

# SHIPBUILDING ICCAS Busan • 2013

## International Conference on Computer Applications in Shipbuilding



24-26 September 2013 | Busan | South Korea

*The 16<sup>th</sup> 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; CAD, CAM, integrated systems, knowledge management, simulation and virtual reality applications, etc.*

*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 conferences attract a large international audience and provide a excellent forum for both those developing and using computer applications in shipbuilding.*

## Call for Papers

Please send us an abstract of about 200 words before the 24<sup>th</sup> of February in order to begin the reviewing process. The successful papers will be related to the research, development and application of information technology in shipbuilding and will focus on the following subjects:

- **EARLY DESIGN**

Concept design, tendering, initial design, general arrangement, cost & work estimation, hull form, hydrodynamic analysis & basic structural design, risk based design

- **DETAILED AND PRODUCTION DESIGN**

Structure, machinery, hull and outfitting

- **FUNCTIONAL DESIGN**

Capture and management of systems diagrams and schematics with 'intelligence'. Identification and consolidation of diagram contents for comparison with physical design layout. Verification that detailed design meets functional design specifications and intent.

- **PARTS MANUFACTURING & ASSEMBLY**

Prefabrication, shop automation, robotics, assembly & accuracy control

- **MATERIAL MANAGEMENT: Material control, supply chain management, logistics & e-solutions**

- **MANAGEMENT OF SHIPBUILDING PROJECTS**

Planning, work-flow analysis, PDM & ERP applications, Management of co-operative working between different actors in shipbuilding projects, e.g. shipyards and equipment and systems manufacturers.

- **PROCESSES: Life cycle management. Design and/or manufacturing processes and their use. Systems engineering.**

Multi-functional processes with progressive information capture and sharing.

- **COMMISSIONING, INSPECTION AND MAINTENANCE**

Life-cycle maintenance, lifecycle cost management, environmental cost management, parts & systems reliability, inspection standards & risk management inspection standards, risk management & security

- **DATA MODELLING: Each stage of design, build and operate cycle. Shared environments (multi-company or multi-site). Long term data capture and management**

- **INNOVATION, INNOVATION MANAGEMENT AND INNOVATION IMPACT ASSESSMENT**

New materials & eco design

- **INDUSTRY / ACADEMIA**

Working partnerships between universities and industry. Developing solutions by academia for practical application to design and/or manufacture

- **SKILLS MANAGEMENT, KNOWLEDGE TRANSFER AND OTHER HUMAN RESOURCE ISSUES: Artificial Intelligence, Knowledge-based systems, Acquiring, retaining and sharing knowledge. Capturing the experience and skills of the workforce for younger engineers.**

- **SIMULATION, VIRTUAL ENVIRONMENTS and GAMING TECHNOLOGIES: Use in design, manufacturing, productivity, safety, human factors etc**

Papers should focus on advances made in information and communication technology with respect to methods, tools, standards and organisational adaptations in the different application sectors of the shipbuilding industry. Where appropriate, papers should also describe the potential impact of the innovation described to productivity improvements.

Abstract submission deadline: 24<sup>th</sup> February 2013

Register an Interest | Send an abstract | Interested in Sponsorship?

Contact us: [conference@rina.org.uk](mailto:conference@rina.org.uk) or Tel: +44(0)20 7201 2401 or visit the website

[www.rina.org.uk/ICCAS2013](http://www.rina.org.uk/ICCAS2013)