

## Review 2016



## *A Note from Our* **Executive Director**



Dear Colleagues

I am pleased to inform you that for FY2016 NSL Group Profit before tax improved to \$17.5 million from \$7.1 million in FY2015. This is due mainly to better performance by the overseas operations of Precast & PUB division in Dubai, Malaysia and Finland as well as lower losses incurred by Environmental Services division. Turnover was \$337.0 million in FY2016, comparable to FY2015.

### **Significant Milestones**

There are some significant milestones that were achieved by the Divisions in 2016. Read more about their development highlights on page 6 and 7.

### **Innovation and Leveraging on technology**

As reported by Chairman in the letter to shareholders in our Annual Report 2016, the Group continued to leverage on its strength in technology and research and development to bring about higher productivity in its operations, and to create better and more innovative products and services.

For the Precast & PBU division, the development of various green concrete materials from recyclable materials gained recognition and certification from the Singapore Environmental Council. The division also embarked on a project to revamp its Enterprise Resource Planning system using cloud-based computing solutions to improve its productivity.

The Environment Service division further optimised its logistic operation by deploying a cloud-based internet of things solution. The division is now able to update and issue documents offsite, monitor and control embedded sensors in vehicles, tanks and other equipment. This has greatly enhanced operational efficiency and customer service.

During the year, NSL Research and Development (R&D) department partnered local government agencies and tertiary institutions to study and find viable solutions to environment-related issues. The use of steel slag aggregates for low noise asphalt for roads in Singapore was an outcome of such collaborative study with National University of Singapore and Land Transport Authority.

NSL will continue to deepen its core strength of developing innovative products and services and deploying technologies for productivity and cost competitiveness.



**THIS IS TO ENSURE THAT THE GROUP SUSTAINS ITS COMPETITIVE EDGE IN AN INCREASINGLY DISRUPTIVE BUSINESS ENVIRONMENT.**

I appreciate all the efforts that everyone contributed to the Group in the past financial year. Going forward, the world economy is expected to sustain moderate growth. However, uncertainties from geopolitical tensions and growing trade protectionism would remain a concern. Let's continue to work together as a team to tide through this disruptive business environment.

**Dr Low Chin Nam**

## NSL Group Profit Before Tax Improved to \$17.5 Million for FY2016

- Better performance was lifted by higher contributions from overseas operations in Precast & PBU division
- Proposed dividend of \$0.25 per share, comprising a final dividend of \$0.05 per share and a special dividend of \$0.20 per share

### Group Overview

Financial Highlights (Continuing Operations)	2016 S\$'000	2015 S\$'000 (restated*)	Change %
<b>Continuing Operations</b>			
Group Turnover	336,968	337,364	-
Group Profit Before Tax	17,684	7,064	148
<b>Group Profit Attributable to Shareholders</b>			
- from continuing operations	13,885	8,272	68
- from discontinued operations	117,470	58,483	101
	131,355	66,755	97
<b>Earnings per share (cents) - including discontinued operations</b>	35.17	17.87	97

\* Figures have been restated due to the divestment of Dry Mix business in 2016.

NSL Ltd achieved a turnover of \$337.0 million in FY2016 which is comparable to the \$337.4 million in FY2015. Precast & Prefabricated Bathroom Unit (PBU) division reported lower revenue in FY2016. However, this was compensated by higher revenue from Environmental Services division.

Profit before tax rose 148% to \$17.5 million in FY2016 from \$7.1 million in FY2015 due mainly to better performance by the overseas operations of Precast & PBU division in Dubai, Malaysia and Finland and lower losses incurred by Environmental Services division.

After taking into account income tax and non-controlling interests, the Group reported a profit attributable to shareholders from continuing operations of \$13.9 million in FY2016 compared to \$8.3 million in FY2015.

On 14 December 2016, the Group completed the disposal of Dry Mix business for a cash consideration of \$155.3 million. The transaction unlocked substantial value in the dry mix business resulting in a divestment gain classified under discontinued operations of \$101.6 million and lifted total attributable profit to \$131.4 million in FY2016.

### Looking Ahead

For the coming year, the world economy is expected to sustain moderate growth. However, uncertainties from geopolitical tensions and growing trade protectionism would remain a concern.

NSL will continue to deepen its core strength of developing innovative products and services and deploying technologies for productivity and cost competitiveness. This is to ensure that the Group sustains its competitive edge in an increasingly disruptive business environment.

## Continuing Operations

	The Group		
	2016 S\$'000	2015 S\$'000 (restated*)	Change %
<b>Turnover (S\$' mil)</b>			
Precast & PBU	237.8	244.1	(3)
Environmental Services	75.9	68.3	11
Others	23.3	25.0	(7)
	337.0	337.4	-
<b>Attributable profit / (loss) before tax (S\$'mil)</b>			
Precast & PBU	25.4	14.9	70
Environmental Services	(5.1)	(5.8)	(12)
Share of PSLT results	(0.9)	1.8	n/m
Others (including unallocated corporate expenses)	(1.9)	(3.8)	(50)
	17.5	7.1	146

NSL will proactively seek organic growth where opportunity allows. Following the acquisition of the industrial land in Tuas, development of the organic wastewater treatment facility commenced, and is on track for completion in 2018. This will be an advanced industrial wastewater plant that will service the stringent water treatment needs of the chemical cluster in Singapore. In addition, the capacity of PBU operation in Finland will also be increased to meet growing demand in Scandinavian countries.

In the Precast & PBU division, the precast business in Singapore and Malaysia remains very competitive

with downward pressure on project margins. However, both the precast operation in Dubai and the PBU business in Finland are expected to perform satisfactorily underpinned by healthy order book.

In the Environmental Services division, the waste management services business is likely to remain stable in light of the recovery of the manufacturing sector. The strategic restructuring of the RFO business has put the division in a better position to deal with the challenges and opportunities ahead. The distribution business is expected to be boosted by the synergy with its newly acquired subsidiary.

Associate PEINER SMAG Lifting Technologies GmbH is well placed to improve amid the challenging market conditions following the restructuring of its operations last year.

### Dividend

Subject to the approval of shareholders at the annual general meeting of the Company to be held on 11 April 2017, the Board of Directors is recommending a total dividend of \$0.25 per share for the financial year ended 31 December 2016, comprising a final dividend of \$0.05 per share and a special dividend of \$0.20 per share.



# Precast & PBU

## Review 2016

### Performance

The Precast & Prefabricated Bathroom Unit (PBU) division achieved a slightly lower turnover compared to FY2015. This was mainly due to lower sales reported by its Singapore and Malaysia operations. The higher turnover from operations in Dubai and Finland was not able to offset this decline.

Despite the lower turnover, the division's Profit before tax increased 70% to \$25.4 million. The stronger performance was largely attributable to an increase in profit contribution from its Dubai, Malaysia and Finland operations. These overseas operations did well on the back of higher revenue and/or improved operating margins. However, the slowdown in the domestic building construction market and declining project margins adversely affected the performance in Singapore Precast.

### Development Highlights

In FY2016, Parmarine and Dubai Precast achieved a record year in delivering the highest number of PARMA PBUs and precast concrete volume respectively.

Eastern Pretech Malaysia secured the contract to design, supply and install precast components for IKEA store in Johor Bahru, Malaysia, following the successful completion in Kuala Lumpur, Malaysia.

Eastern Pretech Singapore supplied precast components to several prominent industrial buildings, such as JTC Corporation's four-storey Nanospace and a nine-storey Multiple Users Building at Tampines. It also delivered more than 1,000 units of PBUs for nine blocks of Executive Condominium at Anchorvale Crescent, Singapore last year.

During the year, its Singapore operation completed the production of tunnel segments along the upcoming Thomson-East Coast Line near Springleaf Station. It also secured a similar project for Katong Park Station on the same line. In addition, its Malaysia operation clinched a tunnel segment project for line 2 of Klang Valley Mass Rapid Transit.

Another significant accomplishment in FY2016 was the achievement by its Research and Development Department efforts in the development of various green concrete materials from recyclable materials which had been recognised and certified by the Singapore Environment Council's Green Labelling Scheme. The other milestone during the year was the development of lightweight concrete PBU to meet market demand in Singapore.

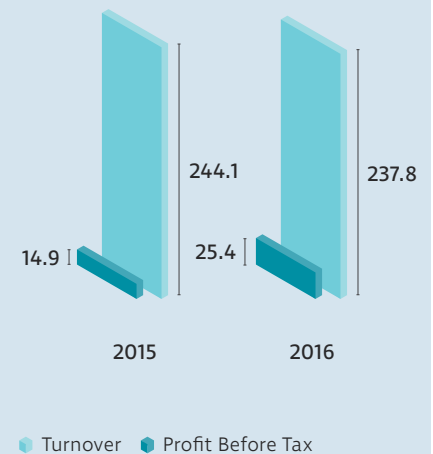
In FY2016, two productivity improvement projects were implemented in the Singapore plant by a team of Eastern Pretech Singapore staff after they went through a six-month Productivity & Innovation Manager course.

### Going forward

For the Precast & PBU division, the precast business in Singapore and Malaysia remains very competitive with downward pressure on project margins. However, both the precast

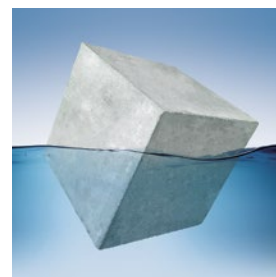
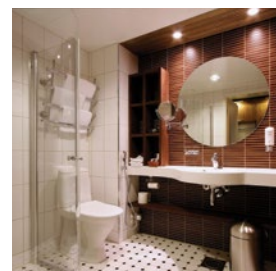
### PRECAST & PBU DIVISION

#### Turnover & Profit Before Tax (S\$million)



operation in Dubai and the PBU business in Finland are expected to perform satisfactorily underpinned by healthy order book.

The PBU plant in Finland will be undergoing expansion to increase production capacity by 30% to meet the increasing demand from the Scandinavian countries.



# Environmental Services Review 2016

## Performance

Turnover of Environmental Services division improved 11% to \$75.9 million in FY2016 on the back of a higher sales volume and with contribution from its newly acquired subsidiary in the distribution business.

As compared to FY2015, the division's loss reduced to \$5.2 million in FY2016. The loss was mainly attributable to weak demand for Recycled Fuel Oil (RFO), depressed RFO price and lower contribution from its waste management services business. A one-off impairment for plant and trade receivables totaling \$2.7 million was also recorded as part of the division's effort to restructure its RFO business.

## Development Highlights

During the year, the division took a significant step to restructure its RFO business by offering deslopping

services directly to its customers, using its own barge, thus strengthening its RFO supply chain in the marine sector.

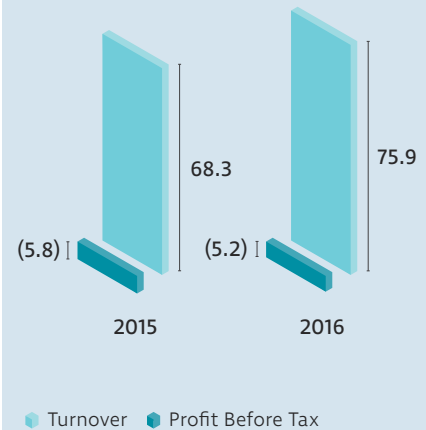
Following the acquisition of the industrial land in Tuas, development of the division's organic wastewater treatment facility commenced, and is on track for completion in 2018. This will be an advanced industrial wastewater treatment plant that services stringent waste treatment needs of the chemical cluster in Singapore. In addition, the capacity of its existing inorganic wastewater treatment plant in Tuas was also expanded by 50% in response to increasing demand.

The merger of NSL OilChem Trading Pte. Ltd., the distribution arm of the Environmental Services division, with CNC Petroleum Pte Ltd in August 2016 had resulted in a stronger company with broader offerings that includes the provision of fuel management services.

The fuel management service utilised new technologies to improve productivity for both its customer and itself. The newly introduced lightweight double hull fuel station enable customers to monitor the consumption of fuel real-time online. At the same time, the division can initiate tank top-up when low inventory is remotely detected, enhancing its customer service.

## ENVIRONMENTAL SERVICES DIVISION

### Turnover & Profit Before Tax (S\$million)



This new product was launched at the Tank Storage Asia Exhibition 2016 held in September and garnered positive feedback from visitors and guests.

The distributorship for the prestigious Shell lubricants in Singapore was secured during the year. The division also expanded its market to coastal marine sector with the signing of a three-year contract to manage and operate the Penjuru Jetty.

## Going Forward

For the Environmental Services division, the waste management services business is likely to remain stable in light of the recovery of the manufacturing sector. The strategic restructuring of the RFO business has put the division in a better position to deal with the challenges and opportunities ahead. The distribution business is expected to be boosted by the synergy with its newly acquired subsidiary.



# Raffles Marina Review 2016

By Ray Parry



*The Lady Olivier provides wedding couples an unforgettably grand, one-of-a-kind, march in*

**2**016 will be remembered at Raffles Marina (RM) as the year the MRT did not arrive!!

The promised opening of the new MRT station outside RM, connecting them back to the rest of Singapore was regrettably delayed; the expected excitement and improvement in business for the last quarter of the year did not materialise. However, it is hoped that the train will arrive at their doorstep sometime in second quarter of 2017.

RM's business success depends on a number of separate but related divisions; Marina, F&B, Membership, guest rooms and concessions.

All these areas suffered to differing degrees in 2016 as a result of the slowdown in business, particularly the oil and gas industries, so well represented in the Tuas region.

The Marina business held up relatively well, due to a mixture of demand, competitive pricing and most importantly, good service levels from the marina support team. Food and Beverage was an area where members and guests were found to be more careful in their spending patterns.

Membership numbers remained quite stable, but more growth is expected of this sector. Guest rooms were very heavily impacted by the opening of new hotels in the Western part of Singapore, resulting in a much more competitive market. By successfully obtaining hotel status for this section

of business allowed RM to benefit from online hotel booking sites such as Agoda and Booking.com, thus promoting the hotel rooms to a global market.

Concessioners in RM form an important part of the marina's overall activity, as they help to create a marina hub, offering yacht repair, brokerage and chandlery services. An additional concessioner was welcomed this year supporting RM's fast growing fishing community and a second water sports provider expanding their outreach to the community when it comes to introducing locals to the fun and enjoyment that being out on the water offers.

RM saw the wedding business grow during 2016, especially once the Ballroom and Upper Deck were refurbished.

An event highlight of the year was when RM hosted the first Singapore Rendezvous, a lifestyle show in October 2016. Over 3,500 visitors were attracted to the show and much bigger crowds will be anticipated in the following years.

In the same month, the Club recognized the extraordinary achievements of Singapore's Olympic and Paralympic sailors by extending to them, Honorary Membership of the Club. RM is very keen for these talented young athletes to develop into active long term members of the

Club and participate in Club regattas and social programmes, inspiring everyone and continuing to represent Singapore with distinction.

It is always disappointing when all the efforts and hard work, put in by RM's great team, does not necessarily reflect on the bottom line. Nevertheless much excitement is anticipated in 2017. The opening of Tuas Link MRT station is a real game changer for RM. With the right mindset, controls and commitment to service, RM believes that the best is definitely yet to come.



*The Singapore Rendezvous saw over 3,500 visitors over the weekend to RM*



*RM Chairman Dr Josephine Kwa presenting a Paralympian the Honorary Membership*



# *EPM Continues to Promote* **Precast Technology in Malaysia**

By Lee Mun Sam

## **Innovative Concrete System Seminar**

Eastern Pretech Malaysia (EPM) was privileged to be invited by the prestigious American Concrete Institute, the leading authority and resource worldwide for the development and distribution of consensus-based standard, to be co-sponsor for an event "Innovative Concrete System: Design and Materials" in August last year.

EPM set up a booth at the entrance of the seminar hall to promote their products, services and technology. Former CEO of EPM, Mr Ng Kok Peng, was the only speaker from the precast industry invited to share his experience, insights and views of the precast technology. The one-day seminar was attended by over 100 professional engineers and academicians with the aim of learning new technologies in construction, particularly in the adoption of Industrialized Building System.



EPM's booth setup featuring product brochures and cross sections of hollow-core slabs

A memento was presented to Mr Ng at the end of his talk



Mr Ng addressed the delegates on the Do's and Don'ts in Precast Construction

## **Maiden Participation in the Quantity Surveying Conference**

Realizing the importance of other stakeholders in the industry apart from Engineers, EPM reached out to Quantity Surveyors. Quantity Surveyors estimate quantities of building materials in construction projects and to do that effectively for precast projects, they must understand precast systems.

EPM participated in the Quantity Surveyor International Conference in August last year, held in Kuala Lumpur, Malaysia. The annual event attracted 500 local and international participants from the entire spectrum of the construction industries' professionals.

EPM showcased an array of Hollow-Core Slab sections with the aim of promoting precast concrete technology among Quantity Surveyors. Visitors to the booth inquired about applications of the technology and gained much understanding.

Colleagues from EPM interacting with Quantity Surveyors





# Setting the Benchmark in Malaysia

By Lee Mun Sam



Technical Workshop held in PWD headquarters in Kuala Lumpur

A team of delegates from Eastern Pretech Malaysia (EPM) was invited by a Malaysian government agency, the Public Works Department (PWD) under the Ministry of Works, to provide a technical seminar on the design of precast concrete for buildings on two occasions. The team consisting of then-CEO Ng Kok Peng, Assistant General Manager Lee Mun Sam, Engineers Lee Wei Thiam and Syazwan gave some insights and shared EPM's holistic approach in their design during the seminars, which were attended by more than 100 design engineers in PWD.

These seminars not only helped EPM gained much publicity, but also put them in a position to influence the design of precast in the industry, specifically in the government sector. Both seminars proved to be an effective avenue for EPM to further strengthen its position to be the precast leader in Malaysia. Mr Ng was eventually presented a certificate of appreciation to EPM by the Director of Design Services in PWD, Mr Ir. Azman Jamrus.

# Teeing Off in MBAM Golf Competition

Some senior management at EPM including Mr Ng Kok Peng, Tang Lai Peng and Lee Mun Sam represented EPM in the 20th golf competition organized by the Master Builders Association of Malaysia (MBAM) in August 2016. This annual competition was participated by hundreds of MBAM members across Malaysia and provided a good platform to rub shoulders with many VIPs and other potential customers in the construction industry.



# EP Group Clinched Significant Orders

By Lee Mun Sam

## Sungai Buloh-Serdang-Putrajaya (SSP) Line

Eastern Pretech Malaysia (EPM) has clinched a major order from MMC Gamuda, the main contractor for underground works in the construction of the Sungai Buloh – Serdang – Putrajaya (SSP) Line in Kuala Lumpur, Malaysia. The SSP MRT line is part of the Klang Valley MRT network, and is expected to have a ridership of 533,000 passengers per day once completed. The order consisting of 5,000 tunnel segment rings at a total volume of 36,800m<sup>3</sup> was expected to be produced in the second quarter of 2017. The production of the tunnel segments would be done in Beranang plant.



## Thomson - East Coast Line (TEL)



## Tunneling works at Katong Park Station

Eastern Pretech Singapore and EPM have secured a significant order from contractor Shanghai Tunnel Engineering Co. (Singapore) for the underground works of Katong Park Station for the Thomson – East Coast Line. The companies would be producing a total volume of 21,043m<sup>3</sup> of tunnel segments which would be cast in the Seelong plant. Production would commence in the second quarter of 2017.

The 13km East Coast section of the TEL will link Sungai Bedok in the east with Tanjong Rhu in the west, connecting an area of the island which is currently not connected to the rail network to the city centre. The section will have nine stations, including an interchange with the Downtown Line at Sungei Bedok. The seven-station section between Tanjong Rhu and Bayshore is due to open in 2023, with the remainder of the East Coast section to Sungei Bedok scheduled for completion a year later.

## Hospital Seberang Jaya

EPM was chosen by the main contractor SBAR Bina to design, supply and deliver precast concrete components for Hospital Seberang Jaya in Penang, Malaysia. The project with a total estimated volume of 4,800m<sup>3</sup> is expected to commence in the 2Q2017. The precast elements would be cast in Sungai Petani and Beranang plants.



## Update of IKEA Johor

By Lee Mun Sam

**E**astern Pretech Malaysia (EPM) is expected to complete the production and installation phase of a precast concrete system for Scandinavian furniture chain IKEA in March 2017. (See Issue 18, page 12)

This store will be at Tebrau, Johor Bahru, Malaysia and it is the third IKEA project that EPM has secured. Below is a series of photos on the work in progress.



▲ Completed hollow-core floor ready for finishing works



▲ Installation of precast columns to roof level



◀ View of crane access



▶ Installation of massive 38 tonne precast beam

## DPC Supplies for Route 2020 Extension

By Henrik Jensen

**D**ubai Precast LLC (DPC) was excited to have won the first contract to supply tunnel segments for Route 2020 Metro Extension in Dubai, United Arab Emirates. As an important part of the infrastructure upgrade to support the EXPO 2020 exhibition and the New Al Maktoum Airport in Dubai, the 15km long extension to the Red line named "Route 2020 Metro Extension" was awarded to the Expolink Consortium consisting of French Alstom conglomerate, Spanish business corporation Acciona and Turkish construction company Gulermak.

Construction work on the extension, 11.8km of which will be elevated and 2.3km of it underground, started in the final quarter of 2016. DPC is currently in the setting up phase, with trial concrete mixes already completed. Approximately 1400 rings, the equivalent of about 25,000m<sup>3</sup> of fiber reinforce concrete elements will be produced. The order value of this project is \$13 million.

Production is expected to start in May 2017 with the deliveries to be completed in June 2018. The extended line, which will connect the city to the Expo 2020 site, is expected to start commercial service in 2020 for the World Expo.





# NOC Tackles Environmental Accident

By Young Ying

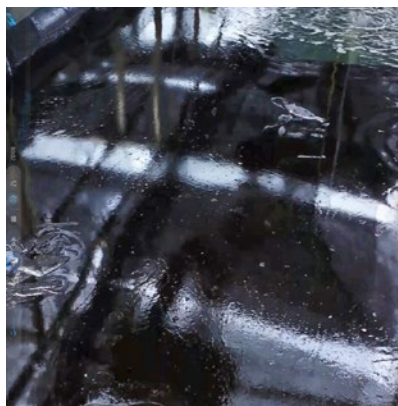
**T**wo vessels collided off Pasir Gudang Port in Johor, Malaysia on 3 January 2017, and caused an oil spill of 300 tonnes which eventually reached Singapore's shores and affected a few fish farms. It was a major oil spill that affected Singapore since 2010. Before one could see the thick black bloom in the waters, one could already smell the heavy fumes of petroleum in the air. Engaged by Marine Port Authority (MPA), NSL OilChem Waste Management (NOC) and sub-contracted parties participated in a joint surveillance of disaster-affected areas with Singapore's Agri-Food & Veterinary Authority and MPA.

NOC was contracted to deal with oil-contaminated sand at Changi Beach. Over 67 tonnes of sand and oily material from Changi Beach were collected and sent for incineration, after which the resulting ash and sand were tested to meet the National Environment Agency's requirements before being disposed on Singapore's off-shore landfill, Pulau Semakau.

Additionally, NOC was tasked to clean up some areas of the oil spill and in the post cleaning operations. A perimeter of booms was laid to contain the oil spill, stopping its spread further and absorbing the oil at the same time. Some 800 meters of oil-stained booms were then brought back to NOC plant for a thorough cleaning with a degreaser and a water jet before being inspected for damage. The waste water was treated and disposed according to regulations. The job took 10 men 15 days including weekends to execute.

NOC played an integral part in reacting quickly to contain the oil spill to mitigate its environmental effects and was proud to have been featured in The Straits Times on 7 January 2017.

<http://www.straitstimes.com/singapore/environment/oil-slicked-sand-to-be-incinerated>



A thick film of black oil coated the waters at a fish farm



Before and After: Cleaned booms in the foreground while oil-stained booms await their turn in the background



Oil-slicked sand bagged and about to be incinerated





## NOCT Distributes Shell and Goes to SG Motorshow 2017

By Phang Mun Wai

Shell's booth at the Singapore Motorshow 2017

**N**SL Oilchem Trading (NOCT) secured the authorized distributorship for Shell Lubricants in October 2016 for Business to Business and Business to Consumer sectors in Singapore. Products distributed include engine oil, motor oil, lubes, greases and more. NOCT was also appointed as Shell's FuelSave Diesel Light Branded Reseller in December 2016. A team attended the value selling training on Shell FuelSave Diesel, a comprehensive training to understand the technical aspects of FuelSave diesel and customer value proposition of using an advanced diesel fuel.

The FuelSave Diesel is enriched with Active Efficiency Ingredients; the NEW Shell FuelSave Diesel is designed to last longer and maintain engine condition by igniting and burning more effectively than regular diesel. It helps to produce more efficient combustion in the diesel engine and keeps diesel injectors clean by preventing the build-up of deposits.

NOCT's Shell Lubricant Team participated in the Singapore Motorshow 2017 to create awareness for Helix Ultra passenger car motor oil at the Shell booth. Over 47,000 visitors attended the event at Suntec Convention and Exhibition Centre between 12 to 15 January 2017. Through special VR experiences, a trick-eye photo corner and interactive games presented by Shell Helix PurePlus and V-Power Nitro+, visitors were able to learn more about the latest innovations in fuel technology.



NOCT team attended the training on Shell FuelSave Diesel



NOCT Shell Lubricant Team is able to provide customers complete oil and lubricant solutions



## *R & D Paves* **Quieter Roads**

**N**SL Research and Development designed an innovative low-noise asphalt concrete in collaboration with National University of Singapore and the Land Transport Authority of Singapore (LTA). NSL Chemicals supplied about 9000 tons to LTA for the road paving of East Coast Parkway Expressway in March this year. An environmentally-friendly product, the low-noise asphalt concrete uses steel slag aggregates, a by-product of steel production. This was the first time steel slag aggregates have been used in expressways; traditionally, steel slag aggregates are only laid on normal roads.

The use of steel slag aggregates for road paving frees up natural aggregates (i.e. granite) for other uses. It reduces carbon footprints due to long-distance aggregates transportation, and preserves landfill space. Other than its environmental benefits, steel slag aggregates can achieve high strength and durability while retaining a relatively high level of air voids for noise abatement and water drainage. In most cases, low-noise surfaces reduce the rolling resistance, thus they might decrease fuel consumption as well.







*First RM*

# National Optimist Regatta

By Vinothini Vijayan and Justin Koh

**R**affles Marina (RM) had the privilege of partnering Singapore Sailing Federation and the National Sailing Centre to host the National Optimist Regatta at its premises for the first time. The annual regatta, usually held in the eastern part of the island, was open to children 7 to 12 years of age and took place on 18 and 19 February. The Optimist is a small, single-handed sailing dinghy sailed by children up to the age of 15. 128 kids participated in the regatta and were grouped according to Gold (intermediate) and Silver (beginner) fleets.

The air was rife with excitement and pre-event preparations saw dedicated parents and their children arriving early at the marina to register and set up for the event. It was a heartwarming sight to see parents being supportive with their children's interest.

Over the two days of the Regatta, the Gold fleet completed six races while the Silver fleet completed four. Despite dark clouds looming in the distance, it was a smooth launch for sailors on the second day. The passing rain did not stop ongoing races or the perseverance of the sailors to continue racing. At the end of the competition, all sailors came back to shore safely. After washing up their boats and equipment, the children headed to enjoy their after-race hotdog buns and the swimming pool.

RM received positive feedback from the young participants on the successful event. The children loved the pool after a long day of sailing. The new competition venue gave the young sailors a new environment to compete. The prize presentation took place at the pool deck and the top 10 sailors from each category were awarded a plaque each.



▲ And the race is on!

◀ The happy young sailors

▶ Mum and dad pitching in



◀ Time to cool down after a hot day in the sun



## *Festivities* **at NSL**



Christmas 2016 was celebrated with a lunch at Rise at Marina Bay Sands Hotel, Singapore, followed by a Secret Santa gift exchange among all who participated.

Staff were treated to a Lo Hei Yu Sheng (Prosperity Salad) and sumptuous buffet lunch in NSL office by Dr Low Chin Nam on 6 February, the 10th day of the Lunar New Year. CEOs from NSL Group and Mr Oo, Adviser to NSL Group, joined the party at the Robinson office and it was filled with chuckles and chatter as everyone ate.





# Raffles Marina Celebrates CNY

By Vinothini Vijayan

**R**affles Marina held their annual Chinese New Year (CNY) celebration for staff on January 10 with Dr Josephine Kwa, Chairman of Raffles Marina Holdings Ltd. gracing the occasion. Each staff received a pair of mandarin oranges together with an Ang Bao as a token of appreciation for their contributions last year.

Staff ushered in prosperity, wealth and good luck via the tossing of the Salmon Yu Sheng, which was led by Henry, Captain's Table Chinese Restaurant's Manager. After the ceremony, everyone tucked into a lavish lunch while having a pleasant chat with their fellow colleagues.

Following the lunch, 20 staff were presented awards for having Perfect Medical & Attendance and Honesty. The Perfect Medical and Attendance Award was awarded to staff who managed to keep themselves healthy throughout the year without taking a day of medical or hospital leave. The Honesty Award was rewarded to staff who had found and returned lost items belonging to members or guests.



All smiles from RML staff before enjoying the CNY lunch



Let's Lo Hei!

Dr Kwa graced the lunch event



Everyone had some fun with a modified version of "Musical Chairs". Participants were given a hat which had to be passed around till the music came to a halt; the last one standing was the winner. The game incited some giggles and laughter that echoed in the room.

Following that, there was a lucky draw session with many staff winning vouchers. A nice start to the New Year!



Winners of the Perfect Medical and Attendance Award



RML is proud of their honest staff!



## CNY Celebrations at EP & NOC



On the 7<sup>th</sup> day of the Lunar New Year which is known as "Ren Ri" (everybody's birthday), about 90 staff came together to toss a mega prosperity salad for a good start to the year. All of them were also treated to a lunch by EP Group CEO, Debbie Tan



The festive air was also present in NOC; staff were treated to a lunch on the 4<sup>th</sup> day of New Year after coming back from the holidays

## Farewell Mr Ng Kok Peng

By Liew Kim Foong and Teoh Teik Aun

**E**PM bid farewell to Mr Ng Kok Peng, former CEO of Eastern Pretech Malaysia (EPM) with a lunch held at Bukit Jalil Golf & Country Resort in Kuala Lumpur (KL), Malaysia. All staff at EPM's KL office, as well as EP Group CEO Debbie Tan attended the lunch, along with management staff from the Beranang plant.

Mr Ng retired officially on the last day of February this year but continued to serve EPM as Advisor. He had spent 24 years in EPM, leading the company to expand from one factory to three factories today. During EPM's annual dinner and dance at Hotel Bangi Putrajaya in KL, Malaysia on 18 February, Mr Matti, current CEO of EPM presented Mr Ng a token of appreciation and thanked him for his relentless dedication. In return, Mr Ng gave a short speech sharing about his time in EPM.

Mr Matti, CEO of EPM handed Mr Ng a token of appreciation



Staff from EPM appreciated the time spent with Mr Ng



# NSL Games 2016/2017

## Snapshots

By Chee Jiawei

*Top bowlers from NOC!*

### Bowl for Gold

Wrapping up the 2016 leg of NSL Games 2016/2017 was the popular bowling event in which over 40 participants from NSL Group took part. The event was held in Civil Service Club (Bukit Batok) on a Saturday morning in November 2016 and the mood was jovial as staff formed teams of four to 'bowl for Gold'. After an hour of non-stop bowling, several teams from NSL OilChem (NOC) and Eastern Pretech Singapore (EPS) stood out among others with their excellent skills to win the top three prizes in the team category. Congratulations to them and special kudos to Leonard and Azri from NOC for being the top male and female bowlers respectively!



### Shooting Stars

NSL Games 2016/2017 in 2017 kicked off with Archery on an unfortunately rainy Saturday afternoon. Thankfully the archery range was semi-sheltered and the activity could carry on as planned. The session began with participants learning the basic shooting techniques from instructors as many of them were unfamiliar with the sport. Some practice sessions and "hunting games" allowed them to hone their skills before the competition started. Congratulations to Lim Siew Howe and Nina from EPS and NOC respectively! They were the sharpshooters in the Men's and Women's categories.

*Congratulations to the top shooters!*



## Introducing Tchoukball

NSL, EP, NOC sent a team each to compete in Tchoukball (pronounced chook-ball), a non-contact team sport which originated in Switzerland in the early 1970s. The participants had fun picking up a new sport in the first half of the session, followed by the competition on a levelled playing ground in the next half. Team NOC dominated the sport, scoring 19 goals. Team EP was the first runner-up with 12 goals, followed by Team NSL with 11 goals.



▲ You only have three seconds to hold the ball, so pass and shoot fast!

◀ Team NOC was everywhere at the same time, all the time

### LATEST MEDAL STANDINGS AS OF 31 MARCH 2017:



Ranking	Teams	Gold	Silver	Bronze	Total Points
1	NOC/NSC	7	6	4.25	37.25
2	EPS	4	5	6	28
3	NSL/RML	1	1	1.75	6.75



# Company Emergency Response Team

By Kenny Lim

A 'fire and explosion' occurs at Tank 103

**N**SL OilChem (NOC) established a Company Emergency Response Team (CERT), a small group of trained personnel appointed to deal with any emergencies and to prevent any escalation of incident prior to the arrival of Singapore Civil Defence Force (SCDF).

The CERT Audit is conducted annually by SCDF to validate the company's CERT's competency in responding and mitigating an initiating incident before SCDF's arrival. Speed and precision are crucial to handle emergencies. On 9 Dec 2016, SCDF personnel from the Jurong Station conducted an audit of NOC CERT by holding a drill at 10am.

The audit process was carried out using the scenario of a fire and explosion which occurred at Tank 103 with 10 casualties around the scene of accident. CERT was then activated and led by Site Main Controller and Site Incident Controller after the alarm was raised by the Security office.

A full company evacuation was carried out under the direction of NOC Fire Wardens while CERT rushed to mitigate the fire at Tank 103. NOC fire fighters searched and rescued two 'casualties' without endangering themselves before the arrival of SCDF, and NOC First Aiders provided immediate first aid to the casualties. The scenario ended with SCDF rescuing the rest of the casualties, and putting out the fire.

During the subsequent exercise debrief, the SCDF Audit team indicated their satisfaction with the overall performance of NOC's CERT. A notable achievement was that the CERT members were able to don their newly acquired firefighting suit with self-contained breathing apparatus in a timely manner, run and fight fire with the heavier suits and equipment. SCDF also took the opportunity during the CERT exercise to test their Unmanned Firefighting Machine at NOC premises.



▶▶  
NOC ERT and  
First Aiders in  
action before the  
arrival of SCDF



SCDF Unmanned Firefighting Machine in action

# Burn Injuries: Treatment and Tips

By Anjana Motihar Chandra

Burn injuries can be reduced significantly through prevention. Find out how to treat burns and on tips to prevent it as the Department of Occupational Therapy at Singapore General Hospital explains.



## How to Treat Burns

The size and depth of the burn determine its treatment and management. All burns, as far as possible, should be cooled with running water for at least 15 minutes, before medical help arrives.

A minor first-degree burn typically is treated at home with the application of an antibiotic ointment from a home emergency kit. In the case of a major second-degree burn, treatment options include occlusive dressing (Air- and water-tight dressing), and surgical interventions. The latter includes wound debridement (removal of non-living tissue from wound), excision (surgical removal of part or all of the non-living tissue) and skin grafting.

"There is a team of doctors at SGH exploring a newer occlusive Biobrane dressing for burn patients. This new intervention can provide faster healing, resulting in better rehabilitation outcomes and a shorter hospital stay," says Ms Pamela Ng, Senior Occupational Therapist, Department of Occupational Therapy, Singapore General Hospital (SGH), a member of the SingHealth group.

Severe third-degree burns would definitely require prolonged treatment. This is because one of the major post-burns complication is hypertrophic scarring (usually slightly raised and occurs within the initial area of the wound). In view of this, patients often have to be on scar management rehabilitation involving skin grafting and scar therapy, and it can take between 18 months and two years to heal. Patients with burns that extend over a joint will require occupational and physical therapy too.

"Because of the pain associated with burns, patients may restrict their movements, but they should be encouraged to return to school or work, and their normal daily activities as soon as possible," says Ms Ng.

Do's	Don'ts
Stay calm	Panic
Place affected area under cold running water for at least 15 minutes	Attempt to remove anything directly sticking to a burn
Remove watch, belt and other constricting items	Apply any lotion / ointment to the affected area
Rush burn victim to the nearest hospital for medical attention	

### Tips to prevent burns in young children

- Keep your child out of the kitchen as far as possible.
- Before you put your baby or toddler in the bath, test the temperature of the water using your elbow.
- Keep matches, lighters and lit candles out of young children's sight and reach.
- Keep hot drinks away from young children.

### Tips to prevent burns in people with diabetes

- Before going into the bath, test the water temperature with your elbow.
- Avoid using a contact warming device such as a heater or a hot pack.

"Diabetics experiencing diabetic neuropathy may develop burns from soaking their feet in hot water, and using a warming device such as a heater," says Ms Ng.

Reproduced with permission from HealthXchange.sg: Trusted health tips tailored for Asia, by Singapore's largest academic medical centre, SingHealth.