

INTERNATIONAL SYMPOSIUM
INFORMATION ON SHIPS

ISIS 2012

Hamburg, Germany
30 - 31 August 2012

Programme



German Institute of Navigation

Deutsche Gesellschaft für Ortung und
Navigation e. V. (DGON)

In cooperation with



German Society for Maritime Technology
Schiffbautechnische Gesellschaft e. V. (STG)

Supported by

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Conference Objectives and Scope

The 9th International Symposium ISIS 2012 „**INFORMATION ON SHIPS**“ will address the benefits and challenges of up-to-date information technologies on board of ships, the proper use of information, practical experiences using new information systems and the role of human in the information-loaded environment.

Technologies, applications, and projects should be presented under the aspects: What is new and in progress? What is possible and designable? What should be done? What is problematic?

Thursday, 30 August 2012

- 08:00** **Conference Registration**
- 09:00** **Conference Opening**
Prof. Dr.-Ing. Reinhard Müller
- 09:15** **Ship's Navigation – from lonesome Sailing towards Collaborative Operation**
Mathias Jonas, BSH, Rostock, Germany

Session 1

Bridge Resource Management

- 09:45** **Working with new Technology: Seafarers and their Training Requirements**
Helen Sampson, Lijun Tang, Cardiff University, UK
- 10:10** **Human Factors within the Maritime Training Aspects: A Report Concerning the Implementation of STCW Manila-2010 “Human Factors-Amendments” into Practical Trainings**
*Sven Mende, Leuphana University Lüneburg, Pawel Ziegler
University of Applied Sciences Flensburg, Germany*
- 10:35** **Coffee**
- 11:05** **ECDIS Training in the Perspective of Manila Amendments, Training Objectives and Professional Solutions**
Volkhard Meyer, Rheinmetall Defence Electronics GmbH, Bremen, Germany

- 11:30** **Human Factor on Ship Handling and Human Error**
Hiroaki Kobayashi, Tokyo University of Marine Science and Technology, Japan
- 11:55** **Oh, I didn't see that one coming! Cognitive Workload and visual Performance during Ship Handling: a Simulator Study**
Georgios Athanassiou, Oliver Sträter, University of Kassel, Germany

12:20 **Lunch**

Session 2

Sensors and Components

- 13:30** **Ground Processing and Data Fusion Capabilities to Enhance the Benefits of SATAIS Data**
Gaetan Fabritius, CLS, Ramonville, France
- 13:55** **The Maritime Head-Up Display and High Speed Vessels: A Natural Fit?**
Samuel R. Pecota, California Maritime Academy, Vallejo, CA, USA
- 14:20** **MGBAS: RTK Service Validation and Service Integration Approach for a PNT-Unit**
David Minkwitz, P. Zachhuber, Evelin Engler, DLR Neustrelitz, Germany
- 14:45** **Coffee**
- 15:15** **The Technology enhance Maritime Security (LIRT Long-range Identification and Tracking)**
Osama Fawzy Albayoumy, Arab Academy for Science, Alexandria, Egypt
- 15:40** **Effect of Image Processing Techniques on Ship Detection and Tracking from Digital Cameras**
Gazi Kocak, Shigehiro Yamamoto, Kobe University, Japan
- 16:05** **Surveillance, Protection and Collision Avoidance**
Stefan Katzenbeißer, Diehl Defence, Überlingen, Germany

Session 3

E-Navigation Processes

- 16:30** **The Development of Integrated Navigation Systems**
Karl-Christian Ehrke, SAM Electronics GmbH, Hamburg, Germany
- 16:55** **Working with the Human Element: Human Factors and Technical Innovation from the EfficienSea and on to the ACCSEAS**
Thomas Porathe, Chalmers University of Technology, Gothenburg, Sweden, George Shaw, General Lighthouse Authorities of UK and Ireland, Harwich, UK
- 17:20** **The Voyage Towards eNavigation: Using Integrated Intelligent Information to Improve Voyage Planning Workflow and Navigational Awareness.**
Geir Lyngheim Olsen, Jeppesen Norway AS, Egersund, Norway
- 17:45** **End of Session**

- 19:30 – 22:00** **Symposium Dinner**
Hotel Hafen Hamburg, Restaurant Port

Friday, 31 August 2012

Session 4

Operational Integration Aboard and Ashore

- 09:00** **Task-oriented Structure of the Navigation Process and Quality Control of its Properties by a Nautical Task Management Monitor (NTMM)**
Hans Hederström, Centre for Simulator Maritime Training, Almere, The Netherlands, Diethard Kersandt, Forum Schiffsführung, Rostock, Burkhard Müller, AIDA Cruises, Rostock, Germany
- 09:25** **Simulation of Numerical Ship Navigation on Ise Bay in Japan**
Shigeaki Shiotani, Kanya Osaka, Taisuke Soda, Hidenari Makino, Kobe University, Japan

- 09:50** **Project SOOP: Safe Offshore Operations**
 Cilli Sobiech, Eckard Böde, Andreas Lüdtke, Institute for Information Technology, Oldenburg, Axel Hahn, Daniela Nicklas, *Carl von Ossietzky University Oldenburg*, Holger Korte, *Jade University of Applied Sciences, Elsfleth, Germany*
- 10:15** **Coffee**
- 10:45** **Potential of Onboard Information Systems for Ashore Ship Management and Logistics Processes**
Carlos Jahn, Hans-Christoph Burmeister, Ole John, Fraunhofer Center for Maritime Logistics and Services CML, Hamburg, Germany
- 11:10** **ECDIS – Safety Compromised by Features?**
Ralph Becker-Heins, Safebridge GmbH, Hamburg, Germany
- 11:35** **Lunch**

Session 5

Visions and Strategies in the next Years

- 13:00** **Developments Towards the Unmanned Ship**
Ørnulf Jan Rødseth, MARINTEK, Trondheim, Norway, Hans-Christoph Burmeister, Fraunhofer CML, Hamburg, Germany
- 13:25** **Moving Maritime into the Digital Age (Monalisa Project, Dynamic Proactive Routes)**
Ulf Svedberg, Swedish Maritime Administration, Norrköping, Sweden
- 13:50** **The MarNet Project: Assessing Seafarers' Demands for IMO's Safe Return to Port**
Michael Brenker, Stefan Strohschneider, Friedrich-Schiller-Universität Jena, Germany
- 14:15** **Coffee**
- 14:45** **Thinking beyond SOP: The Case for Generic Competences**
Stefan Strohschneider, Friedrich-Schiller-Universität Jena, Germany
- 15:10** **Marine Navigational Decision Support System**
Zbigniew Pietrzykowski, Piotr Wolejsza, Piotr Borkowski, Janusz Uriasz
- 15:35** **Final Discussion and Closing Remarks**
 Prof. Dr.-Ing. Reinhard Müller
- 15:50** **Closing of ISIS 2012**

Administration

Venue

Hotel Hafen Hamburg
Seewartenstrasse 9
20459 Hamburg
Germany

Conference Office

The Conference Office will be open as follows:

Thursday	30 August 2012	07:30 - 18:00 hrs
Friday	31 August 2012	08:00 – 15:00 hrs

Phone (during the conference): +49 1520 1956 749

Conference Language

English

Registration

All delegates including authors, chairpersons and exhibitors are requested to complete the published Registration Form (www.isis2012.org) as soon as possible.

Fees

Authors, Chairpersons	500 €
Members of DGON	550 €
Non-Members	700 €
Retired Members of DGON	200 €
Students	50 €

(up to master student and not older than 28, proof required in advance)

The fee includes participation in the conference, documentation, soft drinks, coffee and snacks during the breaks, luncheon buffet, and participation in the “Symposium Dinner”.

Technical Exhibition

Members of DGON	900 €
Others	1200 €

The fee covers the rental of space for the exhibition for the duration of the conference and the fee for one delegate.

Equipment/ systems available or in development with respect to the topics of the symposium may be demonstrated and/ or displayed during the conference. Interested companies/ organizations who wish to exhibit or demonstrate may request further information from the

German Institute of Navigation
attn: ISIS 2011
dgon.bonn@t-online.de

Cancellation/ Refund Policy

Cancellations must be made in writing. For cancellations received prior to 20 Aug 2012 the fee will be refunded, deducting 40 € handling charge. No refunds will be made for cancellations received after 20 Aug 2012.

Methods of Payment

All charges are in EURO (€). Upon return of the completed Registration Form, an invoice will be mailed to each delegate. Payment should be made in € by bank transfer.

Symposium Proceedings

Proceedings will be prepared on CD and distributed after the symposium. Authors/ presenters are therefore requested to submit the "Full Papers" to DGON by e-mail, not later than **15 Aug 2012**.

Public Transportation

- **From Hamburg Airport**

Take the suburban train "S 1" to "Wedel" or "Blankenese" and leave at "Landungsbrücken". Travelling time is about 30 minutes.

- **From Hamburg Main Railway Station**

Take the suburban train "S1" to "Wedel" or Blankenese" or "S 3" to "Pinneberg" and leave at "Landungsbrücken". Travelling time is about 6 minutes.

On leaving the station you will see the Conference Hotel (Hotel Hafen Hamburg) on the right hand side. A flight of stairs just below the building will take you up to the hotel.

Impressum

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Programme is subject to change.