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Program topics, speakers and schedule are confirmed as at printing time. Please refer to event page at www.cmtevents.com for updated program agenda.

DAY 1 - 19 Oct 2010, Tuesday

08:00 Registration and Coffee

09:00 Welcome and Speed Networking

09:10 Chairman's Remarks
Dr. John R. Benemann, CEO, MicroBio Engineering, Inc.

Practical Experiences in Algae Production / Value Proposition in Carbon Capture

09:15 Succeeding in the Algae Business – Moving Away from 'Or' to 'And'

- Moving from 'or' to 'and': No longer raceway 'or' photobioreactor, should be raceway 'AND' photobioreactor, also algae for fuel 'and' feed 'and'...
- · What business model to adopt?
- · What markets to serve?
- Project implementation challenges
- · Infrastructures required
- · Building partnership and alliances
- Outlook of the algae sector and end-use markets Vitor Verdelho Vieira, President, Necton Chief Development Officer, AlgaFuel

09:45 Growing Algae from Stack Gas Emissions at a Cement Plant

- Case study of Pond Biofuels and St Marys Cement Martin Vroegh, Environment Manager, St Marys Cement Inc.
- 10:15 Discussion followed by Networking Break
- 10:55 Technological Development of Algal Carbon Capture and Storage Tony St Clair, Agribusiness Manager, MBD Energy Limited
- 11:25 Commercial Production of Microalgae in Korea and its Alternative Markets & Applications
 Dr. Mi-Kyung Kim, Chief Development Officer, EcoPhycoTech Ltd
- 11:55 Discussion
- 12:10 Networking Lunch
- 13:30 Chairman's Remarks

 Matt Caspari, Managing Director, Aurora Algae Pty. Ltd.

Value Proposition in Waste Water Treatment

13:35 Wastewater Treatment with Biofuels Production in High Rate Algal Ponds (HRAPs)

- Benefits of wastewater treatment with HRAPs including efficient nutrient removal and natural disinfection
- Enhancing the performance of HRAP by flue gas CO2 addition
- Production of colonial algae simply harvested gravity settling

 Conversion of algal biomass for biofuels (biocrude, biodiesel, biogas) and use as local community niche distributed energy sources

Dr. Rupert Craggs, Principal Scientist and Manager -Aquatic Pollution Group

National Institute of Water and Atmospheric Research (NIWA)

14:05 Large-scale Algae Biofuels Production with Municipal and Agricultural Wastewaters

- Algae Biofuels Production: limitations of water, carbon and nutrients
- Using wastewaters to supply algal biofuels production processes
- Economics of large-scale algal biofuels production using wastewaters
- Global potential for algal biofuels production using wastewaters
- Dr. John R. Benemann, CEO, MicroBio Engineering, Inc.

Algae Technology Development in Asia Pacific

14:35 Algae Research in Singapore - Systems Biology of Lipid Metabolism in Algae

- Combined transcriptome and lipidome analysis of Chlamydomonas
- MicroRNA-mediated gene expression knockdowns as a probe of algal lipid metabolism
- De novo transcriptome sequencing of diverse algal species
- Dr. Neil Clarke, Deputy Director, Genome Institute of Singapore
- 15:05 Discussion followed by Networking Break

15:45 China: Genetic Foundations of Robust Oil Production in Microalgae – New Generation Genomics Technologies for Algal Feedstock Development

- Current status and challenges of oilgae feedstock research and development
- Phylo-Genomics approach to investigate and engineer the genomic diversity, function and evolution of microalgal oil production using Nannochloropsis as a model

Prof. Dr. Jian XU, Group Leader of Functional Genomics Group, Director of Bioenergy Genome Center, Qingdao Institute of Bioenergy and Bioprocess Technology (QIBEBT)

16:15 Will Ocean be the Blue Ocean for Future Fuels? - Development in Korea

- Why we should use ocean (not land) for our future biofuel production
- Possibilities and challenges in microalgal cultures in ocean.
- Cost analysis between the cultures in the ocean and on the land
- Introduction of Korean National Project on Marine Bioenergy Program

Prof. Dr. Choul-Gyun Lee, Professor, Department of Biological INHA University

16:45 Development of Algal Biofuel Production in Australia

- The need for biodiesel in Australia and the role that algae plays
- algae playsThe myriad choices for the Australian algal fuel producer
- Algal species GMO/wild/selectively bred; Growth in ponds or photo-bioreactors; salt-water, fresh-water or waste-water as the medium; Natural or artificial light;
- Energetics and greenhouse gas emissions of algal biofuel production
- Dr. Tom Beer, Leader, Transport Technologies & Sustainable Fuels, Energy Transformed Flagship, Commonwealth Science and Industrial Research Organisation (CSIRO)
- 17:15 Discussion followed by End of Day 1
- 17:30 Cocktail Reception for Speakers and Delegates

DAY 2 - 20 Oct 2010, Wednesday

09:00 Chairman's Remarks

Tony St Clair, Agribusiness Manager, MBD Energy Limited

Development of Algae-Based Bioenergy

- 09:05 Commercial Viability of Large Scale Algal Biofuel Production & Technological Challenges

 Matt Caspari, Managing Director, Aurora Algae Pty. Ltd.
- 09:35 Carbon Finance Support for Bio-Diesel Production from Algae Rahul Kar, Director, Carbon and Sustainability Advisory KPMG Corporate Finance
- 10:05 Discussion followed by Networking Break
- 10:40 The Big Algae Build-Out: Why should CO2 Generators Participate and How? Paul Reep. Senior Technical Advisor. OriginOil. Inc
- 11:10 Development of Bioethanol Production Technology from Red Macroalgae Dr. M. K. Shin, CEO/Vice-President, Biolsystems Co., Ltd.

1:40 Enhanced Biofuel Production from Microalgae by adding CO2 to Stimulate Lipid Biosynthesis (Biodiesel) and by Hydrothermal Processing (Syngas)

- Research aims to improve the efficiency and reduce the production costs of biodiesel and of bio-synthetic natural gas from microalgae biomass by:
- Demonstrating the technical and economical feasibility of an innovative process for syngas production by hydrothermal processing of microalgae
- Adding CO2 and optimizing the cultivation conditions to enhance oil production by selected microalgae

Dr. Jean-Paul Schwitzguébel, Permanent Sr Scientist, Lab. for Environmental Biotechnology

Swiss Federal Institute of Technology (EPFL) Lausanne

- 12:10 Final Discussion
 - :25 Networking Lunch
- 13:45 End of Conference