THE 17th INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN SHIPBUILDING (ICCAS 2015)

29th September - 1st October 2015

www.rina.org.uk/ICCAS-2015
The 17th International Conference on Computer Applications in Shipbuilding (ICCAS) will review operational experience from existing computer applications in the design and build of ships and offshore structures and will cover a full range of topics including; engineering analysis, data modelling, PLM, CAD, CAM, integrated systems, knowledge management, systems engineering, simulation, visualisation, processes and standards.

It will also examine the advances in Information Technology which have contributed to increased productivity in both shipbuilding and maritime operations; including increasing co-operative working between shipyards, marine equipment and system manufacturers, engineering partners and shipping companies.

These conference attract a large International audience and provide an excellent forum for both those developing and using computer applications in shipbuilding.

Venue
The ICCAS 2015 conference will take place in Zurich Room 1, 2 and 3, 1st Floor of the Swissôtel Bremen: Hillmannplatz 20, 28195 Bremen, Germany.

Deadlines and Key Dates
Deadline for submission of papers (Authors) 29th July 2015
Early Registration discount ends 29th August 2015
Conference 29th September- 1st October 2015

Language
The Language for ICCAS 2015 is English

Conference Dinner
Delegates are invited to a dinner at the end of the first day, 29th September, kindly sponsored by AVEVA.

Evening Drinks Reception
There will be a drinks reception at the end of day 2.

Shipyard Visit
RINA will organise a visit to a local shipyard on the morning of 2nd October. More details will be made available in due course. Delegates are encouraged to sign up as soon as possible as places will be limited.

Sponsorship & Exhibition
This conference provides an excellent opportunity to increase your organisations profile and to network with a highly focused audience. A number of cost effective sponsorship options are available, including various conference sponsorship packages, exhibition space and literature distribution. If you are interested in promotional opportunities, please contact the Conference Organiser to discuss your individual requirements.

International Programme Committee:
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Bremen
Bremen, the cosmopolitan city on the Weser river, has a maritime flair as one of Europe’s oldest trading and sea ports. Rich in historic sights, traditional cafés, bars & restaurants, as well as a contemporary lifestyle, the city has main a market square that is a UNESCO World Heritage Site. Bremen is also famous for the Brothers Grimm fairy tale “The Bremen Town Musicians”, the exceptional architecture of historic Bottcherstrasse and the imposing cathedral in the unique Schnoor quarter. This 15th & 16th century neighbourhood is a pedestrian zone of narrow streets lined with small buildings jostling each other for space. Formerly tradesmen’s houses, today they contain fashionable shops & restaurants.

Further Information:
If you have any questions regarding this conference, please contact the RINA Conference department on:
Tel: +44 (0)20 7235 4622
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Website: www.rina.org.uk/ICCAS-2015
Papers Accepted for ICCAS 2015, Bremen:

USE OF SIMULATION FOR COMPLEX SHIP MANOEUVRES AS APPLIED TO UNDOCKING OF QUEEN ELIZABETH CLASS AIRCRAFT CARRIERS, Doug Milne, Operations Support Manager, Babcock, UK

KEY CAD ENHANCEMENTS TO FIT SUBMARINE DESIGN REQUIREMENTS, Rodrigo Perez, Carlos Gonzalez, SENER, Spain

DEVELOPMENT OF FE PRE-PROCESSING SYSTEM FOR WELDING DEFORMATION ANALYSIS OF FULL SHIP MODEL, Myung Su Yi, Yun Sok Ha, Chung Min Hyun, Material Testing & Production CAE Research Part, Central Research Institute, SAMSUNG Heavy Industries, Co. Ltd., Korea

INFORMATION MODELLING FOR TRACKING MODIFICATIONS IN CLASSIFICATION PROCESS, Shu Zhang and Jörg Rebel, DNV GL - Maritime, Section Safety Research, Hamburg, Germany

DESIGN DEFINITIONS OF FLIGHT DECK LAYOUT FOR HELICOPTER AVIATION OPERATIONS USING SIMULATION METHODS, Dr. B. Ferrier, Hoffman Engineering Corporation, Dynamic Interface Laboratory, USA, Dr. J Duncan, MOD, DEE5 HQ, Ships Operating Centre, UK, Mr. R. Ernst, NAVAIR PMA 266, Patuxent River, USA

SHIP MOTION PREDICTION USING SIMULATION TECHNOLOGY DEVICES AND RESULTS FROM A DEDICATED ROYAL NAVY SEA TRIAL, Dr. B. Ferrier, Hoffman Engineering Corporation, Dynamic Interface Laboratory, USA, Dr. J Duncan, Defence Equipment & Support, MOD, UK, Dr. M. R. Belmont, Exeter University, UK, Mr. A Curnow, Defence Equipment & Support, MOD, UK, Mr. J. Duncan, Defence Equipment & Support, MOD, UK

DETERMINING SHIP OUTFITTING TASK PRIORITIES USING LATEST FINISH TIME DISTRIBUTIONS, Christopher Rose, TU Delft, Netherlands, Jenny Coenen, 3ME, Netherlands

OPTIMIZATION OF BALLAST WATER MANAGEMENT SYSTEM INSTALLATION PROCESS BY 3D ENGINEERING TECHNOLOGY, Junichi Hirata Practical R&D Promotion Division, ClassNK, Tokyo, Japan

GENERATION AND SUPPRESSION OF DIMPLES IN MULTI-SQUARE-PUNCH FORMING PROCESS FOR DOUBLY CURVED SHIP HULL PLATE FORMING, Yijie Cai, Wuhan University of Technology, China

COMPUTER AIDED STRUCTURAL DESIGN OPTIMIZATION IN SELECTION OF A T-SECTION WITH UNIFORM STRENGTH, Joseph Praful Tomy, B.Tech (Naval Architecture & Ship Building), Cochinn University of Science & Technology Assistant Manager (Design/Hull), Goa Shipyard Limited, India

ENERGY SIMULATION FOR WASTE HEAT RECOVERY SYSTEMS, Jörg Lampe, DNV GL SE, Germany

ANALYSIS OF PROPELLER WAKE FIELD FOR TWISTED RUDDER DESIGN, YoungEe Shon, BongJun Chang, JiMyoung You, BumWoo Han, Hyundai Maritime Research Institute, Hyundai Heavy Industries Co., Ltd, Korea

REMANUFACTURING IN SHIP REPAIR - A REVIEW OF POSSIBILITIES, Kim Jansson, VTT Technical Research Centre of Finland, Finland

TOOL FOR EVALUATION OF OPERATING ECONOMY AND ECOLOGY IN SHIP CONCEPT DESIGN, Saara Hänninen, Risto Tuominen, Susanna Kunttu (VTT Technical Research Centre of Finland Ltd) and Mia Elg (Deltamarin Ltd)

RESEARCH ON INFORMATION MATCHING CORRELATION TECHNOLOGY FOR THE MANUFACTURING ASSEMBLY OF HULL ASSEMBLAGE, ZhiChao Chen, Jiangsu University of Science and Technology, China

3D PRODUCTION PLANNING SYSTEMS AND THE DATABASE, Kenji DOI, Japan Marine United Corporation, Information Systems Group, Technology Administration Department, Japan

DIGITAL MOCK-UPS AND WORKING SIMULATION ON MIXED REALITY, Motochika NAGANO, Japan Marine United Corporation, Tsu Systems Team, Technology Administration Department, Japan

A NEW INTEGRATION METHOD TO COMPOSE A SINGLE VIRTUAL SHIP DESIGN SYSTEM FROM INDEPENDENT COMPONENTS, Herbert Koelman, SARC, The Netherlands, Jan van der Zee, CONOSHIP, The Netherlands, Theodoro de Jonge, NUPAS-CADMATIC, The Netherlands


INTEGRATED SYSTEM SIMULATION AND DEPENDABILITY ANALYSIS IN MARITIME INDUSTRY, Erich Rüde, DNV GL, Germany

PARAMETRIC CALCULATIONS IN PRODUCTION DESIGN OF THE PROPULSION MACHINERY, Yuriy Battrak, Roman Battrak, Dmytro Berin, Intellectual Maritime Technologies, Ukraine

HIGH QUALITY HULL FORM REPRESENTATION BASED ON SUBDIVISION SURFACES, Sebastian H. Greshake, Robert Bronsart, University of Rostock, Germany

RESEARCH ON THE COMBINATORIAL OPTIMIZATION PROBLEM AND PSO BASED SOLUTION IN SHIP BLOCK LIFTING DESIGN, Rui Li, PhD, Lecturer, School of Naval Architecture, Dalian University of Technology, China

INTEGRATED SOFTWARE APPLICATION FOR E-APPROVAL OF SHIP & OFFSHORE CLASSIFICATION, Triyan Indrawan and Topan Firmanda, Researcher at Biro Klasifikasi Indonesia

RESEARCH OF CHARACTERISTIC OF WRINKLING IN COLD FORMING PROCESS FOR SHIP FRAME PART BASED ON NUMERICAL SIMULATION, LiPei-yong, SongJun-jie, WANGCheng-fang, MAOYun-sheng, Zhouyongqing, Xiangzuquan, Wuhan University of Technology, China

ACCURACY CONTROL OF HATCH COVER USING PRECISE MEASUREMENT TECHNIQUE, Ryogo Abe, Kokusai Kogyo Co., Ltd., Japan, Kunihiro Hamada, Noritaka Hirata, Hiroshima University, Japan, Ryotaro Tamura and Nobuaki Nishi, Tsuneshi Shipbuilding Co., Ltd. Japan

DEVELOPMENT OF PRODUCT MODE DATA EXCHANGE BETWEEN DIFFERENT 3D CAD SYSTEMS IN JAPANESE SHIPYARDS, Tokimasa Hiraki, Mitsubishi Heavy Industries, Ltd., Yoichi Nakao, Oshima Shipbuilding Co., Ltd., Yasuki Ohtsuki, Tuneshi Shipbuilding Co., Ltd., Kohki Maeda, SEA Soken, Mitsuhiko Kidogawa, Class NK, Ken Itoh, CIM Creation

DIGITAL MANUFACTURING BASED ON 3D DESIGN INFORMATION, Tokimasa Hiraki, Mitsubishi Heavy Industries, Ltd., Yuji Mimori, Mitsubishi Heavy Industries, Ltd., Japan

INTERNATIONAL SIMULATION OF REPLACEMENT AT SEA USING VIRTUAL SHIP STANDARDS, Dr Gary Henry, Other co-authors will be from Canada, Germany, Italy and the UK, SEA, UK

A BILL OF MATERIAL OF INTEGRITY: ALIGNING CAD AND PDM, Stephen Cattanach, BAE Systems Naval Ships, UK

DATA GOVERNANCE AND DESIGNING WARSHIPS, Tony Wallis, BAE Systems Naval Ships, UK

CABLE ROUTING IN CRUISE SHIP DESIGN, Matti Junntunen, NUPAS-CADMATIC, Finland

BUSINESS AND INFORMATION MANAGEMENT ARCHITECTURES FOR DELIVERING PRODUCT LIFECYCLE MANAGEMENT (PLM), Daniel McKendry, BAE Systems Naval Ships, UK

COST REDUCTION IN BASIC SHIP DESIGN SUPPORTED BY A SINGLE STRUCTURAL MODEL - A PRACTICAL APPROACH, Augusto Gómez, Francisco José Regueira, SENER INGENIERÍA Y SISTEMAS, Spain, George Korbetis, BETA CAE Systems SA, Greece

AUTOMATED INTEROPERABILITY FROM CONCEPT DESIGN TO MULTIDISCIPLINARY FE ANALYSIS, George Korbetis, Serafim Chatzimoisiatis, Dimitrios Drougkas, BETA CAE Systems S.A., Greece
PRODUCT LIFECYCLE MANAGEMENT IN THE SHIPBUILDING AND SHIPPIING INDUSTRIES - AN UPDATE, Matthias Grau, Lars Wagner, PROSTEP, Germany, Christian Cabos, DNVGL, Germany

MODEL BASED STRATEGIES FOR SHIPBUILDING, LCDR Randy Langmead USN (Ret.) and Director - Siemens Industry Software, Donald Gillikin, Business Consultant - Shipbuilding/Offshore Siemens Industry Software, USA

DEVELOPMENT OF SEA TRIAL ANALYSIS SOFTWARE ACCORDING TO THE NEW ISO 15016 AMENDMENTS, Beom Jin Park, Myung Soo Shin, Gyung Jung Lee, Min Suk Ki, Korea Research Institute of Ships and Ocean Engineering (KRISO)

HOW TO REALIZE ON-TIME DELIVERY AND COST SAVINGS IN MARINE AND OFFSHORE PROJECTS?, Tom KALKMAN, KEONYS, France

INTEGRATION OF MARKET UNCERTAINTY IN SHIP’S DESIGN SPECIFICATION, Romanas Puisa, Brookes Bell, UK

TURNING ABILITY OF A TANKER IN SHALLOW WATERS UNDER PRONOUNCED ENVIRONMENTAL EFFECTS, A V Saj, D Poojari, A R Kar, Indian Register of Shipping, India

DESIGNING SHIPS FOR SERVICE WITH THE HELP OF SHIP PERFORMANCE MONITORING, Dr Kenta Koike, Manager, Sanoyas Shipbuilding Corporation, Japan, Mr Jan Furustam, Product Manager, Napa Ltd, Finland, Mr Ilmo Kuutti, Senior Vice President, Napa Ltd, Finland, Mr Naoki Mizutani, Managing Director, Napa Japan Ltd, Japan

NUMERICAL ANALYSIS OF THE HYDRODYNAMIC BEHAVIOUR OF PLANNING HULLS IN SHALLOW WATER USING A 2D+T METHOD, Hendrik Haase, Jan Philipp Soproni, Moustafa Abdel-Maksoud, Hamburg University of Technology, Institute for Fluid Dynamics and Ship Theory, Germany

3D MARITIM - SUPPORTING TECHNOLOGY TRANSFER FOR 3D GRAPHICS, Uwe Freiherr von Lukas, Fraunhofer IGD, Rostock, Germany, Ingo Staaack, ThyssenKrupp Marine Systems GmbH, Kiel, Germany, Volker Köhler, MarineSoft GmbH, Rostock, Germany

APPLICATION OF MULTI-USER PART AND ASSEMBLY SYNCHRONOUS MODELING AND DESIGN COLLABORATION TO SHIPBUILDING, Dr. C. Greg Jensen, Senior Vice President, CAD Alliance, Provo, UT, USA, djunct Professor, Department of Mechanical Engineering, Brigham Young University, Provo, UT, USA

HULL STRUCTURAL WEIGHT OPTIMIZATION WITH POT (PARAMETRIC OPTIMIZATION TOOL) ABSTRACT, Engin Balli, Atkins, UK

This is a preliminary programme, stating only the papers that have been accepted by the Committee. The complete selection of abstracts, and a full programme detailing the three concurrent streams, will be available on the event’s website: www.rina.org.uk/ICCAS-2015
International Conference
ICCAS 2015
29 SEP-1 OCT 2015, BREMEN, GERMANY

To register, simply complete all sections of this form and return it with your payment to:
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RINA MEMBERS: €460+MwSt= €547.40
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The registration fee includes printed conference papers, lunch, refreshments, reception, Conference Dinner, a CD of the papers and presentations after the conference.

☐ I would like to attend the shipyard visit on the

CONFERENCE PAPERS

Delegates will receive a copy of the conference CD-ROM which will include the presentations, this will be posted out around 10-12 weeks after the conference.

Additional copies of the conference papers will also be for sale after the event in both print and CD ROM versions. If you would like to order copies, please fill in the relevant sections.

I am unable to attend the conference, please reserve me ______ set(s) of Conference proceedings

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VENUE

Swissôtel Bremen, Hillmannplatz 20, 28195 Bremen, Germany

CONFERENCE DINNER & EVENING DRINKS RECEPTION

Following the end of day one (29th September), delegates are invited to attend an evening dinner at the conference venue. Following the end of day two (30th September), delegates are invited to attend an evening drinks reception at the conference venue.

CONTINUING PROFESSIONAL DEVELOPMENT

RINA Certificates of Attendance will be issued at the event, which contributes towards the Institution’s Continuing Professional Development Scheme. For further details regarding the scheme please contact Giuseppe Gigantesco, Director, Professional Affairs on Tel: +44 (0)20 7235 4622 or e-mail: membership@rina.org.uk

STUDENT SPONSORSHIP

A number of sponsored places at this conference are available for Student Members of RINA. For more information, please contact Yuen Yee Pang, Professional Affairs, RINA on Tel: +44 (0)20 7235 4622 or e-mail: ypang@rina.org.uk

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CANCELLATION CHARGES

Cancellations received in writing two weeks before the event takes place will be subject to administration charge of £200+MwSt. Cancellations received after this time cannot be accepted and are subject to the full event fee. Delegates may be substituted; however, this must be sent in writing and confirmed with the conference Co-ordinator. It may be necessary for reasons beyond our control to alter the content and timing of the programme. In the unlikely event that RINA cancels the event for any reason, our liability is limited to the return of the registration fee.

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Personal data is gathered in accordance with the Data Protection Act 1998. Your details may be passed to other companies who wish to communicate with you offers related to your business activities. Please tick the box below where appropriate:

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