

OFFSHOREMARINE

A newsletter of Keppel Offshore & Marine

May – June 2013

MICA (P) 137/12/2011

45TH KFELS B CLASS



CONTENTS

Super ace delivery	3
New harsh environment semisubmersible for Azerbaijan	4
Laurels for Mexican rig	6
Speedy production	9
10 rigs in five months	10
The world: our challenge, our oyster	11
Stepping up wind power	12
Match made in Brazil	13
Warm ties at OTC	16
Safety recognition	18
Global learning	29
Renaissance man	30
New lease of life	36
Another B Class for Vietnam	40

CENTRESPREAD

45th KFELS B Class jackup rig	20
-------------------------------	----



Coinciding with Keppel Corporation's 45th anniversary, Keppel FELS delivered its 45th KFELS B Class jackup rig since the design was launched in 2000. The 45th rig was delivered to Saudi Arabian customer, Arabian Drilling Company, 14 days ahead of schedule, on budget and with a perfect safety record.

EDITORIAL BOARD

EDITORIAL ADVISOR

Tong Chong Heong

EDITOR

Lai Ching Chuan

ASSISTANT EDITOR

Eva Ho

SUB EDITOR

Lee Wan Jun

COMMITTEE MEMBERS

Chow Yew Yuen, Michael Chia, Wong Kok Seng, Chor How Jat, Hoe Eng Hock, Dr Foo Kok Seng, Aziz Merchant, Vett Ramos, Gerlynn Cai, Ching You Yi, Cheryl Goh, Hoo Yao Lin, Chin Sze Kiun, Alan I. Claveria, Betty Mok, Lucienne de Jong, Li Gang, Linda Mercado, Clement Lim, Roy Tan, Jocelyn Chan, Priscilla Chong, Fairuz Aledroos

OffshoreMarine is a bi-monthly publication of Keppel Offshore & Marine Ltd
50 Gul Road, Singapore 629351
Tel: +65 6863 7200
Fax: +65 6261 7719 / 6265 1927

Company registration no. 199900642R

Keppel Offshore & Marine is a subsidiary of Keppel Corporation

Celebrating with Keppel Corporation



Super ace delivery

Keppel FELS has delivered its first KFELS Super A Class jackup rig to Discovery Offshore, which is managed by NASDAQ-listed Hercules Offshore.

Named Discovery Triumph at a ceremony on 8 June 2013, the rig was delivered 46 days ahead of schedule and with a perfect safety record.

The ultra high-specification jackup rig has been designed for the harsh environmental conditions of the North Sea (UK Sector). Its enhanced leg design incorporates Keppel's proven and reliable high capacity rack and pinion jacking system which ensures that the rig is able to jack up and stand firm in a secure and safe manner even in challenging environments.

Mr Wong Kok Seng, MD (Offshore), Keppel Offshore & Marine (Keppel O&M) and MD, Keppel FELS said, "In developing the KFELS Super A Class, we have brought together the winning features of our proven jackup rig designs to provide operators with a robust and cost-effective drilling rig for harsh environments and cold climate areas. We are pleased that Discovery Offshore has selected this design for their first two harsh environment rigs.

"Although it is a new design, our expertise and strong engineering, construction and project management experience has enabled us to deliver it ahead of schedule while achieving an excellent safety record. We look

forward to deliver the second KFELS Super A Class to Discovery Offshore just as efficiently."

Developed by Keppel FELS' research and development arm, Offshore Technology Development (OTD), the KFELS Super A Class is an enhancement of the successful and proven KFELS A Class design. Discovery Triumph has been customised to meet the requirements of Discovery Offshore and is capable of operating in water depths of 400 ft and drilling depths of 35,000 ft.

Mr John T. Rynd, CEO of Hercules Offshore, added, "With the strong demand for rigs capable of working in the North Sea, we believe the KFELS Super A Class' value proposition is its leading performance compared to ultra high-specification jackups of its class. It provides higher variable load, better drilling capabilities, better cantilever load performance and a larger deck space. Keppel-designed rigs have a strong track record of being industry benchmarks and we are confident that Discovery Triumph will be just as successful and exceed the expectations and requirements of our customers.

"As this North Sea-compliant rig is able to operate efficiently in virtually all parts of the world outside Norway and the Arctic, we also see many opportunities for it to be deployed in other parts of the world to generate maximum utilisation. With another KFELS Super A Class rig about to



Discovery Triumph, the world's first KFELS Super A Class rig, is a robust and cost-effective drilling rig for harsh environments

join Discovery Triumph later this year, we are well positioned to become a strong player in harsh environment drilling."

Keppel FELS is currently building another KFELS Super A Class jackup rig, Discovery Resilience, for Discovery Offshore as well as another three for Enesco.

New harsh environment semisubmersible for Azerbaijan



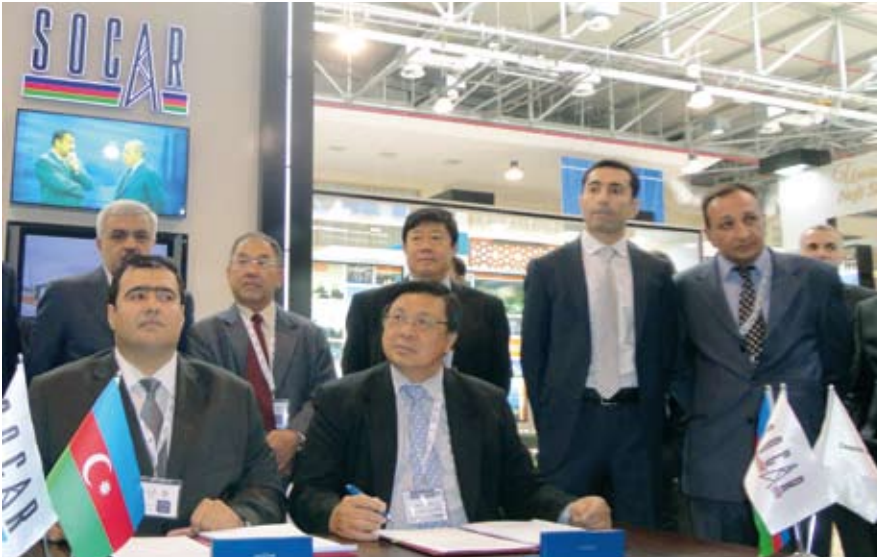
Lending his weight to the significant milestone of building a new semisubmersible is the President of Azerbaijan, H.E. Mr Ilham Aliyev (centre) and his wife Mrs Mehriban Aliyeva (second from left), together with Mr Wong Kok Seng (far left), MD (Offshore) of Keppel O&M and MD of Keppel FELS, Mr Tong Chong Heong (fourth), CEO of Keppel O&M, Mr Chow Yew Yuen (fifth), COO of Keppel O&M and Mr Farid Akhundov (far right), General Director of CDC



Senior management of Keppel O&M taking a picture against a portrait of H.E. Mr Heydar Aliyev, the former President of Azerbaijan and father of the current President, H.E. Mr Ilham Aliyev, in respect of his achievements

Keppel Offshore & Marine (Keppel O&M) through its subsidiaries Caspian Rigbuilders (an affiliated company of Keppel FELS) and Caspian Shipyard Company (CSC), secured a contract on 4 June 2013 from Caspian Drilling Company (CDC), a subsidiary of the State Oil Company of Azerbaijan Republic (SOCAR), to build a semisubmersible drilling rig, which includes owner furnished equipment, worth about US\$800 million.

Scheduled for delivery in 4Q 2016, the rig will be built to Keppel FELS' proprietary DSS™ 38M design, which has been customised for the Caspian Sea's harsh environment.



Mr Farid Akhundov (seated, left), General Director, CDC and Mr Wong Kok Seng (seated right), MD (Offshore), Keppel O&M and MD, Keppel FELS, signing the contract to build the new state-of-the-art DSS™ 38M semisubmersible, in the presence of (standing, L-R) Mr Rovnag Abdullayev, President of SOCAR, Mr Tong Chong Heong, CEO of Keppel O&M and Mr Chow Yew Yuen, COO of Keppel O&M

The DSS™ 38M is designed for a drilling depth of up to 40,000 ft and operations in 1000m water depth. To meet the customer's requirements, it has been outfitted to include an 800m self-contained eight-point mooring system designed to meet high wind speeds in the harsh Caspian environment. The pontoons have been designed for the rig to transit in channels with shallow draft of less than seven metres.

Mr Tong Chong Heong, CEO of Keppel O&M, said, "Keppel O&M will harness the synergies of its global network of yards in the design and construction of this rig."

Keppel's yard in Azerbaijan, CSC, will carry out the fabrication, integration, testing and

commissioning of the rig while its joint venture yard with SOCAR, Baku Shipyard LLC, will undertake part of the fabrication of the pontoons and columns. Keppel FELS will provide engineering, procurement and technical support.

"Keppel O&M has built a strong track record in delivering significant projects for Azerbaijan and this latest order is an affirmation of our abilities to deliver to our customer's need. Having operated in Azerbaijan since 1997 and developed a strong partnership with SOCAR, we understand the requirements of rigs to operate in the Caspian environment.

"This is an important market with great potential which is why we

have added another yard, Baku Shipyard, to our capabilities here. Together, our yards are able to provide value-added solutions and extend our offerings for the Caspian Sea. We have tailored the DSS™ 38M design as a cost-effective rig equipped with the latest safety and environmental features to operate efficiently in the Caspian Sea," added Mr Tong.

Jointly developed and owned by Keppel's Deepwater Technology Group and Marine Structure Consultants, the DSS™ 38M design is an enhanced design of the successful DSS™ 38 rigs that are operating in Brazil.

The President of SOCAR, Mr Rovnag Abdullayev, said, "We are keen to expand our offshore drilling programme to drill wells such as the Babak and Absheron fields in addition to the Shah Deniz field. We have ordered the first of our new next-generation rigs from Keppel. We are confident that the Keppel-designed rig is a robust and efficient rig that will increase our offshore drilling capabilities."

The Caspian Sea holds a tremendous amount of untapped oil and gas reserves, and Azerbaijan is the largest offshore producer in the region of both oil and gas. SOCAR stated recently that it intends to build more rigs in the near future.

Laurels for Mexican rig



Celebrating the naming of Laurus are the teams from Keppel, Oro Negro and PEMEX including (first row, L-R) Mr Luis R. Corzo, President of the Executive Committee, Oro Negro; Mr Tong Chong Heong, CEO, Keppel O&M; Lady Sponsor, Ms Cecilia R. Corzo; Guest-of-Honour, Mr Alejandro Pescador, Chargé D'Affaires, Embassy of Mexico; Dr Lee Boon Yang, Chairman, Keppel Corporation; (2nd row L-R) Mr Chow Yew Yuen, COO, Keppel O&M; Mr Baudelio Prieto, Deputy Director of the Drilling Business Unit, PEMEX; Mr Choo Chiau Beng, CEO, Keppel Corporation and Chairman, Keppel O&M; Mr Gonzalo Gil White, CEO, Oro Negro

Keppel FELS has delivered a second KFELS B Class jackup rig to offshore Mexican oil field services company, Integradora de Servicios Petroleros Oro Negro (Oro Negro) eleven days early and with a perfect safety record.

The rig was named Laurus – which means Victory in Latin – at Keppel FELS on 16 May 2013.

Laurus is the second of two high-specification jackup rigs that Keppel FELS has built for Oro Negro which will be chartered to PEMEX, Mexico's national oil company, for deployment in offshore Mexico. The first rig, Primus, was delivered in December last year.

Mr Wong Kok Seng, MD (Offshore) of Keppel Offshore & Marine and MD of Keppel FELS, said, "We

have built a win-win partnership with Oro Negro and are pleased to deliver another rig to them ahead of time, safely and within budget. This delivery is the eighth by Keppel FELS this year and, in a year where we aim to deliver a record 20 rigs, highlights our abilities and commitment to meet the needs of our customers.

"Laurus is the second of 10 KFELS B Class jackup rigs which we are building for Mexican customers. It strengthens our track record as the leading provider of offshore drilling solutions for the Mexican market. In addition, we have delivered a number of significant projects to the region over the years and we look forward to continue to support Mexico's Exploration & Production programme with high quality offshore rigs."

Mexico is one of the 10 largest oil producers in the world, with close to 14 billion barrels of oil in reserves as of 1 January 2013. PEMEX plans to invest up to US\$25.3 billion in 2013, of which US\$20 billion will be targeted at upstream activities.

Mr Gonzalo Gil White, CEO of Oro Negro, said, "With the early delivery of Laurus, we now have two premium jackup rigs ready to service PEMEX and the Mexican market. The country has a requirement for more of such rigs to fully exploit its offshore oil fields and the deployment of these two high-specification KFELS B Class rigs positions us well to meet this demand even as we look to grow our fleet.

"We are pleased that Keppel FELS has once again exceeded our



Celebrating the keel laying ceremony of Yunuen are (L-R), Mr Alex Talavera, ABS, Principal Surveyor; Mr Ting Shing Mau, Project Manager, Keppel FELS; Mr Wong Fook Seng, ED (Operations), Keppel FELS; Mr Kevin R. Smith, Site Manager, GL Noble Denton; and Mr Ognian Todorov, Project Director, GL Noble Denton

expectations with this successful delivery. Even with the addition of variation works to meet PEMEX's requirements, Keppel FELS was able to deliver this rig 11 days ahead of schedule, allowing our customer the opportunity to deploy the rig earlier to expedite their exploration programme."

Keppel FELS is currently building two KFELS B Class jackup rigs for PEMEX as well as another four for Grupo R and two for CP Latina. Its sister yard, Keppel AmFELS in Brownsville, Texas recently delivered a jackup rig to Perforadora Central in April 2013 with another due for delivery in 1Q 2014.

MILESTONES FOR MEXICO

Even as Keppel FELS delivered Laurus, the yard also celebrated milestones on two other rigs for PEMEX, Mexico's national oil company.

On 2 May 2013, B349 or Yunuen,



Cutting steel to mark the start of the construction of the Kukulkan jackup are Mr Wong Fook Seng (left), ED (Operations) of Keppel FELS, with Mr Baudelio Prieto (right) Deputy Director of the Drilling Business Unit, PEMEX

had a keel laying ceremony at Keppel FELS' crescent yard marking the smooth progress of the rig's construction. It is the first of two KFELS B Class rigs that Keppel FELS is building for PEMEX.

The second rig, B350 or Kukulkan, struck steel on 16 May 2013.

Witnessing the ceremony was Mr Baudelio Prieto, Deputy Director of the Drilling Business Unit, PEMEX, who was in town for the naming of the Laurus jackup rig for Oro Negro.

Continues on page 8..

Right on target



The first female Project Manager of a jackup drilling rig, Wong Xin Yi (right) stands proudly in front of her project, Laurus, together with the Lady Sponsor, Ms Cecilia R. Corzo

A former national sharpshooter, 31-year-old Wong Xin Yi has been on target as Keppel FELS' first female Project Manager handling the construction of a jackup drilling rig, delivering Laurus early and to the satisfaction of the customer.

As a young female Project Manager leading over 30 engineers and superintendents on the Laurus Project, she had to quickly prove her worth to her male colleagues, a lot of whom were more experienced.

She said, "It was challenging being a female in a predominantly male environment, especially as I had moved from the Marketing Department and did not have any prior production or engineering work experience.

"It was only natural that some of my counterparts were skeptical of my abilities. I had to prove my capabilities by working harder and getting up to speed quickly on the detailed aspects of the rig construction. I also had to show that I was not averse to the physical aspects of the role by working together with the team on site."

Xin Yi benefited from the many supportive people she met along the way. She shared, "I was fortunate to have very helpful colleagues and mentors guiding me along the way. While I may not know everything, being honest and making the effort to find solutions is what has helped me to gain the respect of both the owner and my team."

Xin Yi's previous marketing experience helped her in developing strong relationships. She had to work and connect with many clients from different countries and cultures. This enabled her to learn effective communication skills and understand the customer's

needs as well as develop the commercial acumen to achieve strong financial results on a project. When she joined the Project Management department in 2010, she took the opportunity to further exercise her skill sets.

"One of the key things for a project to be successful is learning how to manage a huge team with different personalities and strengths. In becoming a Project Manager, I had to hone not only my hard technical skills but also my soft skills, which I think I have an advantage in as a female," she quipped. "In this respect, I choose to adopt a more sensitive approach to manage the morale of the team and motivate them."

While Xin Yi had the support of a Senior Project Manager on the construction of the first Oro Negro jackup, Primus, she completed Laurus independently and is now ready to take on her next project – to co-manage a series of four newbuild jackup rigs for another Mexican customer.

As a trailblazer for females in the industry, the chemical engineering graduate looks forward to seeing more females follow in her footsteps and welcomes the opportunity to share her experiences with them.

Speedy production



Management of Keppel, EMAS Offshore, Hess Corporation and Petronas gather to celebrate the naming of FPSO Perisai Kamelia by Lady Sponsor Puan Hatijah Abdul Latiff (second from left, first row)

Keppel Shipyard will soon complete the fast-track modification and upgrading of the Floating Production Storage and Offloading (FPSO) unit Perisai Kamelia. More than one million safe man-hours have been clocked on the project, and it is on track for early delivery.

Jointly owned by EMAS Offshore Construction and Production Pte Ltd (EMAS Offshore) and Perisai Petroleum Teknologi Bhd (Perisai), the FPSO has been chartered by Hess Corporation (Hess) for the early production activities in the North Malay Basin gas project (located offshore Malaysia) that it is developing with Petronas Carigali Sdn Bhd (PCSB), a subsidiary of Petroliaam Nasional Berhad (Petronas).

The FPSO was named on 15 May 2013 by the Lady Sponsor Puan Hatijah Abdul Latiff, wife of the Guest-of-Honour for the naming

ceremony Encik Ramlan Abdul Malek, Vice President, Petroleum Management Unit, Exploration & Production, Petronas.

Encik Ramlan Abdul Malek said, "On behalf of Petronas, I would like to congratulate all parties involved for a job very well done. All these were made possible due to the strong collaboration of the various parties involved."

Speaking at the naming ceremony, Encik Izzet Ishak, MD of Perisai, was similarly pleased with the strong turnaround of the FPSO project and commended Keppel Shipyard for its professional handling of the project. He also expressed his appreciation to the yard for ensuring a strong safety performance.

Thanking partners and stakeholders, Mr Chow Yew Yuen, COO of Keppel O&M, said,

"Today's event marks another successful partnership between Keppel Shipyard and EMAS Offshore. We look forward to continue and strengthen our mutually beneficial partnership."

"To Hess Corporation and Petronas, we are privileged to have served you in this significant integrated gas development project in the North Malay Basin. I would like to express my appreciation to Encik Ramlan and the Petronas team for giving us these opportunities to support Petronas activities in Malaysia and abroad."

At the Safety Achievement Celebration Dinner for the project teams on 15 May 2013, EMAS Offshore presented Keppel Shipyard a safety bonus cheque of \$100,000 in recognition of its strong safety performance on the Perisai Kamelia project.

10 rigs in five months



Heralding HAKURYU-11 are two auspicious white dragons together with representatives from JDC and Keppel. (First row, from L-R) Mr Tong Chong Heong, CEO of Keppel O&M, Mr Minoru Murata, President and Representative Director of JDC, Lady Sponsor Mrs Mariko Murata and Mr Wong Kok Seng, MD (Offshore), Keppel O&M and MD, Keppel FELS

Just two weeks before the delivery of Keppel's 45th KFELS B Class jackup, ArabDrill 50 (story on page 20), another KFELS Super B Class jackup rig, the HAKURYU-11, was handed over to Japan Drilling Company (JDC) on time and with a perfect safety record.

Named at Keppel FELS on 25 May 2013, HAKURYU-11 was also the 10th rig that Keppel FELS has delivered in the first five months of 2013.

At the naming ceremony, Mr Wong Kok Seng, MD (Offshore), Keppel O&M and MD, Keppel FELS, said, "We are proud to be able to deliver our 10th rig this year in five months in a timely and safe manner. This puts us on track to deliver another 10 rigs in a similar fashion by the end of the year.

"JDC was very specific with the requirements for their new jackup building programme. With a strong emphasis on safety, quality, reliability and efficiency, we have ensured that HAKURYU-11 meets all these requirements and is able to achieve zero downtime as well as value-add when it is in operation."

The rig will be chartered to the Con Son joint venture led by Petrovietnam in the Nam Con Son field in offshore Vietnam.

The KFELS Super B Class design is one of the world's deepest drilling rigs with drilling depth of 35,000 ft. It features an offline stand building capability to handle drill pipes efficiently, a combined drilling load of up to 2,700 kips and a high capacity hook load of 2 million pounds, boosting overall rig performance and productivity.

Mr Minoru Murata, President and Representative Director of JDC whose wife Mrs Mariko Murata was the Lady Sponsor of the rig, said, "HAKURYU-11 is not only one of the most technically advanced types available in the current market but many of its operational and drilling capabilities surpass most other rigs in competition. Hence, this new drilling rig will certainly bring strong operational advantages to JDC and further enhance our highly-rated reputation of efficiency and effectiveness in the industry."

Keppel FELS also completed two KFELS B Class jackup rigs in 2006 and 2008 for a JDC joint venture company with Qatar Petroleum – Gulf Drilling International (GDI). It is currently building two jackups for GDI.

The world: our challenge, our oyster

Near Market, Near Customer is a hallmark of Keppel Offshore & Marine's (Keppel O&M) business strategy. However, expanding into new markets and replicating Singapore's best practices overseas are no easy feats. An oft-quoted example of a home-grown multinational company, Keppel O&M was asked to share its story of how it grew its global reach and secured its international standing as a leading corporation in its field.

In conjunction with IE Singapore's 30th anniversary, *Straits Times* and *Lianhe Zaobao* were commissioned to develop a series of articles on the success formula of Singapore companies. Keppel O&M was selected to participate in this initiative, and the newspapers interviewed Mr Chow Yew Yuen, COO of Keppel O&M, on

the company's experience in expanding overseas and staying ahead of the game. The interviews were published on 28 May 2013.

During the interview, Mr Chow highlighted the pivotal role that Keppel's core values play in Keppel O&M becoming a global force in the offshore and marine industry.

"One of the first challenges of operating overseas was developing a set of values which are universal," he recounted. Keppel recognised that this was crucial for maintaining its service standards and execution excellence at all yards as it expanded globally. The core values were later printed on plastic cards which employees could carry with them.

Citing an example of the

challenges faced in aligning values overseas, he shared that during Keppel O&M's early days in Brazil, it found that the workers were less aware about shipyard safety because they were exposed to some level of risk in their everyday lives. The company took time to educate its people on its safety practices, starting from the top managers to the middle managers and finally to the lower-rung workers. Today, safety has become a big part of the workplace culture in Keppel's Brazilian yards.

Keppel O&M has also placed much emphasis on talent recruitment and development. It has training programmes in place for all levels of jobs, even for fresh graduates. It also has systems in place to support and develop the staff in foreign yards and align them with group practices, especially during the set-up phase.

Over time, its people became anchored by a strong identity and vision to grow with the company, and a willingness to go the extra mile.

Keppel O&M is committed to stay ahead of the competition and this is achieved in three ways. Mr Chow said, "Firstly, it is innovation. We must offer unique products and designs. Secondly, in terms of execution, we must deliver quality products safely and on time. Thirdly, we must continue to reduce our cost and improve business operations and productivity."



Through a sustained transfer of expertise, technology and systems from Singapore, BrasFELS is today the most established yard in Latin America

Stepping up wind power

Keppel Verolme has successfully completed and installed a floating, self-erecting substation platform for Global Tech 1, an offshore wind park in the German Exclusive Economic Zone in the North Sea on 13 May 2013.

Installed at a water depth of 40m, the substation platform will collect and step up the electricity generated by the offshore wind park's 80 wind generating turbines, each with a capacity of 5 MW, to feed into Germany's national power grid. It is also equipped with critical control systems to serve as a backup power supply for the wind farm in case of emergencies and provides permanent accommodation for up to 32 people.

This substation platform contains transformers and high voltage switchgear integrated onto a Mobile Offshore Application Barge (MOAB), a specialised barge designed and developed by Overdick GmbH & Co.

Keppel Verolme carried out the detailed engineering and construction of the MOAB at its yard in Rotterdam while its consortium partner, Alstom Grid GmbH (Alstom), supplied and installed the medium and high voltage equipment, power transformers as well as the protection and control systems.

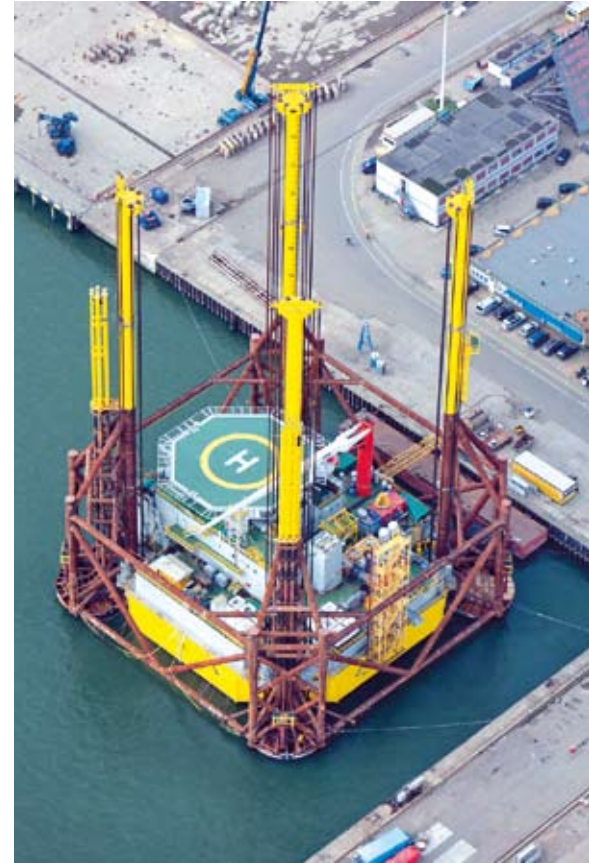
Mr Harold Linssen, MD of Keppel Verolme said, "This is the second MOAB which we have delivered but our first where it has been

equipped to be a transformer substation. It is a demonstration of an innovative and customised solution which combines proven state-of-the-art technologies from the oil & gas industry with the energy transmission business.

"This delivery highlights our capabilities to offer pioneering solutions for the emerging European offshore wind energy sector and also provide value-added services such as in the installation of the platform. Backed by Keppel O&M's synergy of 20 yards worldwide and its strength in technology and project execution, we are well-positioned to support the growth of the offshore wind energy market."

Instead of the traditional "pile-driving" technology used to install offshore substations which can impact marine life, mammoth steel suction cans were used to fix the self-erecting platform into the seabed. This method also reduces noise pollution. The platform can be completely and safely removed after its lifetime-cycle through a reverse procedure.

By serving both energy transmission and wind farm maintenance functions, the offshore substation platform helps to enhance the operational reliability and efficiency of Global Tech 1, contributing overall to a sustainable environment. The platform is the centrepiece of the Global Tech 1 North Sea wind park where the electricity generated by its 80 wind turbines is merged and



The offshore substation was completed at Keppel Verolme in Rotterdam before being transported to the Global Tech 1 wind farm in Germany for installation

the voltage transformed from 33 to 155 kilovolts.

Currently still under construction, Global Tech 1 is located approximately 100 km from the Dutch shore. When fully operational, this wind park will be capable of generating some 1.4 billion kilowatthours of electrical energy annually, supplying 445,000 households with clean energy.

Match made in Brazil

The successful mating operation of the topsides and hull of Petrobras' P-61, Brazil's first Tension Leg Wellhead Platform (TLWP), has been completed at BrasFELS, Keppel Offshore & Marine's (Keppel O&M) yard in Angra Dos Reis, Brazil.

The P-61 TLWP, which is being built at BrasFELS by FloaTEC – an equal joint venture (JV) between Keppel O&M and a subsidiary of

McDermott – will be installed later this year at the Papa Terra Field in offshore Brazil for PPT BV, a JV between Petrobras and Chevron.

Eric H. Namtvedt, President of FloaTEC said, "We are proud to have been able to accomplish this significant milestone in the construction of Brazil's first TLWP.

"With the experience and expertise of our parent companies,

Keppel O&M and McDermott, we completed this complex operation in a safe and efficient manner. FloaTEC has been able to harness the unique synergies and expertise of its parent companies to offer proprietary technology and critical engineering expertise on the P-61."

The challenging operation which took place on 15 May 2013 is illustrated below.

1



FloaTEC towed the hull from the BrasFELS yard to a deepwater mating hole near Angra dos Reis

2



To achieve the required mating draft, the hull was ballasted down

3



The topsides, which were mounted on a specially built float-over barge, were then towed out and positioned over the submerged four column hull

4



Upon de-ballasting, the hull gradually emerged from the water and connected to the topsides via specially designed receptacles and stab-in cones. Once the topsides had been successfully mated to the hull, the float-over barge was removed from below the topsides, completing the marine mating of the first locally built TLWP for Brazil

Noble delivery

Keppel FELS Brasil's yard in Angra dos Reis, BrasFELS, has successfully delivered Noble Roger Eason to Noble Corporation (Noble) on 2 May 2013. This is the second drillship that BrasFELS has delivered to the oil and gas drilling contractor.

Mr Gary Davis, Project Manager of Noble, shared, "Noble Roger Eason was a challenging project. The BrasFELS and Noble teams had to deal with various challenges from

project conception to completion. BrasFELS has stood up to these adverse situations and met every challenge with competent and innovative field engineering, capable craftsmen and an attitude of teamwork and willingness to get the job done successfully. The success of the Noble Roger Eason project demonstrates the strong *Can-Do!* spirit amongst its people. On behalf of Noble, I would like to congratulate all at BrasFELS on a job well done!"

Noble Roger Eason's new port and starboard sponson blocks, living quarters and bow thruster block were fabricated at BrasFELS, while its stern block was fabricated at Keppel FELS in Singapore. The drillship successfully underwent the jumboisation operation on BrasFELS' FS-1 floating dock at anchorage, where the new blocks were integrated with the drillship.

Striking first oil

Converted by Keppel Offshore & Marine (Keppel O&M), the Floating Production Storage and Offloading (FPSO) unit Cidade de Paraty struck first oil in the Lula field in Santos Basin, offshore Brazil, on 7 June 2013.

Currently anchored at a water depth of 2,120m some 300 km off the coast, the FPSO has the capacity to process up to 120,000 barrels of oil and 5 million cubic meters of gas per day. The vessel is on a 20-year charter to Petrobras.

For the conversion of this vessel, Keppel O&M leveraged the synergies between its global yards. Keppel Shipyard undertook the marine conversion of the vessel, before it arrived at BrasFELS for the assembly and integration of its topside modules. Cidade de Paraty left BrasFELS in April 2013.



FPSO Cidade de Paraty, which left BrasFELS in April 2013, has struck first oil

Responding to well-wishes from BrasFELS on the FPSO's significant milestone, Mr Jose Miranda Formigli, Director of Exploration and Production of Petrobras, said, "I want to recognise the critical role that BrasFELS played on this project, and its commitment to quality and schedule demonstrated throughout the entire conversion phase of the FPSO Cidade de Paraty."

Mr Formigli also noted that the FPSO Cidade de Paraty represents another successful collaboration between BrasFELS and Petrobras to meet the oil and gas needs of Brazil safely and profitably.

Apart from the FPSO Cidade de Paraty project, BrasFELS and Keppel Shipyard also joined hands on FPSO P-57 which was delivered in 2010.

Strengthening the board



Mr Robert Somerville

Mr Robert Somerville, previously Chairman of the Board of American Bureau of Shipping (ABS), was appointed as a Board Member of Keppel Offshore & Marine with effect from 1 May 2013.

With a career spanning more than 40 years with ABS, Mr Somerville rose rapidly through the ranks to become the classification society's longest ever serving Chairman or President, providing leadership in either capacity for the last

20 years. In addition, Mr Somerville served as the Chairman of the International Association of Classification Societies from 2005 to 2006.

Mr Somerville is currently the Vice Chairman and Board Member of the Maine Maritime Academy; Director of GasLog Ltds; and Member of the Board of Trustees of Seaman's Church Institute, New York.

Work apace

Keppel Singmarine, Keppel Offshore & Marine's specialised shipbuilding arm, has continued making steady progress in its various projects. On 31 May 2013, it celebrated the keel laying of a 56-metre catamaran air dive support vessel (DSV) for its Australian-based customer, Bhagwan Marine.

Witnessing the ceremony were

Mr Loui Kannikoski, MD of Bhagwan Marine, Mr Allister Stewart, Project Manager from Bhagwan Marine, Mr Hoe Eng Hock, MD of Keppel Singmarine, Mr Toh Ko Lin, ED of Keppel Singmarine and Mr Siah Poh Chiang, Project Manager from Keppel Singmarine.

Developed by Australia's Incat Crowther, this twin-hull

configuration DSV is slated for delivery in 2014. It will be deployed off the waters of Western Australia, to be operated by dive specialists Neptune Marine Services.

Keppel Singmarine is committed to sterling execution of the DSV and to grow its track record in niche specialised shipbuilding.



Management and project teams from Keppel Singmarine and Bhagwan Marine reaffirmed their close partnership at the catamaran air dive support vessel's keel-laying ceremony



(From left) Mr Tong Chong Heong, CEO of Keppel O&M, Mr Christopher J. Wiernicki, Chairman, President and CEO of ABS, Mr Lawrence R. Dickerson, President and CEO of Diamond Offshore Drilling, Inc., Mr Choo Chiau Beng, CEO of Keppel Corporation and Chairman of Keppel O&M, and Mr Daniel W. Rabun, Chairman, President and CEO of Ensco plc

Warm ties at OTC

Keppel Offshore & Marine's (Keppel O&M) recent cocktail reception in Houston, Texas, the US, was a well-attended affair. Hosted by Keppel O&M's board and management, the annual event serves as a platform for friends and partners to get reacquainted, exchange insights and have a good time.

Over the years, the Keppel O&M cocktail reception has evolved from a simple networking function into a highly-anticipated party. The reception is held during the period of the Offshore Technology Conference (OTC), one of the world's foremost events on the

development of offshore energy resources.

At the reception, held on 7 May 2013 at Westin Galleria, Mr Choo Chiau Beng, CEO of Keppel Corporation and Chairman of Keppel O&M, expressed his appreciation to customers as well as industry and government partners for their many years of support.

Indeed, it is through mutually-beneficial partnerships with all its stakeholders that Keppel O&M has been able to thrive over the years.

At this year's reception venue,

Keppel O&M put up exhibits showcasing its global operations, solutions suite and proprietary technologies. As 2013 is Keppel Corporation's 45th anniversary, details of the Group's philosophy for sustainable growth as well as its property and infrastructure businesses were also featured.

Meanwhile, Keppel Verolme and BrasFELS exhibited at OTC. Their presence at the high octave exhibition and conference event helped to further grow Keppel O&M's global reputation as a provider of choice and partner for solutions.



(From left) Mr Chow Yew Yuen, COO of Keppel O&M, Mrs Tan Geok Seng, Mr Tan Geok Seng, President of Keppel Offshore & Marine USA and President & CEO of Keppel AmFELS, and Mr Gregers Kudsk, Vice President and Senior Technical Advisor for Maersk Drilling



(From left) Mr Tong Chong Heong, CEO of Keppel O&M, Mr Choo Chiau Beng, CEO of Keppel Corporation and Chairman of Keppel O&M, Mr Steven Newman, President and CEO of Transocean Ltd, and Mr Michael Chia, MD (Marine & Technology) of Keppel O&M



(From left) Mr Peter Jacobsson, CEO of Floatel International and Dr Lee Boon Yang, Chairman of Keppel Corporation



(From left) Mr Steven W. Roll, VP and GM, Atlantic, McDermott International, Mr Ben Goh, Project Manager of Keppel Singmarine, Daniel Sullivan, Global Director Equipment & Machinery of McDermott International, Mr Hoe Eng Hock, MD of Keppel Singmarine



(From left) Mr Mark McGrath, VP & Chief Learning Officer, ABS, and Mr Wong Kok Seng, MD (Offshore) of Keppel O&M



(From left) Mr Stephen Pan, Board Director of Keppel O&M, Mr Lim Chin Leong, Board Director of Keppel O&M, Mr Tom Bates, Chairman of Hercules Offshore, Mr Teo Soon Hoe, Senior ED of Keppel Corporation and Board Director of Keppel O&M, Mr Chor How Jat, MD of Keppel Shipyard, and Mr Louis Chow, Senior GM of Keppel Shipyard



At the sidelines of OTC, Keppel Offshore & Marine's board and senior management bonded with their friends and industry partners over golf at Wild Cat Golf Club, Houston, Texas, the US, on 5 May 2013

Safety recognition



Keppel Shipyard was conferred the Safety Award at Seatrade Asia 2013. (From left) Reverend Stephen Miller, Senior Chaplain, The Mission to Seafarers, Mr Chor How Jat, MD of Keppel Shipyard, and Mr Andrew Callaghan, MD/Global Sales Director, Seatrade Communications Ltd

With a steadfast commitment to safety, Keppel Shipyard was honoured with the Safety Award at the Seatrade Asia Awards 2013 held on 21 June 2013 in Hong Kong.

Mr Chor How Jat, MD of Keppel Shipyard, shared, "We are encouraged by this award, and will continue to upkeep our efforts to build and sustain a safe work environment so that

everyone can go home safely at the end of each work day."

Keppel Shipyard's accident frequency rate (AFR) in 2012 improved by 33% to 0.06 accidents per million manhours worked, compared to 2011. The company's AFR was also better than the Singapore industry average in 2012. For the first 5 months of 2013, Keppel Shipyard achieved zero

cummulative accident frequency rate.

To rally its workforce towards safety, the company invests in a multitude of safety competency training programmes. More than 50,000 direct and indirect workers have undergone workshops at the Keppel Safety Training Centre, an interactive and immersive training facility opened in June 2010.

Commendable deliveries

For its safe, reliable and quality services, Keppel Shipyard continues to garner commendations from its customers.

SAFE DELIVERY

Keppel Shipyard recently completed a repair project for a 35-year-old tanker, KODIAK, for returning customer SeaRiver Maritime Inc (SeaRiver Maritime). The tanker was delivered on 15 June 2013.

In an appreciation letter to the shipyard, Mr Jason M. Martin, Procurement and Repair Manager, Operations, SeaRiver Maritime, said, "Your Project Team at Keppel Benoi completed the repairs with a high level of care and was available throughout the commissioning to immediately rectify any defects. My Repair Team and Vessel Officers are very satisfied with the repairs completed and vessel appearance.

"Your Project Management team and workers have provided a great service to the KODIAK repair

project while never losing focus on safety. Completing this project without one injury is a testament to their diligence and to the mature safety culture at Keppel."

Mr Martin also highlighted the efforts of various members of the Keppel Shipyard team. Mr Martin thanked Mr Ivan Lim, AGM (Operations), and Mr Richard Leong, Yard Manager, Keppel Shipyard, for adjusting the docking schedules to accommodate additional repair works. This has helped to ensure that the required work was completed within schedule.

He also commended Mr Kelvin Ang, Project Manager, Keppel Shipyard, for his excellent job at coordinating all trades as well as steadfast commitment to safety best practices throughout the duration project.

Reiterating its thanks to Keppel Shipyard, SeaRiver Maritime presented the yard with a US\$50,000 safety bonus.

SOUND COMPLETION

Keppel Shipyard handed Bibby Progress to Bibby Maritime Ltd (Bibby Maritime), a subsidiary of the Bibby Line Group, on 20 June 2013.

At the delivery, Bibby's Lady Sponsor, Mrs Laura Judd, wife of Mr Derek Judd, On-Site Manager of Bibby Ship Management Limited (Aberdeen, UK) and Mr Ivan Lim, Assistant GM (Operations) of Keppel Shipyard jointly unveiled a plaque to mark the project's safe and timely completion.

Mr Judd said, "I feel very proud of what has been accomplished by Keppel Shipyard. It would not have been possible without the supervision of the Senior Project Manager Mr Muzammel Hushen and his dedicated team of supervisors, workers and crew. It was evident that safety was paramount throughout the project which had zero lost-time incidents. This is testament to Keppel's dedication to safety."



Celebrating another successful collaboration are: (from L-R) Ms Elizabeth Kent, with her father Mr Martin Kent, MD, Bibby Ship Management (Singapore) Pvt Limited, and mother Mrs Ahua Kent; Lady Sponsor Mrs Laura Judd; Mr Derek Judd, On-Site Manager of Bibby Ship Management Limited (Aberdeen, UK); Mr Lim Ai Kok, Yard Manager (Operations) of Keppel Shipyard; Mr Ivan Lim, Assistant GM (Operations) of Keppel Shipyard; and Mr Thomas Lee, Senior Commercial Manager, Keppel Shipyard

Bibby Progress, a Floating Accommodation Unit, arrived at Keppel Shipyard in the fourth quarter of 2012. The yard's main work scope for this vessel included refurbishment works of the 155 guest rooms, blasting and painting of hull and accommodation walls, overhauling of equipments, extension of decks and upgrading of electrical systems.

Bibby Maritime is a returning customer of Keppel Shipyard, which has undertaken repairs for a number of vessels in their fleet.

45th KFELS B Class jackup rig



Celebrating the delivery of ArabDrill 50, the 45th KFELS B Class rig, are the senior management from ADC and Keppel, including (first row, L-R) Mr Abdul Aziz Al Rebdi, Consular and Deputy Head of Mission, Royal Embassy of Saudi Arabia; Mr Tong Chong Heong, CEO, Keppel O&M; Mr Mohamed Yousof Rafie, Chairman, ADC; Dr Lee Boon Yang, Chairman, Keppel Corporation; (second row, second from left, L-R), Mr Umar Loan, MD Technical, ADC; Mr Choo Chiau Beng CEO, Keppel Corporation; Mr Saad A. Saab MD Admin, ADC

Since its launch in 2000, the KFELS B Class jackup design has set new benchmarks and risen to become the industry workhorse. For every three jackup rigs delivered in the world since 2000, one would be a KFELS B Class jackup rig.

Keppel FELs marked another milestone when it commemorated the naming of its 45th KFELS B Class jackup rig, in a year that Keppel Corporation is celebrating its 45th anniversary.

The rig was delivered to Arabian Drilling Company (ADC) 14 days ahead of schedule, on budget and with a perfect safety record. For

its early delivery, Keppel FELs was awarded a bonus of US\$210,000.

Named ArabDrill 50 at a ceremony on 8 June 2013, the jackup rig will be chartered to Saudi Aramco for operations in offshore Saudi Arabia.

The innovative and cost-effective KFELS B Class jackup rig has performed excellently in major offshore exploration and development programmes in various locations worldwide. It has been employed by about 20 international drilling operators in over 15 countries.

Mr Chow Yew Yuen, COO of

Keppel Offshore & Marine (Keppel O&M) said, "We are pleased to have reached this significant milestone of 45 KFELS B Class jackup rigs delivered with another exemplary delivery to a valued customer. ADC has further shown their confidence in us with the acquisition of a second KFELS B Class jackup rig which is on track for delivery at the end of the year.

"This delivery is in conjunction with the 45th anniversary of our parent company, Keppel Corporation. In line with the theme of 'Shaping the Future', our KFELS B Class design is playing an important part in shaping the

offshore drilling industry. With another 18 KFELS B Class jackup rigs on order, it is the industry benchmark for jackup rigs."

Besides the two jackup rigs for ADC, Keppel FELS also delivered a KFELS Super B Class jackup rig to Saudi Arabia's Saudi Aramco last year.

Mr Mohamed Yousof Rafie, Chairman of ADC, said, "It was a prudent decision in selecting Keppel FELS for the building of this class of rig, as they are able to undertake various upgrades to bring the rig in compliance with our contract with Saudi Aramco so that the rig can work in both oil & gas divisions. We are very pleased with the high quality to which this rig has been completed, as well as the safety commitment demonstrated by Keppel FELS. We have developed a close working relationship with Keppel FELS, and we hope to continue it in future."

The KFELS B Class jackup design is able to operate in water depths of up to 400 feet and drill to depths of 30,000 feet, and is readily upgradeable to higher performance capabilities. Designed with industry-leading features for safety and environmental friendliness, the KFELS B Class provides maximum uptime with reduced emissions and discharges.

B for Best in Class

Developed by Keppel's technology arm, Offshore Technology Development (OTD), the KFELS B Class jackup drilling rig was launched in 2000 as a cost-efficient rig for most locations around the world.

Over the years, the design has established a solid track record with maximum uptime and high efficiencies. It has also evolved to meet requirements for drilling in deeper waters and harsher environments.

Dr Foo Kok Seng, ED of OTD and ED (Shallow Water Technology) Keppel O&M Technology Centre (KOMtech), shared on the secret to the design's success, "Why the KFELS B Class has been so successful is because of three factors. Firstly, its leg spacing mirrors the most popular rig of that time, the Letourneau 116C (MLT-116C); secondly, the rig's legs and jacking and fixation systems give it the flexibility for enhanced rig performance; and thirdly, the innovative rig design maximises deck load and drilling capability."

HUMBLE BEGINNINGS

In 1994, Keppel FELS then known as FELS, established OTD as a design-and-development subsidiary to develop a new jacking system for its jackup rigs.

At that time, FELS ran a simple shipyard operation, building

according to plans and designs provided by customers. The yard wanted to be more than just a rig builder; it wanted to be a solutions provider and having its own rig design would enable it to customise solutions to customers' needs.

PROPRIETARY JACKING SYSTEMS

One of the most crucial components was jacking systems and the yard did not want to be dependent on the only two suppliers in the world then.

OTD successfully developed its own jacking system, along with a patented leg fixation system. The advanced jacking capacity system is still one of the largest in the market. The easily-installed fixation system reduced the weight and time needed to jack up the rig platform. In 1996, the new design received the approval of major classification societies, including Det Norske Veritas (DNV), Lloyd's Register of Shipping and the American Bureau of Shipping (ABS).

"We had carried out a full-scale life-cycle load test and satisfied the ABS and DNV requirements. In our trials, we tried our best to damage the jacking system but it withstood the tests. Up till today, the jacking systems continue to hold a clean record," Dr Foo shared.

Continues on page 22..

Continued from page 21...

In 1997, Keppel FELS persuaded GlobalSantaFe to use the OTD jacking system on one of its rigs, Galaxy II. This was helpful in gaining industry acceptance for the jacking system design. To date, about 3,300 units of the jacking system have been ordered – 2,200 units are on board of about 50 rigs around the world and another 1,100 units are to be put onto rigs under construction in Keppel O&M.

MARKET BREAKTHROUGH

In 1997, when the offshore industry was in a downturn, Keppel FELS took the opportunity to buy up rights of two Friede & Goldman (F&G) designs, the F&G Mod V and F&G Mod VI. The first Keppel design developed was the KFELS A Class for Ensko. Its success led to the development of the KFELS B Class.

Chiles Offshore had initially approached Keppel FELS to build MLT-116C rigs but as prices of MLT rigs were escalating, Mr Chow Yew Yuen, then president of Keppel AmFELS, suggested for Keppel to develop a new type of rig for Chiles Offshore. Keppel FELS recognised that a large market existed for a more cost-efficient and higher-specification rig for the milder environments of the Gulf of Mexico, West Africa, South America and Asia Pacific.

Keppel FELS, together with OTD

adopted the F&G Mod V design as the base and incorporated new value-adding design features into the legs, jack and fixation systems. Its innovative living-quarters and hull arrangement enable the KFELS B Class jackup rig to accommodate a full 70-foot cantilever outreach. This reach, together with a maximum cantilever load of 2,700 kips, is in a league of its own.

Chiles Offshore ordered two KFELS B Class rigs and its first rig was chartered to ConocoPhillips for operations in Bayu-Undan in Timor Leste.

Dr Foo vividly recalls, "The rig coincidentally started operations about the same time that Timor Leste gained independence in 2002. It was a significant moment. The first KFELS B Class rig proved to be a success operating in Bayu-Undan in the Timor sea, earning dayrates of around US\$100,000/day – among the highest in the market then and more than that of larger jackups."

GAINING TRACTION

With the success of the first rig, the new design quickly gained market acceptance. Ensko later bought the rigs from Chiles Offshore and the first unit was named ENSCO 104.

In 2003, the Skeie Group of Norway encouraged Keppel FELS to enhance the capabilities of the KFELS B Class rigs further, making

them capable of drilling deeper and at higher temperature and pressure.

This led to the development of the KFELS Super B Class which is designed to drill up to 35,000 ft and can be suitably configured to operate in areas such as the Southern North Sea. It also features a cantilever skid-off feature and has higher capacity hook loads of two million pounds for operations in extreme high-temperature and high-pressure wells.

The strength of this design helped to cement Keppel's reputation as a world leader in the offshore and marine industry.



The first KFELS B Class rig was deployed in Timor Leste in 2002

Networking in Norway



Singapore's Minister for Transport, Mr Lui Tuck Yew (fourth from left), had a robust discussion with Keppel O&M's management at Nor-Shipping in Oslo, Norway

Keppel Offshore & Marine (Keppel O&M) touched base with customers and industry partners at the Nor-Shipping Conference and Exhibition (Nor-Shipping), held in Oslo, Norway, from 4 to 7 June 2013.

Featuring insightful conferences and dialogues, extensive networking opportunities and top-quality exhibition, the event drew leading global offshore and marine players from across the globe. This year, more than 20 national pavilions and 1,000 companies exhibited at Nor-Shipping.

Through its booth at the Singapore Pavilion and of its participation in the Singapore Nite Reception, Keppel O&M helped to promote Singapore's vibrant maritime industry and shared its broad range of capabilities and services.

Singapore's Minister for Transport, Mr Lui Tuck Yew, officially opened the Singapore Pavilion and graced the Singapore Nite Reception. The Singapore Pavilion was coordinated

by the Singapore Maritime Foundation and the Association of Singapore Marine Industries, and

was supported by the Maritime Port Authority of Singapore and International Enterprise Singapore.

Arctic expedition

Mr Choo Chiau Beng, CEO of Keppel Corporation, was invited to the esteemed Ny-Ålesund Symposium in Norway on 28 May 2013, and he shared his take on Arctic maritime opportunities with the participants.

The annual symposium brings together international policy makers, researchers, business executives and high-level decision makers to discuss challenges facing the Arctic and Northern Hemisphere, such as climate change.

The Arctic region has been growing in importance and Singapore, a global maritime hub, was recently accepted as a permanent observer on the Arctic Council. Keppel Offshore &



At the top of the world – Keppel Corporation's CEO Mr Choo Chiau Beng with Mr Espen Barth Eide, Norwegian Minister of Foreign Affairs

Marine is also jointly developing the first ice-worthy jackup with ConocoPhillips for the region.

Ny-Ålesund is one of the globe's northernmost settlements and is administered by Norway. It serves as an Arctic research base and is home to about 35 people, all of whom are scientists from various parts of the world.

Customer focus



Senior management of Keppel O&M hosted the delegation from Maersk Oil and Gas, led by its CEO, Mr Jakob Thomasen (far right)



Mr Tong Chong Heong (left), CEO of Keppel O&M and Mr Chow Yew Yuen (centre), COO of Keppel O&M, share the yards best practices with Mr Trond Ø. Westlie, Group CFO of A.P. Moller-Maersk and spoke on the progress of Maersk's three ultra harsh environment CJ70 jackup rigs



Celebrating a safe partnership are (from L-R) Chia Chuan Beng, Senior Project Manager, Keppel FELS, Lars Ravn Hansen, Maersk Drilling Site Manager and Wayne Siek, Assistant Construction Manager, Keppel FELS

To deliver excellent products that exceed expectations, Keppel FELS constantly engages its customers. The yard recently hosted visits by the CEO of Maersk Oil and Gas and the CFO of A.P. Moller-Maersk, and achieved a significant safety milestone on the construction of jackup rig B331, the first of three mammoth CJ70 jackup rigs that Keppel FELS is bulding for Maersk.

For achieving six million man-hours without lost time incident on the construction of B331, Keppel FELS was awarded a safety bonus of US\$30,000 by Maersk at a ceremony held on 10 May 2013.

Mr Jakob Thomasen, CEO of Maersk Oil and Gas and Mr Trond Ø. Westlie, Group CFO of A.P. Moller-Maersk had earlier visited

the three ultra harsh environment jackup drilling rigs on 8 April 2013 and 17 April 2013 respectively.

They were hosted by senior management of Keppel Offshore & Marine including Mr Tong Chong Heong, CEO, Mr Chow Yew Yuen, COO, as well as Mr Wong Kok Seng, MD (Offshore).

Serving the Middle East

Nakilat-Keppel Offshore & Marine (N-KOM), located in Qatar's Ras Laffan Industrial City, recently reported several new developments at its yard.



N-KOM recently inked an agreement with leading German service provider, Turbo Technik, to set up operations in the yard to offer LNG cryogenic equipment, compressors, turbine works and boiler repair options

NEW RECEPTION

In line with its expanding operations, N-KOM has set-up a new Business Centre office to further enhance its support to its customers. The team at the Business Centre has extensive experience in hospitality and administration work, and will assist customers with a range of issues, including immigration, transport and project matters.

STRATEGIC ORIENTATION

N-KOM held its first Agent's Workshop from 15-16 May 2013. A total of 13 participants joined the workshop, which involved presentations and discussions

on market developments and opportunities.

As part of the workshop, N-KOM management led the agents on a comprehensive yard tour, where they had a chance to better understand the yard's operations so as to market the yard more effectively.

Brainstorming sessions were the highlight of the two-day workshop session. N-KOM management led by the CEO Mr Abu Bakar Mohd Nor, and the yard's agents reviewed strategies to better serve the offshore and marine markets.

STRENGTHENING SUPPLY CHAIN

N-KOM recently inked an agreement with leading German service provider, Turbo Technik, to set up operations in the yard offering liquefied natural gas (LNG) cryogenic equipment, compressors, turbine works and boiler repair options.

The partnership will expand N-KOM's range of services whilst allowing Turbo Technik to capitalise N-KOM's extensive facilities and outreach to serve its clients better from a strategic location in the Arabian Gulf.

Mr Abu Bakar, said, "N-KOM is continuously seeking to establish partnerships and collaborations with leading names in the industry to offer the best to our clients. Having Turbo Technik onboard the team would not only be beneficial for the yard's shiprepair and maintenance business but also gives us an opportunity to offer a comprehensive solutions as well as additional flexibility to dispatch teams to inspect and repair vessels at anchorage when required by ship owners."

Turbo-Technik is a world-wide operating service and repair company which specialises in servicing LNG carriers and supplying cryogenic equipment to commercial vessels, navy ships and industrial plants.

Sites to behold

Think about the offshore and marine industry, and the name Keppel would come to mind instinctively. This was so for the train of dignitaries, investors, journalists and students who requested to visit Keppel Offshore & Marine's (Keppel O&M) facilities and offices over the last two months.

Having heard and read much about Keppel O&M's products and solutions, these visitors were

keen to see and understand the company's capabilities and operations across Qatar, Singapore and the US.

In May, Keppel O&M's technology foresight and business development unit in Houston hosted Singapore's Ambassador to the US, Mr Ashok Mirpuri and his delegation. The Ambassador, who had lobbied for Singapore's Permanent Observer status on

the Arctic Council, was left a deep impression by the management's sharing of Keppel's technology initiatives for the Arctic Ocean.

Meanwhile, Nakilat Keppel Offshore & Marine's (N-KOM) growing reputation as the Middle East's premier yard drew strong interest from the Qatari media, as well as students and lecturers from the Singapore Management University.



Singapore's Ambassador to the US, Mr Ashok Mirpuri (fourth from left) and his delegation comprising Mr Philbert Gomez (first), Director of EDB Houston Center and Ms Nitya Menon (far right), First Secretary of Embassy of the Republic of Singapore, Washington DC, gained a deeper understanding of Keppel's technology initiatives for the Arctic Ocean when they visited Keppel O&M USA at Houston



The Qatari media visit to N-KOM garnered positive coverage for the yard in local publications

The fund managers were very impressed with the operations. It was an eye-opener as it was the first time to Keppel's yards for many of them. Those who have been to Korean yards were amazed by how much Keppel can produce in its Singapore yards in a much more compact space.

Mr Kevin Chong
Analyst
Deutsche Bank

Both groups observed first-hand the yard's seamless operations, which have allowed it to complete more than 160 projects that spanned repair, refurbishment and

upgrading works. They also interacted with top executives including Mr Muhammad Ghannam, MD of Qatar Gas Transport Company (Nakilat) and Chairman of N-KOM, as well as Mr Abu Bakar Mohd Nor, CEO of N-KOM.

Over in Singapore, Keppel O&M hosted some 50 investing community members including Temasek Holdings' management team, and attendees of the recent Deutsche Bank and Nomura conferences.

Through robust discussions, the senior management addressed investors' concerns about industry

outlook, competition from Chinese and Korean yards, as well as operational challenges overseas.

The investors also went on guided yard tours of Keppel FELS and Keppel Shipyard, and were impressed by the sheer scale and complexity of rig building and ship conversion processes. Having seen how Keppel harnesses its market strategies, core competencies and a spirit of innovation to deliver value to customers, they left convinced of the company's competitive edge.

Indeed, seeing is believing.



Investors witnessed the systematic organisation and efficient utilisation of yard space in Keppel's global network of yards; Keppel O&M's developments and competitive edge were shared with the investors

Stellar partner

Keppel FELS was presented with the prestigious Plaque of Commendation (Star) at this year's National Trades Union Congress (NTUC) May Day Awards. This award is a recognition of Keppel FELS' efforts to promote strong industrial relations, employee workfare and welfare, and support for NTUC's initiatives and programmes.

Indeed, Keppel FELS regularly engages in dialogue sessions with Keppel FELS Employee Union (KFEU) and NTUC to ensure the continuous development and well-being of its people.

Mr Teo Chee Hean, Singapore's Deputy Prime Minister, Coordinating Minister for National Security and Minister for Home Affairs was Guest-of-Honour for the awards event which was held on 28 April 2013 at Orchid Country Club.

Mr Lim Swee Say, Minister in the Prime Minister's Office and Secretary-General of the NTUC, presented the awards to the winners.

Mr Tong Chong Heong, CEO of Keppel Offshore & Marine (Keppel O&M), received the Plaque of Commendation (Star) award on behalf of Keppel FELS.

Leaders of KFEU and the Shipbuilding and Marine Engineering Employees' Union (SMEEU) were also recognised at the awards event. Mr Wong Weng Ong, Consultant of the SMEEU, was conferred the Comrade of Labour (Star) award, while Mr Goh Bak Seng, Assistant General Secretary of the KFEU, was presented the Comrade of Labour award.

Held annually, NTUC May Day Awards acknowledges individuals



Mr Tong Chong Heong (right), CEO of Keppel O&M, receives the Plaque of Commendation (Star) award from Mr Lim Swee Say, Singapore's Minister in the Prime Minister's Office and Secretary-General of the NTUC, at the NTUC May Day Awards 2013

and institutions for their invaluable contributions to the labour movement as well as support for NTUC's charter to strive for better jobs, better wages, and better lives for all workers in Singapore.

This year, 93 awards were given out; this is a record number since 1963, when this Award's initiative was conceived.



Keppel FELS and members of KFEU and SMEEU were recognised at NTUC's May Day Awards 2013: (from left) Mr Wong Kok Seng, MD (Offshore) of Keppel O&M, Mr Goh Bak Seng, Assistant General Secretary of the KFEU, Mr Tong Chong Heong, CEO of Keppel O&M, Mr Wong Weng Ong, former President of the SMEEU, Ms Attyah Hassan, General Secretary of KFEU, and Mr Vincent Ho, President of KFEU

Global learning



24 employees from Keppel O&M overseas business units successfully completed the 14-week Diploma (Conversion) in Marine & Offshore Technology course. Present at the Meet-the-Management luncheon were (L-R) Mr Chow Yew Yuen (center, in blue), COO of Keppel O&M, Mr Chor How Jat, MD of Keppel Shipyard, and Mr Hoe Eng Hock, MD of Keppel Singmarine

Hailing from Brazil, China, Azerbaijan, Qatar, the US and the Philippines, 24 Keppelites from across Keppel Offshore & Marine's (Keppel O&M) overseas yards were in Singapore for the Diploma (Conversion) in Marine & Offshore Technology course, a partnership programme between Keppel O&M and Ngee Ann Polytechnic.

The 14-week programme comprised various modes of knowledge and skills development – on-the-job training at Keppel FELS, Keppel Shipyard and Keppel Singmarine, mentorship from experienced staff, and marine and offshore engineering modules at Ngee Ann Polytechnic. The course syllabus was designed with inputs from Keppel O&M, and leads to a diploma certificate awarded by Ngee Ann Polytechnic.

To mark the successful completion of this programme, an interaction session with the management

was held on 31 May 2013, where participants shared their learnings and experiences.

Mr Jose Hernandez, Construction Engineer of Keppel AmFELS, shared, "One important takeaway from this experience is the camaraderie I have forged with the other participants of the programme. Despite the difference in background and culture, we share the same values and passion for the industry and had an enjoyable time in robust exchange of ideas and insights. It was definitely interesting to learn about the shipyard industry through different perspectives."

Mr Chow Yew Yuen, COO of Keppel O&M, reiterated Keppel's focus on talent development: "It is important that we continue to provide our people with opportunities to stretch and challenge themselves as they grow with the company.

"The course at Ngee Ann Polytechnic and my stint at Keppel's yards in Singapore were eye-opening. I had the opportunity to observe a broad range of projects in the yards, to be familiarised with the best practices in Singapore and to interact with experienced personnel and management who were generous in imparting their knowledge. I am excited to apply what I have learnt back at Baku Shipyard."

*Mr Siyavush Akhundov
Assistant Project Engineer
Baku Shipyard*

"Our reputation as a world leader in the offshore and marine industry is possible because of our continuous efforts to develop our people. Only when our overseas yards actively share and contribute to our pool of knowledge and best practices, we can develop a world-class workforce."

Renaissance man



Mr Michael Poeschmann (left), Senior Technical Manager of BrasFELS, is respected for his willingness to teach

“The construction methodology is just one side of the problem. The bigger picture is to find a way to do things that is also cost effective and timely.”

*Mr Michael Poeschmann
Senior Technical Manager, BrasFELS*

Even in a place full of talented engineers, Michael Poeschmann’s technical knowledge and inventiveness stand out.

His colleagues at BrasFELS, one of Keppel’s two yards in Brazil, are always eager to share their favourite Poeschmann stories, all of which illustrate his ingenuity. The stories are invariably of the unflappable Poeschmann, who works against the odds and under

time constraints to devise elegant solutions to big problems.

PRACTICAL INVENTOR

One of Poeschmann’s clever innovations involved the stacking of a jib crane on top of BrasFELS’ massive 660-tonne crane. With the addition, the crane was able to lift 25m higher than it could originally. This was crucial for the completion of installation works for the drillships Noble Leo Segerius and Noble Roger Eason as well as the flare installation for the Floating Production Storage and Offloading (FPSO) unit Cidade de Sao Paulo.

Examining Poeschmann’s ideas, one can learn quite a bit about the man’s engineering philosophy. To crack a tough problem, he does not always think it prudent to expend time and resources in bringing in the biggest hammer or

to go back to the drawing board to start afresh.

Instead, he looks for smaller, practical solutions, usually turning first to the tools at hand and combining them with creative application to produce an equal, if not better, overall result.

Espousing his practical and grounded approach, Poeschmann once remarked, “The construction methodology is just one side of the problem. The bigger picture is to find a way to do things that is also cost effective and timely.”

PRECOCIOUS ENGINEER

That Poeschmann has become a brilliant engineer should come as no surprise to those that knew him as a young boy.

One of his favourite childhood

activities was to take things apart and then put them back together again. While some might have stopped after figuring out how these devices work, young Poeschmann would venture one step further. Tinkering with bits, parts and simple tools, he made and modified small contraptions.

Today, as Senior Technical Manager of BrasFELS, Poeschmann tinkers with contraptions of a much larger scale. Having been with the yard since it was opened in 2000, he has had a hand in the construction of some of the most significant offshore structures for Brazil.

Recounting his earlier days at BrasFELS, Poeschmann said, "Besides me there were only six to seven other people in the Engineering Department. Today, there are about 120 people working in the department."

The projects he has worked on include three mammoth Floating Production Units - P-52, P-51 and P-56 - as well as two drillship jumboisation and upgrading projects for Noble Corporation.

In the undertaking of these massive projects, Poeschmann not only leveraged BrasFELS strengths but also navigated constraints to spawn unique projects and construction methodologies.

HUMOUROUS LINGUIST

Though Poeschmann is largely well-known for his engineering genius, his repertoire of abilities is actually far more extensive.

Reflecting his German ancestry, Poeschmann's first and last name is atypical for a Brazilian. So much so that once, a young engineer newly-assigned to Poeschmann's department thought that he might be a foreigner, and so sought to accommodate him by asking if he would be more comfortable conversing in Portuguese or English. Amused, Poeschmann cheekily replied, "We can discuss in Portuguese, English, German, Dutch or Spanish whichever works best for you."

AVID SPORTSMAN

In the physical domain, Poeschmann is also no lightweight. When he is away from his desk, the 68 year-old Poeschmann can often be found out at sea, very likely racing at a regatta.

The municipality of Angra dos Reis, where BrasFELS is located, is host to about 18 regattas a year. If you were to ask Poeschmann about his participation in these races, he would sheepishly admit that he is in all of them, unless they coincided with some operations at BrasFELS.

NURTURING TEACHER

While Poeschmann's gifted mind and all-round talents deserve admiration, he should be more respected for his willingness to teach.

Over time, his engineering talent and mentorship capabilities have become well-known even outside of BrasFELS. Some years back, a group of young engineers

from BrasFELS were asked by their professor at Rio de Janeiro University why they were taking a course at the institution when they could be back at the yard learning from Poeschmann.

A young member of Poeschmann's department, Olivier de Montgolfier, Junior Naval Engineer of BrasFELS, said, "Poeschmann's door is always open. He is always ready to help when you approach him, and he puts in a lot of effort to help you understand the rationale behind the ideas."

Mauricio Kumpel, Engineering Supervisor of BrasFELS, said, "Poeschmann looks at a situation from engineering and production points of view. As such, his ideas, while creative, are very practical; the details for execution are usually already fleshed out. He is open-minded and encourages us to give feedback and inputs to his ideas."

GROUNDING INNOVATOR

When asked about the guiding principles behind his work, Poeschmann simply shared, "I believe that we can always make improvements, especially if we are repeating a task. However, in all that we do, we must ensure that the technical fundamentals are sound."

With these principles, Poeschmann remains firmly grounded even as he helps to scale new heights for BrasFELS and the Brazilian oil and gas industry.

Broadening horizons

Keppel Offshore & Marine's (Keppel O&M) two yards in Brazil, BrasFELS and Keppel Singmarine Brasil, have been building up their capabilities rapidly. Their growth is in part spurred by the group's strong emphasis in training and developing its people.

In line with this focus, nine young Brazilian talents were in Singapore for the Diploma (Conversion) in Marine & Offshore Technology (DCMOT) course (see page 29) – a joint programme between Keppel O&M and Ngee Ann Polytechnic – as well as hands-on training at Keppel FELS, Keppel Shipyard and Keppel Singmarine.

OffshoreMarine speaks to these young Keppelites on their experiences in Singapore:

"This experience has been good for my personal and professional growth. This is my first time out of Brazil. It has been such an enriching experience. The contents of this training stint in Singapore are very relevant to my work at Keppel Singmarine Brasil, and I will have many opportunities to apply what I have learnt when I am back home."

Cassio Semann Kim, Draftsman (Mechanical & Piping), Keppel Singmarine Brasil

"This has been an eye-opening experience. The trainings at the various Keppel yards in Singapore have exposed me to a greater variety of shipyard operations and practices. Meeting our colleagues in Singapore as well as other parts of the world, has given me the



Through a robust technical course and attachments to Keppel's yards in Singapore, Keppel's young talents from Brazil broadened their understanding of the offshore and marine industry

opportunity to tap their ideas and experiences."

Lourenço Bragantino, Draftsman (Accommodation), Keppel Singmarine Brasil

"It came as a pleasant surprise to me that despite my colleagues coming from around the world and from very different backgrounds, we were fast friends and able to share readily. I think this comes from us having the same core values."

Fabiano Vieira, Engineer (Electrical), Keppel Singmarine Brasil

"We have heard about how Keppel's yards in Singapore are operated but were never able to fully visualised how things are done. This training and development programme has allowed us to not only witness Keppel's operations in Singapore but also allowed us to clarify our queries with our colleagues here. We also got to visit Bintan Offshore in Indonesia, which has added to our understanding of how Keppel's global yards support each other."

Marcelo Mazia Enami, Engineer (Hull), BrasFELS

"Through our interactions with our colleagues in Singapore and other parts of the world, we have been able to get a fuller picture of the differences and similarities between the various Keppel operations. In addition, we got to learn more about Keppel's journey through the years from our more senior colleagues. Overall, I am left with a deep impression of the group's commitment to continuous improvement and growth."

Bruno Haruo Uemoto, Engineer (Crane), BrasFELS

"This experience has broadened our perspective of the offshore and marine industry. We learnt about the full value chain and evolving requirements of the industry. This gives us a better appreciation of Keppel and BrasFELS as well as enables us to more readily understand the needs of our customers."

Romeia Satie Sartori, Engineer – Shipwright (Painting), BrasFELS

Brazilian surf

While most young engineers were still feeling their way around their first jobs upon graduating from university, Bruno Ng already had his eyes set on a clear goal – an opportunity to work overseas and in a country as far away from Singapore as possible.

Shortly after joining Keppel FELS in 2007 as an engineer in the piping production department, Bruno came to know about Keppel FELS Brasil and its BrasFELS yard in Angra dos Reis. He was fascinated by this unusual yard location and was determined to work towards a stint in Brazil, which Bruno describes as “exotic”. After working hard for three years, Bruno’s request for a posting to Brazil was granted and he flew to BrasFELS in 2010.

For the first two years in BrasFELS, Bruno continued in his role in piping production. Towards late 2012, he was assigned as a Project Manager on the first DSS™38E

semisubmersible (semi) project for Sete Brasil. Today, he manages a team of 200 Brazilians who work on the project, with the support of two engineers also seconded from Keppel FELS.

As a Project Manager of the first drilling semi project to be undertaken by BrasFELS, Bruno knows he is part of a team shouldering heavy responsibilities. “The DSS™38E involves a lot of processes and there is a need to get all the team members and workers aligned to the critical path. For our Brazilian colleagues, their emphasis is on getting the work done to the highest quality possible, so my focus is to ensure that they also understand the need to strike a balance with timely completion of the work,” Bruno shared.

On other challenges working in BrasFELS, Bruno said, “It is common for miscommunication to occur when information does not reach everyone in the team. So I spend

a lot of time communicating with my team and getting buy-in from the supervisors. In Brazil, the authoritarian approach does not work and we need to explain to our team members our rationale for doing things in a certain way. Rapport is important in earning their respect, so I make sure I talk to the people and hear their concerns too. They understand that I push based on critical issues.”

Fortunately, it is not all work and no play in Brazil for Bruno. To unwind, Bruno spends weekends at the Da Tijuca beach in Barra, which is a two-hour drive from Angra dos Reis, to indulge in his love for kite-surfing. It is a water sport which harnesses the power of the wind with a large kite, to pull the surfer across the water surface on a wakeboard. At the Da Tijuca beach, there is a community of kite-surfers, and it is through this sport that he got to meet many interesting Brazilian friends from all walks of life outside of the yard.

“I like the Latin American culture – like in Brazil – where different races can mix so well together without any form of prejudice. I can also identify with the openness of Brazilians – they can talk about anything under the sun,” Bruno added.

With his love for all things Brazilian, Bruno will have no problems spending the next two years in BrasFELS seeing through the completion of the first DSS™38E semi to be delivered to Sete Brasil in 2015.



Bruno Ng (left), Project Manager at BrasFELS, bonds with his Brazilian friends at a costume party in typical Brazilian fashion - with lots of fun, laughter and bantering

Inspiring alumnus



Mr Aziz Merchant (right), ED (Deepwater Technology) of Keppel Offshore & Marine Technology Centre, ED of Deepwater Technology Group and ED (Engineering) of Keppel FELS, received the Ngee Ann Polytechnic Alumni Award from Mr Tang Kin Fei (left), Council Chairman of Ngee Ann Polytechnic

of its alumni who have made a difference in their respective fields, spanning the arts, business, and science & technology.

Singapore's Prime Minister Lee Hsien Loong was Guest-of-Honour of the event held on 3 May 2013.

Among the award recipients was Mr Aziz Merchant, ED (Deepwater Technology) of Keppel Offshore & Marine Technology Centre, ED of Deepwater Technology Group and ED (Engineering) of Keppel FELS.

A member of Ngee Ann Polytechnic's Marine & Offshore Technology Advisory Committee,

Mr Merchant was lauded for exemplifying the school's values and indomitable spirit as well as contributing to the offshore and marine industry.

Mr Merchant shared, "It is my privilege to receive this award from my alma mater. My years as a student at Ngee Ann Polytechnic have been greatly instrumental in honing my skills and knowledge, laying the foundations for my future successes. I am honoured today to be able to share my experiences and inspire this new generation of students to strive for excellence in their respective fields."

At Ngee Ann Polytechnic's 50th anniversary celebration dinner, the institution honoured 25 members

Another good year

Keppelite Recreation Club (KRC) held its 37th Annual General Meeting on 29 April 2013 at Keppel Housing's Acacia Lodge. More than 180 KRC members attended the meeting.

In his address to KRC members through the KRC Annual Report 2012, Mr Hoe Eng Hock, President of KRC, noted that membership of the club has grown to about 8,000 members as at end 2012.

He said, "We are encouraged by this strong and growing support for KRC, which also spurs us on to continue organising meaningful activities for our members."

To promote healthy lifestyle and to develop sporting excellence, KRC organises sports activities for its members, such as the KRC Bowling League, the 9-a-side soccer league, and cross country runs. KRC also convened the Keppel Games 2012, which saw a total of 14 sports events held over four months.

In 2012, KRC also organised social activities such as fun fishing and overseas trips to Mount Ophir, Vietnam and Bangkok, to promote bonding among members. To encourage giving back to the community, KRC actively participated in charity events such as the SPCA Charity Run, the

Community Chest Heartstrings Walk and the SGX Bull Charge Charity Run.

The management committee for 2013 was elected at the meeting, and Mr Hoe rounded up by thanking all KRC members for their continued support. He added, "The management committee will work hard for another good year ahead for KRC."

Supporting the maritime fraternity



Keppel management, alumni and friends came together for the SNAMES 40th anniversary dinner on 15 May 2013. Keppel was Platinum Sponsor for the dinner, reiterating its appreciation for SNAMES' contributions to the naval architecture and engineering community in Singapore

Keppel Offshore & Marine (Keppel O&M) regularly supports events or forums that advance Singapore's offshore and marine sector. It was the Platinum Sponsor of the Society of Naval Architects & Marine Engineers (SNAMES) 40th anniversary dinner on 15 May 2013 held at Pan Pacific Singapore.

The Guest of Honour for the dinner was Mr S. Iswaran, Minister

in Prime Minister's Office, Second Minister for Home Affairs and Second Minister for Trade and Industry. Around 350 guests, comprising maritime engineering professionals from the various companies in Singapore's maritime industry, including Keppel O&M, attended the dinner.

At the dinner, SNAMES conferred Honorary Fellowships to two

pioneers: posthumously to the late Mr Chua Chor Teck, who was one of the founders of The Society of Naval Architects (SONAS) that preceded SNAMES, and the former MD of Keppel Group, and to Mr Cheng Huang Leng, who was another founder of SONAS and highly respected in the maritime fraternity.

The annual dinner organised by SNAMES has traditionally been an event for members to relax whilst meeting old friends as well as new business associates from the industry. SNAMES was formed in 1981 to facilitate the exchange of ideas on the practical and scientific aspects of the design, construction, operation, repair and maintenance of marine-related structures and vessels. It also aims to provide platforms for members to network.

Onward March

Many Stories...One Singapore – that is the theme of Singapore's 48th National Day Parade (NDP). This theme resonated with the members of the Keppel contingent who are from different background, ethnicities and cultures, but have been training hard to march as one to do Singapore and Keppel proud.

Cheer them on as they put their best foot forward on 9 August 2013!



The Keppel contingent rehearsing for the National Day Parade 2013

New lease of life



(Top, clockwise) A pre-school has been set up at the Keppel-GK Eco Village, providing young residents with a safe and accessible place to learn and play; A young family enjoying a quiet evening together at home; Keppelites, together with the residents of the Eco Village, contributed to a better living environment by cleaning Igiw Falls and planting trees; Mr Poh Leong Kok (left), President of Batangas Shipyard, Ms Agnes Barbara L. Lorenzo (second from left), Senior Vice President (Finance and Administration), Keppel Philippines Marine, and representatives from charity organisation Gawad Kalinga marked the official naming of the Nelson Yeo Hall

The Keppel-GK Eco Village , a housing project for the needy in Bauan, Batangas in the Philippines, marked its second anniversary on 12 June 2013. The 60-unit housing development was jointly developed by Keppel, charity organisation Gawad Kalinga (GK) and the local government. The development broke ground in April 2011.

At the anniversary celebration, residents expressed their appreciation for the Eco Village, which has brought their families

invaluable support and newfound hope.

Together with employees of Keppel Batangas Shipyard and members of GK, the residents kick-started the celebratory occasion by planting tree saplings and cleaning Igiw Falls, a waterfall and stream near the Eco Village. These initiatives were part of the residents' efforts to give back to the community, as they had benefited from the generosity and kindness of others.

In addition, a multi-purpose hall at the Eco Village was officially named the Nelson Yeo Hall, in memory of Mr Nelson Yeo, the late MD (Marine) of Keppel Offshore & Marine, MD of Keppel Shipyard and Chairman of Keppel Philippines Marine. Mr Yeo had been instrumental in driving the development of the Eco Village as well as other community-building initiatives.

With strong support from Keppel and the larger community, the residents of the



(Left) Dr Lee Boon Yang (centre), Chairman of Keppel Corporation, and Mr Toh Ko Lin (left), President of Keppel Philippines Marine, interacted with the young residents of the Keppel-GK Eco Village at their pre-school within the compound; Members of Keppel Corporation's Board Safety Committee – Dr Lee Boon Yang (fifth from left), Chairman of Keppel Corporation, Mr Tan Puay Chiang (third from right), Independent Director, and Mr Tan Ek Kia (fourth from right), Independent Director – and Keppel management visited the residents of the Keppel-GK Eco Village in June 2013

Eco Village continue to strive for better lives.

More pictures of the Eco Village and its residents will be shared at www.keppcorp.com/keppelat45.

"My wife and I are very thankful for the opportunity to raise our children in the Keppel-GK Eco Village. As the Eco Village is a gated community where we help to look out for one another, we know that our children are safe in the compound. Our previous neighbourhood was much less secure. Indeed, we sometimes had to take turns to stay up at night to watch out for flooding.

"Since moving to the Eco Village, my wife and I have been working hard to be good role models to our children and contributive members of the community. We now focus on saving our hard-earned money for our children's future instead of indulging in gambling."

Reynaldo Subro, 42 years old, Shipfitter at Keppel Batangas Shipyard, lives in the Eco Village with his wife and four children

"Life was very tough before we moved to the Eco Village. We used to rent a small apartment, and had difficulty making ends meet. Now with our own home, without monthly rentals, we have more money for our three children's education. My eldest child stopped going to college because of our limited funds, we are saving for him to go back to school.

"Programmes held at the Eco Village to promote good values also have a great positive impact on my family. These have made our children more discipline and respectful of their elders."

Cheryl Rivera, 42 years old, Seamstress, lives in the Eco Village with her husband and three children

Room for health

Advancing its role as a steward of corporate social responsibility in Brownsville, Texas, Keppel AmFELS donated US\$20,000 to the Brownsville community through their 2012 Annual Charity Golf Tournament's fund raising efforts.

The grateful community responded by dedicating a room at the Brownsville Community Health Centre (BCHC) in honour of Keppel AmFELS. Named on 17 April 2013, the "Keppel AmFELS Wellness Room" will be used for educating diabetic patients on diabetes-management strategies.

Displayed outside the room on a dark wooden mount,

the dedication plaque states, "The Keppel AmFELS Wellness Room will benefit our patients and community members by improving their health and serves as a shining example of the importance of public/private sector collaborations.

"Thank you Keppel AmFELS for your commitment to improving the lives of Brownsville residents through your charitable deeds."

Ruben Trevino, a patient at BCHC, was one of the several patients who spoke at the dedication of the room. He thanked the BCHC staff for their commitment to their patients and for helping him to



Mr Gilberto Elizondo (right), Senior VP of HR in Keppel AmFELS and Ms Paula S. Gomez, ED, BCHC, attend the naming of the Keppel AmFELS Wellness Room in Brownsville Community Health Centre on 17 April 2013

improve his diet and increase his level of exercise. Today, Ruben's cholesterol is within normal limits, his blood pressure in check and his diabetes stable.

Wheels on cause

Ever supportive of Keppelites who participate in meaningful causes, Keppel Offshore & Marine sponsored Mr Mike Holcomb, President of Keppel Marine Agencies, for the BP MS 150 charity biking event held from 20 to 21 April 2013. The event was a two-day, 180-mile ride from Houston to Austin that aimed to raise funds for the research of a cure for multiple sclerosis (MS).

"Joining 13,000 riders, including MS patients and their families on the road for a common cause is an amazing experience. The journey

was challenging but the passion shared by cyclists, sponsors and volunteers alike spurred me on to continue pedaling to the finish line. Keppel's support also gave me an added boost for the challenge," shared Mr Holcomb.

BP MS 150 is part of the larger Bike MS event, which features 100 cycling events across the United States. Bike MS cyclists have raised more than US\$1 billion for multiple sclerosis research since the programme's inception in 1980.



Mr Mike Holcomb, President of Keppel Marine Agencies, took part in BP MS 150, a challenging cycling event in support of research on cure for multiple sclerosis

GLOBAL NETWORK

Keppel Offshore & Marine Ltd

(Head Office)
50 Gul Road Singapore 629351
Tel: 65 6863 7200
Fax: 65 6261 7719
www.keppelom.com

SINGAPORE

Keppel FELS Ltd

(Pioneer Yard 1 – Head Office)
50 Gul Road Singapore 629351

(Pioneer Yard 2)

55 Gul Road Singapore 629353

(Shipyard Road)

31 Shipyard Road Singapore 628130

(Crescent Yard)

60 Shipyard Road Singapore 628131

Tel: 65 6863 7200

Fax: 65 6261 7719

www.keppelfels.com

Email: marketing@keppelfels.com

Contact Persons: Wong Kok Seng, Managing Director
Aziz Amirali Merchant, Executive Director (Engineering)
Keith Teo, General Manager (Marketing)

Keppel Shipyard Ltd

(Tuas Yard – Head office)

51 Pioneer Sector 1 Singapore 628437

Tel: 65 6861 4141

Fax: 65 6861 7767

(Benoi Yard)

15 Benoi Road Singapore 629888

Tel: 65 6861 6622

Fax: 65 6861 4393

(Gul Yard)

55 Gul Road Singapore 629353

Tel: 65 6861 3007

Fax: 65 6862 3645/7

www.keppelshipyard.com

Email: ks@keppelshipyard.com

Contact Persons: Chor How Jat, Managing Director
Louis Chow, Senior General Manager (Commercial)
Mah Chan Wah, General Manager (Commercial – Shiprepair)

Keppel Singmarine Pte Ltd

15 Benoi Road Singapore 629888

Tel: 65 6861 6622

Fax: 65 6862 1792

www.keppelsingmarine.com

Email: singmarine@keppelsingmarine.com

Contact Persons: Hoe Eng Hock, Managing Director
Poon Tai Lum, General Manager (Commercial/Marketing)

Keppel Offshore & Marine Technology Centre (KOMtech) Pte Ltd

31 Shipyard Road Singapore 628130

Tel: 65 6591 5450

Fax: 65 6265 9513

Email: KOMtech@keppelom.com

Contact: Dr Foo Kok Seng, Executive Director

(Shallow Water Technology)

Aziz Amirali Merchant, Executive Director (Deepwater Technology)

Offshore Technology Development Pte Ltd

55 Gul Road Singapore 629353

Tel: 65 6863 7409

Fax: 65 6862 3465

Email: felsotd@pacific.net.sg

Contact Person: Dr Foo Kok Seng, Executive Director

Deepwater Technology Group Pte Ltd

50 Gul Road Singapore 629351

Tel: 65 6863 7163

Fax: 65 6863 1739

Email: aziz.merchant@keppelfels.com

Contact Person: Aziz Amirali Merchant, Executive Director

Email: anis.hussain@keppelfels.com

Contact Person: Anis Altaf Hussain, General Manager

Marine Technology Development Pte Ltd

15 Benoi Road Singapore 629888

Tel: 65 6860 2858

Fax: 65 6862 2562

Email: chenghui.tan@keppelsingmarine.com

Contact Person: Tan Cheng Hui, Senior General Manager

Asian Lift Pte Ltd

23 Gul Road Singapore 629356

Tel: 65 6668 4222

Fax: 65 6668 4333

Email: asianlift@asianlift.com.sg

Contact Person: John Chua, General Manager

Keppel Smit Towage Pte Ltd

23 Gul Road Singapore 629356

Tel: 65 6668 4222

Fax: 65 6897 8056

Email: kst@keppelsmit.com.sg

Contact Persons: Ben Chew, General Manager (Regional)

Jerry Wong, General Manager (Singapore)

AUSTRALIA

Keppel Prince Engineering Pte Ltd

Level 2, Riverside Quay, 1 Southbank Boulevard,
Southbank, Vic 3006, Australia

Tel: 613 9982 4589

Fax: 613 9551 0624

Email: cchiam@ozemail.com.au

Contact Person: Charles Chiam, Director

AZERBAIJAN

Caspian Shipyards Company Ltd

South Bay, KMNF Basin, Baku AZ1023, Azerbaijan

Tel: 994 12 449 9930

Fax: 994 12 449 9931

Email: csc@csc.az

Contact Person: Chandru Sirumal Rajwani, President

BRAZIL

Keppel FELS Brasil SA

Rua da Quitanda, No. 86, Sala 301,

Centro CEP 20091-005

Rio de Janeiro, RJ, Brazil

Tel: 55 21 2102 9400

Fax: 55 21 2102 9425

Estaleiro BrasFELS Ltda

Av. Conde Mauricio de Nassau, S/n - Jacuencanga

23914 - 460 - Angra dos Reis, RJ, Brasil

Tel: +55 24 3361 6000

Fax: +55 24 3361 6258

www.kfelsbrasil.com.br

Email: kaichoong.kwok@keppelfels.com

Contact Person: Kwok Kai Choong, President & CEO

Keppel Singmarine Brasil Ltda

Rua Prefeito Manoel Evaldo Muller, 3388,

Bairro Volta Grande, Navegantes, Santa Catarina,

Brasil. CEP88-375-000

Tel: 55 47 3342 6460

Fax: 55 47 3405 0170

Email: Chongkee.tan@keppelsingmarine.com

Contact Person: Tan Chong Kee, General Manager

BULGARIA

Keppel FELS Baltech Ltd

54 Debar Street, Varna 9000, Bulgaria

Tel: 359 52 684 250

Fax: 359 52 684 252 (Admin)

Email: office@fels.bg

Contact Person: Lyudmil Stoev, General Manager

CHINA/HONG KONG

Keppel Nantong Shipyard Co. Ltd

No. 9 Yan Jiang Road, Nantong City, Jiangsu Province

P.R. China 226005

Tel: 86 513 8530 0000

Fax: 86 513 8530 0007

Email: edmund.lek@keppelnantong.cn

Contact Person: Edmund Lek, President

Keppel FELS Engineering Shenzhen Co. Ltd

3th Floor, Chiwan Petroleum Building

Chiwan Road No. 5, P.R. China 518068

Tel: 86 755 26851902, 86 755 26851959,

65 68637215 (Singapore Contact)

Fax: 86 755 26851670

Email(China): jiongheng.ho@kfelsshenzhen.com

Email (Singapore): jiongheng.ho@keppelfels.com

Contact Person: Ho Jong Heng, General Manager

INDIA

Keppel FELS Offshore and Engineering Services Mumbai Pte Ltd

Unit 3&4, 8th Floor, Prism Tower-A, Mindspace,

Link Road, Goregaon (West), Mumbai 400 062, India

Tel: 91 22 4001 8888

Fax: 91 22 4001 8898

E-mail: kabeer.syedahamed@keppelfels.com

Contact Person: Syed Ahamed Kabeer, General Manager

INDONESIA

PT Bintan Offshore

Jalan Nusantara KM 23, Kecamatan Bintan Timur,

Kabupaten Bintan, Propinsi Kepulauan Riau, Indonesia

Tel: 62 771 462 800

Fax: 62 771 462 575

Email: yauchai.nam@keppelfels.com

Contact person: Nam Yau Chai, General Manager

JAPAN

Regency Steel Japan Ltd

46-59 Nakabaru, Tobata-ku

Kitakyushu, Fukuoka 804-8505 Japan

Tel: 81 93 861 3103

Fax: 81 93 861 3114

Email: ws.chong@r-sj.com

Contact Person: Wong Chun Yu, President

KAZAKHSTAN

Keppel Kazakhstan LLP

SEZ "Seaport Aktau", Aktau 130001, Mangystau Region

Republic of Kazakhstan

Tel: 7 7292 571 100

HP: 7 300 528 4885

Fax: 7 7292 571 110

Email: pw.yick@kkl.kz

Contact Person: Yick Ping Wong, General Director

THE NETHERLANDS

Keppel Verolme BV

Prof. Gerbrandwyweg 25, 3199 KK Rotterdam-Boleek

Harbour no. 4550, P O Box 1001, 3180 AA Rozenburg

The Netherlands

Tel: 31 181 234300

Fax: 31 181 234346

www.keppelverolme.nl

Email: mail@keppelverolme.nl

Contact Person: Harold W.M. Linsen, Managing Director

THE PHILIPPINES

Keppel Philippines Marine, Inc

Unit 3-B Country Space 1 Building, Sen. Gil Puyat Avenue,

Salcedo Village, 1200 Makati City, Philippines

Tel: 63 2 892 1816

Fax: 63 2 815 2581

www.keppelphilippinesmarineinc.com

Email: mhq@keppelpm.com or commercial@keppelpm.com

Contact Person: Toh Ko Lin, President

Stefan Tong, Executive Vice-President

Keppel Batangas Shipyards

Keppel Philippines Marine – Special Economic Zone

BO, San Miguel, 4201 Bauan, Batangas, Philippines

Tel: 63 43 7271532 to 36

Fax: 63 43 72714885 or 63 43 7271453

www.keppelphilippinesmarineinc.com

Email: kbs@keppelpm.com

Contact Person: Poh Leong Kok, President

Keppel Subic Shipyards, Inc

Subic Shipyards – Special Economic Zone

Cabangaan Point, Cawag

2209 Subic, Zambales, Philippines

Tel: 63 47 232 2380

Fax: 63 47 232 3350, 63 47 232 3883 to 84

Email: all@subicship.com or commercial@subicship.com

Contact Person: Leong Kok Weng, President

QATAR

Nakilat-Keppel Offshore & Marine

Erhama Bin Jaber Al Jalahma Shipyards

Southern Break Water, Ras Laffan Industrial City (RLIC)

P.O. Box 28388, Qatar

Tel: 974 4419 7300

Fax: 974 4419 7301

Email: commercial@nk.com.qa

Contact Person: Abu Bakar Mohd Nor, CEO

UNITED ARAB EMIRATES

Arab Heavy Industries

P O Box 529, Ajman, UAE

Tel: 971 6 526 3232

Fax: 971 6 526 3233

www.ahi-uae.com

Email: ahiaeme@emirates.net.ae

Contact Person: Jimmy Loh, Managing Director

USA

Keppel Offshore & Marine USA, Inc

5177 Richmond Ave, Suite 1065, Houston, TX 77056, USA

Tel: 1 713 600 8380

Fax: 1 713 600 8384

Email: tommy.sam@keppelfels.com

Contact Person: Tommy Sam, Vice President

Keppel AmFELS, LLC

20000 State Highway 48

Brownsville, TX 78523, USA

Cell: 1 956 592 6149

Tel: 1 956 831 8220

Fax: 1 956 831 6220

Email: g.tan@keppelamfels.com

Contact Person: Tan Geok Seng, President & CEO

FloaTEC, LLC

14701 St. Mary's Lane, Suite 250, Houston, TX 77079

Main Tel: +1 281 870 5200

Main Fax: +1 281 870 5210

Email: businessdevelopment@floatec.com

www.FloaTEC.com

Direct Tel: +1 281 870 5556

Mobile: +1 281 381 2781

Email: ehnamtvdt@floatec.com

Contact Person: Eric H. Namtvdt, President

Keppel Marine Agencies International, LLC

(Texas Office)

5177 Richmond Ave, Suite 1065, Houston, TX 77056, USA

Tel: 1 713 600 8371

Fax: 1 713 600 8374

Email: mike.holcomb@kmai-houston.com /

Contact Person: Michael Holcomb, President/Director

Mobile 1 713 816 0438

Email: john.bajor@kmai-houston.com

Contact Person: John C Bajor, Marketing Manager

Mobile 1 713 922 3226

(New Jersey Office)

15 Huddy Avenue, PO Box 417, Highlands, New Jersey, USA

Another B Class for Vietnam

Keppel FELS announced on 3 July 2013 that PV Drilling Overseas (PVDO) is acquiring from the company a KFELS B Class jackup rig.

Scheduled for delivery in 1Q 2015, the high specification rig will be the 19th KFELS B Class rig on order at Keppel, with 45 already delivered since 2000.

Mr Pham Tien Dung, Chairman of PVDO and CEO of PV Drilling said, "We are looking to catch up on the huge demand for offshore rigs and actively seize the opportunities coming. To meet this aim, we are pleased to be able to acquire a premium jackup rig with such an early delivery schedule. This is an important addition to our current fleet of rigs to expand our fleet through acquisitions and charters to accelerate our drilling programme for Vietnam and the overseas market."

The KFELS B Class jackup design was developed by Keppel's technology arm, Offshore Technology Development. It is able to operate in water depths of 400 feet, drilling depth of 30,000 feet and accommodate up to 150 men.


Mr Wong Kok Seng, MD (Offshore) of Keppel O&M and MD of Keppel FELS, said, "We are pleased to provide PVDO with a KFELS B Class jackup rig to suit their schedule. Even though we have a number of deliveries slated for 2015, our construction programme allows us the flexibility to meet our customer's requirements.

"Having just delivered our 45th KFELS B Class rig, and with another 19 on order, this proven design has been the rig of choice for the offshore drilling industry. We look forward to providing

PVDO with a high quality rig on time, on budget and in a safe manner."

Readily upgradeable to higher performance capabilities, KFELS B Class rigs incorporate Keppel's advanced and fully-automated high capacity rack and pinion elevating system, and self-positioning fixation system. It provides maximum uptime with reduced emissions and discharges. For its environmental-friendly features, the KFELS B Class design was bestowed the Prestigious Engineering Achievement Award from Institution of Engineers Singapore in 2009.

Keppel FELS previously delivered three KFELS B Class jackup rigs and a semisubmersible drilling tender to PV Drilling.



Keppel FELS has on order 19 KFELS B Class rigs and has delivered 45 such jackups since 2000