

GAC SAFETY, HEALTH & ENVIRONMENT SEMINAR 2018

PROGRAMME: DAY 1



DAY 1: **Tuesday, 11th December 2018**

- 08.30 Registration/Welcome Tea & Coffee: Royale Ballroom– Lobby level, Palace Downtown
- 09.25 Program Starts
- 09.30 **Welcome by EGA Senior Management**
- Group photo**

SESSION 1

Chaired by: **Dr. Ronald Otte – Director Safety, Emirates Global Aluminium**

- 09:40 **EGA EHS Update**
Salman Dawood Abdulla – Executive Vice President, EHSSQ & BT, Emirates Global Aluminium (EGA)
On 13 August two EGA employees tragically lost their lives whilst performing routine maintenance at the company's Carbon plant in Jebel Ali. A cross-functional team from EGA carried out a detailed investigation and root cause analysis with the assistance of independent safety experts. EGA to share the key findings, actions and learning from the investigation to help prevent recurrence elsewhere in the industry.
- 10:00 **Life Cycle Assessment**
Chris Bayliss – Deputy Secretary General, International Aluminium Institute (IAI)
- The aluminium industry is a leader in terms of the coverage, transparency and currency of its lifecycle and sustainability data;
 - Latest (2015), regionalized, primary aluminium industry data will be shared, focusing on environmental hotspots in the production process;
 - Demand for aluminium is expected to continue to grow, with primary aluminium production in 2030 around 90 Mt – what does this growth mean in terms of potential environmental impacts during the production process;
 - The impacts of aluminium products need to take account of the full lifecycle – hence a need to understand impacts and benefits during the use and recycling phases; these will be explored, with a particular focus on transport applications (including electric vehicles) and the built environment
- 10:30 **Servant leaderships impact on Safety**
Dr. Dominic Cooper - CFIOSH CPsychol, B-Safe Management Solutions Inc
- Known benefits of safety leadership
 - Purpose of safety leadership
 - Safety Leadership styles
 - Impact of safety leadership styles
- 11:00 **Mid morning tea/coffee break**
- 11:30 **Benchmarking SPL management in GCC smelters with global practices and technologies**
Stephan Broek – Director of Environmental Technologies and Engineering – Centre of Excellence for Aluminium Smelting, HATCH, Canada
Over the past years several of the GCC smelters have made commitments to implement SPL management strategies to minimize SPL as a waste stream and to try to take advantage of the values it holds. In this paper we focus on some of the ongoing activities of GCC smelters where we project this against what is happening in other places in the world with SPL. We hope to demonstrate that GCC smelters are becoming leaders in this field or have the opportunity to do so, but that a lot of work is still ahead of us. We hope that the paper can inspire all involved in SPL management to take efforts to the next level.

12:00 **Empowering front line organization to sustain risk reduction and performance improvement**
Marco Pagnini – Principal Operational Risk Management, DuPont Sustainable Solutions
In today's challenging business context, companies are realizing that excellence in safety and operations cannot be longer achieved through initiatives pushed top-down by the leadership. Sustained risk reduction and performance improvement require front line organization empowerment. In this context, a new leadership profile is paramount. The leaders' main responsibility is to equip and coach line managers and supervisors to take effective decisions and to establish the right mechanisms and mindset that promote continuous improvement in the organization. Performance dialogues, visual management and problem solving are essential components to drive desired mindset and behaviors across all levels, and ultimately improve the quality of decision-making and effectiveness of execution.

12:30 **Lunch @ ASADO RESTAURANT**

SESSION 2

Chaired by: Ahmed Al-Harbi – Manager, Risk Management & Compliance, Ma'aden Aluminium

13:30 **Learning from Caustic Splash Incident (Contractor LTI)**
Abdulrahman Al-Hathal – Safety Engineer, Ma'aden Aluminium

- The incident, the conditions before the incident and the nature of the injury
- Investigation findings and the root causes
- Corrective actions and lessons learned

14:00 **Recycling SPL in cement manufacturing : a recent successful story in Oman**
Hilal AL-Dhamri – General Manager Manufacturing, Oman Cement Company (SAOG)

- Brief overview the cement manufacturing process
- Aspects of using SPL as alternative raw materials and alternative fuel in cement manufacturing.
- Oman Cement Company and Sohar Aluminium : driving the success.
- Overcome the difficulties and reap the rewards

14:30 **Afternoon tea/coffee break**

15:00 **Enterprise Risk Management v/s EHS Risk Management**
Scott Coventry – Expert, Enterprise Risk Management, Ma'aden Aluminium
Traditionally ERM and EHS risk are discrete bodies of work managed independently. Both require different skillsets, can be technically different and are almost always facilitated / governed by very different functions. However more and more companies are starting to realize synergies by creating an effective interface between the two functions.

15:30 **Specialized SPL Project Updates**
Heba Abdulhameed Akasha – Engineer 1, Environment, Emirates Global Aluminium (EGA)

- Overall EGA SPL strategy achievements
- Description of EGA SPL pretreatment and crusher project
- SPL Specialized testing: SPL Chemical characteristics and Hazards, Gas evolution behavior of SPL in the presence of water in different scenarios, Explosively behavior of SPL dust at varying relative humidity

16:00 **Safety Leadership in Practice**
Nezar Hameed Ali – Manager, H&S , Aluminium Bahrain (ALBA)

- Taking the tough decision
- Empowering Safety
- Journey to change the believe
- Video

16:30 **END OF DAY 1 - Delegates have the rest of the day & evening at leisure.**

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PROGRAMME: DAY 2



DAY 2: Wednesday, 12th December 2018

- 08.15 Networking Tea & Coffee: Royale Ballroom- Lobby level, Palace Downtown
- 08.55 Welcome & continuation of the GAC Carbon Seminar

SESSION 3

Chaired by: **Sayed Salah Aqeel Ali Mohd – Head of Environment, ALBA**

- 09.00 **Critical Risk Management and Fatality Prevention**
Ted Himebaugh – CRM Management and Implementation Consultant, Forwood Safety
- Why is Critical Risk Management (CRM) needed?
 - What exactly is CRM and how does it work?
 - Overview of the Key Elements in the Forwood CRM System.
 - Data Science and Predicting Fatal Events.
 - The Future of Safety and Fatality Prevention.
- 09.30 **EGA Biodiversity Management (Guinea)**
Paulo Roberto Castellari Porcia – CEO, Emirates Global Aluminium (EGA) Guinea Alumina Corporation
- GAC's commitment towards biodiversity
 - Priority species and critical habitat targets
 - Biodiversity management plan
 - Biodiversity monitoring and evaluation program
 - Chimpanzee offset
 - Cumulative impact mitigation through a collaborative effort
- 10.00 **Evaluation and control of Occupational Exposure to Coal Tar Pitch**
Boetimann J. D. Isaack – Occupational Hygienist, Sohar Aluminium
- Coal Tar Pitch (CTP) is used as a binding agent in anode production. Its use has the potential for elevated exposure to Polycyclic Aromatic Hydrocarbons (PAHs). Sohar Aluminium has designated PAH exposure as a critical risk which requires particular risk reduction measures and occupational hygiene and medical surveillance. The presentation will provide an overview of the company's approach and challenges, work that is currently underway, and the outcomes achieved. A comparison with selected Occupational Exposure Limits and Biological Exposure Indices will be provided.
- 10.30 **Mid-morning tea/coffee break**
- 11.00 **High Potential Near Miss and Lesson Learned**
Ali Hassan Radhi – HSE Superintendent, Aluminium Bahrain (ALBA)
- Challenges of reporting Near miss
 - Summary of the Near miss
 - Lesson learned
- 11.30 **EGA Biodiversity Management (UAE Operations)**
Mohammad Al Jawi – Sr. Manager, Environment & Waste Management, EGA
- EGA's commitment towards biodiversity
 - Biodiversity management plan – construction phase
 - Biodiversity management plan – operations phase
 - Biodiversity monitoring and evaluation program

12.00 **ZERO Heat Exhaustion, the Journey**
Hamza Jaffar Saleh - Head of Industrial Hygiene, Aluminium Bahrain (ALBA)
Exposure to extreme environmental heat stress during summer is one of the most challenging occupational health hazard during the harsh months of summer, especially in the region of Arabian Gulf. The presentation covers the management efforts and programs that were underlying the achievement of "ZERO Heat Exhaustion" case during the last 3 years.

12:30 Lunch @ ASADO RESTAURANT

SESSION 4

Chaired by: Abdullah Al Muqbali – Environment Specialist, Sohar Aluminium

13.30 **Waste Management Optimization**
Hattan Badawi – Environmental Sciences, Refinery, Ma'aden Aluminium

- Waste segregation focusing on EHS efforts to improve the waste segregation in the operation areas.
- Waste Statistics data focusing on quantities and ready information of all waste types
- Recycling benefits and the increasing the recycling percentage for the last three years

14.00 **Biological Sampling**
Shyju Varghese – Occupational Health Nurse, Sohar Aluminium
Biological sampling is a medical surveillance tool to estimate workplace exposures of workers to certain chemicals and analyze the effectiveness the control measures at workplace. Presentation intends to look at practical strategies, challenges faced by Health Professionals in Biological sampling, legal and other Obligatory requirements

14.30 Afternoon tea/coffee break

15.00 **Workhours and Overtime Policy for fatigue Prevention**
Ana Chamarro De Lema – Manager, Occupational Health & Hygiene - EGA

- What is fatigue and how it can affect the Health and Safety of workers
- Regulatory framework related work hours and overtime
- EGA Guidelines
- EGA Fatigue risk assessment

15.30 **EHS Management System**
Sultan Al Reesi – Senior Analyst, Waste Management, Sohar Aluminium

- EHS Management System overview
- ISO 14001-2015 requirements
- EHS Integrated system

16.00 **Ergonomics Friendly Workplace and Shift Start Stretching and Micro Breaks**
Abdul Rahman Sawafi – Occupational Health Officer, Sohar Aluminium
Musculoskeletal disorders is one of the major Health and safety challenges in heavy industries. An 'ergonomics friendly work place' can make a significant difference in reducing the incidence of Musculoskeletal disorders. Regular shift start stretching and practice of micro-breaks during work are two vital control measures in the overall ergonomics management, among others. Sohar Aluminium has successfully implemented a shift Start Stretching and Micro-Breaks training program to workers in almost all major work areas like Electrolysis, Anode Making, Metal Casting and Maintenance.

16.30 **Conclusion by:**
Salman Abdulla – Executive VP, EHSSQ & BT, Emirates Global Aluminium (EGA) and Chairman, GAC Safety & Environment Committee

16.40 END OF DAY 2