

ALGAE WORLD MENA

DUBAI, 25-27 FEB 2013



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Day 1 - 25 Feb 2013, Monday

- 08:00 Morning Registration
- 09:00 Chairman's Introduction
*Dato'. Syed Isa Syed Alwi, Chief Executive Officer
Algaetech International Sdn Bhd*
- 09:10 **Implementation of the Saudi Arabia Biorefinery Algae project**
 - identify algae species native to the Saudi Arabia coastal waters*Prof Radhouan BEN-HAMADOU (Ph.D.)
Research Associate, Centre of Marine Science
Deputy Director, UNESCO-International
Centre for Coastal Ecohydrology*
- 09:40 **Genetic Modification and selection of the perfect strain for algae cultivation in outdoor ponds**
 - avoiding contamination in large scale ponds
 - isolation and screening of suitable algae strains*Prof Kourosh Salehi-Ashtiani, Managing Director
Center for Genomics and Systems Biology
New York University Abu Dhabi*
- 10:20 Discussion followed by Coffee
- 10:50 **Saline algae culture for biofuel production**
*Dr Navid Moheimani, Senior Lecturer
Algae R&D Centre School of Biological Sciences and
Biotechnology, Murdoch University*
- Developments on Algae Higher Value Added Products**
- 11:20 **Overview on Culture of Dunaliella salina for induction and extraction of B-carotene in Kuwait**
*Tawfiq Saleh Abu-Rezq, Research Scientist
Kuwait Institute for Scientific Research
Aquaculture, Fisheries and Marine Environmental
Department*
- 11:50 **South Africa - Production of Omega 3 Fatty Acid EPA & High Value Added Products from Microalgae**
*Dr . Dheepak Maharajh, Biosciences Algal
Researcher, Council for Scientific and Industrial
Research (CSIR)*
- 12:20 **First Commercial Spirulina Project in Jordan: Obstacles and Success**
*Samal Y Kamal, Ph.D, General Manager
BioEnergy Tech*
- 12:50 Discussion followed by Lunch

Project Initiatives in the Region

- 14:00 **Converting Algae Biomass to Energy Products in the UAE**
 - Potential for Scaling up
 - the different feeds and enhancers
 - algae species
 - water quality and consumption
 - location of the pilot relative to the feed source
 - different product lines from the algae including testing of the algae biodiesel on test engine and bus*Dr Yousef Al-Hayek, UAE University*
- 14:30 **Egypt**
 - Feasibility of Egyptian algae isolates and potentialities of some freshwater microalgae grown in outdoor open ponds as renewable resources for biofuels, animal feed and organic fertilizers*Prof. Mohammad Abdel-Hamid, Associate Professor
University of Mansoura*
- 15:00 **Strategic Context of Qatar Advanced Biofuel Platform**
 - cyanobacterial and microalgal strain selection
 - strain characterization
 - fuel optimization
 - demonstration facility
 - pre-commercial pilot plant and large scale trials
 - comparative methods for outdoor growth*Prof Dr. Malcolm Potts, Prof of Biochemistry
Emeritus/PI Qatar Biofuels, Qatar University*
- 15:30 Discussion followed by Tea
- 16:00 **Qatar**
 - Sustainable Aviation Biofuels - alternative feedstocks, costs and technology*Capt. Christian Schroeder, Head of Corporate Social
Responsibility, Environment & Fuel projects/VP
Qatar Airways*
- 16:30 **Bio-remediation of Industrial Waste Streams for the Sustainable Production of Valuable Products and Environmental gain**
*Enrico Bombardieri, Executive Director
MBD Energy Limited*
- 17:00 **Membrane Separation & Concentration Technology for Harvesting Algae**
*Mr. Doug Dilillo, Global Marketing Lead Industrial
Biotechnology, Pall Corporation (HQ)*
- 
Pall Corporation
- 17:30 Final Discussion. End of Day 1

Day 2 - 26 Feb 2013, Tuesday

- 09:00 Chairman's Remarks
- 09:10 **Direct Conversion of Algal Oils to Jet and Diesel Fuels**
*Mark Reno, Process Technology & Equipment,
UOP Middle East Co.*
- 09:40 **Using produced water from oil & gas to cultivate algae**
Paul Laur, CEO, Eldorado Biofuels
- 10:10 Discussion followed by Coffee
- 10:40 **Isolation and characterization of microalgae strains from the United Arab Emirates for biofuels and other high value chemicals**
*Prof Hector Hernandez
Masdar Institute of Science and Technology*
- 11:10 **Co-Production of Biofuels and Value-Added By-products from Algae**
*Prof. Dr. Robert M. Baldwin, Professor of
Chemical Engineering, Masdar Institute of
Science and Technology*
- 11:40 **Microalgae Bioindustry: from lab to demo scale. AlgaEnergy Case Study and its next milestone, the Biorefinery concept**
Dr. Bernardo Llamas, R&D Director, AlgaEnergy
- 12:10 Final Discussion. End of Conference.

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Post Conference Workshop 1 (26 Feb)	795.00
Site Visit to Masdar Institute (27 Feb)	70.00
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Program details published herein are confirmed as at 18/01/2013.
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Separately Bookable Workshop Algae and CO2 Capture (Process Economics & Cultivation Efficiency) 14:00 - 17:00 hrs.

- 14:00 **Techno-economic analysis on the carbon capture technologies available**
 - credits for flue gas
 - legal issues and CO2 pumping from flue gas, pipe and inject into ground and costs.*Mr Erlend Fjøsna, Programme Director for
Carbon Capture and Storage, Bellona Foundation*
- 14:40 **Advantages & barriers of co-locating algae pond with CO2 industrial sources**
 - Would all microalgae algae mass cultures need addition of CO2 to achieve high productivity?
 - Process of capturing flue-gas CO2 to the algae ponds to harvest and grow algae
 - Evaluation of economies of scale vs. advantages of decentralized production considering parasitic losses of CO2 transport*Dr Navid Moheimani, Senior Lecturer, Algae R&D
Centre School of Biological Sciences and
Biotechnology, Murdoch University*
- 15:20 Discussion followed by Tea Break
- 15:50 **Developing and evaluating approaches for managing the variable nature of both CO2 emissions and algal growth rates/CO2 uptake**
 - Flue gas CO2 absorption/biofixation efficiency given seasonal and diet variations in photosynthesis and various water chemistries*Dr Navid Moheimani*
- 16:30 **Effects of various flue gases on algae production and co-product quality**
Dr Navid Moheimani
- 17:00 Final Discussion. End of workshop.

Day 3 - 27 Feb 2013, Wednesday

Optional Site Visit to Masdar Institute and the Algae Research Laboratory

- 08:00 Depart Hotel Lobby
- 09:30 Arrive Masdar Institute
Tour for 2 hours
- 12:00 Depart Masdar
- 13:30 Arrive back to Hotel