

Responsible Care® Awards 2023



Gerald Lim HR & Admin

On 26 April 2024, the Singapore Chemical Industry Council (SCIC) hosted its Annual Dinner 2024 and Responsible Care® Awards 2023 presentation at the prestigious Shangri-La Hotel Singapore. The event was graced by Senior Minister of State (SMS) for Sustainability and the Environment, Dr. Amy Khor, who delivered a keynote address emphasising the chemical industry's proactive steps to reduce its carbon footprint in the fight against climate change.

n her speech, SMS Dr. Amy Khor highlighted the crucial role of the chemical industry in achieving Singapore's sustainability goals. She also commended PCS for our exemplary Behaviour Based Safety (BBS) programme, recognising it as a model for enhancing workplace safety culture through proactive employee engagement and safety practices.

The Responsible Care® programme is the global chemical industry's initiative to drive continuous improvement in Health, Safety, Environment, and Security (HSES) performance and standards. Launched in 1985 in Canada, the programme's ethic and principles quickly spread to numerous countries. The formation of the International Council of Chemical Associations (ICCA) in 1989, a worldwide body representing chemical manufacturers and producers, has been instrumental in promoting and implementing Responsible Care® initiatives globally. Since October 1999, PCS has been a Responsible Care® signatory through SCIC, continuously improving its HSES performance and engaging in open and transparent communication with

stakeholders about its products and processes.

PCS was honoured with the Leadership Award, recognising our outstanding commitment to the Responsible Care® principles. Additionally, PCS received the Excellence Award for all seven codes in 2023: Community Awareness and Emergency Response, Distribution, Employee Health and Safety, Pollution Prevention, Process Safety, Product Stewardship, and Security. These accolades underscore PCS's dedication to maintaining the highest standards in HSES and its proactive engagement with the community and stakeholders.

The Annual Dinner and Awards presentation not only celebrated the achievements of the industry but also served as a platform for networking and sharing best practices among industry leaders. The commitment to Responsible Care® showcased at the event reflects the ongoing efforts of the chemical industry in Singapore to lead by example in sustainability and responsible management.







20 years without LTI celebration

PCS and its Contractor Partners have jointly achieved another major milestone on 11 March 2024 - twenty years without Lost Time Incident (LTI).

Kira Chng Health, Safety & Environment



n appreciation to the contractors who have worked safely to achieve this, Petrochemical Complex Contractors Association (PCCA) organised a simple celebration event on 4 June 2024 and invited PCS Management, Managers and HSE focal points to the event.

In his opening address, PCCA President, Mr Ivan Lee Apostol thanked PCS Management and staff, Contractor Management, Contractor Workers for taking time to join this celebratory event. He congratulated everyone who had played a part in achieving this milestone through their continuous support and safety commitment. This celebration demonstrated the importance of engaging all stakeholders in stewarding safety and health together and the partnership between PCS and PCC/PCCA is





PCCA President Mr Ivan Lee Apostol delivering the opening address



a testament that zero accidents is achievable. PCS's safety culture of ownership is another one of the key factors in reaching this significant milestone.

Next, PCS Managing Director Mr Hisashi Shibayama mentioned that 11 March 2024 is a very special day for PCS and its Contractor Partners. This milestone represented an amazing achievement and he would like to extend his gratitude and appreciation to PCCA for their support in ensuring all contractors worked towards zero injury in the workplace. The milestone was reached because of our active engagement with employees and contractors. Safety remains our Number 1 priority and maintaining an LTI-free environment reflects our collective commitment to create a healthy and safe workplace. He concluded his speech by expressing his anticipation towards our next milestone of 60 million hours worked without an LTI.

A commemorative souvenir was then presented by Mr Ivan Lee Apostol to Mr Shibayama in commemoration of this safety milestone.

The event ended with a resounding safety cheer and a bento lunch. With the right attitude and our uncompromising approach towards health and safety, let us continue to maintain our excellent safety performance and work towards our next milestone, 60 million hours worked without LTI.



PCS Management taking a tour of the Contractors Rest Shed









LPG International Seminar and the Asia LPG Forum 2024



Lin Weihua Feedstock Procurement



The annual LPG International Seminar and Asia LPG Forum held on 5-6 March 2024 was attended by representatives from companies across the globe who are involved in a range of different businesses such as market research, LPG production (upstream), LPG transportation (mid-stream) and LPG usage (downstream). The main goal of this seminar is to promote information sharing across the various industry players.

999% of all manufactured goods utilise petrochemicals of which LPG is a critical feedstock alongside naphtha and ethane. Therefore, its development is of paramount importance, not only for PCS but

also for the chemical industry as a whole. The critical stakeholders that attended this meeting included national oil companies such as Aramco from Saudi Arabia (one of the biggest producers of oil and gas), Enterprise USA (one of the largest midstream companies in USA responsible for LPG transport and fractionation) as well as end users (such as Indian Oil Company and PCS) who utilise LPG for various purposes ranging essential chemical from production to residential and commercial uses (as a cooking fuel or for power generation).

Throughout the 2-day seminar, one key focus is the industry's commitment and move towards reduction of the carbon footprint

and LPG's role in helping countries meet the overarching goal set by the Paris Agreement to limit temperature increase to 1.5°C. As a fuel source, LPG emits nearly 20% less greenhouse gases than its oil counterparts, which drives many countries to make major investments in gas production. For example, Aramco's Jafurah Unconventional Gas Field facility, which is slated to be completed by 2030, is estimated to increase production of Natural Gas Liquids (NGL) by almost 630 million barrels per day. Other green fuel alternatives include the possible adoption of rDME (renewable – Di-Methyl Ether), which is characteristically similar to LPG but pollutes even less.

Through this conference, I witnessed the commitment from many key stakeholders to achieve greater deployment of LPG across different areas, and I am more confident in the growth and development of the LPG industry in the future. With the ongoing key projects that would increase the global production and exports, PCS can potentially tap on cheaper feedstocks from both the Middle East and USA in the future to further reduce our current reliance on naphtha and increase our plant's reliability and stability while also keeping costs low.

Singapore International Water Week (SIWW) – Industrial Water Solutions Forum (IWSF) 2024



Koh Zhi Ming T&O

This year's SIWW was held at the Sands Expo & Convention Centre at Marina Bay on 21 June 2024. The IWSF strives to showcase the latest industrial water technology innovations to improve water efficiency and reduce environmental impact to achieve corporate water sustainability objectives.

he forum started with an opening address by Mr Ryan Yuen (Managing Director, SIWW) and Mr Ben Tam (CEO, Isle Group), followed by a sharing from Mr Matthias Ong (Head of Disclosure and Environmental Data, APAC, CDP). Mr Ong spoke about the importance of environmental data measurement, reporting and disclosure on a global scale to accurately determine the risks on climate change and water security and identify potential opportunities towards a sustainable net-zero, deforestation-free and water-secure world.

Three separate panel sessions addressing industrial water efficiency, resource recovery, and technology risk management were covered. Overall, the event was an insightful experience that provided valuable



perspectives and knowledge in the current landscape of emerging industrial water solutions and the future of water sustainability and security.

Panel Session 1: Technology Solutions for Industrial Water Efficiency

Though global corporations are increasingly aware of the importance of water usage and sustainability, optimising water efficiency and water management practices remain a complex challenge, mainly in the form of ensuring business continuity and returns on CAPEX investments (typically with an expectation of three years in the transition to water-efficient technologies). Despite the innovative water solutions that are available today, companies need to be aware of and address the priorities of global organisations when pitching such water solutions to ensure that they can be implemented with minimal disturbances to business continuity while seeing positive results as soon as reasonably practicable.



From left to right: Moderator, Mr Carles Crespo (Global Director of Industry, Isle Group), Mr Adrian Yeo (CEO, Atera Water), Mr Mohammad Sherafatmand (Founder & CEO, Hydroleap), Mr Javier Suárez (Asia Pacific Technical Service & Development Leader, DuPont Water Solutions), Mr Juergen von Hollen (CEO, Nanostone)

Panel Session 2: Technology Solutions for Resource Recovery and Circular Economy

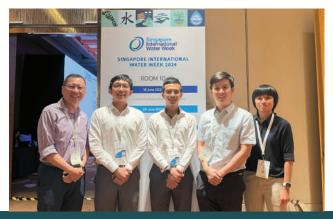
The implementation of a circular economy requires a transformation of industrial practices and the introduction of innovative approaches that focus on extracting value from industrial waste through recycling and waste recovery to enable circular modes of resource usage. Emerging technologies from various companies were introduced with a direction towards sustainable wastewater treatment, such as N & E Innovations' ViKang 99, an antimicrobial solution developed from food waste that can potentially purify polluted water at low dosage in wastewater treatment. NX Filtration's chemical-free membrane technology enables the reuse of water from direct wastewater treatment at lower operational costs and environmental footprint.



From left to right: Moderator, Ms Karen Clode (Head of Industry APAC, Isle Group), Mr Steven Lam (Head of Technology, Gradiant), Ms Didi Gan (Founder & Managing Director, N & E Innovations), Mr Farchad Kaviani (Managing Director - Southeast Asia, SUEZ), Mr Michiel Staatsen (COO, NX Filtration)

Panel Session 3: De-risking Technology Adoption Process

The panel session comprised industry experts who covered the process of trialling, adopting and rolling out new technologies and how the risks of these processes can be minimised by utilizing best practices such as the clear and proper articulation of the business case, its validated technical capabilities and the unique value proposition compared with other technological solutions. There were also insights from the venture capital perspective, which outlined the entire decision process in determining a startup company's growth potential and suitability for funding.





From left to right: Moderator, Dr Jo Burgess (Global Head of Trial Reservoir, Isle Group), Mr Naji Skaf (President, MEIAA, Xylem Inc.), Mr Shaun Chaudhuri (Principal, The Westly Group), Mr Max Storto (Lead Innovation Analyst, Xylem Innovation Labs), Mr Jordan Cisco (Vice President of Business Development, Sand Technologies)

BBS TRUST Champion Training



Tan Hong Yeung Maintenance

PCS launched BBS TRUST Program in August 2004 and the concept of the Behaviour Based Safety (BBS) Champion was introduced in 2007, primarily with the aim to spread and broaden Function Capacity Building in BBS to shop-floor personnel, with Champions taking up key roles in promoting and encouraging proactive safety behaviours within their Functions.



nnually, a group of fifteen BBS TRUsT Champions from diverse Functions including а PCCA representative from Contractors is formally appointed by the General Manager (Plant). Their responsibility is to enhance the quality of BBS observations within their respective Functions, minimise persistent at-risk behaviours, and foster alignment in the 24 Critical Behaviour Inventories (CBI) through education and effective communication within their Functions.

Given the higher expectations placed on BBS TRUST Champions as compared to BBS TRUST Observers, a one-day intensive training session is provided to bolster their abilities and understanding in BBS, enabling them to fulfil their roles more effectively and proficiently.

The BBS TRUST Champion Training for this year took place on 24 April 2024 at Furama City Centre. BBS Facilitator Tan Hong Yeung initiated the day's training with an opening address. He highlighted that the BBS champions were carefully chosen and played a crucial role in advocating and promoting safe work behaviours. Furthermore, he stressed that BBS Champions should complement and collaborate with one another in fostering a safe work culture for all who work in PCS.

Throughout the day, our highly experienced HSE trainers took turns in leading participants through all four modules of the BBS training programme:



Role-play exercise provides interactive and immersive experiences to our BBS Champions







BBS Champion Mr Hoon Kim Huat receiving his appointment letter and BBS Champion badge from BBS Facilitator Mr Tan Hong Yeung

Additionally, role play and quizzes were integrated into the training programme. These interactive elements aim to reinforce participants' learning and engagement, ensuring a deeper understanding of BBS concepts and their practical applications.

At the end of the training, the Champions were presented with their appointment letters, BBS stickers and badges. In his closing remarks, HSE Manager Bernard Leong emphasised that BBS operates on a peer-to-peer approach which empowers frontline workers to proactively engage in safety observations, allowing them to provide direct and immediate feedback to their co-workers or colleagues to enhance safety practices.

Congratulations to all our BBS Champions for completing their training and we look forward to their contributions in elevating PCS safety standards to unprecedented levels!



Singapore Refining Company Visit



Tan Peck Luan Health, Safety & Environment

On 3 May 2024, PCS welcomed 8 guests from Singapore Refining Company Private Limited (SRC), led by their Chief Executive Officer and General Manager Mr Eso Thomas. The main objective of the visit was for the 2 companies to share their HSE programmes and activities, and how both could learn and adopt best practices from each other.



Group photograph of PCS and SRC members

he visitors were first introduced to PCS's Responsible Care® objectives and targets, as well as our various outreach activities and achievements. An overview of our contractors' selection and performance monitoring procedures were also discussed. PCS's sharing session ended with a summary of our HSE culture driving programmes such as BBS (Behaviour Based Safety), SOS (Speak Out for Safety) and STAR (Stop And Report).

Next, SRC shared about their HSE practices and activities, such as their "You are Exemplary" reward programme, where acknowledgement cards that could be redeemed for shopping vouchers were given out on the spot to any worker deserving recognition. They have also introduced an electronic Permit-to-Work system in Apr 2020, and achieved full implementation in May 2021.

The meeting was filled with engaging discussions, as both companies were eager to learn more about each other's programmes and activities. Not only does such an exchange session illustrate PCS's commitment to share our experiences, it is also a good platform for industry players to pick up HSE best practices from one another.

PCS Annual Bowling Tournament 2024



Austin Koh Fire & Security

11 May 2024

It is finally the time of the year where PCS held its highly anticipated Annual Bowling Tournament at SAFRA Mount Faber Superbowl! This annual affair never fails to bring out the passionate and competitive spirits in the teams representing their respective functions, yet at the same time demonstrating superb camaraderie and sportsmanship to friends and foes alike. Despite the high-spirited battles between individuals and Functions, warmth and compassion for one another as one big family of PCS can be felt through the friendly rivalry. It was evident that the bonds were forged as cheers were thrown from one end to another regardless of where the strikes and spares took place. Likewise, new bowlers that took up the challenge to be a part of this tournament were not disheartened as they received guidance and encouragement from their peers. This display of determination, competitiveness and eagerness to achieve great heights enables us to excel and ultimately propel PCS into a high-achieving organisation when we unite as one! he response to the Bowling Tournament this year was remarkable, bringing together both staff and invited contractor companies' representatives to join us for a fun-filled morning. After the 4 grueling games of knocking pins down, the scores were tabulated and we have the standings of 2024's bowling competition! For this year, lucky draw prizes were introduced for participants who did not secure top positions. The five lucky draw vouchers were exclusively available to individuals who were not among the top male bowlers and top female bowlers.

Congratulations to all the winners this year! May the camaraderie and cohesiveness within PCS continue to flourish, leading us to greater achievement and new heights. Until next year!



"Good Posture, Better Life, Best Life!"

Deciphering the Orthopedic Perfect Storm



On 6 May 2024, invited speaker Dr. David Tan, a highly respected Doctor of Chiropractic, Clinical Director of VidaJoie Chiropractic Pte Ltd, unravelled the mysteries of the Orthopedic Perfect Storm while offering attendees the opportunity for personalised spinal adjustments.



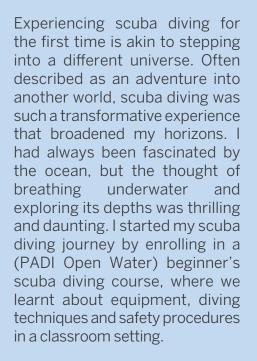


musculoskeletal health.

Unleashing A New Adventure: My Scuba Diving Experience @Semporna, Sabah Malaysia



Lean Chin Hee Quality Control



During the practical training sessions, I learnt to use the regulator, clear my mask underwater and communicate using hand signals. Initially, it was challenging to overcome the instinct to hold my breath, which was something that goes against every natural impulse when underwater. However, with practice, breathing through the regulator became second nature, and my confidence grew.

The day of the dive was clear and sunny - a perfect day for exploring the underwater world! We boarded a boat to a popular dive



site at Mataking Island, which was known for its rich marine and stunning coral formations. As we anchored and geared up, I felt a mix of excitement and nervousness. I remembered my heart racing as I sat on the edge of the boat, before taking a deep breath and plunging into the water. Descending into the depths was like entering a different realm. The noise from the world above was replaced by the rhythmic sound of my breathing and the gentle swish of water, and I was overcome by a deep sense of tranquility and peace.

The underwater world was indeed mesmerising. Schools of fish darted around us, unperturbed by our presence, while the vibrant corals swayed gently with the currents. I was amazed at the intricate beauty of the marine life and reef structures. One of my memorable encounters was with a sea turtle gliding effortlessly across the vast expanse of the ocean. Every movement felt graceful and slow, a stark contrast to the rushed pace of life above the surface. The experience was both humbling and awe-inspiring, revealing the complexity and beauty of marine life.

In conclusion, my scuba diving experience was a profound adventure that had an enduring impact of my life and opened my eyes to the mesmerising wonders of the underwater world. Scuba diving not only allowed me to explore a new environment but also pushed me to overcome my initial fears and step out of my comfort zone. Throughout this journey, I gained a deeper appreciation for marine life and a heightened sense of responsibility towards ocean conservation.







EMPLOYEE NEWS





LONG SERVICE

Award Recipients for Apr-Jun 2024

5-Year

Rina Soh Sim Khong Yee Goh Yong Sin Muhammad Faris bin Aziz Muhammad Khairul bin Sari

Engineering Fire & Security Olefin-I Olefin-I Olefin-I

Olefin-II

Olefin-II

15-Year

Chee Guo Liang

20-Year

Sie Yeu Keut

35-Year

- Bernard Leong Ang Chong Eng Cheng Jiew Boon Kwoh Lai Soon
- Health, Safety & Environment Olefin-I Olefin-I Olefin-I

NEW EMPLOYEES



Mr Yong Zong Yao

Mr Tan Chieh Kai

Joined: 2 May 2024

Engineer, Technology & Optimization Joined: 2 May 2024 Hobbies: Photography & Photo Editing, Cycling, Baking

Production Supervisor, Olefin-II

Hobbies: Jogging & Swimming

Mr Wong Sai Mun Supervisor, Maintenance Joined: 2 May 2024 Hobbies: Swimming, Jogging & Reading



Mr Chew Wei Leong Senior Engineer, Maintenance Joined: 2 May 2024 Hobbies: Swimming, Cycling & Hiking







Mr Muhamad Shahmirza Bin Harun Technician, Olefin-I Joined: 15 May 2024 Hobbies: Running & Cooking

Mr Thinesh Saravanan Technician, Olefin-I Joined: 15 May 2024 Hobbies: Frisbee, Volleyball and Futsal

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EMPLOYEE NEWS

NEW EMPLOYEES



Mr Lim Wen Yong Technician, Olefin-I Joined: 15 May 2024 Hobbies: Motor cycling, Cycling



Mr Low Yen Yong Technician, Olefin-I Joined: 15 May 2024 Hobbies: Badminton & Basketball



Mr Vui Yen Apau Technician, Olefin-II Joined: 15 May 2024 Hobbies: Basketball, Photography & Travelling



Mr Aw Yong Hong Jing Technician, Quality Control Joined: 15 May 2024 Hobbies: Badminton, Reading, Travelling



Mr Andrew Ooi Chen Sing Technician, Quality Control Joined: 15 May 2024 Hobbies: Gym & Reading



Mr Jong Kiam Yan Hobbies: Fishing



Technician, Olefin-I Joined: 3 June 2024

Mr Sathisvaraan Ponnusamy Leading Fireman, Fire & Security Joined: 3 June 2024 Hobbies: Drone Pilot





Mr Nor Rizal Bin Haron Senior Admin Asst, HR & Admin Joined: 3 June 2024 Hobbies: Reading, Travelling and Family oriented activities

Engineer, Technology & Optimization Joined: 18 June 2024 Hobbies: Cooking, Running & Gym



Ms Yap Kah Yee

Officer, Business Development & Planning Joined: 18 June 2024 Hobbies: Learning Japanese language