

OMAN WASTE MANAGEMENT & ENVIRONMENTAL SERVICES EXHIBITION & CONFERENCE

DAY ONE Monday, 23 May 2016

10.30 – 11.30 Registration & Welcome Coffee
(Pre-function Area)

Session 1: Inaugural Session

11:30 Welcome Speech by HE Najeeb A. Al-Rawas, **Undersecretary of the Ministry of Environment and Climate Affairs (MECA)**

11:40 **Keynote Address**
Waste Management Challenges in Oman

- Trends in waste generation in Oman
- National waste management strategy
- Current waste management infrastructure
- Roadmap for sustainable waste management

Presenter: Shk. Mohammed Sulaiman Al-Harthy, EVP, Strategic Development, be'ah

12:00 **Meeting the Challenge of Municipal Waste in GCC**

- Magnitude of SWM problem in GCC
- Environmental impacts and challenges
- Shortcomings, constraints and recommendations to improve SWM

Presenter: Eng. Rehan Ahmed, Head of Waste Disposal Unit, Supreme Council for Environment, Kingdom of Bahrain

12:20 **Industrial waste management in Oman and its challenges**

- Major industrial waste streams
- Hurdles in managing industrial wastes
- Prospects of creating Industrial Waste Exchange

Presenter: Dr. Ali Al-Alawi, Senior Corporate Environmental Advisor, PDO, Oman

12:40 **Ultimate Composition of MSW in Oman**

- Solid waste management situation
- Characterization of MSW
- Recycling prospects

Presenter: Prof. Mahad Baawain Director, Center of Environmental Studies and Research, Sultan Qaboos University, Muscat, Oman

1:00 **Panel Discussion: Sustainable Landfills in Oman: Reality or Pipe-Dream?**
Panelists

- Shk. Mohammed Sulaiman Al-Harthy, **EVP, Strategic Development, be'ah**
- Eng. Rehan Ahmed, **Head of Waste Disposal Unit, Supreme Council for Environment, Kingdom of Bahrain**
- Dr. Farag El Sheik El Fazari, **Environmental Consultant - Minister's Office, Ministry of Municipality and Environment Qatar**
- Dr. Ali Al-Alawi, **Senior Corporate Environmental Advisor, PDO**
- Ahmed Bin Juma Al Zadjali, **Head of Waste Management, Ministry of Environment & Climate Affairs, Sultanate of Oman**

1:20-1:45 **Coffee Break**

Session 2: Waste-to-Wealth Prospects in Oman Session Chair: Prof. Steve Halls

1:45 **MSW-to-Energy Potential in Oman**

- Overview of MSW-to-energy sector in GCC
- Business models for large-scale waste to energy projects
- Integration of MSW-to-energy in urban planning
- Case Study: Kingdom of Saudi Arabia

Presenter: Dr. Abdus Sattar Nizami, Assistant Professor and Principal Investigator, Center for Excellence in Environmental Studies, King Abdulaziz University, KSA)

2:05 **Creating Value from Waste: A Sustainable Development Approach**

- Fundamental gap between 'rhetoric' of zero waste and ground realities
- Important SWM issues to be tackled urgently
- Strategy for creating value from waste in Oman

Presenter: Salim Hamood Al-Rawahy, Chairman, Alawael Overseas Company LLC

2:25 **Ongoing & upcoming Projects & its Opportunities**

- Waste management roadmap
- Business opportunities for private sector
- Overview of ongoing and upcoming projects

Presenter: Fahad Alkharusi, Head of Business Development Department, be'ah

2:45 **Panel Discussion: Waste-to-Wealth Opportunities in GCC**
Panelists:

- Dr. Abdus Sattar Nizami (**Assistant Professor and Principal Investigator, Center for Excellence in Environmental Studies, King Abdulaziz University, KSA**)
- Salim Hamood Al-Rawahy, **Chairman, Alawael Overseas Company LLC**
- Fahad Alkharusi, **Head of Business Development Department, be'ah**
- Hisham Sherif, **CEO, ENTAG**

3:00 Break for Lunch – End of Day 1

DAY TWO

Tuesday, 24 May 2016

Session 1: Waste as a Valuable Resource

Session Chair: Prof. Yassine Al Sharaabi

- 8:00 Registration & Networking
- 8:55 Chairman's opening Remarks
- 9:00 **Key Note Speech**
Career Development for Environmental Industry Professionals
- Need for professional standards, accreditation and continuing education.
 - Role of mentorship and innovation
 - Role of Oman branch of International Environmental Management and Assessment
- Presenter: Steve Halls, Chairman, IEMA Oman**
- 9:20 **Cradle-to-Grave Analysis of Hazardous Wastes**
- Treatment, storage and disposal of hazardous wastes
 - Hazardous waste tracking in the Middle East
 - Minimization and recycling of hazardous wastes
- Presenter: Dr. Puneet Sarna, Divisional Manager, Al Ahlia Environmental Services (Oman)**
- 9:40 **Maximizing the value of waste**
- Waste as a Resource – enabling and creating value
 - Waste to Products – barriers and challenges: perception or reality?
 - The UK experience
 - The GCC opportunity and challenge
- Presenter: Mark Heesom, Managing Director of Waste Management Strategic Partnership and Development, Bee'ah, UAE**
- 10:00 **Greening of Municipal Wastewater Treatment Plants**
- Tapping into resources available in municipal wastewater treatment plants
 - Strategy for transforming STPs into production hub for biogas, biosolids and bioeffluents
- Presenter: Dr. Ahmed Al-Busaidi, Associate Professor, Department of Agricultural Engineering, Sultan Qaboos University**
- 10:20 **Sustainable Hydrocarbon Economy through Waste Resource**
- Overview of waste gasification technology
 - Unending benefits of syngas
 - SWM as catalyst for sustainable hydrocarbon economy
- Dr. Geoff Nesbitt, Group Head Technology Strategy, Petrofac**
- 10:40 **Panel Discussion: Industrial waste management scenario in Oman: The way forward**
- Steve Halls, Chairman, IEMA Oman**
Dr. Puneet Sarna, Divisional Manager, Al Ahlia Environmental Services (Oman)
Mark Heesom, Managing Director of Waste Management Strategic Partnership and Development, Bee'ah, UAE
Dr. Claire Cosgrove, Professor, Department of Environmental Management and Environmental Science, AMA International University, Bahrain
Dr. Geoff Nesbitt, Group Head Technology Strategy, Petrofac
Abdul Karim Vettianickal, MBA, CMgr MCMI (UK), ACIEH (UK) MIOOSH (UK), PhD Researcher in UCN, General Manager Maqshan Oil & Gas Services (SAOC)

11:10-11:45 **Coffee Break & Networking**

Session 2: Italian Experience in Waste Management (Brought to you by ECOMONDO, The green technologies expo, Italy)
Session Chair: Francesco Fatone

- 11:45 **Greenrail - Innovative and Sustainable Railway Sleepers**
- Introduction to Greenrail
 - Greenrail as a substitute for concrete sleepers
 - Sustainability aspects of green sleepers
- Presenter: Giovanni M. De Lisi, CEO & Founder, Greerail, Italy**
- 12:05 **Municipal wastewater as a feedstock for valuable resources**
- Trends in municipal wastewater management
 - Production of reusable water, value-added organics and fertilizers
 - SMART plant for municipal wastewater management
- Presenter: Francesco Fatone, PhD, University of Verona and Coordinator of EU Horizon2020 "SMART-Plant"**
- 12:25 **Panel Discussion : Meeting future water needs by reusing and recycling industrial and municipal wastewater**
- Francesco Fatone, Associate Professor, University of Verona, Italy
 - Ahmed Mazrouy, Chief Executive Officer, Majlis Industrial Services & Board Member, Oman Green Building Council
 - Alexandros Stefanakis, Constructed Wetlands Specialist, Bauer Nimr
 - Dr. Radha Krishnan, Business Sector Manager - Infrastructure and Environment, Worley Parsons

1 to 1:30 **Coffee Break & Networking**

Session 3: Green Buildings and Environmental Awareness
Session Chair: Eng Rehan Ahmed

- 1:30 **Pilot green home for a less-privileged family at Majlis village**
- Low-cost green housing for underprivileged
 - Challenges and barriers
 - Scale-up issues
- Presenter: Ahmed Al Mazrouy, CEO, Majlis Industrial Services and Board Member, Oman Green Building Council**
- 1:50 **Rationale for Sustainable Buildings in Oman**
- Climatic challenges and legislative issues
 - Benefits of green buildings for Oman
 - Trends in Oman's green building sector
 - Strategy for developing Oman's green building sector
- Presenter: Dr. Saleh Al-Saadi, Sultan Qaboos University**
- 2:10 **Waste Education and Awareness Strategy**
- Responsible behavior in reducing and managing waste
 - Role of information, education and motivation
 - Branding of waste management strategy
- Presenter: Prof. Claire Cosgrove, Department of Environmental Management and Environmental Science, AMA International University, Bahrain**
- 2:30 **Panel Discussing: Minimizing environmental impact of petrochemical industry in Oman**
- SQU – Dr. Yassine Sharabi
 - CCE – Dr. Sanjay Govind Patin
 - University of Nizwa – Dr. Sridhar Reddy
 - Sur College of Applied Sciences – Dr. Mohammed Zafar

3:00 **Break For Lunch– End of Day 2**