

# SINGAPORE'S PARTICIPATION IN OIL & GAS INDONESIA 2015

ASMI, together with 18 Singapore-based companies was in Jakarta recently for the 10th International Oil and Gas Exploration, Production and Refining Exhibition or Oil & Gas Indonesia (OGI) in short. OGI 2015 was held from 9 to 12 September at the Jakarta International Expo in Kemayoran, Jakarta, Indonesia. This was the second time ASMI is organising the national pavilion at OGI.

OGI 2015, a showcase for petroleum, exploration, production and refining services and products, was held concurrently with Mining Indonesia 2015 and Construction Indonesia 2015. The biennial exhibition was organised by PT Pamerindo Indonesia and marketed by Singapore-based International Expo Management Ltd. OGI 2015 was supported by the Indonesian Ministry of Energy and Mineral Resources.

The 246-sqm Singapore Pavilion spanning two island blocks, was located in Hall D near one of the main entrances of the exhibition centre. The exhibitors comprised suppliers of instrumentation and control equipment, safety equipment, hydraulic and welding equipment, lightning protection and earthing systems, bolt tensioning solutions, cable lugs and flanges. There were manufacturers of valves, personal protective equipment, ventilations



fans, winches and heavy lift slings. Companies specialising in compression technology and automation solutions were also in the pavilion.

The Show Organiser reported a total exhibition floor space of 8,000 sqm for OGI 2015. There were a total of 500 exhibiting companies from 30 countries at OGI 2015. Besides Singapore, there were six other national pavilions in OGI. They were from China, Germany, Italy, Korea, the United Kingdom and the United States of America. Singapore's participation at OGI 2015 is supported by International Enterprise Singapore.



Singapore Pavilion @ Oil & Gas Indonesia 2015 in Jakarta.



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## MARINE INDUSTRY MEMBERS WON 65 AWARDS AT WSH AWARDS 2015

The annual Workplace Safety and Health (WSH) Awards 2015 was held on 29 July. 191 recipients received the WSH Awards in six categories, out of 348 applications. Ten ASMI Members, namely Keppel FELS, Keppel Shipyard, Keppel Singmarine, Sembcorp Marine Admiralty Yard, Benoi Yard, Tuas Road Yard, Tuas Boulevard Yard and Tanjong Kling Yard, PPL Shipyard and Multiheight Scaffolding, won 65 awards across four categories.

The WSH Awards, organised by the WSH Council and Ministry of Manpower, were presented in a gala dinner ceremony graced by the Minister for Manpower Mr Lim Swee Say.

Mr Lim iterated the nation's commitment to Vision Zero - a recognition that "every life lost could have been saved", to "make our workplaces safe and healthy for everyone, and make Singapore a country renowned for best practices in WSH". He said that innovation is a key to achieving Vision Zero. "If we can innovate to remove risks right from the start, then there will be fewer lives injured or lost down the road."

The categories of awards presented included the WSH Performance Award, Safety and Health Award Recognition for Projects (SHARP), WSH Developer Award, WSH Innovation Award, WSH Officer Award, WSH Award for Supervisors and WSH Risk Management Award.

The WSH Performance Award recognises organisations that performed well in WSH through implementation of sound WSH management systems or processes. Keppel Singmarine,

Multiheight Scaffolding, Sembcorp Marine Benoi Yard and Sembcorp Marine Tuas Road Yard clinched the WSH Performance Silver Awards.

Most of the awards received were the SHARP Awards which recognise projects that performed well in WSH through implementation of sound WSH management systems or processes. Keppel FELS, Keppel Shipyard, Keppel Singmarine, PPL Shipyard, and Sembcorp Marine Admiralty Yard and Sembcorp Marine Tanjong Kling Yard, received the WSH SHARP Awards for a total of 55 projects.

The WSH Innovation Award recognises work teams for innovations to improve WSH in their workplaces. Keppel Shipyard and Sembcorp Marine Tuas Boulevard Yard were conferred the WSH Innovation Award 2015 for their projects - 'Coupler Servicing Workbench' and 'OSTIUM' respectively. Both these innovations received the GOLD Award at the ASMI 17<sup>th</sup> WSH Innovations Convention in the Marine Industry in 2014. ASMI members won two out of the seven awards in this category.

Three supervisors received the WSH Award for Supervisors for their roles in inculcating and demonstrating care for workers under their charge by improving WSH performance in their workplaces. They are Mr Ayyaperumal Tamizharasan, Supervisor from Keppel Singmarine, Mr Marimuthu Nadaras, Chargeman in Sembcorp Marine Admiralty Yard, and Mr Shamimul Island Late Md Rezaul Karim, Technical Engineer at Sembcorp Marine Tuas Boulevard Yard. They clinched three out of the 11 WSH Awards for Supervisors.

### WSH INNOVATION AWARDS (MARINE INDUSTRY)

#### COUPLER SERVICING WORKBENCH BY KEPPEL SHIPYARD

The Coupler Servicing Workbench is a jig that reduces the physical contact workers have with the coupler and impact wrench during coupler servicing process.

Couplers are used to hold metal poles together in scaffoldings used as temporary platforms for daily work activities. Used couplers are required to be sent for servicing. Workers will use a pneumatic impact wrench to loosen the nuts. This process exposes them to ergonomic injuries because of the constant force and strong vibration from the impact wrench as well as flying parts from fractured coupler during the servicing process.

With the Coupler Servicing Workbench, couplers are locked in place by the jig such that workers do not have to hold onto the coupler when the wrench is applied. The wrench is mounted on a guided slide which align the wrench and nuts. The half enclosed guard prevent flying fragments from injuring the worker. With this innovation, exposure to the strong vibration of the wrench is greatly reduced. Productivity is improved from servicing 80 couplers per hour to 150 couplers per hour.



#### OSTIUM BY SEMBCORP MARINE

OSTIUM is a solution which removes the need for a worker to climb to the top of a 5-metre high hopper to do grit blasting.

During grit blasting in the dry dock, grit and other abrasive materials are blown out when compressed air is used to remove rust, scale and dirt on the vessel. The grit is stored in a hopper and channelled to the blasting pot during the process.

The hopper has to be refilled and a worker will have to climb to the top of the hopper to position a skid filled with grit and hoisted by a crane towards the opening of the hopper. The worker has to open the hopper's hatch cover manually and operate a lever on the skid to unload the grit into the hopper. This process is time consuming and hazardous as the worker is exposed to the risks of getting struck by the skid and fall from height.

The innovation involves modifying the top cover of the hopper. With the installation of pre-positioned angle bars, the worker only has to direct the crane operator to align the skid with the hopper's hatch opening. He then operates the valves at ground level to open the hopper's cover and works the lever on the skid to unload the grit. With this innovation, the risk of falling from height is eliminated as workers can now work safely from the ground.



## ASMI 18<sup>TH</sup> CONVENTION FOR WORKPLACE SAFETY AND HEALTH INNOVATIONS IN MARINE INDUSTRY

ASMI, supported by the WSH Council, organised its 18<sup>th</sup> Convention for Workplace Safety and Health (WSH) Innovations in Marine Industry on 16 September at The Chevrans. Eight teams presented their WSH Innovations to an audience of 200 participants. They were selected from a field of 16 teams in a preliminary round held on 6 August.

The Convention began with a speech by Prof Chan Eng Soon, Chairman of WSH Council (Marine Industries) Committee. Prof Chan said that "This annual convention has been successful in raising safety awareness among marine workers and providing a platform for industry members to showcase their innovations and best practices. Not only has this helped to enhance WSH standards and practices, it has also increased productivity."

Prof Chan commended the teams for their openness and willingness to share their WSH innovations with others. He said that "WSH performance in the industry can be further improved if we adopt the mindset that we can prevent all injuries and be healthy at work or Vision Zero." He urged everyone to support this vision, to spread the message and work together to make this a reality at their respective workplaces.

The projects ranged from *T-Box*, a safe and easy manoeuvring of T-Bar with application of a customised clamp; *El-Aqua*, a fatigue-free bottom hydro-blaster to eliminate the use of forklift during surface preparation and coating operations; *Auto Pad*, a device to eliminate manual handling and lifting operations during arrangement of stiffeners after cutting; and *Secure Station*, a workstation to minimise hazards and reduce hot-work during fitting up of T-Bar.



ASMI 18<sup>th</sup> Convention for Workplace Safety and Health Innovations in Marine Industry.



The Gold Award winners with ASMI President Mr Chow Yew Yuen (in jacket) and ASMI WSH Committee Chairman Mr Yong Chee Min (4<sup>th</sup> from right).

### MARINE INDUSTRY CAREER FAIR

ASMI, Employment and Employability Institute (e2i) and Singapore Workforce Development Agency, organised a Marine Industry Career Fair on 8 July. The career fair was targeted at Singaporean job seekers.

ASMI kickstarted the programme by sharing an overview of the marine industry. This was followed by presentations on company profiles and career opportunities by three shipyard groups - Keppel Offshore and Marine, Sembcorp Marine and

Singapore Technologies Marine. Together they were offering 70 jobs comprising professional, managerial, executive and rank-and-file positions.

E2i also shared on their schemes to facilitate Singaporeans to enter the marine workforce. These schemes included Earn-and-Learn and Place-and-Train programmes. On-the-spot interviews were conducted for the job seekers. The career fair was attended by close to 200 participants.



Job seekers at the Marine Industry Career Fair held at the e2i.



On-the-spot interviews were conducted by the recruiting shipyards.