

# Conference & Awards



he 2017 SMART4SEA Conference & Awards, a PRO BONO event, successfully concluded on Tuesday 51st of January 2017 in Eugenides Foundation, Athens attracting 460 delegates from 15 countries representing a total of 240 organizations.

Sixteen (16) global experts presented key smart shipping challenges and introduced solutions for facilitating industry's digital-Ization. Speakers' presentations were focused on the important issues concerning shipping's revolution into a smart sector such as cyber security, e-navigation, autonomous ships, big data and new technology applications. The inaugural presentation of the SMART4SEA Awards took place at the closing of the forum within who have distinguished for their smart shipping either in excelexcellence, innovation and tech- lence, innovation or technology nology activities.

The 2017 SMART4SEA Con-Group, Transas and Wärtsilä.

#### 2017 SMART4SEA Awards

The winners of the 2017 SMARTthe end of the forum rewarding vation Award, sponsored by HEM- Other short-listed nominees for

Inmarsat received the SMARTference & Awards was organized 4SEA Excellence Award, sponby SAPETY4SEA and sponsored sored by SRH Marine, for its highby ABS, Arcadia Shipmanage- speed satellite broadband service, Kongsberg Maritime, Laros by ment, BMT Smart, Dorian LPG, Pleet Xpress, which changes crew Immarsat, INTERSCHALT Mari- lives onboard through great- and North of England P&I Club. time Systems, HEMEXPO, Mobile er connectivity with family & Technology, NAVTOR, Propulsion friends, video on-demand, social Analytics, RISKASEA, SKILL- media, online training, telemedi-4SEA, SpecTec, SQEMARINE, cine and measures to shift the ad-SQEACADEMY, SRH Marine Elec- ministrative burden back to shore. tronics, STM Validation, Tototheo Other short-listed nominees for System of Integrated Solutions) this category were BMT SMART, which facilitates ship, shore and Purumo, Maersk Maritime Tech- ports to access real-time operanology and Rolls-Royce.

Monalisa 2 STM Validation

the scope of awarding industry's companies which demonstrated EXPO, for introducing smart soluorganizations and associations remarkable performance towards tions for sharing information data which result in efficient, safe and environmentally friendly maricategory. The winners namely are: time transport in the EU while at the same time reduce administrative burdens. Other short-listed nominees for this category were: Prisma Electronics, Marine Traffic

Transas received the SMART-4SEA Technology Award, sponsored by Tototheo Group, for offering a new simulation concept THESIS (Transas Harmonised Eco tion critical data simultaneously that allows for decision-making 4SEA Awards were announced at received the SMART4SEA inno- and responsibility to be shared.















Tue 31 Jan 2017 - Eugenides Foundation, Athens 2017 SMART4SEA Conference & Awards Highlights 460 Panel Smart Panel 3 Panel 4 Energy Efficiency 15 MART4SEA Awards

#### FEATURE

this category were: ABS Nautical Systems, Danaos, Nanophos and SpecTec.

#### 2017 SMART4SEA Conference

Mr. Apostolos Belokas, Founder and Managing Editor of SAFE-TY4SEA and Panel Moderator, opened the forum by welcoming speakers and delegates and outlining the objectives of the event towards fostering smart and sustainable shipping. Presentations were given in four panels and ended with a round table discussion and exchange with the andience.

## PANEL 1 Smart Shipping Perspectives Apostolos Belokas, Founder &

Managing Editor, SAPETY4SEA, presented the results of 'the Smart Shipping Survey" which revealed that cyber security, crew training using new technologies & software, energy management & emissions monitoring, e-navigation and BCDIS are the major smart challenges that the industry has to deal with. Mr. Belokas argued that there is need for the shipping to build cyber awareness momentum to move forward. Regarding autonomous shipping. the survey showed that the majority of the participants believe that it will become a reality for the industry beyond 2050. Mr. Belolus commented that two years ago many would argue that industry is far away from this vision and highlighted that autonomous shipping is now coming fast and It is a one-way street.

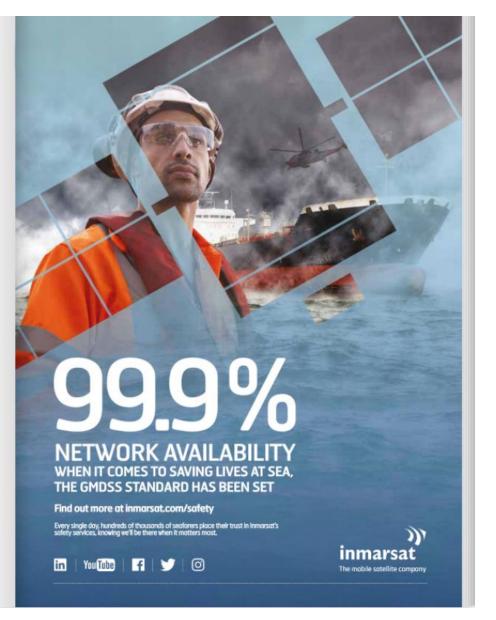
Drew Brandy, Senior Vice President Market Strategy, Inmarsat Maritime, gave a presentation on "Embracing a new world of smarter connected shipping". He noted that as maritime communication is going through a revolution, the possibility of a truly connected ship and seamless real-time integration with shore-based operations is no longer just concept, but a reality. He therefore explained how con- his concerns on 'The present. On the other hand, technology nectivity at sea is more than just and future of Fleet management is moving fast and at times it about communication and how Systems'. He explained that cur- is somewhat pittful to look into the industry is embracing a new rendy the idea of crewless vessels the world of shipping, compared world of safer, smarter, greener has become a serious one, from a to other similar transportation and more efficient shipping.





laughable topic, with large com-sectors. However, there are still Glampiero Soncini, Director, panies and Classification Societies so many companies reluciant to Volaris Marine Division, shared looking deeply and really into it. embrace technology or they show

sheer ignorance of the advantages. Mr. Soncini argued that his 50 year-old experience has shown that having a computerized Fleet Management system onboard will be of value. Yet, the lesson is clear; sooner or later, those who have not embraced technology



# 2017 SMART4SEA Conference & Awards

# Forum Quotes



Apostolos Belokas

"Within the next 15 years we will witness more change than the previous 50-70 years."



Drew Brandy

\*Today approx. 40% of the 1.2M seafurers have access to internet while at sea. Half of them get internet for free."



Glampiero Soncini on the future of Frest Management Systems

\*My 30 year experience has y 30 year experience shown that having a computerized Fise! Management system onboard will be of your."



Tasos Makris

"The quality of software on board our vessels needs improve-ments, AMM/TEC will start a campaign to inform industry of the benefits unboard and ashore."



Jordan Wylle Campagn

"67% of CSOs Security is not a serious threat and \$1% of \$50s said We don't have the training to deal with cyber threats. Those findings were the cadalysis for the Be Cyber Awareness At Sea campaign."



Frank Coles

n the concept words smort .

"We have to rethink the whole soncept of ship operations; this requires learning from other industries, dropping some traditional concepts and accepting challenge of change."



Eric Knaapen

"Volce implementation in maintenance and productivity as it reduces maintenance costs."



Howard Hughes cyper security trends

"Cyber Security "Cyber Security
has evolved over the years into a
massive business that incorporates all marters from Danial of
Service attacks, to obtaining
personal of corporate
information."





Torsten Galaske safe navigation

"There is need for new ways to collect, file and merge informa-tion and have adaptive supportive automation.

Willy Zeiler

"Compared to paper charts, approximately 85% is available in digital format today."



Ulf Siwe

"Improved efficiency in navigaimproved efficiency in tion results in potential fuel savings. ports being predictable which helps planning to the whole (ransport chain.



Seretis on

"Technology is available but we need to use it properly; stakeholders need to get more involved, IMO needs to stop up as well."



Vourdachas

For the future of dig Data in shipping we need to consider an integration of systems, Carpo tracking, remote operations, contrakted showledge and cyber security.



Peter Montel on Fleet Performance Management

\*Advances in

connectivity and data collection have made the Fleot Perforlechnology. mance Management Industry more complex."



performance

"Evaluation of historical data can help to draw conclusion about current problems."



Panes Theodossopoulos

"Smart shipping era is here, my advice is to start with realistic goals and do not forget the customer hain points."





# 2017 SMART4SEA Conference & Awards

Tuesday, 31 January 2017, Athens Fostering Smarter & Sustainable Shipping







## We congratulate all Shortlisted Nominees!

ABSNautical \*Systems





























2.055 Online Votes





will disappear. Tasos Makris, IT Director

Gourdomichalis Maritime, fo cused on the "Software Quality in the Maritime Sector\*. Without any doubt, he said, the quality of software on board vessels needs improvements: less bugs, easier to use, easier to learn, easier to remember, preventing errors, help stored locally on board, better facilities to report errors, Mr Makris noted that the advances made on the maritime communications and bridge equipment during the last decade have not been matched so far by improve ments on the on-board software He referred to a research conducted by AMMITEC among its members which gathered the 15 most important guidelines that apply to maritime software with the alm to enhance quality. Conclud-

ing his presentation, he informed the delegates that AMMITTEC intends to start a campaign to raise stakeholders' awareness of the benefits of quality software emboard and ashore.

# PANEL 2

Smart Perspectives II Frank Coles, CEO, Transas, provided insight into "The Smart Connected Ship, Big Data and Cybersecurity towards Smart shipping". Mr. Coles pointed out that with all the talk about smart solved: the ecosystem in which they would operate, the connectivity that they require and the overall cybensecurity picture. The first is currently dysfunctional, the second is expensive and not

fit for purpose and the third is simply open and exposed and misunderstood. Mr. Coles urged highlighted that for effective to rethink the whole concept of ship operations by learning from is need for defined process and other industries, dropping some traditional concepts and accept- put, hand-busy & eyes busy enviing challenge of change. He further discussed the current state, documentation. During his presthe risks, requirements for resolution and suggested a new eco good sense of how his company system that will enable shipping in the future.

nology Officer, Tototheo Group. presented the current "Cyber Security Trends' noting that even the name has been changed over e-Navigation the years: formerly it was known as IT Security, or to some, just the use of a Firewall, Whatever the name, the seriousness of the subject has intensified. Now with safe navigation\*. He noted that everyday access to the internet and social media, propagation of misinformation and harmful contents can be passed around with great ease, he added. A Firewall is no longer the total solution. In his presentation, Mr. Hughes covered the activity in the world of cyber security for the past 12 months. and investigated how this has affected the maritime world.

Jordan Wylie, Communications Officer, Be Cyber Aware at supporting Bridge Resource Man-Sea Campaign, gave a presentation entitled "Is Online the New Frontline?" where he highlighted the importance of the human factor in managing the cyber risk at sea. With most cyber and information security breaches on. have revolutionized the efficienboard being a direct result of cy in goods handling. It was the human error, Mr Wylie Informed the audience that awareness and training should be the starting point for all ship owners as we advance further into the digital era of shipping. Mr. Wytle spoke about the Be Cyber Aware At Sea campaign and demonstrated that ship-owners do not need to invest huge amounts of capital to start mitigating this emerging risk, they just need to change ships, automation and even up- their attitude towards other and the first standard with notential to manned ships there remains three address the challenges from the key elements that need to be re- board room through to the engine room, he stated that online is the new frontline and fortune favors the prepared.

Eric Knaapen, Regional Sales

tions, focused on the "Future of Maintenance & Inspection". He maintenance and inspection there steps, structured data input & outronment and finally guidance & entation, Mr. Knaapen provided a solution is able to help and improve business performance with Howard Hughes, Chief Tech- a specific focus around various worldlow processes.

Torsten Galaske, Service Sales Manager, Marine Solutions, Wartella Electrical and Automation, investigated the "Puture of most navigational accidents due to human error have a root cause in cognitive workload, information overload and automation. Therefore, he suggested, the focus should be on new ways to collect, file and merge information, present information unambiguously and have adaptive supportive automation. He also said that future navigation includes augmented reality and bridge design agement.

Ulf Siwe. Communications Officer. STM Validation, explained the importance of "Containerisation of markine information\* Mr. Siwe stated that containers scandardization in the 60s that made it possible for the whole industry could build cost-effective systems for loading and storing and much more. Sea Traffic Management has introduced a similar approach for maritime information; real-time data is the 'container". Mr. Siwe suggested setting the standards, creating open interfaces and providing a solid infrastructure. Route Exchange is increase safety and efficiency in double-digit numbers, he stated.

Konstantinos Seresis, Projects and Product Development Manager, SRH Marine Electronics SA, referred to "ECDIS and Dis-Manager Europe, Honeywell ital Products as part of E-Navi-Sensing & Productivity Solu-gation\*. He briefly explained the

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e-navigation concept; it includes the harmonized collection, integration, exchange, presentation and analysis of marine information on board and ashore by electronic means therefore ECDIS & Digital Products have major role. Two other very important elements are Training and Support required for both Hardware and Software. Mr. Seretis highlighted that "e-Navigation" concept is moving forward within next years on the basis of "Paper" to "Digital" World transition. This change has not been concluded yet. It is coming more and more, fully based on ECDIS, ENCs and Digital Products full implementation, be said.

Willy Zeller, Marketing & Communications Manager, NAVTOR AS addressed concerns regarding \*e Navigation, ECDIS & Autonomous Ships". Mr. Zeiler highlighted that e-Navigation is central to delivering tomorrow's







technology, but its powerful ben- going vessels; that is a science efits can be exploited today. Using fact, be finally stated. data as a facilitator, it simplifies tasks, reduces workloads, enhances safety and environmental performance, and delivers real Peter Mantel, Managing Direceconomic advantages for the industry. Autonomous vessels are a natural step forward for the dis-ment" which has finally come cipline, with connected, digitized of age, and is now recognized ships that perform with optimal as a key part of every shipping efficiency, safety and security. company's operations. Advances Whether they switch to full au- in technology, connectivity and tonomy or not, he suggested that data collection have made the e-Navigation will soon become Pleet Performance Management

## DANEL 4

## **Energy Efficiency**

tor, BMT Smart Ltd, focused on "Fleet Performance Managecentral to the voyages of all sea- industry more complex. Conse-

quently, many ship owners are neither seeing the results that Fleet Performance Management can deliver, nor getting a return from their investment. Despite early wins for many ship owners around Fleet Performance Management, there is still a significant opportunity to make game changing performance gains, Mr Mantel commented. He further highlighted that shipping needs to modernise and changes are required the way the industry works from Pleet Performance Management (FPM) to Managed Fleet Performance (MFP) by providing a complete managed service

Antony Vourdachas, Senior Engineer, ABS, gave a presentation on "Analyzing Big Data -Managing data flows and using the information\*. He argued that international regulations and operational costs are key drivers in today's shipping industry in terms of vessel performance. Increasing regulatory compliance requirements add complexity to an already challenged market, while the volume of the data to



satisfy such regulatory reporting is increasing. In parallel, the proliferation of low cost sensor technology and the interlinking of systems onboard a vessel have further increased the volume of data being collected and needing to be analyzed, he added. This leads to a challenge when

presenting such "big data". Mr. needs and technology trends, these challenges and potential solutions to have in mind.

Bastian Gehnke, Vessel and Fleet performance Technical

performance management. Mr. ers make use out of collected data. troubleshooting Different use cases were shown and the process of automated rum Chairman, thanked the deleperformance analysis was also gates for their participation, the presented

Panos Theodossopoulos, CEO, Propulsion Analytics, gave a handling, storing, analyzing and ance between shipping industry rum/2017-smart/sea-forum/ Vourdachas addressed some of by focusing on this case. The use of data analytics, physical models and human expertise was presented as the optimum combination in order to achieve Product Manager, INTERSCHALT useful and actionable results for Maritime Systems, presented the the ship operator. He commented

\*Practice of data driven decision this approach forms the basis of making for an improved fleet a new cooperation between the company and the engine develop-Gehnke said customer's expe- ers Winterthur Gas & Diesel, for rience has showed that turning the development of an on-board data into knowledge is the main system that ensures the engine challenge of big data. Based on is running in the most efficient facts and figures out of practice, way, minimizes downtime and he explained how shipping own-supports the on-board crew with

Finally Apostolos Belokas, Fosponsors and supporters for their support and the speakers for their excellent presentations and also presentation entitled Big Data the organizing team of the event or Smart Data? The case of en- for their contribution towards gine performance monitoring<sup>e</sup> forum objectives. Explore more providing his view on the bal- at http://www.safety/isea.com/fo-





# Only 37% companies are prepared for cyber threats

The 2017 Global Oppor-tunity Report, released by DNV GL, Sustainia and the UN Global Compact, reveals that many companies are not prepared or even understand the cyber risks faced, as only the 37% of the organizations have a cyber incident response plan in place. The report suggests the following opportunities for cyber threats:

Artificial intelligence (AI) is an opportunity space offering to move institutions, businesses, and individuals two steps ahead of the next cyber attack



a new layer of security to verify-2 Utilising gamification tools, 3Behavioral biometrics analycompanies can transform em3ses specific human behavior impossible to replicate. Explore ployees from cyber security risks with intelligent software, adding more at https://goo.gl/ORIGvk

## Sea service records go online

The Danish Maritime Authority has, as of January 2017, removed the mandatory reporting of the signing on and off for Danish ships, providing a new digital solution. Now, it is fast and easy for the seafarers to type in their seagoing service before applying for certificates. They can, inter alia, see whether they have sufficient seagoing service to have their certificates renewed, keep track of their seagoing service and get digital access to their data.

# **New industry data** platform launched

DNV GL launched a new industry data plat-form named "Veracity" designed to help industry companies improve data quality and manage the ownership, security, sharing and use of data. By creating frictionless connections between data owners and users, the platform aims to create new opportunities for improving ship performance smartly in our industries is sustainability of their physical and safety, while at the same enormous. Companies have al- assets or operations. We are not time reducing operational ways turned to us for independ- looking to own data, but rather costs. Remi Eriksen, President ent, expert assessments and to unlock, qualify, combine and and CEO of DNV GL, said: "The best practices - to build trust prepare data for analytics and potential for using data more in the safety, efficiency and benchmarking, says Eriksen.



# HHI chooses NAPA Steel

**bullet**POINTS

HHI says to implement NAPA Steel's 3D-model-based ship structural design tool for paradigm shift in ship design.

#### Contract for drone inspection

Sky-Futures awarded a 3-year contract to inspect Eni facilities globally. This contract is said to represent a significant shift in the oil and gas market.

#### **Tototheo Group vessels** commit to Fleet Xpress

Sattink will bring more than 1,500 vessels to the Fleet Xpress service over a five-year

#### Furuno delivers 43 STM systems

Furuno, will provide 43 ships with STM-compatible on-board systems for route optimisation, enhanced monitoring, port call synchronisation, STS route ex-

#### Next generation technology for Global Xpress

Inmarsat, in conjunction with VT iDirect. achieved a forward channel throughput rate of 330 Mbps over a live inmarsat GX satellite in orbit.

# New chartering software

Maritime software development company SDSD are launching V-Chartering - a new cloud chartering platform for wet and dry brokers to manage the entire chartering

#### New online shipping platform available

Veson Nautical has launched Veslink IMOSlive, a platform that combines the existing IMOSlive cloud infrastructure with the web accessibility

# New digital cooperation signed CMA CGM and ALIBABA OneTouch have

signed agreement for in the digital area, following Maersk's example. Maersk launched a pilot program on Alibaba OneTouch portal on December 22, 2016. moving a step forward to providing fully digitized customer solutions.