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
       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

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

German Institute of Navigation

Deutsche Gesellschaft für Ortung und Navigation e.V. (DGON)
Kölnstraße 70
53111 Bonn
Germany

Phone: +49 – 2 28 – 2 01 97 0
Fax: +49 – 2 28 – 2 01 97 19
e-mail: dgon.bonn@t-online.de
Web: http://www.dgon.de

Conference coordinator: Gerd Gronemann

Programme is subject to change.