



European Harbour Masters' Committee

EHMC

THE SHIP OF THE FUTURE

10th EHMC seminar

Thursday 27 - Friday 28 June 2019
Gothenburg, Sweden

The ship of the future

How and with whom will the ship of the near future communicate?

How will ships in the near future be equipped for communication and data collection and -exchange? And what are the consequences for ship and port operations and for investments? Those are the questions that the industry, IMO and university and research projects will seek to answer in the 2019 edition of the EHMC seminar. The day will include live demonstrations of industry products.

Our host port is the Port of Gothenburg, not only Sweden's, but moreover Scandinavia's most important gateway for goods, cruise and passengers. On the Friday we offer a visit by boat within the city of Gothenburg that will also take us around the harbour area.

We are looking forward to seeing each and all of you at our 2019 edition.

Registration; <http://www.harbourmaster.org/events>



**PORT OF
GOTHENBURG**

Thursday program, 27 June 2019

08.30	Registration
09.00-09.20	Word of welcome by the Port of Gothenburg Opening by EHMC Chairman Capt. Amaury de Maupeou
09.20-09.45	Antonio Di Lieto , Carnival CSMART <i>Port data in ENC's for port passage planning</i>
09.45-10.10	Amund Gjersøe , Kongsberg Norcontrol <i>Manned and un-manned sailing together in the port</i>
10.10-10.25	Q&A session
10.25-11.00	Coffee Break
11.00-11.25	Michael Baldauf , World Maritime University, Hochschule Wismar <i>Will the future of shipping be based ashore?</i>
11.25-11.50	Diego de la Calle , Inmarsat <i>Satellite connectivity and IoT solutions for ship and shore digitalization</i>
11.50-12.00	Allan Gray , IHMA president <i>A sneak preview of the IHMA Congress 2020, Tasmania</i>
12.00-12.15	Q&A session
12.15-13.00	Lunch
13.00-13.20	Astrid Dispert , IMO <i>Just in Time arrival in ports</i>
13.20-13.40	Ben van Scherpenzeel , IHMA Project Officer Nautical Port Information <i>Step by step port data development</i>
13.40-14.00	Johan Hartler , Chalmers University of Technology <i>Education and competences in future nautical professions</i>
14.00-14.15	Q&A session
14.15-14.45	Coffee Break

Venue; Comfort Hotel, Skeppsbroplatsen 1

Boat trip and dinner on the M/S Gothenburg. Boarding adres: Stenpiren, opposite the hotel

Technical visit on board the MS Hammen. Embarkation opposite the Comfort Hotel

Registration; www.harbourmaster.org (events page), Participation fee; € 135

The afternoon will have a number of 'carousel presentations'; interactive demonstrations to small groups of people of (future) industry products and developments, services and visions;

15.00 – 17.00	Carousel
Svitzer Daniel Johannesson	Remote controlled tugs
STM; Sea Traffic Management	Demonstration of the end-results of the STM EU project, such as the sharing of voyage plans on 300 vessels
Carnival Antonio di Lieto	Port risk assessments for ports; does the risk perception of the cruise industry match with the risk profile that you have in mind for your port?
Port of Rotterdam Jan Gardeitchik	The digital port: digital tools to help harbour masters to optimize their port call.
ChartCo, Tony Brown, Per Osterberg	Navigation and compliance solutions, on board and ashore, to support ships to comply with legislation in ports
UKHO Jonathan Lewis	'The last nautical mile'; UKHO's new Marine Data Portal and AVCS online, bringing ship based information ashore
Damen Shipyards Siebe Rooijackers	Operational data enriched with design, weather and maintenance data will be transferred via the EuroYards platform from vessel to shore, supplier to yard and from yard to client

Evening program

19.00 – 22.00	Dinner
19.00	Embarkation on the M/S Göteborg, boat tour and dinner on board Boarding address; Stenpiren, opposite the Comfort Hotel
22.00	Disembarkation

Friday 28 June 2019

Boat tour -on the M/S Hamnen- in the city and the Port of Gothenburg

09.00	Technical visit
09.00	Embarkation on the M/S Hamnen, opposite the Comfort Hotel
09.10	Departure Coffee and snacks, sponsored by the Port of Gothenburg
11.30	Arrival at quay side
11.30	End of program

Speakers

Antonio Di Lieto

Manager Special Projects - Carnival CSMART

Future navigation in ports

Port data in ENC's for port passage planning

The ENC is no longer 'only' used for safe navigation. Port passage plans become ever more important with ENC's becoming ever more detailed and powerful. This has implications of course for the conduct of vessels in port waters, but also for critical information such as information related to berths and soundings, for bridge resource management and for safety due diligence. Antonio Di Lieto will take us into the world of present and future port passage planning.

Amund Gjersøe

Manager Surveillance Systems - Kongsberg Norcontrol AS

Ships getting more and more independent

Manned and un-manned sailing together in the port

The digitization of communication between ship and shore can potentially relief mariners and VTS operators of communicating over VHF, but is that the future? Through multiple research projects within the realm of e-Navigation Kongsberg Norcontrol has gained significant experience and knowledge and shares their thoughts about communication between ship and shore in a not-to-distant future where manned and un-manned ships are sailing in the same waters.

Michael Baldauf

Head of VTS-Simulation - Hochschule Wismar - World Maritime University

Shore control centers for autonomous vessels

Will the future of shipping be based ashore?

Information and data exchange between two or more ships as well as between ships and all kinds of shore-based organizations and services has grown into a new dimension. These rapid fundamental changes affect the basic concepts of operating ships and even change traditional paradigms of controlling ships.

Diego de la Calle

Director Strategic Business Development - Inmarsat

Satellite connectivity

Satellite connectivity and IoT solutions for ship and shore digitalization

If we want to manage port congestion, sea traffic, efficient port calls, the digital ship, the autonomous ship, the smart container, internet for crews and passengers etc. etc. is this really feasible with the existing connectivity infrastructure? Understanding the satellite communications sector business model is understanding how and when satellite communication will become reliable, affordable, mainstream and a support to far-reaching digitization.

Astrid Dispert

Technical Adviser GloMEEP Project - IMO

*IMO guidance; event data exchange***Just in Time arrival in ports**

IMO's Global Industry Alliance (GIA) is investigating shipping's CO2 reduction potential, amongst others through the Just in Time (JIT) arrival in ports. JIT is all about adjusting a ship's operating speed to only arrive at the port when the fairway, berth and nautical services are available. But what are the barriers to implement JIT? The IMO-GIA is developing a practical guide to support the implementation of JIT in ports.

Ben van ScherpenzeelDirector Nautical developments, policies and plans - Port of Rotterdam & IHMA Project Officer
Nautical Port Information*IHO guidance; master data exchange***Step by step port data development**

All above initiatives depend on easy and affordable exchange of data, which in turn depends on a high degree of standardization. The IHMA has always been a forerunner in this standardization. Both IMO and IHO are now in the process of developing guidance for ports in the implementation of these standards via a step by step approach.

Johan Hartler

Head of Master Mariner education - Chalmers University

*Education and competences***Education and competences in future nautical professions**

How does a leading university in research and education in the maritime sector prepare for the future? Chalmers University, with 12.000 students, bases its' strategic questions related to their seafarers' curriculum on two distinct scenario's; the unmanned ship scenario and the unmanned bridge scenario. In both scenarios we will see a shift to operations through remote control centers, hence an effect as well on shore based professions.

Allan Gray

IHMA president

A sneak preview of the IHMA Congress 2020, Tasmania

The IHMA is having its 12th Congress in Hobart, Australia on the 23-26 March 2020, addressing the theme 'The Next Wave – Navigating Towards the Digital Future'. What will be on offer at the IHMA Congress 2020 in Tasmania?

IHMA membership information:
www.harbourmaster.org/about/membership



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