



| DAY 1 - Tuesday 26 th September 2017 | | | |
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| 08.30-09.25 | REGISTRATION & COFFEE | | |
| Session 1 | Crystal Suite | | |
| 09.25-09.30 | Welcome Address | | |
| 09.30-09.50 | Augmented Reality & Smart Interfaces Meet Maritime Industry - Opportunities & Challenges <i>Prof Dr.-Ing. Wolfgang MUELLER-WITTIG Nanyang Technological University (NTU), Singapore</i> | | |
| 09.50-10.10 | The journey from data capture to predictive analytics <i>Mark Tipping, Manager - Offshore Technology, Marine and Offshore, Lloyd's Register EMEA, UK</i> | | |
| 10.10-10.45 | CYBER PHYSICAL SYSTEM IN SHIPBUILDING TOWARD REALIZE SMART SHIPYARD: INTEGRATION OF MONITORING SYSTEM AND SHIPYARD SIMULATION SYSTEM, <i>Kazuhiro Aoyama, Mayuna Hoshi, Yusei Hiro, Ryo Kitamura and Kazuya Oizumi, The University of Tokyo, Japan</i> | | |
| 10.45-10.50 | AVEVA - Sponsor Presentation | | |
| 10.50-11.20 | COFFEE | | |
| | Track I | Track II | Track III |
| Session 2 | YOO - SANG CHOO | BERNARD FERRIER | JAMIE DUNCAN |
| 11.20-11.55 | A FUNCTION LEARNING METHOD FOR ASSESSING THE EFFECTS OF DESIGN BIAS IN EARLY-STAGE SHIP DESIGN, <i>Michael J. Sypniewski and David J. Singer, Department of Naval Architecture and Marine Engineering, The University of Michigan, USA</i> | A STUDY ON THE IMPROVEMENT AND APPLICATION OF SYSTEM DYNAMICS MODEL FOR DEMAND FORECASTING OF SHIPS, <i>Yujiro Wada, Hiroshima University, Japan</i> | SINGLE SOURCE DATA - HELP OR HINDRANCE <i>J L Martin, SAMOSC Ltd., UK</i> |
| 11.55-12.30 | OPTIMAL ARRANGEMENT METHOD FOR NAVAL SURFACE SHIP CONSIDERING THE STABILITY, OPERABILITY, AND SURVIVABILITY, <i>Sun-Kyung Jung, Myung-Il Roh, Seung-Min Lee, Ki-Su Kim, Seoul National University, Republic of Korea</i> | A STUDY ON THE SUPPORTING SYSTEM OF SHIP BASIC PLANNING BY USING MARINE LOGISTIC BIG DATA, <i>Mohammad Danil Arifin ST.MT, Kunihiro Hamada, Noritaka Hirata, Yuki Koide, Hiroshima University, Japan</i> | <i>Experience Capture in Shipbuilding using Microsoft Share Point</i> <i>Kodungallur Sivaprasad, Yashwant R. Kamath, Cochin University of Science and Technology</i> |
| 12.30-12.35 | BETA CAE - Sponsor Presentation | | |
| 12.35-13.50 | LUNCH | | |
| Session 3 | JACQUELINE CHRISTMAS | HIROYUKI YAMATO | JOHN MARTIN |
| 13.50-14.25 | A CASE STUDY IN OPTIMIZING 3D EARLY DESIGN FOR SHIPBUILDING, <i>Jinsup Cheong, Samsung Heavy Industries, South Korea, Joseph Baumer, Intergraph PP&M, USA, HeeWon Lee, Intergraph Marine Center, South Korea</i> | INVESTIGATING THE IMPACT OF DISTRIBUTED SYSTEM ROUTING DENSITIES ON VESSEL OPERABILITY, <i>Conner J. Goodrum, Colin P. F. Shields, and David J. Singer - The University of Michigan, USA</i> | MINIMIZING THE DESIGNER / END USER GAP USING VIRTUAL REALITY, <i>Winston Pynn, Marine Institute of Memorial University, Canada</i> |
| 14.25-15.00 | INTENT-DRIVEN CAD VS. MECHANICAL CAD IN SHIPBUILDING - A REVIEW AND SOLUTION OUTLINE, <i>Matthias Grau, PROSTEP, Germany</i> | EFFECTIVE UTILIZATION OF DIGITAL DESIGN ASSETS DURING THE POST-DESIGN PHASES IN MODERN SHIPBUILDING, <i>Mikko Yllikäinen, CADMATIC, Finland</i> | THE VIRTUAL SHIP: FROM DESIGN TO TRAINING, <i>Massimo Peverero, Davide Tozzi, Aldo Zini (CETENA S.p.A.), Italy</i> |
| 15.00-15.35 | POWER WITH SIMPLICITY TO VISUALIZE YOUR DIGITAL ASSET - A REVOLUTION FOR DECISION MAKING, <i>Gauthier Stonestreet, AVEVA Solutions</i> | PERFORMANCE VERIFICATION OF A SUBMARINE AIR CONDITIONING SYSTEM, <i>Jan D. Wilgenhof, MecDes, the Netherlands, Jesús Molina Toledo, Navantia, Spain</i> | <i>Development of an efficient installation method for vertical pressure vessels in offshore plants with 3D scanning technologies</i> <i>Mingyu Kim, SAMSUNG Heavy industries</i> |
| 15.35-15.40 | Altair - Sponsor Presentation | | |
| 15.40-16.10 | COFFEE | | |
| Session 4 | ALDO ZINI | JAMIE DUNCAN | JOHN MARTIN |
| 16.10-16.45 | EMD-based Natural Excitation Technique for modal parameters identification for ship structure <i>Hongyu Cui, Dalian University of Technology</i> | NAVAL SHIP DESIGN RULES EMBODIMENT IN A CAD TOOL, <i>Jesús A. Muñoz, Rodrigo Pérez and Silvia Santana, SENER, Spain</i> | THE IMPLICATIONS OF UNINHABITED VEHICLE TECHNOLOGY ON FLEET STRUCTURES AND SHIP DESIGN, <i>N. Kouriampalis, R. J. Pawling and D. J. Andrews, Design Research Centre, Department of Mechanical Engineering, University College, London, UK</i> |
| 16.45-17.20 | BOW SHAPE OPTIMIZATION OF A CRUISE SHIP FOR MINIMUM ADDED RESISTANCE BASED ON ACTUAL OPERATIONAL PROFILE, <i>FENG Pei-yuan, HE Jia-yi, FAN She-ming, WANG Jin-bao, Marine Design & Research Institute of China (MARIC), China</i> | <i>Smarter Production, Panel line Optimization</i> <i>Kimmo Salmi, Intergraph PP&M</i> | INTEGRATED DEVELOPMENT ENVIRONMENT OF AUTONOMIC SOFTWARE FOR USV (UNMANNED SURFACE VEHICLE) BASED ON ROS (ROBOT OPERATING SYSTEM), <i>Hye-Won Lee, Myung-Il Roh, Luman Zhao, Seung-Ho Ham, Nakwan Kim - Seoul National University, Republic of Korea</i> <i>Chan-Woo Yu - Agency for Defense Development, Republic of Korea</i> |
| 17.20-17.25 | Sponsor Presentation D1 | | |
| 19.00-22.00 | CONFERENCE DINNER (Orchid Ballroom), SPONSORED BY AVEVA | | |



| DAY 2 - Wednesday 27 th September 2017 | | | |
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| | Track 1 | Track 2 | Track 3 |
| 08.30-09.00 | REGISTRATION | | |
| Session 1 | JOACHIM BRODDA | YOO - SANG CHOO | |
| 09.00-09.35 | Big Data Platform for PLM (Product Lifecycle Management) Systems in Shipbuilding and Offshore Industry, <i>Seong-Hoon Kim, Seoul National University, Myung-Il Roh, Min-Jae Oh, Namkug Ku, Sehyun Myung, Dong-eui University, Youngsan University</i> | INTELLIGENT PME SOFTWARE FOR PRODUCTIVITY IN DESIGN OFFICES, <i>Prabjot Singh Chopra, Manager, Technical & Business Development, SeaTech Solutions International (s) Pte. Ltd. Singapore, Umamaheshwar Reddy Gadekari, Asst. Manager, SeaTech Solutions International (s) Pte. Ltd. Singapore</i> | |
| 09.35-10.10 | A STUDY ON DECISION SUPPORT METHODOLOGY FOR EVALUATING IOT TECHNOLOGIES USING SYSTEMS APPROACH, <i>Kazuo Hiekata, Taiga Mitsuyuki, Bryan Moser, Ryuji Ueno and Ryota Wada, University of Tokyo.</i> | INNOVATIVE PROGRESS MONITORING TOOL FOR ELECTRICAL DETAIL DESIGN, <i>Anish S, Cochin Shipyard Ltd., India</i> | |
| 10.10-10.45 | AN ENTERPRISE MODELLING APPROACH FOR THE EARLY SHIP DESIGN, <i>Robert Bronsart, University of Rostock, Germany, Wisam Jabary, Tischrin University, Syria</i> | AUTOMATED GENERATION OF DETAILED CABLING DOCUMENTATION FOR CRUISE SHIPS', PASSENGER AND COMMERCIAL VESSELS' ACCOMMODATION, <i>Antonios-Vassilios Lalechos, Electrical, Electronic & Control Systems R&D, LePlan, Greece</i> | |
| 10.45-10.50 | SSI - Sponsor Presentation | | |
| 10.50-11.20 | COFFEE | | |
| Session 2 | BERNARD FERRIER | | JACQUELINE CHRISTMAS |
| 11.20-11.55 | Tools for predicting parametric rolling and its application for second generation intact stability criteria <i>Jesús A. Muñoz, SENER</i> | | THE EXAMINATION REPORT, THE EFFECTIVE INFORMATION COLLABORATION BETWEEN DIFFERENT SEVERAL DESIGN STAGES, <i>Taisuke Kunisada, Sanoyas Shipbuilding Corporation, Japan</i> |
| 11.55-12.30 | ACOUSTIC SIMULATION FOR CABIN ON SHIP BY FINITE ELEMENT METHOD, <i>Yasuaki Ohtsuki, Tsuneishi Shipbuilding Co., Ltd., Japan, Yohei Wakisaka, Altair Engineering, Inc., Japan</i> | | PREDICTIVE ENGINEERING ANALYTICS FOR THE MARINE INDUSTRY, <i>Wim Cardoen, Siemens Industry Software, Belgium</i> |
| 12.30-12.35 | Sponsor Presentation B2 | | |
| 12.35-13.50 | LUNCH | | |
| Session 3 | ALESSANDRO GARIBBO | JOHN MARTIN | JAMIE DUNCAN |
| 13.50-14.25 | DEVELOPMENT OF SHIP STRUCTURAL DESIGN AND ASSESSMENT SYSTEM BASED ON HARMONIZED CSR, <i>Hogyun Park, Korean Register, Korea</i> | AN EVOLUTIONARY MODEL FOR UNDERSTANDING THE EFFECTS OF LIMITED INFORMATION ON SHIP DESIGN DECISIONS AND LOCK-IN, <i>Dorian C. Brefort, Colin P. F. Shields, David J. Singer, University of Michigan, USA</i> | SHIP MOTION PREDICTION USING SIMULATION-TECHNOLOGY DEVELOPMENTS AND RESULTS FROM A DEDICATED ROYAL NAVY SEA TRIAL, <i>Bernard Ferrier, Hoffman Engineering, USA</i> |
| 14.25-15.00 | A MODEL BASED APPROVAL PROCESS FOR BASIC HULL DESIGN, <i>Ole Christian Astrup, DNV GL, NORWAY</i> | MODELLING AND SIMULATION OF ORGANIC RANKINE CYCLE FOR WASTE HEAT RECOVERY OF AN OFFSHORE SUPPLY VESSEL <i>ChunWee Ng, I C K Tam, D Wu, Newcastle University</i> | IMPROVING LAUNCH AND RECOVERY OPERATIONS THROUGH QUIESCENT PERIOD PREDICTION FROM RADAR, <i>Mustafa Al-Ani, University of Exeter, UK</i> |
| 15.00-15.35 | 3D DIGITAL CLASSIFICATION, <i>Christophe Chauviere, Olivier Degrand, Bureau Veritas, France, Thierry Le Gal, Lionel Le Guennic, Cédric Cheylan, Dcns, France, Alexandre Tew Kai, Glenn Dutrieux, Dassault Systèmes, France</i> | AUTOMATIC PIPING ARRANGEMENT DESIGN CONSIDERING PIPING SUPPORTS AND CURVED SURFACES OF BUILDING BLOCKS, <i>Hajime Kimura, Kyushu University, Japan</i> | REAL-TIME SHIP AIR-WAKE AND FREE STREAM MEASUREMENTS USING DOPPLER LiDAR, <i>Jacqueline Christmas, University of Exeter, UK</i> |
| 15.35-15.40 | Sponsor Presentation C2 | | |
| 15.40-16.10 | COFFEE | | |
| Session 4 | HIROYUKI YAMATO | ALDO ZINI | JOACHIM BRODDA |
| 16.10-16.45 | INTEGRATION OF SHIP HULL FORM MODELING BASED ON SUBDIVISION SURFACES WITH OTHER SHIP DESIGN TOOLS, <i>Sebastian H. Greshake, Robert Bronsart, University of Rostock, Chair of Ship Design, Germany</i> | Spatial Augmented Reality for Manufacturing Information of Curved Shell Plates <i>Kota Okada, Kazuo Hiekata, Taiga Mitsuyuki, Masakazu Enomoto, Yoshiyuki Furukawa, the University of Tokyo</i> | ENSURING SOFTWARE RELIABILITY, SAFETY, AND SECURITY, <i>David Card, DNV GL, USA</i> |
| 16.45-17.20 | Influence of computer applications in resistance prediction of vessels <i>Sri Harish Kalidass, Blue Bear Systems and research Limited</i> | Pre-processing module for the welding distortion analysis according to the different assembly sequences <i>Minseok Kang, Hyun Chung, KAIST</i> | PROTECTING INTELLECTUAL PROPERTY RIGHTS IN DISTRIBUTED CAD ENVIRONMENTS, <i>Ludmila Seppälä, CADMATIC, Finland</i> |
| 17.20-17.25 | Sponsor Presentation D2 | | |
| 19.00-21.00 | EVENING DRINKS RECEPTION (), SPONSORED BY SIEMENS | | |



| DAY 3 - Thursday 28 th September 2017 | | | |
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| | Track 1 | Track 2 | Track 3 |
| 08.30-09.00 | REGISTRATION | | |
| <i>Session 1</i> | ALESSANDRO GARIBBO | JACQUELINE CHRISTMAS | JOHN MARTIN |
| 09.00-09.35 | VARIATION OF ASYMMETRIC SIDE HULL STAGGERED AND SEPARATION OF PENTAMARAN HULL RESISTANCE BY COMPUTATIONAL FLUID DYNAMICS (CFD), Yanuar, Firman A. Nugroho, Zulfah Zikrina, Universitas Indonesia, Indonesia | TECHNOLOGICAL ADVANCEMENTS MADE IN NAKILAT'S FLEET Fairuz Aledroos, Nakilat, Qatar | VIRTUAL REALITY EMPOWERED DESIGN, Luis Sánchez, Alfonso Cebollero, Sener Ingeniería y Sistemas S.A., Spain |
| 09.35-10.10 | EFFICIENT HULL FORM DESIGN OPTIMIZATION USING HYBRID EVOLUTIONARY ALGORITHM-MORPHING APPROACH, Joo Hock Ang, Cindy Goh, Vijay P. Jirafe, Yun Li, Sembcorp Marine Ltd, Singapore, University Of Glasgow, UK | SYNCHRONISED MONITORING OF SUSTAINABILITY AND LIFE CYCLE COSTS WITH A MODULAR MARITIME IT - PLATFORM, Dr. Reinhard Ahlers, Christian Norden, BALance Technology Consulting GmbH, Germany, Alessandro Fontana, Donatella Corti, SUPSI, Italy, Maurizio Petrucciani, Dassault Systèmes Italia Srl, Italy, Jacopo Cassina, Holonix S.r.l., Italy | USING VIRTUAL REALITY PARADIGM TO PRESENT SHIP STRUCTURES IN CAD ENVIRONMENT, Gordan Sikic, USCS d.o.o., Croatia |
| 10.10-10.45 | NUMERICAL AND EXPERIMENTAL STUDY OF RESISTANCE, TRIM AND SINKAGE OF AN INLAND SHIP IN EXTREMELY SHALLOW WATER Qingsong Zeng, Robert Hekkenberg, Cornel Thill, Erik Rotteveel, Department of Maritime and Transport Technology, Delft University of Technology, the Netherlands | THE CONCEPT OF SPEEDS (SMART PLATFORM OF ENHANCED ENGINEERING DATA FOR SHIPPING AND SHIPBUILDING) AND INNOVATIVE USE OF SHIP 3D DATA, Kunihiko Hamada, Hiroshima University, Motochika Nagano, Japan Marine United Corporation, Tokimasa Hiraki(Mitsubishi Heavy Industries, Ltd., Masaru Ozaki, NTT DATA ENGINEERING SYSTEMS Corporation, Japan | IMPLEMENTATION OF WEARABLE COMPUTING IN SHIPBUILDING, Rogero Fernando, Patel Micro Data, India |
| 10.45-10.50 | Sponsor Presentation A2 | | |
| 10.50-11.20 | COFFEE | | |
| <i>Session 2</i> | JAMIE DUNCAN | JOACHIM BRODDA | |
| 11.20-11.55 | Ship Concept Design based on a 3D-CAD-System including a Requirement Verification Hannes Lindner, Robert Bronsart, University of Rostock | On a Concept of a 3D CAD/CAM system based on geometric theory for CFRP plates molding process in shipbuilding Kohei Matsuo, National Maritime Research Institute | |
| 11.55-12.30 | Holistic ship design - how to utilize a digital twin in concept design through basic design and detailed design Torben-H. Stachowski, Digitread, Helge Kjeilen, siemens | LEVERAGING ENGINEERING 3D DESIGN MODELS FOR PRODUCTION PLANNING THROUGH THE SHIPBUILDING PROJECT LIFECYCLE, Stalin Ybiernas, Keppel Singmarine, Singapore Najaf Bashir, Intergraph PP&M, Singapore | |
| 12.30-12.35 | Sponsor Presentation B2 | | |
| 12.35-13.50 | LUNCH | | |
| <i>Session 3</i> | BERNARD FERRIER | ALDO ZINI | HIROYUKI YAMATO |
| 13.50-14.25 | Enabling a Paradigm Shift in Ship Structural Design with a 3D Approach Tapio Hulkkonen, NAPA, Finland, Shin Hyung Cheol, HHI, Korea, Nak Hoon Yi, HHI, Korea, Deok Hoon Jang, NAPA, Korea, Teuk Gyu Jang, NAPA, Korea | BIG DATA ANALYTICS TO PREDICT SYSTEM'S BEHAVIOR: THE RaaS (RADAR AS A SERVICE) CONCEPT, Alessandro Garibbo, Leonardo S.p.A., Italy | IMPROVEMENTS IN LEARNING PROCESS AND PRODUCTIVITY. AN ANALYSIS OF THE RETURN OF THE INVESTMENT, Rodrigo Perez, SENER, Spain |
| 14.25-15.00 | Auto-Fine Mesh Generation for Local Analysis based on the Consistent Finite Element Model Myeong-jo Son, Jeong-jae Woo, Ho Gyun Park, Jeong-Youl Lee, Korean Register | THE NEXT GENERATION OF ASSET INTEGRITY MANAGEMENT SYSTEM, Jose Esteve, Bureau Veritas Marine & Offshore, Alexandre TEW KAI, Dassault Systèmes, France | Methodology for efficient application of 3D ship modelling software Damir J. Kolich, University of Rijeka, Armin Becirevic, Niksa Fafanjel, Richard Lee Storch, University of Washington |
| 15.00-15.35 | DEVELOPMENT FOR EVALUATION SW REGARDING TO CONTAINER SECURING STRENGTH, Jin-Young Park, Korean Register, Korea | ADVANCED REPORTING AS A TOOL IN COMPLEX MULTIDISCIPLINARY ANALYSIS - CASE GENERIC SURVIVABILITY ASSESSMENT, Roope Kotiranta, Surma Ltd, Finland | DRIVING TRANSFORMATION IN THE AGE OF EXPERIENCE, Alexandre TEW KAI, Dassault Systèmes, France |
| 15.35-15.40 | Sponsor Presentation C2 | | |
| 15.40-16.10 | COFFEE | | |
| <i>Session 4</i> | JOHN MARTIN | | JAMIE DUNCAN |
| 16.10-16.45 | MARINE PROPULSION SHAFTING SIMULATION INTERFACES, Mohamed Zeid, Caterpillar Propulsion, Sweden | | An Integrated Procedure for Preliminary Tanker Ship Design Considering Oil Outflow Risk from Ship-Ship Collision, Dimitrios Konovessis, Xiang Tan, Jidong Tao and Hock Eng Ang, Singapore Institute of Technology |
| 16.45-17.20 | RESEARCH ON LARGE-SCALE MARINE PROPULSION SHAFTING LOAD TEST AND ADJUSTMENT TECHNOLOGY, Wang Ji, Liu Zhongchi, Xue Dongxin, Zhang Shengjun, Wang Feixiang, Dalian University of Technology, China | | EXPERIENCE CAPTURE IN SHIPBUILDING THROUGH COMPUTER APPLICATIONS AND NEURAL NETWORKS, Sangeet S U and K Sivaprasad, Cochin University of Science and Technology, Kochi, India |
| 17.20-17.25 | Sponsor Presentation D2 | | |
| 17.25 | CLOSE | | |