

Program topics, speakers and schedules listed herein are confirmed as at printing time.
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www.cmtevents.com

Biodiesel Industries Inc.
Nexant Asia
OriginOil
Benemann Associates
Massey University
Euro-Latin Capital
New Horizon Capital Limited
UNH Biodiesel Group
The Scottish Assoc. for Marine Science
Murdoch University
Institute of Environmental Science & Engineering
Aum Business Creations
Ben Gurion University
Algaelink
Holcim Ltd.
National Algae Assoc.
University of Bari
Algae Chem Sdn Bhd
IngrePro B.V.

ALGAE

WORLD 08

17-18 November
Swissotel Merchant Court Singapore

Cost Efficient Commercialization of Algae Biofuels
Latest advances and constraints in Cultivation, Harvesting and Processing
Asia/International Project Experience

promotion partners



Supported by

National Algae Association

Day 1 - Monday, 17 November 2008

- 8.00 Registration and Coffee
- 9.00 Chairman's Welcome and Introduction
*Russell Teall, President
Biodiesel Industries Inc.*
- 9.10 **Potential Role of Algae in Meeting Asian Biofuels Needs**
 - Overview of regional supply and demand developments to identify the regional opportunity
 - Technology considerations from a regional perspective
 - Competitive cost positioning of algae versus alternatives
 - Opportunities and challenges relating to regional developments*Clive Gibson, Principal
Nexant Asia*
- 9.40 **Algae for Fuel: Promises & Challenges**
 - Specific technology issues and solutions to overcome technology challenges
 - Standardized approach to algae production and commercialization*Riggs Eckelberry, President and CEO
OriginOil*
- 10.10 **Microalgae Oil Production - Status Report**
*Dr. John Benemann, Benemann Associates and Manager
International Network on Biofixation of CO₂ and Greenhouse Gas Abatement with Microalgae*
- 10.40 Discussion followed by Refreshments
- 11.20 **Biodiesel from Microalgae**
 - Oil yield and land requirement compared to Jatropha and Palm oil
 - Producing algal oil for biodiesel, integrated with anaerobic digestion of the residual biomass and carbon dioxide recycle

- Large scale methods of producing the biomass
 - CO₂ requirements (with and without recycle)
 - Potential uses and value of residual biomass
- Prof. Yusuf Chisti, Professor of Biochemical Engineering
Massey University*
- 12.00 **Structuring your Algae Venture to Attract Investment / Financing**
 - Selection criteria of financier/investor
 - Enhancing the financeability of a project*Christian Langaard, Managing Director
Euro-Latin Capital*
*Tony Dowd, Principal
New Horizon Capital Limited*
- 12.35 Discussion followed by Lunch
- 14.00 **Algal Diversity & Applications**
*Dr. Frithjof C. Kuepper, Head of Culture Collection of Algae and Protozoa (CCAP)
The Scottish Association for Marine Science*

Production & Conversion Systems

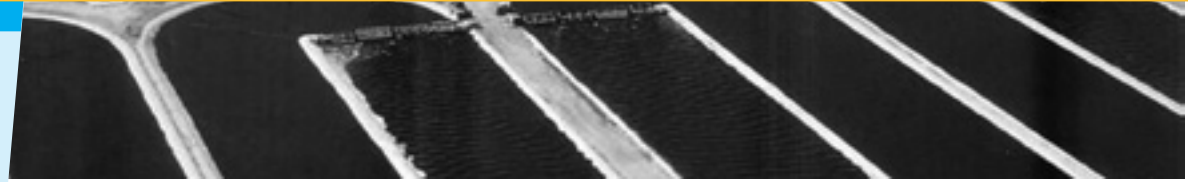
- 14.30 **Microalgae Growth in Wastewater to Produce Biodiesel**
*Dr. Ihab H. Farag, Director and Founder
University of New Hampshire Biodiesel Group*
- 15.00 **Industrial Farming of Algae for CO₂ Sequestration in Cement Plants**
*Ramesh Suri, Regional Geocycle Project Head
Holcim Ltd.*
- 15.30 **Strain Selection & Lipid Upgrading for Biodiesel Production**
*Prof. Michael Borowitzka
Professor of Marine Phycology
Murdoch University*
- 16.00 Discussion followed by Refreshments

- 16.30 **Closed Photobioreactor Design Considerations & Economics**
*Peter van den Dorpel, Chief Operating Officer
Algaelink*
- 17.00 **Systems & Economics of Large-Scale Algae Production in Open Ponds**
*Prof. Michael Borowitzka
Professor of Marine Phycology
Murdoch University*
- 17.30 **Integration of Algae & Biodiesel Production into a Combined Heat and Power System**
*Russell Teall, President
Biodiesel Industries Inc.*
- 18.00 **Growth Rate and Productivity in Large Scale Algal Cultures: Facts, Fictions and Everything In-Between**
*Prof. Avigad Vonshak, Director
J. Blaustein Institutes for Desert Research
Ben Gurion University*
- 18.30 Discussion followed by End of Day One

1845-1945 hrs. *Networking Reception*
for Speakers & Delegates

Day 2 - Tuesday, 18 November 2008

- 9.00 Chairman's Remarks
- 9.05 **Algae Market Opportunities for Biodiesel & Bioethanol**
*Will Thurmond, Chairman, Research & Development
National Algae Association (USA)*



9.35 **Life Cycle Assessment of Using Algae for Energy Production**

- Research on the energy cycle of the whole process - total energy inputs and outputs

Prof. Dr. Michele Aresta, Professor of Chemistry
University of Bari

10.05 **Prospects of Developing Algae Biofuels in Malaysia**

Syed Isa Syed Alwi, CEO
Algae Chem Sdn Bhd

Harvesting, Oil Extraction & Processing

10.35 **Industrial Harvesting and Processing of Algae**

Carel Callenbach, Managing Director
IngrePro B.V.

11.05 Discussion followed by Refreshments

11.35 **Marine Algae Oil Extraction Technology and Quality Evaluation for Efficient Biodiesel Production**

David Liang, VP Technology & Commercialisation
Institute of Environmental Science & Engineering

12.05 **Conversion of Algal Oil to Biodiesel**

- Fuel quality & characteristics of algae biodiesel

12.35 **Market Potential for Algae Biofuels in Southeast Asia**

Per Dahlen, Managing Director
Aum Business Creations

13.05 Final Discussion followed by Lunch

14.30 End of Conference

You will network with

- Power plants • Petrochemical producers • Fertilizer manufacturers
 - Chemical plants • Cement companies • Distilleries
- Steel producers • Coal-to-liquid plants • Venture capitalists
- Angel investors • Institutional investors • Financial institutions
 - Transportation companies, Airlines • Oil companies
- Biofuel and Renewable Energy producers • Refineries
 - Government departments and agencies
 - Universities and Research Institutions

Algae is no longer the pond scum, the environmental menace, it is now the darling of the biofuels industry. Boasting higher productivity compared to crop-based biofuels, energy and industrial majors like Shell, Chevron, Boeing, Airbus and giants Honeywell are heavily investing in research and development, racing to commercialise algae biofuel production.

"Research like that being done at the Colorado State University's (CSU) Engines and Energy Conservation Laboratory and the University of New Hampshire (UNH), suggests that algae could supply enough fuel to meet all of America's transportation needs in the form of biodiesel."

The Green Chip Review (Special report), August 2008

However, several hurdles and production challenges must be addressed before Algae Biofuel can be produced on a large scale basis. Peter Williams, Emeritus Professor of Biogeochemistry at the School of Ocean Sciences at the University of Wales in Bangor identified three major concerns affecting the viability of commercial production: The capital and operational costs of the plant; development work on the productivity of algae; and the cost of harvesting algae." (extracted from Shell.com, authored by Wendel Broere, February 15, 2008).

Other factors that impinge **commercialization** include: **access** to high volume **of water** (which could limit the location of the plant); **identifying** the **best strains** for biofuel production; finding economical and efficient methods for harvesting and oil extraction.

Attend **Algae World 2008** and gather critical information concerning algae cultivation and algae fuel production.

Key Reasons to Attend Algae World 2008

- Gain in-depth understanding of the potential of algae as energy resource and the market outlook of algae-fuel and other applications
- Evaluate the competitiveness of algae biofuel vis-à-vis other feedstocks
- Explore business opportunity of Algae Biofuel in Asia Pacific
- Benefit from the project experience of industry practitioners
- Meet and interact with technology providers, research experts, energy developers, investors and financiers, all under one roof
- Clarify your concerns on sustainability from session on Life cycle assessment of algae to energy
- Obtain updates on latest R&D in cultivation, lipid upgrading, harvesting and oil extraction
- Identify partners for collaborative ventures
- Find out the project development risks and challenges and ways to overcome them
- Attract and Secure investors / financiers for your projects

Algae World 2008 is the only event you need to attend to **gather accurate information** and **foster meaningful relationship** for your venture. Sign up early to guarantee your place at the most authoritative algae biofuel conference in Asia Pacific.

ALGAE WORLD 08

17-18 November | Singapore



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FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

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USD1,495	USD1,195 (MIN SAVINGS OF USD900)

* Terms and conditions apply.

Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

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CONFERENCE VENUE

CMT has arranged special discounted room rate at S\$ 280++ (Single) per room per night only (subject to room and rate availability) for delegates at Swissotel Merchant Court Singapore. Daily American Buffet Breakfast is at additional S\$28.00++ per person. Please reserve your room with the hotel directly, providing full credit card number and expiry date to:

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Fax: 65 63369993
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Cut-off date: 16 October 2008

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- 11-12 Nov 08, MEXICO CITY

*Non-food Biodiesel Feedstock