

Overcoming Challenges in Chemical Exposure

Assessment: From Field Work to Controls Implementation

SYMPOSIUM

THE 12TH IOHA
INTERNATIONAL
SCIENTIFIC CONFERENCE
DAEGU, KOREA
VIRTUAL
IOHA2021

Understanding and overcoming the challenges in completing chemical exposure assessment, and controls implementation backed up with exposure monitoring data. This important for Industrial Hygiene professionals and practitioners to objectively use the data collected from exposure monitoring in making judgement about the risk and compliance level in making recommendation for improvement in workers' health protection. Lack of guidance and knowledge in data analysis is another challenge in interpreting the data obtained to enable practical recommendations to employers. As practitioners there were many challenges in getting the right and useful data during field work as well. The objective of the symposium is to share the challenges faced by IH in getting the right data (observation and measurement results) and making practical recommendations based on the data obtained. Sharing to start from making strategic planning in data collection, continued with executing the planned strategy via field work (actual sampling work) and data analysis and interpretation. Speakers will share issues, challenges and bring to discussion ways to overcome those challenges for practitioners. Final sharing will be panel discussion/forum on making practical recommendations and improvement based on the data obtained. It is hopeful that at the end of this session, participants reached understanding, ideas and way forward on overcoming the challenges from all sharing and discussion.

Challenges in Field Work: Collecting meaningful chemical exposure monitoring samples

Grace Cordelia Boniface Deyoi (MIHA, Malaysia)

Chemical Exposure Monitoring Data Analysis and Interpretation Challenges

Nor Rahmah Nor Hashim (MIHA, Malaysia)

Challenges in Implementing Effective Controls in managing chemical exposure

Aliff Firdaus Mat Yusoff (MIHA, Malaysia)

MODERATOR



**Wan Sabrina
Wan Mohamad**

Sabrina is a Certified Professional Industrial Hygienist (CPIH) with MIHA and Certified Industrial Hygienist (CIH) with BGC-ABIH. She started her career as Industrial Hygienist with Motorola Malaysia Sdn Bhd, now known as NXP Semiconductor, about 28 years ago and later on progressed as the plant Environmental, Health and Safety Manager. She is currently working as the Lead Industrial Hygienist for Shell Malaysia operations. As Lead IH, she is responsible in ensuring provision of strategic functional support for Shell Malaysia's Upstream and Downstream operations and projects. Sabrina is one of the founding members of Malaysian Industrial Hygiene Association (MIHA) and had served the association in various capacities as Honorary Secretary, Vice President and stepped down as President in 2016. She currently sits as Chief Examiner with the Malaysian CPIH Board. On academic ground, she graduated from University of Wisconsin-Madison, USA in BSc-Chemistry and later on completed Master of Medical Science in Community Health with The National University of Malaysia.

SPEAKERS



**Nor Rahmah
Nor Hashim**

A Certified Industrial Hygienist (CIH) with experience in health, safety and environment in oil & gas industry, particularly in occupational and environmental health in the upstream and downstream businesses. Current interest is on environmental health policies in the petroleum industry as a business case to achieving sustainable development goals. Other associated interests include exposure assessment, human health risk assessment, geographic information system and air dispersion modeling.



**Grace Cordelia
Boniface Deyoi**

Grace is a Certified Professional Industrial Hygienist (CPIH) with MIHA and Certified Industrial Hygienist (CIH) with BGC-ABIH. In the early days of her career, she worked as an Environment, Safety & Health Consultant (11 years) and was responsible in project management and technical development in the areas of environment and industrial hygiene field sampling, testing and reporting. Since completing her M. Sc in Occupational Hygiene Practice at the University of Wollongong, Australia in 2013, Grace has since worked as a full-fledged industrial hygienist. Currently a Senior Industrial Hygienist with Sarawak Shell Berhad, Grace is responsible in leading the execution of industrial hygiene (IH) functional services and management of IH issues arising within the Shell Upstream operations and projects in Malaysia. Grace also serves as MIHA Committee Member and leads the MIHA-Borneo Chapter with the aspiration to strengthen network and capacity building among IH practitioners from the Borneo region of Sabah, Sarawak and Brunei.



**Aliff Firdaus
Mat Yusoff**

Certified industrial hygienist with 15 years working in the oil & gas industry. A competent person registered with DOSH, certified to perform chemical health risk assessment, chemical exposure monitoring and LEV inspection, testing and examination. Experience in the planning and execution of IH programs for chemicals, physical, ergonomics, biological & psychosocial risks in for the refinery, gas and petrochemical facilities during various operational phases (e.g., routine, turnaround, project). Skillful in hazard identification, exposure assessment and controls, HSE Management Systems, ISO 14001, Environment, Health, and Safety (EHS) legal requirements, safe system of work and various risk assessments tools (e.g., HAZOP, QRA).