

INTERNATIONAL SYMPOSIUM
INFORMATION ON SHIPS

ISIS 2014

www.dgon-isis.org

Hamburg, Germany
04 - 05 September 2014

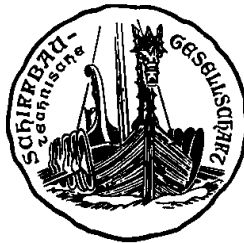
Programme



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)

Raytheon
Anschütz

 **SAM**
Electronics
an  communications company

Conference Objectives and Scope

The 10th International Symposium ISIS 2014 „Integrated Ship's Information Systems“ will address the benefits and challenges of up-to-date information technologies on board of ships and vessel traffic or fleet service centres. The proper use of information, practical experiences using new information systems and the role of human in the information-loaded environment are to focus. The symposium will present applications and projects under the aspects: What is new after a first e-navigation period? Is a GREEN NAVIGATION growing up to expect?

Thursday, 04 September 2014

- 08:00** **Conference Registration**
- 09:00** **Conference Opening**
Reinhard Müller, University of Applied Sciences Technology, Business and Design, Wismar, Germany
- 09:15** **Key Note**
Jan Reche, Federal Ministry of Transport and Digital Infrastructure, Germany
- 09:30** **Integrated Data and GIS Information in E-Navigation**
Michael Bergmann, Jeppesen Marine GmbH, Neu-Isenburg, Germany
- 09:55** **Coffee**

Session 1

Sensors and Components

- Sessionchair:** **Volker Köhler**
MarineSoft GmbH, Rostock, Germany
- 10:30** **Improvement of onboard safety by online measurement of roll and pitch**
Thomas Schlenk, Cassens & Plath GmbH, Bremerhaven, Germany
- 10:55** **Influence of the Radar Antenna Height on the Detection Range in Maritime Environment. Future Solution: Radar Antenna Height Optimization by an Elevator**
Franz-Xaver Hofele, AIRBUS DEFENCE & SPACE, Ulm, Germany
- 11:20** **Feasibility of R-Mode transmitted from MF-DGNSS Radio Beacons and AIS Shore Networks**
Michael Hoppe, German Federal Waterways and Shipping Administration, Koblenz, Germany
- 11:45** **Robust On-Board Ship Equipment: the TRITON Project**
Beatrice Motella, Istituto Superiore Mario Boella, Torino, Italy
- 12:10** **Accuracy Enhancement in Determination of Angular Orientation of Vessels Using Strapdown Inertial Navigation System**
Sergey Yakushin, Perm National Research Polytechnic University, Russia

12:35 **Broadband Channel Measurements in the Baltic Sea**
Wei Wang, German Aerospace Center (DLR), Oberpfaffenhofen, Germany

13:00 **Lunch**

Session 2

Operational Integration Ashore

Sessionchair: **Holger Klindt**
ATLAS Elektronik GmbH, Bremen, Germany

14:00 **Ship Traffic Management Route Exchange: acceptance in Korea and Sweden, a cross cultural study**
Thomas Porathe, Chalmers University of Technology, Göteborg, Sweden

14:25 **Analysis of Vessel Evasion Pattern after the Great Japan Earthquake in Virtual Globe Environment**
Xinzhu Liu, Kobe University, Japan

14:50 **User Requirements for Real-Time Services for the Maritime Security**
Stefan Brüggemann, AIRBUS DS, Bremen, Germany

15:15 **Digital Infrastructures for enabling Sea Traffic Management**
Mikael Lind Viktoria Swedish ICT

15:40 **Coffee**

Session 3

Functional Integration Aboard and Ashore

Sessionchair: **Ralf-Peter Lauck**
Raytheon Anschütz GmbH, Kiel, Germany

16:30 **Effect of Weather and Ocean on Ship Navigation in a Coastal Area of Japan**
Chen Chen, Kobe University, Japan

16:55 **Resilient Driver Assistance for Inland Water Vessels**
Ivan Herrera-Pinzon, German Aerospace Center, Neustrelitz, Germany

17:20 **Conducting look-out on an Unmanned Vessel: Introduction to the Advanced Sensor Module for MUNIN's Autonomous Dry Bulk Carrier**
Wilko Bruhn, Fraunhofer CML, Hamburg, Germany

17:45 **End of Session**

19:00 – 21.30 **Symposium Dinner**
Hotel Hafen Hamburg, Restaurant Port

Friday, 05 September 2014

Session 4

E-Navigation Processes

Sessionchair: Holger Mahnke

SAM Electronics GmbH, Hamburg, Germany

- 10:00 COSINUS – Cooperative Vessel Guidance for Nautical Safety**
André Bolles, OFFIS – Institute for Information Technology, Oldenburg, Germany
- 10:25 Digital Voice Communication in the Maritime VHF Band**
Ronald Raulefs, German Aerospace Center (DLR), Oberpfaffenhofen, Germany
- 10:50 Coffee**

Session 5

Bridge Resource Management

Sessionchair: Wolfgang Hintzsche

German Shipowners' Association, Hamburg, Germany

- 11:30 Augmented Reality in Ships Bridge Operation**
Stephan Procee, Maritiem Instituut Willem Barentsz, Terschelling, The Netherlands
- 11:55 ICS - Bridge Procedure Guide**
Britta Rosenkranz, German Shipowners' Association, Hamburg, Germany
- 12:20 Lunch**

Session 6

Visions and Strategies in the next Years

Sessionchair: **Michael Hoppe,**
Federal Waterways and Shipping Administration, Koblenz, Germany

- 13:30** **Offshore Wind Farms and Commercial Shipping – Friend or Foe?**
Volker Köhler, MarineSoft GmbH, Rostock-Warnemünde, Germany
- 13:55** **Assessing the MONALISA 2.0 Concept: Establishment of the European Maritime Simulation Network**
Hans-Christoph Burmeister, Fraunhofer Center for Maritime Logistics and Services CML, Hamburg, Germany
- 14:20** **Coffee**
- 15:00** **New Sensor Technology Integration for safe and efficient e-Navigation**
Michael Baldauf, World Maritime University, Malmö, Sweden
- 15:25** **State and Trends in the E-navigation Process**
Michael Bergmann, Jeppesen Marine GmbH, Neu-Isenburg, Germany
- 15:50** **Final Discussion and Closing Remarks**
Reinhard Müller
- 16:00** **Closing of ISIS 2014**

Administration

VENUE

Hotel Hafen Hamburg
Seewartenstrasse 9
20459 Hamburg
Germany

Conference Office

The Conference Office will be open as follows:

Thursday	04 Sep 2014	07:30 - 18:00 hrs
Friday	05 Sep 2014	08:30 - 16:30 hrs

Language

The symposium language will be **English**.

Conference-Fees

Presenting Authors/ Chairpersons	400 €
DGON Members	450 €
Non Members	600 €

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

Registration

All delegates including authors and chairpersons are requested to complete the published Registration Form as soon as possible

Please use the ISIS-Webpage for Registration!

www.dgon-isis.org

Cancellation/ Refund Policy

Cancellations must be made in writing. For cancellations received prior to 25 Aug 2014 the fee will be refunded, deducting 40 € handling charge. No refunds will be made for cancellations received after 25 Aug 2014.

Technical Exhibition

A Technical Exhibition will also be arranged. Potential parties are requested to contact DGON by email: dgon.bonn@t-online.de

Impressum

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