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# ALGAE

## WORLD 09

Van der Valk Hotel Ridderkerk  
Rotterdam, The Netherlands  
27-28 April

*“Optimising Algae Production & Profit Potentials”*

Ingrepro  
New Horizon Capital  
Euro-Latin Capital  
Eartrise Nutritionals LLC  
NoriTech Seaweed Biotechnologies Ltd.  
OriginOil  
Centre for Sustainable Engineering

Centre d'Etude et de Valorisation des  
Algues (CEVA)  
Blue Marble Energy  
Biocentric Energy Algae LLC  
Ecofys Spain S.L.  
Ecofys Netherlands BV

CreveTec bvba  
POS Pilot Plant Corp.  
SBAE Industries  
University of Florence  
Wageningen University &  
Research Centre

promotion partners



## Day 1 - Monday, 27 April 2009

- 8.00 Registration & Coffee
- 9.00 Chairman's Welcome & Introduction  
*Tony Dowd, Principal  
New Horizon Capital*
- 9.10 **Algae Opportunities – Key Success Factors**
- Viable business model for mass algae production
  - Products & co-products and production strategies to maximise each product
  - Managing an integrated value chain
  - Costs and economics
  - Potential and limitations
- Carel Callenbach, Managing Director  
Ingrepro*
- 9.40 **Roundtable: Finance and Investment**
- The impact of difficult credit markets on clean-tech private equity investment
  - Financing models
  - Investors/lenders risk appetite and expectations
- Tony Dowd, Principal  
New Horizon Capital  
Christian Langaard, Managing Partner  
Euro-Latin Capital*
- 10.20 **Considerations & Challenges of Managing Large Scale Algae Farm**
- Lessons for biofuels production
- Dr. Amha Belay, Sr. Vice President /  
Chief Technology Officer  
Earthrise Nutritional LLC*
- 10.50 Discussion followed by Refreshments
- 11.30 **Business Model of Cultivating Macro-Algae in Open Pond, Market Outlook for High Value Products & Techno-Economic Review of Macro-Algae to Ethanol**
- Alex Harel, CEO  
NoriTech Seaweed Biotechnologies Ltd.*

- 12.00 **Algae for Fuel: Promises & Challenges**
- Specific technology issues and solutions to overcome technology challenges
  - Standardized approach to algae production and commercialization
- Dr. Vikram Pattarkine  
Sr. Vice President / Chief Technology Officer  
OriginOil*
- 12.30 Discussion followed by Lunch
- 14.00 Chairman's Remarks  
*Marc Van Aken, CEO  
SBAE Industries nv/sa*
- 14.05 **Economics & Technology of System Integrator to Produce Multiple Output**
- Bianca Forte, Senior Bioscientist  
Centre for Sustainable Engineering*
- 14.35 **French Seaweeds Applications: Tradition & Innovations**
- Opportunities to utilize all parts and elements from seaweeds
- M. Dominique Duche, Marketing & Commercial Manager  
Centre d'Etude et de Valorisation des Algues (CEVA)*
- 15.05 **Anaerobic Fermentation of Algae Biomass to Produce Biogas & Bio-Chemicals - Economics & Engineering**
- Kelly M. Ogilvie, President / CEO  
Blue Marble Energy*
- 15.35 Discussion followed by Refreshment
- 16.15 **Algae's Role in Carbon Capture & Recycle**
- Dennis Fisher, CEO  
Biocentric Energy Algae LLC*
- 16.45 **Utilisation of Algae in Aqua Feed and Green Water Technology for Shrimp**
- Nutritional profile of different algae (macro- algae and micro-algae) with focus on nutritional benefits of using algae
  - Potential for application in fish and shrimp feeds
  - Utilisation of seaweeds as binder (gelling agent) in feeds for shrimp and abalone

- Utilisation of micro-algae in green water technology for shrimp
  - Utilisation of micro-algae as ingredient in larval and postlarval shrimp feeds
- Eric De Muylder, Director  
CreveTec bvba*
- 17.15 **Worldwide Potential of Algal Bioenergy**
- On/offshore surface area
  - Sustainability criteria and likely concepts
- Sjors van Iersel, Bioenergy Consultant  
Ecofys Spain S.L.*
- 17.45 Discussion followed by End of Day One
- ## Day 2 - Tuesday, 28 April 2009
- 9.00 Chairman's Remarks  
*Dr. Vikram M. Pattarkine  
Sr. Vice President / Chief Technology Officer  
OriginOil*
- 9.05 **How Can Algae Projects Qualify for Carbon Credits?**
- Source of reduction and owner of carbon credits
  - Establishing methodology for CDM or voluntary carbon market
- Edwin Dalenoord  
Ecofys Netherlands BV*
- 9.35 **Best Practices In Algal Oil Biomass Processing**
- Mechanical cell lysis and solvent extraction of oil from unicellular biomass
  - Key advantages and disadvantages of oil quality, extraction efficiencies and energy requirements
  - Alternative extraction methods
  - Shelf life and storage to prevent deterioration of oil
- Dr. Janice Paslawski  
Technology Development and Project Engineer  
POS Pilot Plant Corp.*
- 10.05 Discussion followed by Refreshments
- 10.35 **Roundtable: Design & Economics of Open Ponds vs. Closed Photobioreactor / Hybrid System**
- Managing contamination

- Key production issues and solutions
- Oil production and energy costs related to algae production in reactors and open ponds

Panelists include:

Marc Van Aken, CEO

**SBAE Industries**

Prof. Mario R. Tredici, Agrarian Biotechnology Department

**University of Florence**

**(Università degli Studi di Firenze)**

Dr. Amha Belay

Sr. Vice President / Chief Technology Officer

**Earthrise Nutritionals LLC**

#### 11.15 **Roundtable: Technological Advancements**

- Algae productivity and photosynthetic efficiency
- How to achieve target production cost
- Innovations & breakthroughs in algal harvesting, oil extraction & processing

Panelists include:

Prof. Dr. Rene Wijffels, Head Bioprocess Engineering

**Wageningen University & Research Centre**

Prof. Mario R. Tredici, Agrarian Biotechnology Department

**University of Florence**

**(Università degli Studi di Firenze)**

12.00 Final Discussion followed by Lunch

13.00 End of Conference

Optional

#### **Site Visit to Algae Production & Harvesting facility**

Fee: EUR100/person

13:30 Departure from hotel

15:30 Arrival at Production & Harvesting facility of Ingrepro B.V in Borculo (Gelderland)

15:35 Tour of the facility

16:30 Return to hotel (en-route stop at train station to Amsterdam airport)

18:30 Arrive at hotel

Limited capacity; open to conference delegates only, based on first-come-first serve basis.

## **CMT's Algae World 2009: Towards Commercialization; Linking up Algae Value Chain**

CMT's 2nd **Algae World 2009** brings together the global algae community to access **key strategies** adopted by successful algae businesses in integrating upcoming trends and practices into your business value chains.

At **Algae World 2009**, algae sector's top experts and decision makers will share their frank insights on overcoming technical, organizational and financial challenges, as well as triumphing over the uncertain years ahead.

The challenges of commercialising algae production and its applications in energy production or other product applications are numerous. Fundamental technological questions are

- Where to grow the algae?
- Which strains to choose?
- How to boost productivity?
- How to design the most cost effective production system?

*"With algae, the downstream oil to fuel conversion processes are coming along nicely - the challenges lie in the growth, harvesting and oil extraction"*  
- Al Darzins, US National Renewable Energy Laboratory (extracted from Dec '08, Chemistry World)

**Algae World 2009** is a must attend forum, dedicated to mapping the entire algae value chain, from production to application, and will give your Algae business the edge to stay ahead in this very competitive environment!

## **Algae World 2009 dives into critical sessions to ensure the success of your ventures:**

- **Managing an efficient value chain - multiple output & revenues**
- **Full utilization of algae's potential - markets and technology of converting to Biodiesel, Bioethanol, Carbon Sequestration, Water Remediation, Biogas, Biochemicals, Animal Feed**
- **Capabilities and limitations of Open System vs. Closed System / Hybrid**
- **Algae Productivity and Photosynthetic Efficiency**
- **How to achieve target production cost?**
- **Innovations & breakthroughs in algal harvesting**
- **Best practices in algal biomass processing**
- **Impact of difficult credit markets on clean-tech private equity investment**

Register NOW with your team to receive attractive discounts. Visit [www.futureenergyevents.com/algae](http://www.futureenergyevents.com/algae) for programs updates, Algae news and other value added downloads.

### **Testimonials from Algae World 2008 in Singapore**

**"Real experiences to prepare for the low cost revolution and large scale roll out of Algae"**  
~ Managing Director, MDB Biodiesel Ltd (Australia)

**"Very informative, inspiring, insightful, interactive and truly rewarding. A Quality forum and rich experience for all participants"** ~ Vice President, PTT Public Co. Ltd. (Thailand)

**"A great opportunity for face-to-face interaction with key players"**  
~ Senior Research Officer, Rhodes University (South Africa)

**"Algae World provided a great overview of the field and current developments"**  
~ Head of Culture Collection of Algae and Protozoa, The Scottish Association for Marine Science (UK)



Rotterdam, The Netherlands  
27-28 April

PRIORITAIRE	
En cas de non remise prière de retourner à <b>Postfach 1100 36243 Niederaula ALLEMAGNE</b>	<b>Deutsche Post</b> <b>Port payé</b> 60544 Frankfurt Allemagne Luftpost / Prioritaire

### AIR MAIL

Please fax us the completed registration form

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## STEVIAWORLD

SHANGHAI, CHINA | May 14-15

*Venturing into the Global Stevia Sweetener Industry – Immense Opportunities for Growers, Refiners, Traders of Leaves & Extracts*

## 3rd Bioplastics MARKETS

GUANGZHOU, CHINA | May 21-22

*“Working towards a sustainable solution with material innovations”*

## JATROPHA WORLD AMERICAS

MIAMI, USA | June 10-11

*“Strategies to Accelerate the Commercialization of Jatropha Business”*

### Algae World 2009

*You will network with*

- Algae Technology Developers • Cleantech Entrepreneurs
- Algal Science Research Institutes • Aquaculturists
- Financiers and Investors (Limited partners & investment banks, Venture capitalists, angels, corporate and institutional investors, Hedge fund and private equity managers, Project financiers and asset manager)
- Oil Companies/Fuel Distributors
- Industrial Carbon Generators - Mining Companies, Power Plant Operators, Cement Plant Operators
- End-users – Biofuels Producers, Animal Feed Companies, Fish, Poultry, Pig and Cattle Farming, Nutraceutical Companies, Fertilizer Manufacturers, Aircraft/Engine Manufacturers
- Equipment Suppliers – Centrifuge Manufacturers, Oil Extraction Machineries, Waste Water Processing Equipments
- Civil Engineering Companies

### HOW TO REGISTER

**By Internet:** [www.cmtevents.com](http://www.cmtevents.com)  
**By Email:** [emily@cmtevents.com](mailto:emily@cmtevents.com)  
**By Fax:** 65-6345 5928  
**By Tel:** 65-6345 7322

### FEES

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

Conference Fee for 1 Person	Conference Fee for 3 or more* (from the same company)
<b>EUR1,195</b>	<b>EUR995</b> <b>(MIN SAVINGS OF EUR600)</b>
Site Visit Fee: EUR100/person (optional)	

\* 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.

### PAYMENT

**By Telegraphic Transfer**

**Account Name:** Centre for Management Technology  
**A/C No:** 251 - 004487 - 179  
**Bank:** HSBC Singapore  
**Branch:** Marine Parade, Singapore  
**Swift Code:** HSBC SGSG

TT must include additional EUR18 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

### CONFERENCE VENUE

CMT has arranged special discounted room rate at Eur149.50 / Eur164 nett (Single/Twin) per room per night including breakfast (subject to room and rate availability) for delegates at **Van der Valk Hotel Ridderkerk**. Please reserve your room with the hotel directly quoting 'GF6467' and providing full credit card number and expiry date to:

Sales Department, Marketing & Sales Personnel  
**Van der Valk Hotel Ridderkerk**  
Krommeweg 1, 2988 CB Ridderkerk  
Rotterdam, Netherlands  
Phone: 0031-180646910  
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Cut-off date: 30-03-2009