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The Dutch maritime industry has been in full swing in 2018. In addition to a predominantly higher order intake, we have also seen a lot of technological innovation, far-reaching process optimization and growing social awareness.

Both in high and low tides of the industry, the ability to re-invent materials, processes and the impact on our people and our planet have been vital. With the Maritime Awards Gala, already since 2006, we celebrate the drive and talent to explore, test and be tested in natural surroundings.

This year, the Gala was sold out unexpectedly early, and supported by the largest group of Gold and Silver Sponsors ever. Over 900 professionals are present this year. Moreover, for the first time we have also invited young professionals to join our event by visiting the Young Professional Party, that is organized simultaneous to and in conjunction with the gala. This is to inspire a new generation, and to get inspired by younger management. We encourage all under 36 to connect to your fellow professionals as well as captains of industry.

I look forward to seeing you!

CELEBRATE THE DRIVE AND TALENT

Henk Volmerink
Chairman
Maritime Awards Gala Foundation
We are proud of our Dutch maritime cluster, a vibrant ecosystem and a crucial part of the Dutch economy. During the annual Maritime Awards Gala we come together to celebrate this quality of ‘Nederland Maritiem Land’. We are showcasing the nominees here tonight, by extension we would like to shine a brighter spotlight on the whole maritime ecosystem.

We continuously have to consider external forces that could threaten our position as a maritime nation. One of the most powerful forces in our world is the force of nature. She gives and she takes, therefore we should treat her with the respect that she deserves.

We are very familiar with the laws of nature, due to our extensive history and our longstanding relationship with her. Whether we are creating ships that can sail the oceans during the toughest storms or by dredging sand to create new land and to protect our coast line. Or during the installation of wind farms with floating or fixed-bottom wind turbines. Our innovations help us and our products to become faster, stronger, more durable and sustainable every day.

Wim van Sluis
Chairman of Nederland Maritiem Land
What role does innovation play in your company?
At Anker Crew Insurance, innovation means “Doing what we do, only better and more complete”.
Product innovation and process innovation go hand in hand. Through process innovation, we ensure continued development of our business processes and improvements in our customer service. Through product innovation we increase our possibilities to provide further customization and at the same time we expand our service concepts. We are not only an insurance company, but also offer support and assistance in the area of absenteeism and crew registration.

In what way does your company draw inspiration from nature?
Nature is admirably the environment in which you can relax and escape the issues of the day. Being in the open gives room to reflect and allows you to be (more) open to inspiration. Inspiration that you ultimately need to innovate.

And what role does co-operation play?
Anker Crew Insurance has a long history of intensive collaboration with different players in the market. At home and abroad. Examples are maritime organizations, brokers, advisors, fellow insurance companies, specialist service providers, et cetera. This intensive collaboration is an important part of existence of Anker Crew Insurance since 1907.

What does the Dutch maritime sector excite?
The maritime sector excels through a combination of decisiveness, perseverance, entrepreneurial drive and unique and specialized (maritime related) knowledge and expertise. This ensures that the Netherlands still holds a special and important position in the maritime sector all over the world.
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**DRESS CODE**
Black tie

**ORGANISERS**
Maritime Awards Gala 2018 is organised by the Maritime Awards Gala Foundation – representing Netherlands Maritime Technology, KVNR, KNVTS, Royal Netherlands Navy, Maritime by Holland, and the NISS.

WWW.MARITIME-AWARDS.NL
This award is destined for the best operational innovation by a student aged 35 or younger. The winning research must have the potential to lead to new insights, concepts or innovations that contribute to improving the operational deployment of naval craft.

**THE NOMINEES ARE:**

Marijn Nap-Boone with the possibility of compressing meteorological data to make numerical weather predictions available on board of ships and submarines at sea

Naval ships require up to date meteorological data for mission planning purposes and the optimal employment of weapons and sensor systems. Ashore, numerical weather prediction models are used to create meteorological forecasts. Until now, these products have not been available on ships: the meteorological data are too big in size to be transferred to a ship by satellite.

During an internship at the Netherlands Defence department for knowledge, innovation, experiments and simulation (KIXS), Marijn Nap-Boone investigated the possibility of compressing meteorological data down to a size suitable for satellite communication. She developed a prototype which, using various mathematical techniques, compresses the volume of a dataset to a file smaller than 10 MB. This enables the use of e-mail services, to make numerical weather predictions available on board of ships and submarines at sea.
Royal Netherlands Defence Academy Sub-lieutenant Niek van den Nieuwenhuijzen with analysis of the torsional vibration behaviour of a powertrain of a ship

Torsional vibrations are a common cause of damage to or unwanted vibrations in a ship’s powertrain or propulsion plant. Not only do they bring about high maintenance costs, they also generate a higher acoustic signature. However, torsional vibrations are often neglected because they are not observable with the naked eye.

At the Royal Netherlands Defence Academy Sub-lieutenant Niek van den Nieuwenhuijzen investigated the possibility of simulating the torsional vibration behaviour of a powertrain of a ship through time domain simulations. Using various mathematical methods, he developed a finite element program which can simulate the torsional vibration behaviour. This simulation provides the means for a better analysis of the torsional vibration behaviour of a ship’s powertrain.

Kirsten Schmidt with Augmented Reality Navigation

Maintaining situation awareness is the essence of safe navigation. This includes identifying vessels, determining the ship’s position, collision avoidance and navigating in restricted visibility. Performing these tasks, naval bridge personnel need to shift attention between the outside picture and internal systems and tasks.

During an internship at the Netherlands Organisation for applied scientific research TNO, Kirsten Schmidt investigated how Augmented Reality (AR) could aid navy personnel with safe navigation on the bridge. Using qualitative research and operational user evaluations, she developed an Augmented Reality viewer concept with a prototype of an AR device, which increases situation awareness and thus supports navy personnel in safe navigation.
What role does innovation play in your company?
Damen has always been a company with a clear focus on innovation. From ground-breaking concepts such as standardised shipbuilding to advanced products such as the SEA Axe Hull, innovation has provided the means for Damen to grow into an established global group of companies.

In what way does your company draw inspiration from nature?
As a family-owned company, Damen’s business strategy can only be described as a long-term vision. This philosophy is perhaps most visible in our attention to sustainability. While not directly ‘inspired by nature’, we have developed multiple products that have the aim to preserve and protect the natural environment. From reducing the carbon footprint of our yards to building zero emissions electric ferries – we strive to make all our operations ‘future-proof’.

And what role does co-operation play?
Our co-operative relationships with clients, suppliers and sometimes competitors have increased in relevance in recent years; and this is a trend that is only going to continue in the future. The benefits of collaboration include better designs, smoother construction processes, increased safety and efficiency of operations, and optimal systems integration. Simply put, collaboration has the potential to optimise the entire life cycle of a vessel.

What does the Dutch maritime sector excite?
The Dutch maritime cluster is truly unique in its scope of activities, knowledge and expertise. Dutch maritime companies not only excel within our own borders, but we have reached out to global markets with our now world famous pragmatic ‘can-do’ attitude. The Dutch maritime sector shows that there are isn’t a challenge that can’t be solved.
The goal of this award is to raise more awareness about the innovative power generated and radiated by the maritime and offshore supply industry. Additionally, this prize aims to stimulate innovative developments within the maritime cluster.

THE NOMINEES ARE:

Fleet Cleaner

Fleet Cleaner removes fouling (slime, algae, barnacles) from the ship’s hull, improving fuel efficiency by 5-10%. The cleaning operation is done during loading and unloading in ports, so there is no downtime for shipping companies. The innovative hull cleaning installation is developed in-house by Fleet Cleaner and is able to capture all removed fouling while continuously filtering the wastewater, resulting in an environmental friendly hull cleaning. The diverless cleaning service is currently 24/7 available in all Dutch seaports.
**Mampaey Offshore Industries with their Intelligent Dock Locking System**

The intelligent dock locking system (iDL) of Mampaey Offshore Industries arose from a request from within the inland shipping industry with regards to the necessity to make mooring, a process encountered frequently every day by for example bunker vessels, faster but above all safer. As mooring experts, we have demonstrated several concepts, in trials and pilot projects, and are now working to install our first commercial ferry project in London.

iDL is an automatic mooring robot that is capable of mooring efficiently and safely by means of hydraulically controlled arms and a magnetic coupling, thus making mooring lines obsolete.

**Veth Propulsion with their Veth Integrated L-drive**

Electric propulsion is the future. Space is precious in any type of vessel. The Veth Integrated L-Drive is an extremely compact rudder propeller with an integrated permanent magnet motor. This 360-degree steerable propulsion system produces very little noise and has a high efficiency. The Damen Volt Processor (UV4312) now sails with the Veth Integrated L-drive and with this thruster creates a height saving of 2m! compared to a regular L-drive. The largest unit saves up to 2.8m in height! The new standard in electric propulsion has been made.
What role does innovation play in your company?
Europort sees innovation as a key driver to success. Ships must be greener, safer, smarter and more cost efficient. Europort wants to provide a platform to showcase such innovations for delivering added value to ship owners, shipyards, ship designers and other maritime professionals.

In what way does your company draw inspiration from nature?
We cannot ignore climate change or energy scarcity. Contributing to a greener environment has become a global responsibility. In Europort ‘green solutions’ have been put on centre stage for many years. Also within our own company we are committed to a sustainable future; the Ahoy venue is undergoing a massive transformation. In 2020 a complete new conference centre with advanced sustainable systems will arise.

And what role does co-operation play?
Co-operation is one of The Netherlands’ strongest assets. We live in a country with a dense maritime infrastructure of suppliers, shipyards, ship owners and high level research centres working within a small radius. This gives us a strategic advantage. By sharing expertise and defining common goals we are able to offer integrated solutions and accelerate innovation.

What does the Dutch maritime sector excite?
The Dutch are globally renowned for their ‘can-do’ mentality, for innovative solutions and for building ‘complex specials’. We hold leading positions in specialized sectors such as dredging, inland shipping, offshore and super yachts. Digitalisation will transform the maritime industry and I believe that our country can play a vital role in this process.

IN 2020 A COMPLETE NEW CONFERENCE CENTRE WITH ADVANCED SUSTAINABLE SYSTEMS WILL ARISE.
The RSD Tug 2513 Innovation is a new harbour tug design developed by Damen Shipyards. The vessel is characterised by a compact, wide hull (L/B = 2 (!)) with a high freeboard and, consequently, a large dynamic stability. The hull is provided with two high-aspect ratio fins (instead of the usual skeg at the centreline) to achieve predictable and stable sailing characteristics. RSD is short for Reversed Stern Drive, which refers to the tug’s double bow at both ends of the vessel, with equal height. Therefore, it can operate safely and optimally as both a front and stern tug. The ultimate goal was to achieve a safer, sustainable and efficient harbour tug, capable of handling the ever larger (container) vessels.

This prestigious prize is awarded each year to a ship that has been designed and built (or finished) either in the Netherlands or at a foreign subsidiary of a Dutch company. Decisive criteria include pioneering characteristics, environment, safety and economics.

THE NOMINEES ARE:
The RPA 8 is the Port of Rotterdam Authority’s new patrol vessel, designed, developed and built by the Kooiman Marine Group

The RPA 8 is the Port of Rotterdam Authority’s new patrol vessel. It was designed, developed and built by the Kooiman Marine Group with the objective of delivering a vessel that can execute its tasks safely, smoothly and sustainably. The aluminium vessel, fitted with an innovative hybrid operating system, redefines the highest standards for this specific market segment.

For a large part of the time, the ship operates at low patrol speeds. Ship inspections must, however, be carried out swiftly and safely, and in the case of emergencies, the ship has to be able to operate at high speed. In all of these conditions, the ship must operate with low fuel consumption and a low level of emissions. In addition, the ship must comply with the requirements set for the height of radiated waves, both at cruising speed and maximum power.

The 7,950 m³ trailing suction hopper dredger Scheldt River, designed and built at Royal IHC

The 7,950 m³ trailing suction hopper dredger Scheldt River was designed and built in the Netherlands at Royal IHC and delivered to the Belgian marine contractor DEME on 25 September 2017. The Scheldt River and the smaller Minerva, also built by Royal IHC for DEME at the same time, are the first dual-fuel trailing suction hopper dredgers in the world that can operate on LNG. With these vessels, DEME has made a clear choice for LNG as the primary low emission fuel in order to meet the strictest regulations in the field of exhaust emissions in the coming years.
What role does innovation play in your company? Royal IHC’s payoff is ‘The technology innovator’, so innovation is at the heart of what we do. We understand that in the challenging environments of dredging, mining and offshore construction, the latest technology and the best equipment is vital. We continuously invest in R&D and innovation, and forge ahead to deliver the most efficient vessels, equipment and services for the specialist maritime industry.

In what way does your company draw inspiration from nature? On a daily basis we are inspired, and challenged by nature. Since the our DNA is maritime, we are always inspired by the beauty and the force of water.

And what role does co-operation play? Co-operation is key in today’s world. We are all part of a chain: Customers, suppliers, government, knowledge institutes! We need to share knowledge to keep up with this fast evolving world.

What does the Dutch maritime sector excite? No matter how big the (technological) challenge, we will make it work!
What role does innovation play in your company?
Whilst in most companies innovation is focused on the end-product, at Marstrat we help companies to improve production processes for example by optimizing ICT and data management. Also, in the field of financing we are a gateway to innovative alternative funding sources, such as long-term money from institutional investors, matching the lifetime of maritime assets.

In what way does your company draw inspiration from nature?
We are inspired by a vessel sailing in open seas and this beautiful sight of nature and man-made asset continuously make us aware we should care for the environmental impact of economic activity. For all stakeholders of our industry ESG factors (Environment, Social, Governance) will play an important role going forward and as consultants we take that into consideration in our daily decision making. Yes, we are inspired by nature every day!

And what role does co-operation play?
We are a small organization and only through co-operation Marstrat is able to exist for our clients. We do this by sharing each of our individual expertise and to make use of our extensive and diverse network in the maritime commercial as well as public sector.

What does the Dutch maritime sector excite?
The Dutch maritime industry distinguishes itself through high quality products, innovation and being always open for business. The industry is internationally known for finding ways to make the unimaginable possible. This is what enables the Dutch to be the frontrunner in realizing world class vessels or equipment and solving complex maritime challenges.
This prize rewards distinctive business management in three separate fields: ship innovation, innovations with regard to corporate social responsibility/the human touch, and environmental science within maritime shipping. The award aims to further promote ship owners’ awareness of the ongoing greening of the fleet, more safety, higher efficiency and excellently trained crews.

THE NOMINEES ARE:

Sustainable employability policy by Nederlands Loodswezen BV

Nederlands Loodswezen helps transport as many as 90,000 ships a year safely through the ‘Aorta of Europe’. This results in by enormous pressure and Loodswezen is therefore fully committed to tailor-made work in sustainable employability of its workers. In the fields of well-being, development and health, Loodswezen is able to manifest a realistic and workable package which we deliberately opted for because one employee may have different needs than the other employee of the same age. This can have various causes that may be of a physical nature, but may also have to do with plans for the future. No person is the same in this sense. Because Nederlands Loodswezen has many instruments at its disposal, we can guarantee safety for both employees and pilots. This is also reflected in the rest of the sector. We work together for a safe harbour.
Windcat MK3.5 vessels by Windcat Workboats

Windcat Workboats developed a new generation of vessels, the MK3.5 series. Windcat made a radical step in further developing their state of the art CTV’s and managed to even further optimize them to transfer personnel offshore in even a safer, more comfortable and cost efficient way. This was primarily achieved by changing the hull shape, which is currently revolutionary within the sector. With this new hull shape that reduces drag and by lowering the weight of the vessel using carbon in the passenger area, together with the Windgrip system. Windcat reduces their emissions up to 40 % compared to competing CTV designs, while increasing the speed and seakeeping performance. The MK3.5 vessels are nominated for this award because it sets a new standard to the industry.

CARROUSEL RAVE TUG by Multraship & Novatug

The CARROUSEL RAVE TUG (CRT) is a giant leap forwards in overall shipping performance. Providing enhanced control and speed during cargo ship turnaround in ports. The CRT cannot capsize by towline force. This in turn means it can execute unique and very effective maneuvers that are out-of-bounds for any conventional tugboat. The CRT is different: cleaner and stronger, faster and safer. It uses the mass and momentum of the assisted ship to do its job. It has been two decades in the making and now it is optimal. This marks the beginning of shipping 2.0. Novatug puts thrust in nature.
What role does innovation play in your company?  
The NNPC is a mutual underwriter whose core focus is the interests of its members. This requires that we establish long-term relationships and in order to do so maintain a strong focus on product leadership in our business philosophy. We strive to develop our insurance products, solutions and services in order to match our members’ changing needs.

In what way does your company draw inspiration from nature?  
Social and ecological considerations play an important role in our business model and investment strategy. Our investments are geared towards achieving sustainable growth, with a limited carbon footprint and in accordance with the UN supported Global Principles for Responsible Investment.

And what role does co-operation play?  
As a mutual P&I insurer, co-operation has always been an essential part of our philosophy. By listening to the needs of our members and responding to the market we are able to deliver the best in risk protection and costs management. To do so requires that we develop shared goals and shared solutions with our members, reinsurers and suppliers.

What does the Dutch maritime sector excite?  
The NNPC is proud to be part of the Dutch maritime sector where that spirit of co-operation has allowed us to remain at the forefront of innovation and product development through difficult times. The Maritime Awards Gala offers the opportunity to recognise and reward the best our industry has to offer and we wish everyone a wonderful evening!
A prize created for young maritime designers with an innovative – renewing – approach. The entries may vary from an original design method for a ship type to onboard technical systems. This award is supported by the Secretariaat Samenwerkende Maritieme Fondsen (Dutch Secretariat of the Joint Maritime Funds).

THE NOMINEES ARE:

Gijsbert van Marrewijk (Berthan Research) with a study on the application of T-foils under fast ships

Gijsbert van Marrewijk designed the hydrofoils of the TU Delft Solar Boat 2014. To minimize power consumption, his design uses two wings and bicycle stability. At 55 km/h (30 knots), it uses as much power as two water kettles.

With Johan Schonebaum, he modelled and validated the dynamics to predict hydrofoil behaviour. Thanks to this, these boats can be simulated accurately without spending money on prototypes.

Gijsbert is convinced that sustainable and comfortable passenger transport over water will be done with hydrofoils. With Johan, he is now working to bring this vision into reality with their start-up company Berthan.
Roy de Winter (C-Job Naval Architects) with a method to accelerate the ship design process

Accelerated Concept Design is a ship design optimization method that is implemented at C-Job Naval Architects which makes the traditional design spiral obsolete. It automatically optimizes ship design aspects in a short amount of time.

The optimization process is guided by optimization algorithms and high dimensional data structures that model the design space. These models can be used to propose new design variations.

The result of the optimization process is a collection of optimized design variations which support the designer in mitigating the design innovation risks and making transparent and informed multidisciplinary decisions allowing for better and more innovative designs.

MARITIME WEEK 2018

The Maritime Awards Gala is part of the Maritime Week (10 – 17 November 2018). The Maritime Week is an annual event, highlighting all aspects of the maritime sector. The Maritime Week is committed to sharing knowledge and experiencing the educational and career opportunities within the maritime sector.

FOLLOW MARITIME AWARDS GALA ON SOCIAL MEDIA #MARITIMeweek
For the first time in the history of the Maritime Awards Gala a large group of Young Professionals is present. Young Professionals who are for some time working in our sector or still studying with interest for maritime innovation and the network. Host is Liana Engibarjan (vlogger and inland shipping influencer). Peter Paul van Voorst tot Voorst (founder of Skoon Energy BV) also enters the stage to inspire the Young Professionals with his experiences. The reception and after party take place at the same time, so there is much opportunity to network together.
What role does innovation play in your company? 
We have been in the ship automation business for well over half century. We offer a full range of innovative solutions to our customers, all fully developed and manufactured in-house. Our expertise extends from automation and navigation systems to environmentally Green Propulsion technology. We consider our innovative products to be essential in our company’s continuity in the maritime sector.

In what way does your company draw inspiration from nature? 
Nature inspires us every day. That’s why we consider it our duty to take good care of our biosphere and to ensure that our products contribute to reducing carbon emissions and global warming. Our new Green Propulsion Technology for electric and hybrid ships meet our customers’ demands to minimize negative effects of shipping to the environment.

And what role does co-operation play? 
As a customer-focused company a good working attitude inside the company and towards the customers is a must. Mutual respect, trust, understanding, and transparent communication are the ingredients of a successful organization. Working together, sharing experiences and making turns is beneficial to all involved.

What does the Dutch maritime sector excite? 
The Dutch maritime sector is highly competitive at international level. A key characteristic that defines Dutch culture in the maritime sector is the innovative, open minded nature. Also the co-operative team player attitude and organized character plays an important role. The products are durable, and the most important aspect is the commitment, attention and respect given to the client.
MAP TAE 

ENTRANCE TO RECEPTION AFTER PARTY/ YOUNG PROFESSIONALS PARTY  

REGISTRATION CLOAK ROOM  

DINNER TOILET  

ENTRANCE
FROM AMSTERDAM

> Ring A10, to Zaanstad.
> Exit Oostzaan, Zaandam-Zuid, Het Twiske.
> Turn right to N516/Kolkweg, to Kolkweg-Noord, Zaandam-Zuid.
> After 3 kilometres (after the Den Uyl bridge), turn left to N203 / Provincial road.
> After 250 metres (at the roundabout), turn left.
> Follow the road and signs to Taets Art and Event Park.

FROM THE NORTH

> A8 to Amsterdam.
> Exit Oostzaan, Zaandam-Zuid, Het Twiske.
> Turn right to N516/Kolkweg, to Kolkweg-Noord, Zaandam-Zuid.
> From here, see route Amsterdam.
What role does innovation play in your company?
We have been at the frontier of engineering innovation for 184 years. Today, we are experimenting with emerging innovations, to help enable our vision of enabling sustainable societies with smart technologies. We initiate several settings of how this will draw politicians, scientists and the business together to discuss the ideas and technologies to work together to realise a Smart Marine Ecosystem and a sustainable future for the shipping industry.

In what way does your company draw inspiration from nature?
‘An oceanic awakening’ is a global movement focused on the radical transformation of the world’s marine and energy industries into one supremely efficient, ecologically sound, digitally connected and collaborative ecosystem. www.SEA20.org is an international forum for the world’s foremost Smart and Ecologically-Ambitious marine cities, dedicated to making this happen. It’s the adoption of and deployment of best practises, legislating new environmentally friendlier, sustainable and smarter ways of doing business across our oceans. SEA20 is a not-for-profit initiative that is made possible by Wärtsilä.

And what role does co-operation play?
Wärtsilä’s purpose is enabling sustainable societies with smart technology. “The calls for greater efficiency, sustainability, and connectivity are simply too strong to be ignored. Rapid acceleration to benefit the entire sector, as well as society at large, is urgently required, and ‘An Oceanic Awakening’ is our wake-up call to everyone, heralding the beginning of our journey to making the future of shipping and energy a reality.”

What does the Dutch maritime sector excite?
The Netherlands is a maritime nation. With Rotterdam, the Netherlands boasts the largest port in Europe, the Dutch inland shipping fleet has the largest European market share, the Netherlands is the main producer of super yachts and the Dutch offshore and hydraulics sectors rank among the world top. This gala shows that we all find it important to share our successes and innovations.
**WINNERS 2017**

**ABOUT THE MARITIME AWARDS:**

"Wonderful to see that my graduation work has grown and developed like this"

Marijn Hage (Nevesbu) won the Maritime Designer Award 2017 with his ‘Abstract Volume Estimation Tool’

"Nice entry on my curriculum vitae"

Sub-Lieutenant Jordy San José Sánchez won the Maritime RNLN Van Hengel-Spengler Award 2017 for his research into improving and automating the Target Motion Analysis (TMA)-process

"This award is really a confirmation that we have made great steps in terms of sustainability and efficiency"

Wagenborg Shipping won the KVNR Shipping Award 2017 with the versatile, innovative and ‘green’ cargo ship Egbert Wagenborg. This new EasyMax type ship has generated much employment in the Netherlands

"Extra incentive to continue innovating"

Multi mission Unmanned Surface Vessel (USV) ‘Seagull-301’ – designed and built by De Haas Maassluis BV and Ginton Naval Architects BV – won the Maritime Award KNVTS Schip van het Jaar 2017

"An encouragement to continue with innovation and development"

KOTUG International won the Maritime Innovation Award 2017 for their Heat recycling and storage system

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