A BRIEF INTRODUCTION

MARINER Communications

Working with us: Neville Smith

- Maritime industry PR Content and Editorial Specialist with 20+ years of industry experience.
- 16 years as a maritime journalist and previously Deputy Editor of leading industry newspaper Lloyd's List, covering dry bulk shipping, environment and regulation, IT and communications. Founded Mariner Communications in 2009.
- Industry sector expertise: physical and derivative freight markets, digital charts and navigation, classification and regulatory affairs, IT and satellite communications, marine coatings, CSR.
- Career Highlights: Regular conference chair, panel participant on IT, communications and CSR. Managed global MaritimExperts programme for Wilhelmsen Ships Service, completed re-brand and introduced social media channel for Freight Investor Services, retained on PR and media relations for world's largest class society by orderbook.
- Blogging on technology, communications and human factors at maritimeinsight.com, 6,000 Twitter, 1,000 LinkedIn followers

Core areas of expertise

Mariner Communications are experts in PR and communications planning, strategy and delivery.

- Messaging and positioning for global maritime, offshore and shipping clients;
- PR and media relations: working between clients and media, fulfilling planned and ad hoc editorial requirements globally and regionally (Europe, US, AsiaPac, Middle East).
- Press office management: managing contacts and requests. Content generation and management for mainstream maritime media, social media channels, conferences and events.
- Media Training: programmes for senior management and company spokespeople group training and one to one sessions.
- Live events: planning, management and delivery of live maritime industry events including product launches, media tours, seminars and conferences.
- Social media: management of social media strategy and day to day running of accounts: Twitter, Blogs, LinkedIn.

Our clients

Our client list includes global industry players active in the following sectors

- Classification Services
- Maritime IT and SatComms
- Ships Agency and Services
- Alternative Fuels Lobbying/Public Policy
- Shipping Research and Consultancy
- Digital Navigation Services
- Marine Paints and Coatings
- Freight and Commodity Derivatives/Risk Management
- Professional Examinations and Seafarer Welfare



"Smart Shipping" is a concept based on data, connectivity and Sman Shipong is a concept uased on para, connectivity and data analytics and today there is arguably more data available covering a much broader range of shipping information. This data is collected and transmitted to shore, but the key is how to translate data first into information, and then key is now to transiere date tirst into information, and then to knowledge that leads to action. This requires databases,

to Movembyse was require the second of the s dilarysis and algorithms. It requires curroral skill sets, and it can have cost implications. Client feedback has consistently indicated a mismatch Urient leadback has consistently indicated a mistratori between the desire to improve data quality from the ship verween ure vesue to suprove oata quarty from the ship and the availability of a single platform that can be used to anav mer avanavness of a analysis manser that we we are a war available and deliver information for decision support. Many anaryae and depret minimum that deviate a grand analyse in many owners and operators are collecting data but not all have writers and uperators are cullecting data but not ell reve the tools needed to analyse it or make informed decisions, Vessel performance, environmental compliance and vessel per ormanus, erverummenta compartor and energy efficiency, are areas where data management is energy enincensy, etc areas whole your energy enincense critical for both regulatory reporting – such as the European Union's CO, Monitoring Reporting and Verification (MRV) programme - and performance optimisation ABS has for some time focused on these areas to offer Practical solutions which simplify operations and can practicer seminons which simpling operations and can also add value for operators. Classification societies have

traditionally been the holders of vast amounts of data nauturinany oeen the houses or vast emounts or oera and are working increasingly closely with the industry to help support the transition to smart shipping. A New Solution for Data Management

ABS is helping meet the industry's needs for aptimised operations with its new Vessel Performance service with data monitoring and collection which provide the raw material to drive research and development on for mananers on the revealer and opportunities of the terms of terms o analysis and reporting supported by ABS Nautical anaryana anu tahuruny augustusu ur maa yaantaa Systems Voyage Performance software, ABS has taken Systems voyage renormance sonwate, ADD has taken a significant step in managing data into standard reports whose results can be acted upon without delay. The ABS Vessel Performance service is a flexible system which enables operators to capture and analyse Vessel performance data from multiple sources including hull and propeller, main engine and base loads to generate data for operational benchmarking By enabling consolidation of sensor and other input data from the noon report, ABS can transform thousands of

data points into meaningful KPIs. Data can include ship data points into meaningtui NMS: Data can include sinp data such as speed, power and fuel consumption, voyage

www.lathommanhmeintelligence.com

information, weather conditions, fuel switching and waste Water handling, making it suitable for internal reporting and preparation of data for statutory verification. By combining dedicated service delivery with a robust software platform, the Vessel Performance iouusi soniwara pianomi, me vessar renormance service simplifies data entry, enabling the ship to report performance and environmental data only once to operations and technical management staff. The routines applied and data collected in the course of energy efficiency analysis can be leveraged for or energy encountry anergan units can be revenaged with compliance with EU MRV ABS participation at IMO compliance with EU INITY. Has participation at INIQ meetings ensures that the lessel Performance service meetings ensures wat the yeaser renormance serv will also be compatible with IMO's emerging plans

for CO, emissions monitoring. In future, the system will be further developed to manage other regulatory requirements that involve data collection onboard ship. By meeting several critical requirements within one by meeting several chical requirements within one system, the Vessel Performance service puts ABS in a strong system, the vessel Henormance service puts Abb in a strong position to help owners meet their environmental obligations and by extension potentially improve their bottom line

A municuscipilmary ream The ABS Vessel Performance team is multi-disciplinary. with extensive experience in ship hydrodynamics, numerical modeling, model testing, full scale measurements, design, ship management and overations and regulatory corruptionice. Laveraging extensive experience and knowledge enables operations and regulatory compliance. ABS to provide detailed and in-depth recommendations supported by advanced tools to help owners and operators meet their operational and regulatory needs, The Vessel Performance team works with clients to ine vessel retrormance team works with clients to analyse hydrodynamic characteristics of hull structures, energias inversion to characteristics or man accurate and the impact of optimisation techniques on fuel consumption and overall vessel performance. oonsumpuon and overall vessel periormanoa. By undertaking detailed modelling of vessel components including the main power consumers and machinery systems ABS can assist owners in identifying areas where energy efficiency can be improved. Clients are able to use the output to undertake operational benchmarking across their fleets, identify performers in need of improvement and where best Perioritieta in treed of improvement and where pest Diactices can be implemented to improve operational stimulence on all uncode efficiency on all vessels



Maersk efficiency savings of \$78m beat \$40m target

Many owners and operators are now seeing a culture and skills to ensure ships' fuel efficiency is embedded in operations

Julian Bray Stamford

ersk Line made fuel-efficience avings worldwide of \$78m in 2012, early double its own \$40m target, GasLog in Monaco in Jamary this dustry in response to both high year as executive vice-president, operations and strategy. In 10 years' time we will look back and Westgarth, whose tenure at its four year drive to eliminate mark's world-leading consay there was a quantum change then," he said. Westgarth, whose tenure as Intertanko is due to end in No vember admits that when factori r operator outstripped its expectations due to fine-Errington and Westgarth were markets strengthen from their ing operational and technical speaking at a seminar on energy efficiency organised by the Ameri-can Bureau of Shipping (ABS) at "When the good times come s such as slow steaming I by staff absorbing the line's ging fuel-efficient culture. ews and operations team understand the concept the new culture is part of

d Chris Errington director ering maritime technical s at Maersk's US operation k Vincinia. k's US arm contributed o the total saving last year. een tasked to save \$10m from a worldwide total says Errington, who has of energy efficiency for

erators face three key pressures when dealing with improving vess are now seeing a sel energy management: the im-pact of overcapacity in the freight market; new regulations; and in-cost." ills to ensure ships being embedded ays Graham West of tanker owners creased fuel costs

cost." That applies both to existing ako. "The really big key to success ships or new vessels with more ef-then 1 was at will be in the existing fleet. There that adding is an unprecedented focus on en-and other technologies. nub-caps to the ends of propellers ergy efficiency," she said. "But as "New ships are 10% to 15% more efficiency is a very good tool for re-

realisation now that the cost

of fuel is the biggest cost. That

applies both to existing ships or

new vessels with more efficient

engines, better hull forms and

other technologies.

pressure to make sure their opera-tions are as fuel efficient as pos-

generated a 4% saving, so we ret-many believe they are already ef-efficient," he added "Existing rofitted the whole fleet. Payback ficient, they may find it hard to was less than a yean," added west improve." Slow steaming has now become Errington believes slow stre joined Peter Livanos's the norm across much of the in ing will remain in the container shipping market for the forese able future howeve "It is going to stay. It will con tinue for the next five to 10 years due to volumes of trade and nut bers of vessels." he said Errington adds that have no choice but to be energy efficient. "I doubt that any owner cannot afford to," he said. Maersh has found the most efficient rout ing is not to rely simply on a lower speed, but to focus on a constant Graham Westgarth: There is a

power output, aided by technique such as weather routing. While main-engine fuel of sumption is the main factor in fuel efficiency, other more hum-ble aspects are significant, such as hull paint, Errington says. Maersk has so far drydocked six sels early in their five-year su vey programme just to apply new low-friction paint "as we can se payback almost immediately". Err-ington added: "I would never have believed it was so important." oved energy efficiency and high-environmental performan

will help shipping attract educat ed young staff, as well as save cash argues Westgarth. "Young people today are much more aware of environmental is sues than people of my generation "We find they ask questions about what we are doing [as own-ers]. Of course, it depends on your Full speed ahead or steady as she goes?

While prospect of high-thiougliput

satellite (HTS) services is an exciting

one for the time being sh powners

would do well to keep their feet on the

graund, argues Geoffrey Davison"

middle east

Regional training centre supports global standards Don't panic, shipping is well equipped

Will elmaen provides practical (comical and safely training in the Middle East

he Willielmsen Ships Service (WSS) regional training centre in Fujairah, United Arab Emirates, has been inoperation since 2010. The focus is on training WSS reclinicians and apprentices in marine salety systems, as well as in product and service management, to a professional technical level The centre is equipped with state-of the-ari fire, fighting systems and safety component from several manufacturers in order to conduct realtime, practical tramine. Training instructors include specialists from Wilhelmsen Technical Solutions (WTS) and other manufacturers. "Wilheimsen Ships Service engineers make thousands of ship visits every year, going

on board to service fire-fighting and other safety equipment and systems on behalf of shinowners and auerators," says WSS's business director for regulatory products and by ensuring our comment and systems are

Improving

(WSS) labinohed an innovative solution to assist shoowners in meeting the requirement in the Maritime Labour Convention 2006 for v quality standards unboard vessels. The Duct Air Treatment is an anti-Barrieria binnk which writes within MAC. systems proboard vessels to stop the spread of investile mould, bacteria and viruses: The block works by sterilising and sanitising the entire onboard ali conditioning system, including both the air passing through the system and the air handling unit, ducts and diffusers. HVACsysteme are ideal breeding grounds for bacteria, wuses and mould and, as such, it

As apprentices, they have a menior and as a technician they will themselves be trained on a Safety service centres work closely with the

certified by multiple classification societies, not

just onloard ship but at our safety service

global service certified by all the international

a ronsolidated, standardised programme for

the shipowner. On top of the operational

advantages, working this way also gives clients

much lower administration and running costs

from a management perspective compared (i)

years' training to become a juntor technician

and then go up through the grades to become

a senior technician. That takes a minimum

of six years and possibly as long as 10 years

Apprentices go through a minimum of two

centres globally

an ad huc approach.

regular basis.



mogramme is backed up by the provision of a wide portfolio of safety products and Andrew Sheriff (WSS); "Engineers make services, as well as the development of a number thousands of ship visits every year" of edearning packages and an online service update system

ship operations and says that increasingly it In addition to its Pujairali operation WSS has means companies like WSS must go far beyond regional training centres in Housion, Antwers, their traditional role as a service supplier. 'We Shanghai and Singapore as must support the industry and our customery

> WSS kev facts Over 40 years of Unitor fire and

supporting over 1,000 key ports 22,000 rental life rafts of various vered on vessels since

Globally its service tech isit 40 per cent of the world ery year to ensure their com Locally WSS Fujairab is approved as a Indian Register of Shipping US Department of Transportation
National Transport Authority of UAI

www.morwegiansi.com

Offshore Training: Simulation is the Path Ahead The offshore marine industry needs to develop and maintain a large and growing pool of qualified, trained, certified and experienced personnel to keep the industry running safely and productively. Simulation systems are the optimal The offshore marine industry needs to develop and maintain a large and growing pool of qualified, trained, and experienced personnel to keep the industry running safely and productively. Simulation systems are the optimal platform for training, providing hands-on' experience in environments that can reproduce the complexity and the and experienced personnel to keep the industry running safely and productively. Simulation systems are the optimal platform for training, providing hands-on' experience in environments that can reproduce the complexity and the difficulty levels of real-life operations without causing any harm to life and limb. platrorm for training, providing 'hands-on' experience in environments that can difficulty levels of real-life operations without causing any harm to life and limb. Δ main purpose and have apport vessel (MSV) is (any mg out sable a impection winde by moving Respite latterally from other similar industries in version of the really are no clones of this industries industries inverse small intervention. Anteninpurpose anyone aspport record (Most Fo dati ring out anyone importion) Wark by Remotely Operated Vehicle (ROV), next an official plutform. The vessel is , we have nerver any operation resonance investigation and an analyzed and the follow she'r node. Four threaders and two main popellers (

features

are closed, two Differi

Simulation Systems

Ide nos are observed and BOV control is informed. As the title surge passes (

Turbochargers while wes in an uncontrolled manner.

e oceans but in a training

Offshore World | 31 | December 2013 - January 2014

The spin are understand and that some in manifold in the last solution is the last solution of the last of the second lower platform (in a π^{-1}

g wind and heavy swell. Power to thruster one is lost

nism by which any gap in skills

De and is in tonew single mode, how the safety and two main properties / Between the main fleet and oddshops shipping index of the safety of t efference and leser radit system are online as well as two gytos, two Vertical qualified and trained personnel exists. How

Cost that the core skill sets needed lies, some movement of operators have learnt to their I sector are not easily transferable. signed, built and operated integrated y ar imparting the type of training that requires the trainee to wing dilemma. By its very i-constitutings and gain experience in environments that can reproduce the complexity and the difficulty levels of real-life operations -along with assisse

/ is pet in heading control mode and a slow drift is experienced. The es beavily and various position reserve systems are rejected by the / of a simulation project - including software architecty every area of the design and execution Jware design, scope re visual system. n and a work culture that securely and in a timely manner. The bs highly demanding - almost all

Aennial to fill a range of the skills gaps being experier ore training Institute at Mumbal by ARI A taking in minid and body and require long periods of focused attention and alergy 6, such as the one above, can be prepared and practiced sel types, operations, and functional teams. ving, highly fled, trained, certified, and experienced personnel fely and productively. The Jub roles involved are

to deal with the aftershocks of 2016 For all the surprises 2017 might have in store, the industry is much better placed to tackle them than ever, writes Ari Mariamaa vice-president stobal market intelligence at Mallenice Williammen Lear For all the surprises 2017 might have in store, the industry is much better placed to tackle them than ever, writes **Ari Marjamaa**, vice-president global market intelligence at Wallenius Wilhelmsen Logis services, Andrew Sheriff. He acknowledges that the low earnings sittle environment is putting added pressure on ards. ENC dama

972

RIV

we are probably b.

spending — Infrustructure — Le positive for the economy of the second sec

Despire what we read and used all our jobs will not be gone to-morrow even if "roborisation" al-

hows for automation of ever more

Intent we and new privageness—the printian in the set in terms of the end of

ves, we will still own stuff, even

in the sharing economy; no, arrin-cial intelligence will not solve all our anshrical chaives, we will state own scattering in the sharing economy; no, artifi-

cial infelligence will not some an our anapprical char-lenges tomorrow, despite its promise of omniscience.

ARI MARJAMAA

Photo: WALLERINE WILL

Year was all about unended expects - spending - infrastructure - is to state with local the effect of expending - infrastructure - is to state with each the effect of expending - infrastructure - is to state with each the effect of expending - infrastructure - is to state with infrast of expending - infrastructure - is to state with infrastr

The world has charged more over the sense of the world has charged more over the sense of the se

This creates a series and tranker the dark at of objects of the selection of the selection

that the words. It al bankers have been the unlikely superstars

st year was all about upended expecta-

air quality Ined before. so perbaps not all is suggests, and it might that, for all the surprise

Earlier this year Wilfelmsen Ships Service

is vital that they are well maintained.

62 Norwanan Solutions 2014



WSS is the only supplier that can offer a 98 safety service stations globall 45 life raft exchange a Association of Classification Societies (IACS) members, backed up by five regional training warld centres for its technicians, its Safety Service izes dell Agreement has the advantage of providing aunch in 2007

21,000 safety services p ach vear 10.000 vessels pure 7 global class appr

Richard Baker decision-maker

'Since 2011, we have been busy helping

our clients to understand the trade impact and how they need to respond

Iture for futures

4.0 Enterent derivative commodifies offered by CLTX

Born in Cork, Incland, Baker decided

against a career in the family building

business and pursued his passion for

an understanding of how end to end systems work," he says, which has given

him the tools needed to understand the intricacie sof the forward freight agreement

(FFA) market in which he now finds

electronic billing platforms." Histrading platform, based in London and

himself. "There are great similarities

between bilateral trade, bandwidth and

Singapore and known as CLTX, is an

electronic global futures exchange founded

in 2010. It offers more than 40 different

ative contracts for commodities.

which Baker says is at a pivotal

cowth cycle, is the first offer straight-through g to multiple clearing houses. This

educes the time between

vity of Singapore and is engaged room metal, agricultural,

Paker believes CLTX is ready to

ergy and freight market s.

nefit from a wave of regulation in the G20 group of industria

tions that is pushing over the

ounter (OTC) derivatives trading

on to electronic platforms. This

migration is causing concern for

many operators, Paker acknowledges.

predicting: "As a result, I think we will start

to see a lot of consolidation in the market

and I don't think everyone will survive

Derivatives played a key role in the

financial crisis of 2008/09 and directly

influenced regulatory changes to the ivat ives markets through the US

Dodd-Frank Wall Street Reform &

Consumer Protection Act, which sought to

egulated by the Monetary

electronics after training as a military radio officer. "All my career moves have given me

artrade Exchange's boss calls himself a 'hungry guy

who trusts gut instinct in addressing FFA regulatory

changes. He talks to Savahna Nightingale

of these entrepre-

list in strategic leader-

unregulated OTC derivatives markets. "This year we are going to see a lot of turbulence, particularly around the clearing former, based waters. Further to this, MiFid II, a revision of the processed through the exchange rown houses," Baker warns. European Union's original 2007 Markets in "We will continue to Financial Instruments Directive, is operate our borizontal expected to affect how stocks, bonds, mode)," Baker pledges.

derivatives and commodities are being

traded, "A lot of the

ultimately have on t MiFid II is about eig

But he is embra

understand the lon

change, and this is to go away any tin

He emphasise

been preparing to

decision to accept

soing to be a bad

int imidated by

found a new by

shareholding

trading." Bak

part of a bigge

competitive

Germany

EuropeanEr

marketplace shares and c

stake in CLT.

which was fi

cash, gives

growing co to find the

wouldhelp

Bakerexp

decision we c

CLTX operates a "horizontal" model for step towards making sure EIS was self-CELLOPERIES are achieved in the control of the cont Controls of write interview of the accusate of a guarding of write entropy of the average of the Notice The extinuity sequences a solution of the second se regulation, and make sure we established ourselves as a But it hasn't been a walk in > Richard the park, especially dealing Baker with concerns about how

20 January 2017 TradeWinds

ich three

Opaque offshore vessel valuations a big hurdle to restructuring work

Unrealistic price tags and lack of market data is complicating negotiations, says MSI

Darin Grides Osto A lack of transparency in ship val-ues is a main cause of disagree-ment in the raft of restructurings imong offshore shipowners But lenders are also facing the But fenders are also facing the prospect of recovering only about 20% of loans, according to analysts at London-based Maritime Strate-gies International (MSI). The worst downturn in three decades has forced nearly all own-on of officience support mesoils ers of offshore support vessels (OSVs) to seek instalment relief or

to launch some financial restru turing and many of these actions re dragging on for months. With owners in breach of their lean-to-value covenants, a compli-cated net of varied stakeholders is partly to blame. Analyst James Frew tells

TradeWinds that MSI's work with its own clients shows that a lack of transparency on asset values is also impeding the restructuring

process. "At the start of last year, a lot of

shiphroker valuations were not discount is when the bank sells as a wery realistic about the actual offshore sector has doubled over sel specifications, capacities and and delivered in 2012, would beday forced seller, what the brokers' fees https://grintles.weit.org/lines.weit.o

ing out OSV valuations for the past Furope. thirds from about 2014. Frew says eight years, its revenue from the It also takes into account ves- the same AHTS, if ordered in 2010

James Frew: Bankers felt that the

valuation certificates from owners weren't particularly realistic.

ity the nefty haircuts and costs ity the neity haircuts and costs associated with distressed AHTS transactions in the current market suggest that a bank should expect to recover less than half of the loan utstanding," said Frew. "If banks are able to tough it out, hold the asset through the down hold the asset through the down-rycle and execute a sale in 2019 assuming revenue and costs bal-ance in the intervening period – about 20% of the outstanding loan might be recouped." TradeWinds asked Frew whether

OFFSHORE 23

the 70% recomp amount could be alised for the whole offshor generalised for the whole offshore sector."Tes, in very, very rough terms, for that sort of modern ge-neric asset, that's the range you are looking at, but there are limitations to reading those values across the whole marke "We model each of the assets

rately and those will differ a separately and rhose will drief a bit and also, the other input that we are baking into that - 20% against less than half recouped is that we've got data on what the forecast other the theorem. "If a bank does have to take pos n of a mercil and another it of

sale, then they are not market value, even though that Frew says he 'has not exactly

predictions to the market, which he describes as "grimly realistic", because some owners and "even some banks" have not been in-terested in hearing about OSV

top of the cycle is un recoverable

been Mr Popular" for bringing MSI prodictions to the market which

"The issues facing a number of offshore projects number of offshore projects today are ones of insolvency rathor than Illiquidity, and even under a market recovery, significant proportion of the lebt on assets purchased at the

AMESTRE

said Fress

MSI has eyes on the future with new valuation service UK research company believes it can accurately estimate ship values up to five vers ahead and is ready to launch a forecasting service despite the scentics wh UK research company believes it can accurately estimate ship values up to live years ahead and is ready to launch a forecasting service, despite the sceptics who believe forecasting in shipping is a long shot at the best of times years ahead and is ready to launch a torecasting service, despite the believe forecasting in shipping is a long shot at the best of times like Payne: MSI's earnings and asset price forecasts for the leading minur sectors are significantly more accurate than common alternativ Mike Payne: MSI's earnings and asset price forecasts for the leading impping sectors are significantly more accurate than common alternative nethods, such as mean reversion or straight-line depreciation, based on forecasts since 2000.



'Once you can embrace it and figure out what the market is trying to do, it's workable'

decision-maker

OUR VISION 公司愿景

To create global full brokerage services 创造一个国际化的航运干散货和商品期货 in freight and commodity futures 经纪的一站式平台 broking.

To leverage our international client base and outstanding research into domestic Chinese markets.

To be the number one partner to Chinese and international clients in clearing, financing and advisory.

Develop new products and services to generate fresh revenue streams.

凭借国际化的客户市场以及优质的研究水 平深入中国境内市场

成为中国以及全球客户清算、融资和咨询 的最佳合作伙伴

拓展新产品和服务以开通新的营收通道。





MARINE COATINGS

The search for improvements to fouling release coatings has resulted in a completely new solution, writes Peter Schoneveld, PPG eSHaRK Project Leader

Swimsuits for ships: overcoming fouling through coatings innovation

hat Asia continues to dominate the merchant shipbuilding market is no surprise but the changes taking place

in shipbuilding technology are arguably more dramatic than ever. Asia's shipyards, as well as its ship-repair and dry dock facilities, are responding to a wave of smart shipping initiatives designed to drive the adoption of new technologies. These range from digital-driven data collection

and new navigation processes to the hardware that defines the vessel's operation - right down to the use of marine coatings. Shipvards are increasingly looking for coatings technology solutions that can give their clients' vessels a better operational profile in terms of fuel efficiency and environmental performance.

Fouling, defined as the settlement and growth of marine organisms on submerged structures, such as ship hulls, is a constant challenge for the shipping industry. Fouling has the effect of increasing the hull's resistance to movement as it sails through the water. This friction can seriously hamper a ship's operational efficiency and increase fuel consumption by as much as 50%, leading to additional greenhouse gas (GHG) emissions and a greater carbon footprint. As fuel consumption represents around half the operational costs of the marine transport

industry, fouling can also have significant economic costs for ship owners, and be detrimental to the industry's competitiveness with other transport modes.

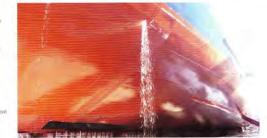
minimum amount of active material to prevent fouling over the lifetime of the coating system. This controlled release reached a new level with the introduction of so-called self-polishing antifoulings in the 1980s. In addition to fouling prevention, this

Traditional paint-based blocidal systems are

technology provided a smoothening effect of the coating surface and so contributed to lower water friction of the underwater hull surface. Although extremely effective, these coatings release biocidal materials like copper oxide and organic co-biocides into the aquatic environment.

Increased awareness of the long-term effects of blocides released into the sea on the ecosystem has led to a restriction in the use of biocides and into new routes of biocide-free systems. This has led to the development of fouling release coatings.





www.coatingsgroup.com

TRADITIONAL METHODS

peedlessly correcting paper charts lications because owners have not sted in the potential of digital navdesigned to constantly release exactly the ny cases, purchasing of navigaducts is habitual and based on livays been bought in the past, what is actually needed. As a

ciencies, which can equate to ands of wasted dollars every tese operational aspects of an display and information) and electronic navigation the failure to implement

ATION ABERS

analysis by GNS has ing companies are rou-5% more per vessel per y on charts and publi-

ated to paper charts that are costing them e of ten globally trad-In two real-life examples, GNS worked with by GNS in 2017 the a large Singapore-based shipping company is an eye-watering to analyse its navigation chart usage and ational publicatio harts and USD 1,100

concluded that it had overspent by more than USD 9,000 per year on navigational I is not limited to supplies for just one vessel in its fleet. s found many in-GNS also analysed the purchasing and using or needing consumption patterns of a major Greek c charts they are shipowner and demonstrated that the com-

navigational supplies they may not

that crews are wasting hundreds of

pany was carrying large numbers of unnecer navigational essary paper charts, all still being corrected han 30% in the on a weekly basis, taking endless hours of 2016 to July crew time, despite the vessel's Safety Cernies moved to tificate Form E specifying ENCs as both equiring their its primary and secondary means of navigavations and

22.5% since Data-driven analysis paper publipubled be-

The solution to this problem is not to spend more money on either hardware systems or charts. Instead, owners should

SHIP OPERATION NAVIGATION, COMMUNICATION & FLEET MANAGEMENT

Real-life examples

virtually all international shipping fleets,

the era of digital navigation has not meant

an end to the use of paper charts. Because

shipowners may continue to use paper for

navigation and for back-up in case of prob-

lems with the ECDIS, crews are still re-

Rather than create a 'best of both

worlds', the result is that many shipowners

crews in its use.

E-navigation at tipping point EDIS/ENC The era of digital navigation has not resulted in the end of paper charts. What's more, many ship to commanies are vet to realise the benefits of electronic navigation and are still oversoending on paper and LUIS/ENC The era of digital navigation has not resulted in the end of paper charts. What's more, many sinp-ng companies are yet to realise the benefits of electronic navigation and are still overspending on paper and if a chart products at Clobal Navigation Solutions. ng companies are yet to realise the benefits of electronic navigation and are still overspending on paper and Ital chart products, writes Captain Mike Bailey, head of Navigation Products at Global Navigation Solutions, an electronic navigation strategy properly means some owners are exposing them-

selves to entirely avoidable compliance focus on a deeper understanding of their navigation needs and data usage, and

identify the opportunities for efficiencies by working smarter using data intel-

Navigation using ECDIS is a fact of life for many internationally trading shipowners GNS set out to understand how owners today; a system they are required to use and were using navigation charts and data based maintain on board, as well as training their on a belief that many companies were failing to capitalise on just-in-time delivery of Even though the mandate to use ECD1S data to drive cost savings. Chart inventories under IMO SOLAS regulations now affects were often not being regularly reviewed against routes sailed or flag state and tech-

It was also necessary to understand whether the software on board a ship to help it navigate more efficiently is properly installed and set up to deliver maximum ef-

guired to work with paper and ensure it is In order to enable shipowners to make the most informed decisions, GNS wanted to move the analysis beyond a process of guesswork and estimation or simply examining a shipping company's past orders.

still face a long journey ahead in achiev. ing the efficiencies and cost savings that ECDIS was designed to deliver. At the same Instead, it developed a data intelligence time, they are still tied to processes associtool called Voyager Insight to collect, store and analyse millions of data points ranging from AIS (automation identification system) positions to Port State Control and flag state data every day. This data was used to compare what shipping companies have purchased against actual trading and compliance requirements, on a detailed and be-

Since 2015 Voyager Insight has captured 890,000,000 AIS positions for 75,000 vessels above 400gt. The output provides an extremely clear picture of the areas where a company may be overspending. This can be used to refine vessel inventories to match what is really needed and then, importantly, maintain them at the most ef-

One of the findings from this work has been the scale of unnecessary spending it has uncovered on digital purchases. Using data analysis, GNS has been able to identify that as much as 70% of ENCs purchased are never actually used, equating to any thing between USD 1,000 and USD 5,000 wasted per vessel per year.



Methanol offers shipping a clean,

DMO member states have agreed on a decarbonisation target, and the means to start is largely in place, says Grevory Dolan, chief executive of trade association. Methanol Institute

quick pathway to carbon cuts

MO member states have agreed on a decarbonisation target, and the means to stat place, says Gregory Dolan, chief executive of trade association Methanol Institute

The bard-bught agreened struck lythe biologist agreened struck lythe Commite and the structure of the structure during the structure term structure agree during the structure agree structure bardene borenisigenceut.

bion for environments search are the first agreement list upp and a state of the industry lise search of the industry lise with the search are accessed securitors designed to de-tine progressing to ensure an ensure of the ensurement determine

12 OPINION

TradeWindo

20 April 2018



Self-adhesive film (MACtac) Protection shee

27 APCJ + April 2018

Contact us

Neville Smith Mariner Communications Cell: +44 7909 960 182 Skype: badmariner www.maritimeinsight.com Twitter: @maritimeinsight Industry Ambassador at Sailors' Society