

ALGAE

WORLD AUSTRALIA

16-17 August 2011
Townsville, Queensland
Rydges Southbank Townsville
Convention Ctr

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Site Visit: **17 Aug (per person) AUD 75.00**

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DAY 1 - 16 August 2011, Tuesday

08:00 Registration & Coffee

09:00 Chairman's Opening Remarks

09:10 Towards a Knowledge Management System for Algal Biofuels and Bioproducts in Australia

- Where do algae grow best in Australia?
- Evaluation of suitable algae species/strains for Australia for biofuels & bioproducts

Dr. Susan Blackburn, Head

Australian National Algae Culture Collection

09:40 Scaling Up — From the Lab to the Field

- The new phase of algae scale-up - and the challenges involved
- Lessons learned on integrating vendors in the process chain
- Integrating innovation with product management in a fast-moving environment
- Balancing conventional process engineering with a living system, algae

Riggs Eckelberry, Chairman and CEO, OriginOil Inc

10:10 Production of Biofuel from Saline Microalgae

Dr. Michael A Borowitzka, Professor & Head of Algae R&D Center, Murdoch University

10:40 Discussion followed by Refreshments

11:15 Roundtable Discussion: Australian Government's Policies and Programs in Support of Algae Biofuels & Bioproducts

Panelists:

Alan Bartmanovich, Program Manager

Australian Centre for Renewable Energy (ACRE)

Peter Mellor, Executive Regional Director-North

Department of Employment, Economic Development & Innovation, Queensland Government

11:45 Challenges and Benefits of Integrating Algae Based Carbon Abatement and Alternative Energy Opportunities – Perspective of a Power Company

Roland Davies, Manager, Business Development Project

Loy Yang Power

12:15 Succeeding in the Algae Business

- What business model to adopt?
- What markets to serve?
- Project implementation challenges
- Infrastructures required
- Building partnership and alliances
- Outlook of the algae end-use markets

Andrew Lawson, Managing Director, MBD Energy Limited

12:45 Discussion followed by Lunch

14:00 Chairman's Remarks

14:05 Market Potential of Algae in Health, Feed and Cosmetics

Tony Dowd, Managing Director, Supreme Biotechnologies Ltd

14:35 Algae Biofuel for Aviation

Aidan Dargan, Research Task Lead

Boeing Research & Technology Australia

15:05 Microalgal Lipid Content & Productivities and its Potential Uses

- Microalgal biomass and lipid yields and productivities
- Fatty acid methyl ester profiles
- Suitability of these strains for bioproduct development, e.g. biodiesel and biopolymers

Dr. Kirsten Heimann, Director, North Queensland Algal Identification/Culturing Facility, James Cook University

15:35 Discussion followed by Refreshments

16:10 Process Simulators in the Development of Cost-Effective Commercial-Scale Algal Biofuels Production

Dr. Eric Dunlop, Chairman, Pan Pacific Technologies Pty Ltd

16:40 The Use of Waste Water to Produce Microalgae for Nutrient Recovery and Co-Production of Biofuels, Energy and other Products

- Comparison of Lifetime net present values (LNPV) and carbon footprints of four processing pathways for the future development of Melbourne's two largest treatment plants

Dr. David Batten, Leader, Algal Pre-feasibility Study CSIRO Energy Transformed Flagship

17:10 Wastewater Treatment and Biofuels Production in High Rate Algal Ponds (HRAPs)

Dr. Rupert Craggs, Principal Scientist and Manager -

Aquatic Pollution Group, National Institute of Water and Atmospheric Research (NIWA)

17:40 Discussion followed by End of Day One

DAY 2 - 17 August 2011, Wednesday

09:00 Chairman's Remarks

09:05 Photobioreactors for Production of Microalgal Biofuels

Dr. Yusuf Chisti, Professor of Biochemical Engineering

Massey University

09:35 Photobioreactor Design Philosophy, Principles and Parameters

Dr. Joe Herbertson, Director, The Crucible Group Pty Ltd

10:05 Discussion followed by Refreshments

10:40 Optimisation of the Open Pond System

Matthew Caspari, Co-Founder & Managing Director

Australia, Aurora Algae Pty Ltd.

11:10 Engineering Solutions for Establishing a Technically and Economically Feasible Fully Integrated Microalgae to Biofuel Process Plant

Dr. David Lewis, Senior Lecturer, University of Adelaide

11:40 Cost Effective Algae Harvesting

- Algae are completely dewatered and harvested as a paste
 - Algae are harvested alive: undamaged and without overheating
 - Positive energy balance; less than 8% of the energy is used for harvesting
 - Fundamentally new centrifugation technology, harvest algae at less than 1kWh/m³ and at only 3.000G
 - Low cost harvesting through high separation efficiency at high hydraulic flow
 - Industrial equipment;scalable
- Marco Brocken, CEO, Evodos B.V.*

12:10 Next Generation Algae Extraction and Fractionation Technology

- A very high yield, low energy input wet algae extraction technology proven with over 400 different algae samples and many algae strains
 - Already scaled to 100 Kg per day dry-weight equivalent algae
 - Algae paste is fractionated into value streams including biodiesel, "hydrotreatable algal oil", omega-3 rich lipids, proteins and sugars
 - Algal oils extracted using this technology have been converted into on-spec diesel and HRJ
- Dr. Brian Goodall, Vice President of Business Development Solution Recovery Services - SRS Energy*

12:40 Final Discussion followed by Lunch

13:30 End of Conference

Optional Site Visit to MBD-JCU Algal R&D Facility (13:45hr-16:45hr)

Due to the overwhelming response, participants will be assigned to 2 groups. - **Group A and Group B**

Group A:

- 1:45 Gather at Rydges Southbank Townsville, Hotel Lobby for bus transfer to the site location
- 2:15 Group A - Arrival at Site
- 3:20 Group A departs Site for Hotel
- 3:45 Arrive back in Rydges Southbank Townsville

Group B:

- 2:45 Group B - Gather at Hotel Lobby for bus transfer to site location
- 3:15 Group B Arrival at Site
- 4:15 Group B departs Site Visit back to Hotel
- 4:45 Arrive back in Rydges Southbank Townsville

Important Note : To meet OH & S requirements, participants MUST wear closed shoes.

Additional Fee for Site Visit: A\$75 per person