The advance of evaluation of wave loads for the assessment of ship structural strength
Organizers: Yoshitaka Ogawa and Toichi Fukasawa
A consideration of real situation of ship navigation and operation Toichi Fukasawa, Yoshitaka Ogawa
About Advancement of Weather Routing Hitoi Tamari
A state of the art of evaluation of wave loads from the viewpoint of structural strength Yoshitaka Ogawa, Toichi Fukasawa, Takashi Mikami
A consideration of an evaluation of wave loads for a whole ship finite element analysis Yoiki Osawa, Koji Gotoh, Tetsuya Nakamura
A review of fatigue strength evaluation in the superimposed stress history conditions Yoiki Osawa, Koji Gotoh, Yoshitaka Ogawa
A Suggestion for Checking Items on Fatigue Damage Reports Toichi Fukasawa, Naoki Osawa, Koji Gotoh, Yoshitaka Ogawa
Future work for the rational evaluation of wave loads from the viewpoint of design and rule development Koizumi, Hiroaki Kobayakawa

General Session
On the estimation of slamming impact pressure using CFD and the resulting structural response of a ship Nobuhito Tahara, Tsutomu Momoki, Toichi Fukasawa
Study on bending fatigue function of CFRP for the application of ship propeller Yoichi Ogawa, Hideaki Murayama, Kazuo Kageyama, Makoto Kanai, Toshio Yamaguchi, Takaya Sakurai, Yoshiyuki Inoue
Light and highly strong ceramic pressure-tight housing with metal caps Kenichi Asakawa, Yosaku Maeda, Hidehito Himeno, Masao Yoshida, Naoyuki Okubo

Numerical Simulation of a Horizontal Axis Tidal Turbine Using OpenFOAM Cheng Liu, Changhong Hu
A study on wave energy absorption systems for ships Hirokazumi Hashimoto
Validation of ocean currents and power near Miyake Island reproduced in JCOPE-T Keiji Kiyomatsu, Yukio Kadomoto, Takuya Waseda, Sergey Voronov, Yasumasa Miyaizaki, Ken Takagi
11:40 ~ 12:00
Recovery of Ship Motion Energy by Utilizing Linear Generator
Munehiko Minoura, Keita Inoue, Hisafumi Yoshida, Hisao Tanaka

12:20 ~ 12:40
Study on OWC-MO type wave power generation using screw speed up gears
Yoichi Kan, Sadaharu Kusuba, Katsushi Koga, Koichi Okada

12:40 ~ 13:00
Hydrodynamic forces acting on a cylindrical OWC column used for wave energy converter in regular waves
A Study on the Efficiency of Primary Conversion of the OWC Type Wave Power Absorbing Buoy
Koito Takamatsu, Yuutarou Sasahara, Mitsuhiko Masuda, Hiroyuki Osawa, Tsuyoshi Miyazaki, Kiyokazu Minami, Shin Ibaraki

13:00 ~ 13:20
Experimental investigation of Drillpipe Stick-Slip phenomena
Yoshitomo Mogi, Tokihiro Katsui, Tomoya Inoue, Kenta Izutani

13:20 ~ 13:40
Development and improvement of an observation method of rotating drill pipe using accelerometers
Zengo Yoshida, Chang-Kyu Rheem, Tomoya Inoue

14:00 ~ 14:20
Real-time Color Detection of a Light Buoy Aids to Navigation of an Autonomous Ship
Yutoshi Pandey, Kazuhiko Hasegawa

14:40 ~ 15:00
Estimating the amount of Ship Recycling using Satellite Imagery
Masanori Watahama, Takeshi Shinoda, Kazuhiko Hasegawa

15:20 ~ 15:40
Productive Technologies in Korean Shipbuilding
Takashi Tahara, Takeshi Shinoda

15:40 ~ 16:00
Trends and Prospects Analysis of Japan-Korea automotive parts logistics
Yujirou Wada, Kunihiro Hamada, Noritaka Hirata, Yui Ishihara, Kazutaka Seki, Syuhei Miura

16:00 ~ 16:20
A study on the demand forecasting of bulk carriers using system dynamics model
Yujiro Wada, Kunihiro Hamada, Noritaka Hirata, Yui Ishihara, Kazutaka Seki, Syuhei Miura

General Session
A study on ship evacuation under the newly assumed Tsunami Attack in Akashi Strait
Masako Murayama, Eiichi Kobayashi, Yuki Taniguchi, Shinnichi Koshimura

09:00 ~ 09:20
A Fundamental study of Ship Behavior under Tsunami Attack by Using Overset Grid RANS Solver
Shota Yoneda, Eiichi Kobayashi, Yusuke Tahara, Hirotada Hashimoto

09:40 ~ 10:00
Research on position keeping vessels under the new assumed tsunami attack in Osaka Bay
Takuro Kawabata, Wataru Sera, Eiichi Kobayashi, Shinnichi Koshimura

10:00 ~ 10:20
A Study of Anchor Chain Model to Evaluate Behavior of Moored Ships under Tsunami Attack
Shota Yoneda, Eiichi Kobayashi, Wataru Sera, Shinnichi Koshimura, Yuuta Shirakawa

10:40 ~ 11:00
A Study on Development and Performance Evaluation of High Performance New Type Anchor
Ikuho Otani, Mitsuhiko Masuda, Masaharu Hashimoto, Kiyokazu Minami

11:00 ~ 11:20
Study on Floating Large size Tsunami Shelter - 2nd Report: consideration of mooring system
Takuma Kishi, Kiyokazu Minami, Mitsuhiko Masuda

11:20 ~ 11:40
A Fundamental Study on Mooring Methods in the Longitudinal Wave of the Moored Vessels at the Wharf in Tsunamis
Mitsuhiko Masuda, Kiyokazu Minami, Koichi Masuda

11:40 ~ 12:00
A Fundamental Study on the Estimation of Tsunami Damage Protection Performance of the Movable Break Water Using the MPS Method
Yoshikiko Fujita, Mitsuhiko Masuda, Eigai Hamada, Kiyokazu Minami, Takuma Kishi

12:00 ~ 12:20
A Fundamental Study on Marine Tsunami Hazard Map for Vessels in a Harbor
Satoshi Hoshino, Koichi Masuda, Tomoki Ikoma, Masato Ohno, Kazuki Murata
Evaluation for Safety Assessment on Walkway at Shipyard - Effect on Body Balance of Gradient of Steps -
○Takashi Tanaka, Takeshi Shinoda, Taku Matsumoto

Reduction of Sloshing Risk in Membrane-type LNG Tanks -Proposal of Distribution Control Method-
Development of a design support system for field alignment piping
○Masaru Matsuo, Makoto Arai
○Shohei Shindo, Hajime Kimura, Tatsuya Yasuda

Development of hull form optimization system for tension leg platform by using optimization algorithm
○Toshio Sugita, Hideyuki Suzuki

Evaluation for General Arrangement on Ship’s Superstructure for Design Planning
Takashi Tanaka, Takeshi Shinoda, ○ Kunpei Waki

Development of Curved Shell Plate’s Processing Plan Generation System
Jingyu Sun, ○Kazuo Hiekata, Hiroyuki Yamato, Norito Nakagaki, Akiyoshi Sugawara

Development of a WEB Application for scheduling of Block-Assembly line
○Tomoya Iwashita, Hiroyuki Kajiwara

Extracting interaction between sections from log data of drawing management
○Taiga Mitsuyuki, Kazuo Hiekata, Hiroyuki Yamato, Shinshouke Wanaka, Jiro Matsuno, Yuta Sawaki