



# EThekweni Maritime Cluster

## Inside this issue

◆ MD Message	1
◆ South African Maritime Sector Welcomed US Cadets	2
◆ A Successful Maritime Cultural, Experiential Exchange	3
◆ EMC programmes	4
◆ EMC philosophy	5
◆ Industry related news <b>Breaking Boundaries For SA maritime Industry</b>	6
◆ Message From Staff & Management!!!	7

In 2019, it is indeed a year of education, adaptation and co-creation for us at EMC, most important we reflect on where the organisation has come from as we commemorate a decade since EMC's establishment and evaluating the growth of its operations within the Durban maritime industry. Throughout embarking navigation and demarcation we thank the stakeholder's support and the staff dedication over the years that has landed us to a decade within maritime space. We grow stronger while keeping the momentum and maintain Maritime Cluster mandate relevant to the Maritime industry at large and the Durban community as we collaborated and assist in channelling and bringing information pertaining this industry to the people and embrace transformations within this sector.

EtheKweni Maritime Cluster is also intends to contribute immensely in bringing innovation to the forefront of doing business at the port in this industry as moving towards the fourth industrial revolution. The Cluster encourage every young innovative thinker within the sector of expertise to be an ambassador of change and be of spearheading the innovations for sustainable blue oceans economy. In doing so, EMC has partnered with Innovate Durban for an annual challenge where young innovators collaborate in solving real maritime operations related issues. The significant of this development and innovative initiative is to encourage maritime research and provide problem solving for a sustainable economic growth of this industry. We welcome all of the captains of the maritime industry and relevant stakeholders to 2019. Together, we can make a change. As the year begins let promote, position and create placements for the blue oceans economy for the betterment of our communities.



*Message from the MD*

At EtheKweni Maritime Cluster (EMC), 2019 is a year where we bear the great honour of embracing the developments of this sector in Durban be at a global standard hence we began this year in a noteworthy manner by hosting the Massachusetts Maritime University Cadets for a cultural exchange programme. This was a significant occurrence for the maritime industry as it provided a platform for the cadets to share their knowledge and best practices implemented in the United States. This will add a value in to maritime infant businesses, maritime education and also benefits high schools that teach maritime related studies as a subject of choice.

Inside this issue, you will indulge in reading about new maritime developments such as the US Cadets visit to Durban with Dr Fikile Portia Ndlovu. You will also reading more about Maritime innovations, Maritime R700 million investment milestone by the visionary Entrepreneur Mr. Aldworth Mbalati. Lastly Read on the new years wishes from EMC staff & management .Inclosing from myself as Acting Managing Director of EMC, wishing all our partners and stakeholders a prosperous and productive and sustainable 2019. I look forward to a continued working relationships and more interactions with you.

## South African Maritime Sector Welcomed US Cadets



*Pictured above South African Maritime Stakeholders from Transnet, DoE, EThekweni Municipality, Higher Education Institution Dignitaries with EMC's Acting Managing Director Welcoming session for Massachusetts Maritime Academy Cadets and Dr Ndlovu .*

*Pictured above the Massachusetts Maritime Academy Cadets in Morningside .*

**M**assachusetts Maritime Cadets from the United States of America (US) Cultural and learning exchange welcoming session commenced on the 14th of January 2019 at the EThekweni Maritime Cluster (EMC) boardroom. It started off with EMC Acting Managing Director Mrs. Nomalanga Sokhela welcoming the Cadets and taking them through the overview of the port of Durban, the City and its interaction with the community. The city of Durban strives to be a smart port city, port for the next generation and a way of life. "Ports as a way of life, ports as a way of business," said Mrs. Nomalanga Sokhela of EMC, these formed part of her opening words and she continued to highlight ports as a point of connection with the world through global trade, good, services as well as cultural exchanges. This was then followed by an informative presentation from Mr. Eric Apelgren (Head: Intergovernmental relations) where he covered the overview of the Department of Education, the city of Durban and its developments. Durban is hosting 14 US Cadets and Dr. Portia Fikile Ndlovu for experiential learning that will embrace the diversity of the city of Durban and enhance maritime knowledge as they will impart information with surrounding schools. The day concluded with the US Cadets proceeding to a tour of Durban through the hospitality of Durban Tourism.

This programme aims to enhance mutual understanding of cultural exchange among the people of South Africa and the United States of America. During their training, cadets are given an option to visit a country for choice of cultural exchange. This time they chose the city of Durban. The programme is structured to maximize exposure of the cadets to South Africa, Durban through cultural knowledge sharing.

Durban learners, especially for maritime, stand a good chance to learn more about the maritime sector. It is aimed to support township schools as US Cadet would be visiting schools and exploring the port of Durban This is an annual event that aims to enhance mutual understanding of cultural exchange among the people of South Africa and the United States of America. The programme is structured to maximize exposure of the cadets to South Africa, Durban through cultural and knowledge sharing.

Durban learners, especially for maritime, stand a good chance to learn more about the maritime sector through the school visits conducted. Thus paving the culture of exploration and experiential learning that focuses on the maritime-related study. After presenting their overview outcome of this cultural exchange at the EMC Boardroom on the 30th of the January 2019, thus concluding their experience .

The US Cadets were in this city for the three weeks. They return home on the 31st of January 2019. EMC champions and advocates for the maritime industry within Kwa-Zulu Natal (KZN), through bridging the skills gap in the maritime sector thereby unleashing the blue economic through ensuring that the maritime industry opportunities are accessible to all communities.



*Pictured above the Massachusetts Maritime Academy Cadets in Morningside .*

## A Successful Maritime Cultural, Experiential Exchange



*Massachusetts Maritime Academy Cadets and Dr Ndlovu with Innovate Durban*



*Pictured above Transnet School of Excellence (MSoE) Employees with Dr. Ndlovu at Durban MSoE*

The US cadets wrapped up their cultural exchange in South Africa with a tour of the Port of Durban at the Transnet National Ports Authority (TNPA) of which was facilitated by Mr. Khulekani Xaba (Port Planner). Their morning began at the TNPA offices where a presentation consisting of a Port Overview and how TNPA is an integral operating division of Transnet Soc LTD. Mr. Xaba went on to explain TNPA's core competencies inclusive of rail, ports, pipelines and supporting system. Services available such as maritime operation, port infrastructure, dredging operations, lighthouse as well as navigational services were conveyed. Elements of the supporting core functions were highlighted such as Transnet Capital Project that deals with project management and development of the relevant skills with this regard, Transnet Property and the Transnet Foundation that offers bursary opportunities.



*Pictured above Massachusetts Maritime Academy KwaZulu-Natal Sharks Board*

The tour of the Durban Port was followed by a review session at eThekweni Maritime Cluster (EMC), this is where the US cadets shared their sentiments and what they have gained from this year's cultural exchange over the three weeks spent from the 11th to the 31st of January 2019. The programme is structured to maximize exposure of the cadets to South Africa, Durban through cultural knowledge sharing and experiential learning. They expressed the importance of partaking in cultural exchanges with regard to opening one's mind in a global context to compare and

contrast. For many, this was an experience of a lifetime, an amazing opportunity that was eye-opening as well as rewarding on how everything that engaged on translated to their maritime business major thus drawing a lot from the cultural exchange. A highlight for many was engaging in the youth programme at the Westville Correctional Centre and the township school visits, they felt the drive of young people in South Africa regardless of their circumstance and attentive interest in maritime studies and industry at large was nothing short of inspirational. There was a shared consensus of the gratitude towards EMC on coordinating the programme. In closing of this session Mrs. Nomalanga Sokhela remarked, "This was humbling reflection from our side and we take the maritime industry as our point of connection and platform to connect globally", she went on to encourage the maintaining of a healthy relationship with not only EMC but the schools that were visited in developing sustainable programmes. She wishes them the best for their academic development and safe travels back to the United States of America.

As avid advocates for the maritime industry within Kwazulu-Natal, through bridging the skills gap in the maritime sector and ensuring that maritime industry opportunities are accessible to all communities. EMC champions initiatives that promote the blue ocean's economy.



*Pictured above Massachusetts Maritime Academy cadets at Bidfriegt Port Operations*

### Graduate placement programme

**E**thekwini Maritime Cluster (EMC) graduate placement programme under its training and skills units unlocks more opportunities for young graduates to maintain buoyance in the work force. This is a continuation of the programme from the 2018 recruitment. It has established a mission of changing the lives of 39 young first time employees to get work exposure within their relevant market related fields. The objectives of this initiative is to actively assist graduates to obtain experience within the maritime industry. Ultimately, retaining such skill within the Maritime Sector would be ideal.

EMC in ensuring the deliverables of this objective has collaborated with many institutions, and departments such as Transport Education Training and Authority (TETA). The placement is expected to continue in 2019. EMC is determined in assisting on lowering the staggering high rate of unemployment. This key initiative uplifts young graduates who are looking to get exposure of labour markets and in doing so it also contributing self-betterment of the society individuals.

The graduate placement initiative unlocks opportunities for many candidates that excel thus increasing the possibility of being absorbed into permanent positions. It provides quality training and mentorship in the critical stage of bridging the gap of theory into practical. Having a smart port is the goal and creating an environment where individuals can grow is essential

### Enterprise and Supply development programme

**E**MC, in uplifting not only the youth but the unemployed at large has the Enterprise Development Programme that facilitates the development and support of targeted emerging enterprises enabling them to operate within the maritime industry. Thus promoting the culture of self sufficiency while contributing to the industry.

This programme is positioned to spearhead economic transformation in the maritime sector through enterprise development initiatives, by identifying projects and business opportunities that can benefit small businesses, which include youth and women in business, assisting the transformation agenda in the maritime industry. Till date EMC has directly impacted over 40 small business who have in turn been able to create employment opportunities, thus increasing the scalability of the programme's indirect impact.

To increase the effectiveness of the enterprise development programme, EMC has called upon the Senior Experten Service (SES) in Berlin, Germany. To suit the current operations of EMC, SES has sent one of its best candidates, Mr Sanden. During his stay in South Africa for the next two months, he will be assisting EMC in re-engineering its operations and strengthening corporate governance in an advisory role in line with his expertise. He hopes to build on the proposed education and graduate placement programme and offer guidance by putting forward his experience.

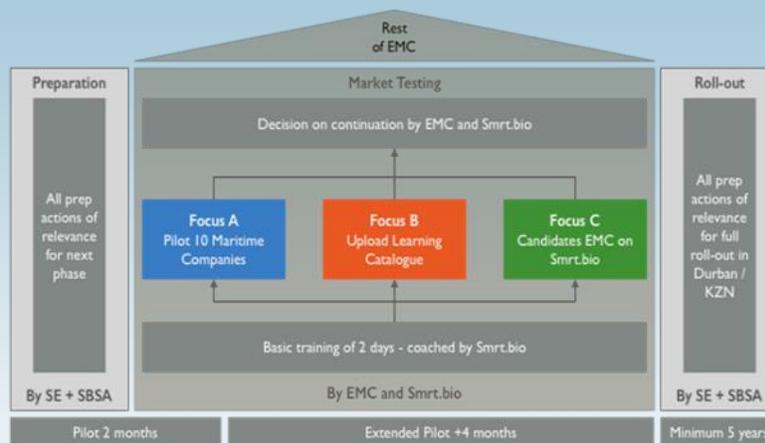
He would like to look into the Cluster system by possibly improving if necessary the manner in which it manoeuvres. Giving hints on getting funding for interest parties by exploring untapped industrial sectors of present such as the automobile, construction, freight forwarding, logistics, and the trading industry. Therefore this visit will serve as a pivotal cultural and business relation exchange for both the SES programme and EMC.



*Pictured above EMC's Programmes manager Ms. Zenzile Makelo (Left) and SES Expert Mr Sanden (Right)*

As EMC we believe we can do more in 2019 with the industry's support and efforts in cohesive collaboration. This will be ensured by unlocking more career opportunities for the youth that seek to gain knowledge of the industry. We are appealing to industry stakeholders who wish to partner in these initiatives. By receiving this support, we can improve the graduate placement programme and produce more success stories in our enterprise development programme.

# SMRT.BIO



**E**Thekwini Maritime Cluster (EMC) underwent an impact assessment. This was to see how EMC has impacted communities. Thus fostering a need to adapt, be responsive and mitigating against identified gaps. This resulted in the adoption of results based thinking as a way of doing business going forward. For EMC to have more success it has to carry the mandate of results based thinking to harness the culture of innovation, to sharpen focus and eliminate tasks that do not add value will aid in clarifying what EMC is looking to achieve. The clearer EMC can define the desired outcome, the more likely for it to be achieved.

In adopting a results based thinking, the theory of change is intertwined in the navigation process in mitigating the identified gaps. It is a methodology of effective planning, participation and evaluation that is most commonly used in Non-Profit organizations and the public sector to promote social change. This is achieved by defining long term goals and then mapping backward to identify necessary preconditions in a particular context of an outcomes framework. By utilizing this approach the precise link between activities and the achievement of the long-term goals are more fully understood. This leads to better planning and evaluation, as it is possible to measure progress beyond the identification of program outputs.

An essential part of implementing projects and initiating project activities, is design thinking. Spearheading innovation at the Durban port, EMC plays a pivotal role of bridging the gap between communities, employers and employees. EMC is using the methodology of design thinking by captaining a solution-based approach to solving problems at the Durban port. This achieved by learning the audience and constructing a perspective based on human needs involved. By adopting an “all hands on deck” approach by brainstorming Creative solutions are a representation of the idea that is brought to life in the form of prototype for piloting and put to the test.

As aforementioned, EMC keeps their finger on the pulse with regard to innovation in the industry, harbouring the culture of collaboration in bringing first world technology to the South African maritime industry. SMRT.BIO has taken the decision to implement their Total Talent platform in South Africa. To make this all happen, SMRT.BIO has started to build relationships with representatives of eThekwini municipality and the National Government (DTI). EMC was approached by the Netherlands with regard to this initiative. Implementation of SMRT.BIO will serve the purpose of utilizing passion assessments by providing a platform to connect the community, employees and employers to the education institutions. The first goal of this platform is to implement the Supporters Desk in eThekwini region. From this location, it serves all stakeholders on the labour market in the region as a reference site for other regions in South Africa and ultimately for other countries on the African continent. Within the first phase, preparation activities will be executed in close cooperation with SmartXchange and EMC. The roll-out is to be based at SmartXchange and all relevant EMC information will be made readily available on this platform.



*Pictured above : Ms Mmamoloko "Nkhensani" Kubayi-Ngubane , Minister of Science and Technology*

*Original Article by : Eric Mabuza of Times live*

### Cutting edge innovation to benefit the maritime industry

South Africa's most advanced nanosatellite to date, the ZACube-2, was successfully launched into space on the 27<sup>th</sup> of December 2018 with the Russian-operated Soyuz Kanopus-V mission from Siberia, Russia. Science and technology minister Mmamoloko Kubayi-Ngubane described the launch as a milestone for the country's space programme. It will be orbited as a secondary payload in a launch mission designed for real-time monitoring of natural and man-made disasters, other emergencies thus increasing response time by disaster management teams as well as monitoring ocean traffic as a part of the oceans economy. Described as the most advanced of its kind on the continent, the ZACube-2 will provide remote sensing and communication services to South Africa and the region.

The project is funded by the department of Science and Technology. It is managed by the South African National Space Agency in cooperation with the University of Montpellier in France, the French Embassy and the Paris Chamber of Commerce. "The launch of ZACube-2 represents a significant milestone in the nation's ambition to becoming a key player in the innovative," said Kubayi-Ngubane. Science helping us resolve the challenges of our society and in the maritime industry. The team that was responsible for building the satellite was based at the Cape Peninsula University of Technology, where maritime studies are conducted hence its relevance to this particular launch.

The Department of Science and Technology's Deputy Director-general, Mmboneni Muofhe, says this is a new chapter in SA's technology sector. This innovation is going to be inclusive of surveilling and reporting on the ships that are on our shores. When there is a sense of which ships are on South African shores, it can be communicated in identifying which ones are here legally or illegally. This will be implemented with the intention of protecting the South African ports from trespassers.

### Durban port to benefit from R700 million vision of local entrepreneur



*Pictured above Aldworth Mbalati*

*Original Article by: Bob Whitehouse January 23, 2019, South African Shipping News*

Mbalati, at the forefront of the Liquefied Natural Gas (LNG) revolution, is passionate about this mammoth task of a project benefitting the South Africa economy. "Yes, I could have gone to China to have the barge built but I wanted to have it built in South Africa as it is important to create jobs. The money that is being kept in the country will allow South Africa to achieve higher economic growth," he explained. "Our success must be South Africa's success." The 143m long and 34m wide state-of-the-art barge will be the only one of its kind in the world.

Having commissioned Southern African Shipyards (SAS) in Durban's Bayhead to build the barge, the first steel plate was cut for the vessel to be called "DNG Genesis"-at a symbolic steel-cutting ceremony, which also saw the first piece of steel cut for the South African Navy's new hydrographic survey ship at SAS. Approximately 650 people will be employed on Mbalati's current projects, and thousands of indirect jobs will be created. "This is the precursor of something amazing; its history in the making," Mbalati said. The barge, which will have a crew of 40, is expected to be completed by the end of the year.

DNG Energy is planning to invest more than US 5 billion dollars in creating a Pan African LNG supply network over the next five years. It is an ambitious plan which will mean work for thousands of people. The company has a floating storage terminal and the idea is that LNG from exporting countries will be stored at the terminal and then offloaded onto the Durban-made barge which "as the workhorse" will operate in Southern Africa waters, transporting energy



*The eThekwini Maritime Cluster (EMC) is a non-profit company that was launched in 2009. The EMC provides a platform for collaborative engagement between different levels of government, state owned enterprises and the maritime community to implement programs of common interest that support the growth and improve performance and competitiveness of the maritime industry.*

For maritime related news or events that you would like published on this newsletter or our website please contact:

Nomfundo Sithole

Tel: 031-3010950

Cell: 0827391994

Nkosingiphile Ntshangase

Cell: 076 848 2170

[nomfundo.sithole@maritimecluster.co.za](mailto:nomfundo.sithole@maritimecluster.co.za)

[www.maritimecluster.co.za](http://www.maritimecluster.co.za)

**1601 The Marine  
22 Dorothy Nyembe Street  
Durban  
4001  
[www.maritimecluster.co.za](http://www.maritimecluster.co.za)  
[info@maritimecluster.co.za](mailto:info@maritimecluster.co.za)  
031-3010950/9**



Ethekwini Maritime Cluster



@emc\_maritime

*Newsletter compiled and designed by : Nkosingiphile Ntshangase & Nomfundo Sithole*