



## Day 1 - 25 Feb 2013, Monday

- 08:00 Morning Registration
- 09:00 Chairman's Introduction
- 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
- 11:00 **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**
- 11:30 **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*
- 12:00 **South Africa - Production of Omega 3 Fatty Acid EPA & High Value Added Products from Microalgae**  
*Dheepak Maharajh, CSIR Biosciences*
- 12:30 Discussion followed by Lunch

## Project Initiatives and Potential for Commercial Production

- 14:00 **Converting Algae Biomass to Energy Products in the UAE**  
 • Potential for Scaling up  
 a) the different feeds and enhancers  
 b) algae species  
 c) water quality and consumption  
 d) 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 Dr Mohammad I. Abdel-Hamid, Algae & Water Quality - Applied Phycology Botany Department, Faculty of Science, University of Mansoura*
- 15:00 **Qatar**  
 • Sustainable Aviation Biofuels - alternative feedstocks, costs and technology  
*Capt Chris Schroder, Qatar Airways*
- 15:30 Discussion followed by Tea
- 16:00 **Qatar Algae Biofuels Project update & Scaling up**  
 • isolation of cyanobacteria and microalgae unique to Qatar.  
 • success in growing cultures in the lab, lipids extraction  
*Dr Malcolm Potts, Qatar University*
- 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 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**  
*Dr Robert M Baldwin, Prof of Chemical Engineering, Masdar Institute*
- 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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|---|---------|
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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.

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