



Day 1 - 16 Apr 2012, Monday

- 08:00 Registration & Coffee
- 09:00 Chairman's Introduction & Welcome
Professor Michael A. Borowitzka
Algae R&D Center, School of Biological Sciences & Biotechnology
Murdoch University
- 09:15 **Open Pond Systems with High Saline Algae**
Muradel Algae Project - Scaling up to the next level
• Discharge, dewatering and env issues
Gerald Barker, Interim CEO
Muradel
- 09:50 **Algae - the optimal crop & growth industry for Western Australia**
Matt Caspari, Founder
Aurora Algae
- 10:20 Discussion followed by Coffee
- 11:00 **Technology developments in downstream processing and the integration of Harvesting, Separation & Extraction processes**
Dr David Lewis, Senior Lecturer
School of Chemical Engineering
University of Adelaide
- 11:30 **Discovering the best Australian sites for algae cultivation and scale-up**
• Possible scale of algae cultivation & biocrude potential across Australia based on the geographic assessment of nutrient, solar and land resources
Dr. David Batten, Leader
Low-Cost Algal Fuels Project
CSIRO Energy Transformed Flagship

Commercial Applications of Algae - Drop-in Fuels, Fine Chemicals, Livestock Feed

- 12:00 **Microalgae Energy Farms for durable production of fuel and livestock feed**
Assoc. Prof. Peer Schenk, Plant-Microbe Interactions & Algae Biotechnology Labs
Queensland Alliance for Agriculture and Food Innovation

- 12:30 Discussion followed by Lunch
- 14:00 **Direct Conversion of Algal Oils to Jet and Diesel Fuels**
Steve Lupton
UOP LLC, a Honeywell Company
- 14:30 **Biodiesel from algae : Can properties affects its use ?**
Gerhard Knothe, Research Chemist
USDA
- 15:00 **Current status of conversion technologies for algal biomass into biofuels highlighting areas requiring specific research**
Karne de Boer
Regenerate Industries
- 15:30 Discussion followed by Tea
- 16:00 **Maximising algae's unique chemical qualities in a multi-biomass approach to producing drop-in fuels and fine chemicals**
Barrie Leay, Chairman
Aquaflow Bionomics

Algae Co2 Capture

- 16:30 **Not just a nuisance: prospects for algae at wastewater treatment plants**
• Co2 mitigation and wastewater treatment
Gwyneth Elsum, Energy Planner, Strategic Planning
Melbourne Water
- 17:00 **Capturing flue-gas CO2 to the algae ponds to harvest and grow algae**
• Evaluation of economies of scale
Andrew Lawson, Managing Director
MBD Energy
- 17:30 Discussion. Close of Day 1

Program details published herein are confirmed as at 08/02/2012.
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Day 2 - 17 Apr 2012, Tuesday

- 09:00 Chairman's Introduction
- 09:10 **CO2 bioremediation using microalgae**
• Systems & Techno-Economic Assessment
• Advantages & barriers of co-locating algae pond with Co2 industrial sources
• Effect of CO2 addition on water chemistry and growth of algae (biomass and lipid).
• Effect of different Co2 sources on algae production and co-product quality
• Best species for CO2 bioremediation
Dr Navid Moheimeeni, Senior Lecturer
Algae R&D Centre, School of Biological Sciences and Biotechnology
Murdoch University

Lessons learnt on Commercial Scale Production in PBR & OpenPond

- 09:40 **Tubular Photobioreactors in Commercial Microalgae Production – Operational Experiences at the 12000 m² Plant in Klötze/Altmark**
Dr Martin Ecke, CEO
Roquette Klötze GmbH & Co. KG
- 10:15 Discussion followed by Coffee Break
- 10:50 **Mass production of Microalgae in Open-Pond & Lessons learnt**
Amha Belay, Senior VP/ CTO
Earthise Nutritionals
- 11:20 **Update on the Darke Peak Algae Biofuels Commercialisation project in Eyre Peninsula**
Dr Stephen Clarke, Leader - Materials & BioEnergy Group,
Flinders University
- 11:50 **Update on Murdoch Algae R & D Centre & future directions**
Speaker: Michael Borowitzka
- 12:20 Final Discussion. Close of Conference followed by Lunch

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Optional Site Visit

17th April (2 pm - 4 pm)

- 14:00 Depart hotel
- 14:20 Arrive Murdoch Algae R & D Centre

Tour also includes visit to SABC (State Agricultural Biotechnology Center) & Separation Science and Metabolomics Laboratory.

SABC is the collaborative university Centre for R&D in agricultural and veterinary biotechnology in Western Australia. It provides platform technologies and world class R&D facilities in agricultural biotechnology to researchers from universities, state government and industry. Currently a lot of work on molecular biology and genetic modification is being done and led by Dr Mike Jones, Professor of Plant Sciences and Director of SABC.

The Separation Science and Metabolomics Laboratory are applying modern mass spectrometry techniques to the characterization of conventional and sustainable energy sources and products to help improve production, recoveries and quality.

Commercial refinery production of non petroleum based fuels such as biodiesel requires the characterization of feedstock (such as seed oils, algae and other forms of biomass) to allow for the prediction of fuel quality downstream. The Separation Science and Metabolomics Laboratory is now applying GC and LC-MS to characterise the lipid composition of feedstocks under various growth conditions and environmental perturbation to improve the quality of biofuels.

- 16:30 Depart back to hotel

Per Person Fee for Conference:		(AUD)
Regular Fee for 1		1395.00
Group Fee for 3 or more		1195.00
Site Visit		(AUD)
Site Visit: 17 Apr (per person)		75.00

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