

# ASMI

2016 3RD QUARTER  
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Newsletter of the Association of Singapore Marine Industries

# News



*Workplace Safety and Health -  
A Shared Responsibility by All*







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## ASMI MEMBERS WIN 55 WSH AWARDS

ASMI members swept a total of 55 awards at the Workplace Safety and Health (WSH) Awards 2016 presentation ceremony held on 27 July. A total of 164 companies and individuals were honoured for their outstanding WSH performances and contributions at the annual WSH Award gala dinner, organised by the WSH Council and Ministry of Manpower (MOM).

Guest-of-Honour Mr Sam Tan, Minister of State for Prime Minister's Office and Manpower, said "The WSH Award is the highest accolade given to those that lead the way in preventing accidents and ensuring that workers and workplaces are kept safe and healthy." It recognises "strong leadership commitment and support for WSH".

This is the 11<sup>th</sup> year of the national award for WSH, an initiative of the WSH Council and MOM. Started in 2006, it recognises companies and individuals who have achieved excellent WSH performances through sound and effective management of WSH issues at their workplaces. They cover key WSH areas, including performance, best practices and innovative ideas. Out of 352 applications, 164 winners received the awards across seven categories this year.

"We have come a long way from 2004 when our workplace fatal injury rate was 4.9 per 100,000 employed persons. Thanks to the collective efforts of many stakeholders, we brought it down to 1.9 in 2015. But poor safety and health practices are creeping back," said Mr Tan. "There is

no room for complacency. Since the start of 2016, 45 workers have lost their lives at work, compared to 33 in the same period last year. We have had to introduce stiffer penalties and stepped up our enforcement and outreach efforts to try to arrest the trend."

Mr Tan added that in the long run, sustained improvements in WSH can only come about if everyone plays their part, and a strong safety culture is created and upheld.

This year, nine ASMI members took home a total of 55 WSH Awards in four of the award categories. These members were Keppel FELS, Keppel Shipyard, Keppel Singmarine, Multiheight Scaffolding, Sembcorp Marine Admiralty Yard, Sembcorp Marine Benoi Yard, PPL Shipyard, Sembcorp Marine Tuas Road Yard and Singapore Technologies Marine. The four award categories were the WSH Performance Awards (Silver Awards), Safety and Health Award Recognition for Projects (SHARP) Awards, WSH Innovation Awards, and WSH Awards for Supervisors.

The WSH Performance Award recognises companies that have performed well in safety and health through the implementation of sound safety and health management systems or processes. Keppel Singmarine, Multiheight Scaffolding, Sembcorp Marine Benoi Yard and Sembcorp Marine Tuas Road Yard won the Silver Awards for this category.

The SHARP Award recognises projects or worksites that have good safety and health

performance and WSH management systems or processes. Keppel FELS won the awards for 12 projects, Keppel Shipyard for 15 projects and Keppel Singmarine for five projects. PPL Shipyard received the SHARP Awards for eight projects. Sembcorp Marine Admiralty Yard was awarded for four projects.

The WSH Innovation Award recognises companies for developing innovative solutions to tackle WSH problems at their workplaces. Three of the eight WSH Innovation Awards went to companies in the marine industry. Keppel Singmarine, Sembcorp Marine Admiralty Yard and Sembcorp Marine Tuas Road Yard did the marine industry proud with their award winning innovative solutions *Mighty Hammer Arrestor*, *Fatigue Free Hull Flat Bottom Hydroblaster El-Aqua* and *Roller Pad* respectively. These three solutions also won the Gold Award at the ASMI 18<sup>th</sup> Convention for WSH Innovations in Marine Industry held in 2015.

The WSH Awards for Supervisor recognises supervisors for demonstrating care for workers under their charge by improving WSH performance in their workplaces. Nine supervisors received this award, three of whom were from the marine sector. They were Mr Kenny Foong Kum Seng, Superintendent from Keppel FELS, Mr Rengasamy Perumal, Senior Foreman from Sembcorp Marine Admiralty Yard and Mr Voon Chuan Chiew, Senior Supervisor from Singapore Technologies Marine.

## WSH – A SHARED RESPONSIBILITY BY ALL

The best way to protect workers is to prevent workplace incidents from happening. When a work-related injury happens, it does not just affect the injured worker and his livelihood or his company. It also impacts his family and his loved ones as well. Workplace Safety and Health (WSH) is a shared responsibility by all because every life matters.

The Vision Zero movement was launched in 2015 during the National WSH Campaign with the message "I can prevent all injuries and be healthy at work." The movement aims to get everyone to take proactive measures and focus on finding solutions to prevent injuries and ill health at work. Vision Zero embraces the mindset that all injuries and ill-health at work can be prevented. It believes that zero harm is possible.

This Vision Zero can be achieved with the commitment and mindset shift of every stakeholder at the workplace. Everyone in the value chain must take ownership of WSH by sharing responsibilities in order to ensure safety for all and take proactive steps to share and address WSH issues.

WSH should be a core value at any workplace. An organisation should have a vision of a safe and healthy workplace, and in that vision, of zero fatalities and zero injuries.

Vision Zero requires a mindset shift from focusing on individual fault finding to one centred on finding solutions to prevent injuries and ill health. The National WSH campaign message this year calls for everyone to "Prevent all injuries. Go home safe and healthy." The onus of prevention and staying healthy is on everyone.

Vision Zero is a journey rather than a destination, as WSH is an on-going effort. There are six steps to follow to embark on the Vision Zero journey:

- Step 1 – Make a commitment.
- Step 2 – Set a goal.
- Step 3 – Communicate the goal.
- Step 4 – Identify WSH challenges.
- Step 5 – Find solutions.
- Step 6 – Renew and monitor progress.

Leadership by senior management in WSH is critical to foster a positive and conducive work environment for Vision



Zero. They must send clear signals that they are committed to bring their workers home safe and healthy. Management must allocate sufficient resources to establish effective WSH management systems and processes to achieve the goals and communicate their targets to their workers and contractors so that they are all aligned to the goals. Companies should then identify the key WSH challenges and determine the risks and hazards, find solutions and review and monitor the progress of these solutions to ensure that goals and specific targets remains relevant.

For more information on the Vision Zero Movement, please visit [www.wshc.sg/visionzero](http://www.wshc.sg/visionzero).

## ASMI MEMBERS WON NATIONAL AWARDS FOR WSH INNOVATIONS AT THEIR WORKPLACES

The marine industry won three WSH Innovation Awards at the national WSH Awards 2016 presentation organised by the Ministry of Manpower and WSH Council. Doing the industry proud were three ASMI member companies – Keppel Singmarine, Sembcorp Marine Admiralty Yard and Sembcorp Marine Tuas Road Yard – which received the WSH Innovation Award for their projects the *Mighty Hammer*

*Arrestor*, the *Fatigue Free Hull Flat Bottom Hydroblaster El-Aqua* and the *Roller Pad* respectively.

The WSH Innovation Award recognises companies for developing practical and innovative solutions to tackle WSH hazards from both safety and productivity angles, and improve WSH in their workplaces.

### The Fatigue Free Flat Bottom Hydroblaster El-Aqua by Sembcorp Marine Admiralty Yard

Workers are exposed to workplace safety and health hazards during hydro-jetting and cleaning of hull flat bottoms of vessels. Hydro-jetting is performed using high pressure guns and to carry out this task, the worker have to operate the pressurised guns close to their bodies.

The close proximity to the high pressure jet not only exposes the workers to the possibility of injuring themselves, but standing for long hours in the same position can also lead to ergonomics-related injuries. In addition, the environment is often wet with low visibility which increases the risk of slips, trips and falls.

To address these risks, Sembcorp Marine Admiralty Yard developed the *El-Aqua*, a modified machine that enables workers to clean the vessels easily. The machine has a stable foundation with a 360-degree free-rotating rear wheel and two forward wheels to move around easily. Compared with the traditionally used pressurised guns, the *El-Aqua* has a 3-in-1 mounted water gun system connected to a rotatable turret with handles so that the workers can swing it left and right to wash the vessels without having to come into contact with the water jets. Workers are also able to adjust the height of the machine.

The *El-Aqua* reduces the risk of hand, finger and arm injuries as well as ergonomic risks by 90%. It is also a greener alternative since it has a cleaner surface preparation method compared to abrasive blasting

which uses toxic materials that are harmful to the environment.



### The Mighty Hammer Arrestor by Keppel Singmarine Pte Ltd

In the marine industry, falling hammer heads pose a threat to workers working below the vessels. The steel hammer is used daily in workshops and on board vessels. Workers may be struck by falling hammer heads. This may result in severe injuries such as skull fractures.

To address the issue, Keppel Singmarine studied the existing methods of securing hammer heads to prevent hammer heads from dislodging. Through its findings, the team decided to use an arrestor, which

is a piece of metal sheet, to secure the hammer head to the handle.

The *Mighty Hammer Arrestor* is a simple yet effective solution. It is made using a 2mm galvanized sheet and secured with lock nuts. It takes only 15 minutes to produce one set of hammer arrestor. Since the implementation of the *Mighty Hammer Arrestor* in many worksites across the shipyard, there has been zero incident of falling hammer heads.



### The Roller Pad by Sembcorp Marine Tuas Road Yard

The shipyard fabricates and assembles pre-fabricated blocks such as steel block structures, pontoons, living quarters, columns, turret rigid arms and helidecks. Existing methods to align the blocks pose various hazards from heavy lifting and falling from height as chain blocks are used to align them manually.

To reduce these risks, Sembcorp Marine Tuas Road Yard invented the *Roller Pad* to fit beneath the blocks so that alignment of the blocks can be conducted easily. The *Roller Pad* is lighter and can be carried by one man. The steel balls in the *Roller Pad* allow free movement and make it easier to adjust the alignment of the blocks, which will minimize the risk of collision and potential mechanical energy hazards.

The *Roller Pad* does not require the use of chain block at the top of the pre-fabricated blocks, thus reducing the need to work at height. The total time taken to perform one horizontal assembly has been reduced by half from 16 hours to 8 hours.

The *Roller Pad* has not only reduced the risk level, it also increased productivity by reducing manpower needed and time taken to assemble the blocks.

