

Monday 1 October

Oud Metha Ballroom 2 &3

- 08.30 **Registration and networking**
- 09.15 **Welcome from the chair**
Hari Kumar, Director EHS Assurance, ENOC
- 09.25 **Welcome remarks from the British Consul General**
Andrew Jackson, Her Majesty's Consul General, British Embassy Dubai
- 09.30 **Welcome remarks from the Energy Institute**
Louise Kingham OBE FEI, Chief Executive, Energy Institute
- 09.35 *Presentation: **Year of Zayed in the UAE***
Hamda Al Masoum, CSR Executive, ENOC
- 09.45 *Keynote address: **Fostering operational excellence, governance and world-class EHS standards***
H.E. Saif Humaid Al Falasi FEI, Chief Executive Officer, ENOC
- 10.00 *Panel discussion: **The value of adopting international HSE good practice***
Chaired by: Hari Kumar, Director EHS Assurance, ENOC
- EHS policy: integrating occupational health, industrial safety and environment safety standards**
Ahmed Khalil, HSE Manager, BAPCO
- The value of adopting international HSE good practice**
Jamal Zaal, Vice President, Corporate Health, Safety, Sustainability and Environment, Dubai Airports
- Legal considerations for risk and safety professionals to understand and address**
Samantha Ellaby, Senior Associate, Clyde & Co
- 10.40 **Refreshment and networking**
- 11.00 *Presentation: **Utilising collaboration to drive regional HSE good practice***
Dr Mark Scanlon MEI, Head of HSE Good Practice, Energy Institute
- 11.10 *Technical session: **HSE management: organisational arrangements to identify hazards, reduce risks and enhance business performance***
Chaired by: Dr Mark Scanlon MEI, Head of HSE Good Practice, Energy Institute
- Are you getting the full value of your investment in safety?**
Gareth Roberts, Partner, ERM
- Creating a global high reliability organisation by rethinking the safety paradigm: a case study**
Rakesh Maharaj CMIOSH, Managing Director, ARMSA Consulting
- Learning to lead, safely!**
Roger Bresden, Field Compliance Coordinator, Downstream HSE Excellence, Saudi Aramco
- Contractor safety management with fatality case study**
Carlos V Tan, Assistant Vice President, Head of Health Safety and Environment Group, Energy Development Corporation
- 12.40 **Lunch and networking**
- 13.40 *Technical session: **Process safety: managing hazards that have the potential to cause major accidents***
Chaired by: Dr Mark Scanlon MEI, Head of HSE Good Practice, Energy Institute
- Picking up the pieces – the hazards caused by neglecting surge pressures in pipelines at the design stage**
Glyn Addicott CEng MEI, Operations Director, Hydraulic Analysis Limited
- Optimisation of passive fire protection scheme: a practical approach for standardised upstream oil and gas facilities using fire and structural engineering concepts**
Srikanth Mellachervu, Principal Loss Prevention Engineer (Team Leader), Saipem Contracting Netherlands BV Sharjah
Alex Tsiolas, Fire Engineer, AkzoNobel
- Fire and gas detection optimisation**
Dr Tarek Bengherbia, Principal Consultant, DNV GL
- Smart safety systems: improving health and safety performance**

14.50

Refreshments and networking

15.10

Roundtable discussions

*Chaired by: Dr Mark Scanlon MEI, Head of HSE
Good Practice, Energy Institute*

Management of change from HSE perspective

This roundtable will discuss the importance of managing changes in organisations that can affect the occupational health and safety of employees, contractors and visitors. What key roles HSE professionals can play in the process of managing changes introduced before, during and after the change and challenges may be faced.
Abdullatif N Albitawi CEng MEI SFIIRSM, COO, EAGLE Industries DWC-LLC

Managing safe and effective commissioning - using computer simulation to overcome unforeseen challenges during system start-up and commissioning

This roundtable will focus on the challenges of commissioning. Using a case study to introduce the topic, discussions will focus on the unforeseen issues associated with the start-up of hydraulic systems. The use of computer simulation will be proposed as an approach to provide an innovative solution to overcome some of the challenges faced and a solution to manage start-up and commissioning safely.

Glyn Addicott CEng MEI, Operations Director
Dermot Grumley, Engineering Director, Hydraulic Analysis Limited

Challenges facing UAE companies trying to meet the different legal HSE requirements

This roundtable will provide an opportunity to discuss the challenges facing UAE companies in trying to understand and comply with the various health and safety rules and regulations.
Samantha Ellaby, Senior Associate, Clyde & Co

Developing the leadership and governance assurance standards in occupational safety and health

Following from some ongoing current research and work relating to the ISO 45001 Standard for Occupational and Health Management Systems, this roundtable investigates through a group discussion process, to create an effective model for governance and leadership of occupational safety and health issues within organizations. the round table will use as a basis the expectations listed under Article 5.1 of Leadership of Top Management in Organizations to create using cards in group work. The purpose is threefold:

- *One to establish the elements and where they should be positioned in the model;*
- *Explain what are the key aspects of each factor – key result measures;*
- *Evaluate if there are any missing elements which are required to govern and effectively lead OSH in organizations.*

Depending on the size of the group, two or three groups will be established to undertake this exercise.
Dr Waddah S Ghanem FEI, Senior Director Sustainability, Operational and Business Excellence, ENOC and Chairman, EI Middle East Branch and Council Member, Energy Institute

How good is your risk assessment?

Roundtable discussions

The future of health and safety in a digital world (Room: AL Nakheel 3)

Woodside, Safety Award winner, is improving safety of its operations harnessing the power of Artificial Intelligence, with IBM Watson analytics. They can analyse decades of safety data and in seconds extract crucial insight that would otherwise take hours, if not days, of effort. Safety professionals are able to uncover root causes of similar incidents and learn about effective mitigation strategies. During this roundtable, Woodside and IBM will share more details about this work, applicability of AI in the HSE space and how it could help the industry collaborate on improving safety performance for all.
Dariusz Piotrowski, Director, Cognitive & AI Solutions Development, IBM Industry Platforms, Natural Resources Industries, IBM
Shannon O'Rourke, Head of Commercialisation, Woodside Petroleum

Next generation HSE: from a perceived cost to value generator (Room: AL Nakheel 4)

After several years of pressure on all spending in oil and gas, this session seeks to understand how the industry's top priority (ie Safety, or in some organisations HSE) has come through this period and how performance has been affected. Key questions for the participants to consider will include:

- *Is HSE seen today as a cost or a value generator?*
- *How integrated is HSE in your business?*
- *How should it evolve and what are some of the issues and challenges to consider in this regard?*
- *Where does digital transformation fit in to this?*

Ian Loveday, Senior Partner, EMEA O&G Lead, ERM

15.50 *The main concept of preparing a Risk assessment is to eliminate the possibility of an accident or incident occurring. This roundtable will discuss the relevant steps and what precautions must be in place when working with Mobile Elevating Work Platforms (MEWPs). The goal of this roundtable is to share knowledge about using MEWP equipment within your projects, giving consideration to all areas reducing the risk of accidents:*

- *Planning the correct equipment – what you need to understand*
- *Operator and training – what you should expect within a course*
- *Rescue planning – the steps in carrying out a successful rescue at height*

Jason Woods, Middle East & India Representative, IPAF

Protecting your assets by embedding cyber security into your HSE policies

This roundtable will provide an opportunity to explore the extent of Cyber security threats and their impact, as well as how cyber security fits with Business Risk Management. Topics covered will also include best practices in application, and lessons learned.

Matt Cox FIIRSM GradIOSH, UAE Branch Chairman, IIRSM

Roundtable feedback and discussion

16.20 **Summary from the chair and closing remarks**

Chaired by: Dr Mark Scanlon MEI, Head of HSE Good Practice, Energy Institute

Tuesday 2 October

Oud Metha Ballroom 2 &3

08.00 **Registration and networking**

08.50 **Welcome from the chair**

Dr Waddah S Ghanem FEI, Senior Director Sustainability, Operational and Business Excellence, ENOC and Chairman, EI Middle East Branch and Council Member, Energy Institute

08.55 **Keynote address: Importance of collaboration between the energy industry for the future development, diversification and growth**

Dr Waddah S Ghanem FEI, Senior Director Sustainability, Operational and Business Excellence, ENOC and Chairman, EI Middle East Branch and Council Member, Energy Institute

09.05 **Presentation: The Energy Institute in the Middle East**

Trevor Stott-Briggs, Managing Director, Energy Institute Middle East Branch

09.10 **Panel discussion: The industry's role in delivering energy safely, preventing harm to their employees, contractors, local communities and environment**

Chaired by: Dr Waddah S Ghanem FEI, Senior Director Sustainability, Operational and Business Excellence, ENOC and Chairman, EI Middle East Branch and Council Member, Energy Institute

Health and welfare: a view from the power sector

Mark Kenyon MIIRSM, HSEQ Manager Middle East & Africa, Marubeni Power Asset Management

HSE related to drilling operations for oil and gas

Adil Khalil, Oil and Gas Coordinator and Member of Board, Energy Institute Middle East Branch

How the Emirates nuclear power program ensure public and environmental safety

Eng Marwan Alkindi, Director of Environment and Sustainability, Nawah Energy Company

Investing in employee health: how to create a resilient and productive workforce

Dr Ola Ahmed Mira, Director OHS and Head of Radiation Protection Center, Ministry of Health Abu Dhabi (MOH)

10.00 *Technical session: **Health: managing health hazards and reducing health impact on workers***
Chaired by: Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

Barriers to Return To Work (RTW), Middle East experience

Dr Jose Villanueva, Specialist Occupational Medicine, NMC Specialty Hospital

Human performance and care programs

Thomas A H Pols, Health Manager Middle East & North Africa, Royal Dutch Shell

Bapco Bahrain wellbeing model

Dr Spyridon Trous, Manager Medical Services, BAPCO

10.55 **Refreshments and networking**

11.15 *Technical session: **Human factors: designing jobs and equipment to suit a wide range of user abilities and limitations***

Chaired by: Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

A picture speaks a thousand words – raising hazard awareness on constructions sites by designing training materials for a multi-cultural workforce

Beate Houette, KTP Research Associate, Robert Gordon University

Complacency: its signs, causes and cures

Islam Adra CMIOSH, HSE Manager MENA & Turkey, Fortive Corporation

Process safety compliance in a cross-cultural context – when rules are not enough

Michael Nates CEnv GradIOSH, Managing Director, Nates Associates

The BowTie lifecycle process in ADNOC Sour Gas and CCPS/Energy Institute BowTie Guidelines

Dr Ignatius Prashanth, Senior Engineer HSE (Technical Safety), ADNOC Sour Gas

Arjan Verboom, Program Director, CGE Risk Management Solutions

12.30 **Lunch and networking**

13.30 *Technical session: **Environment: processes aimed at avoiding and mitigating environmental impacts***
Chaired by: Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

EAD initiative: environmental self-reporting for industries

Eng Ahmed Al Jassmi, Section Manager, Hazardous Materials and Waste Policy and Regulations, Environment Agency - Abu Dhabi

Mohamed Alam, Sr Specialist, Air, Noise & Climate Change Policy & Regulations, Environment Agency - Abu Dhabi

Waste management challenges and opportunities in oil and gas industry

Saud Al Hammadi, Technical HSE Manager, ADNOC

Bio fuels – environmentally friendly alternatives to non-renewable fossil fuels

Rahul Shastri Garimella SIIRSM, Director, Integrated EHS Consultants

14.30 **Refreshment and networking**

14.50 **Roundtable discussions**

Chaired by: Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

Combatting mental health and programmes to return back to work

The health and wellbeing of your employees is critical to your business. Whilst people often know a lot about common physical health problems, there is less understanding around mental health. Regular first aid courses are recognised as improving skills in giving initial and appropriate help at medical emergencies but, unfortunately, these do not address helping and supporting those with mental health problems. Mental health problems are common. In any given year we will most likely know or have close contact with someone experiencing a mental illness. Mental health is the largest cause to workplace absence in the world and our discussion can be the first step in breaking the stigma attached.

Mark Leary CMIOSH, Vice Chair, IOSH UAE Branch

Occupational safety versus process safety – can they be managed in the same manner using “barrier management” as the common denominator?

What do you find more important, to ensure continued and safe operations? Safety culture and leadership; Compliance and Codes of Practices; Asset integrity / FEED (Front-end engineering and design); or Risk Management. How do you understand what risks you(r) company need(s) to manage? What risk management methods do(es) you(r) company use? Can you focus on process safety and occupational safety at the same time? Isn't risk management nothing more than understanding what is important in making sure that the operations go as intended?

Arjan Verboom, Program Director, CGE Risk Management Solutions

Waste to energy: industrial ecology opportunities in the energy sector

This roundtable will discuss using wastes generated from industrial activities as alternative resources - In other certain industries, supporting sustainability concept and reducing the operations costs, particularly certain wastes generated from oil and gas - e.g. oily sludge, Aluminium Industry "SPL", old vehicles tires, even municipal solid wastes etc to generate energy to cement manufacturing.

Dr Bassem Nassouhy, General Manager, Scientific Business Solutions (SBS)

Ergonomics and human factors for workplace safety and health

This roundtable will review HSE issues in industry - both in operations and the office environment. Participants will share challenges and success stories on this topic.

Dr Clarence Rodrigues, Associate Professor and HSE Engineering Degree Program Coordinator, Khalifa University

How to make a difference: how can leaders become better advocates and influencers in health and safety

This roundtable will tackle a range of issues such as (if time permits) what we mean by good health and safety leadership; how leaders can tell if Health and Safety is being managed effectively; how good leaders can positively influence H&S Culture; how understanding human behaviour/failure can help change behaviours and perceptions; different leadership styles; leadership values; building relationships with the workforce.

Dr David Towlson CMIOSH, Head of Qualifications and Assessment, NEBOSH

15.30

Why is renewable energy not as popular in the UAE as Europe and the USA?

Discussion as to why with 330+ days sunshine and extreme temperatures solar power and heat turbines are not commonplace in the UAE. What other initiatives could the UAE consider, eg, turbines in all water, gas and oil pipelines to recover energy?

Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

Roundtable feedback and discussion**15.55 Summary from the chair and closing remarks**

Steve Major CPetEng FEI, President, Energy Institute Middle East Branch

Wednesday 3 October**Oud Metha Ballroom 2 &3****08.00 Registration and networking****08.50 Welcome from the chair**

Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

09.00 Keynote address: Dubai's 2030 integrated energy strategy and DSCE roadmap

H.E. Ahmad Buti Al Muhairbi, Secretary General, Dubai Supreme Council of Energy

09.15 Panel discussion: Energy transition: how are we driving our business strategy in context of climate change – where are the risks and opportunities

Chaired by: Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

The importance of retrofitting in reducing Dubai's energy demand

Dennis Peek, HSE Manager, Etihad ESCO

Carbon emissions management

Ivano Iannelli, CEO, Dubai Carbon Centre of Excellence

Future ready

Marcin Wronowski, Sustainability & Energy Senior Consultant, WSP

From the very small to the very big: how particle physics can change the world

Dr John Hassard, Co-Founder, Institute of Security, Faculty of Natural Sciences, Imperial College London

10.05 **Technical session: Sustainability: processes aimed at sustainability**
Chaired by: Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

Transformation of sustainable energy: the new era of efficiency and optimisation

Taher Diab, Senior Director, Strategy & Planning and Secretary General of Emirates Energy Award, Dubai Supreme Council of Energy

The role of green materials in boosting sustainability in UAE industry

Dr Ghanim Kashwani CEng CEnv, Postdoctoral Research Associate, New York University Abu Dhabi (NYUAD)

How to report on the SDGs: what good looks like and why it matters

Hanife Ymer, Head of Sustainability Services, KPMG Lower Gulf

Applying organisational excellence as part of your sustainability strategy

Noaman Al Saleh, Dubai Aviation Navigation Services

Overview of renewable energy deployment in the Arab region

Dr Raed Bkayrat, CEO, Clean Energy Business Council

11.30 **Refreshments and networking**

11.50 **Technical session: Energy efficiency: processes aimed at energy efficiency**

Chaired by: Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

ISO 50001 for the Petroleum Industry – a basis for partnership between operating companies and EPC contractors for successful implementation

Mustafa Akberi Vahgijpurwala MEI, Senior Engineer, Petrofac

ENOC energy and resource efficiency: the story so far

Alia Busamra, Group Chief Sustainability Officer, ENOC

Compressed air systems: saving energy and increasing reliability

Abdullatif N Albitawi CEng MEI SFIIRSM, COO, EAGLE Industries DWC-LLC

12.45 **Lunch and networking**

13.45 **Roundtable discussions**

Chaired by: Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

Embedding energy efficiency through life cycle assessment

This roundtable will explore various topics, including the Importance of LCA (Life Cycle Assessment) or Total Cost of Ownership (TCO) method in the design phase to evaluate multiple designs in order to find out the optimal cost economical solution for energy efficiency; Factors to be considered in TCO analysis; Should TCO start to embrace (lost) opportunity costs of not upgrading key technology?; Role of rising energy prices make energy efficiency a key consideration in TCO calculations; How TCO/LCA tools needs to be better integrated with existing tools and into the procurement procedures?

Saravanan Dhalavoi Pandian, Senior Sustainability Specialist, ENOC

The role of energy storage in planning our energy needs in the UAE

Despite the hype and rapidly falling prices, batteries are currently an expensive solution for energy storage. Whilst they can provide other potentially valuable services to the grid, what are the prospects for implementation at scale in the mid-term? What are the tipping points when gas will be displaced as the economic energy store of choice in the region?

Bruce Smith, Forecasting and Planning Director, Abu Dhabi Water and Electricity Company (ADWEC)

Challenges facing renewable energy in the Middle East

Renewables are finding their way into the region with big investments made and planned for different types of installations. The aim of this roundtable is to highlight what are the challenges being faced affecting further growth in this sector.

Abdullatif N Albitawi CEng MEI SFIIRSM, COO, EAGLE Industries DWC-LLC

Socio-techno-economic design of energy systems driven by community needs

With steep vectors of global change in urbanisation and climate, and the resultant pressures on building stocks and energy infrastructure, approaches to energy systems design are ripe for revisiting. Traditional energy system approaches tend to view energy supply and energy demand as the respective start and end point of that system. This roundtable will discuss the need for a method that builds on traditional systems-modelling approaches to help specify and design energy conversion, transmission and storage technology to meet the service needs of an existing and growing global middle class, whilst also catering for more vulnerable communities.

Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University

Overview of the ESCO market in the GCC countries

This roundtable will focus on the status of the energy efficiency and ESCO market in the GCC region. We will review the latest developments on this topic in each GCC country, which include electricity and fuel pricing

reforms being implemented by governments and the launch of new energy efficiency programs. The discussion will also focus on local challenges, innovative solutions being adopted, and opportunities for private industry. To help alleviate these challenges, the Clean Energy Business Council has established an Energy Efficiency Working Group with mission to promote and support the demand side energy efficiency market and the optimization of energy savings in public and private sector buildings in the MENA region.

Dr Raed Bkayrat, CEO, Clean Energy Business Council

Ridah Sabouni, Managing Director MENA, Energetics

Capacity building – taking responsibility for a sustainable future

- 14.30 *Capacity building is critical to strengthen institutions and individuals to improve energy management and achieve higher energy efficiency. Where are the key areas where capacity building is required? and what are the key gaps and needs?*

Humaid Abdulla Kanji, Environmental Economist, Integrated Environment Policy & Planning, Environmental Agency Abu Dhabi

Roundtable feedback and discussion

- 14.55 **Summary from the chair and closing remarks**

Dr Tadhg O'Donovan, Associate Head of School, Engineering & Physical Sciences, Herriot-Watt University