



Algae Technology EUROPE

**Investor Day (December 5):
Investors meet Developers**

**3rd Practical Short Course (December 6 & 7): Algae Harvesting
and Downstream Processing for Value Added Applications
NH Hotel Gent Belfort, Ghent, Belgium - 5, 6 & 7 December 2012**

This program can be
combined with
**The 12th Aquaculture
Feed Short Course**
due in Ghent, Belgium
on
3-4 December 2012

Sponsors



SHORT COURSE ORGANIZERS

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Dr. Ignace Debruyne

ID&A Ignace Debruyne & Associates
T: +32-(0) 51 31 12 74; F: +32 (-) 476 48 07 98
E-Mail: oilprocess@scarlet.be
Web: <http://www.smartshortcourses.com>

Dr. S. Sefa Koseoglu

Filtration and Membrane World LLC
T: 1-979-764-8360 ; F: 1-979-694-7031
E-Mail: sefa@koseoglu.com
Web: <http://www.membraneworld.com>

Dr. Koenraad Vanhoutte

Navicula BVBA
B-9080 Lochristi (Belgium)
Tel +32 485 61 14 06
Email: koen.vanhoutte@usa.net

SPEAKERS

Dr. John R. Benemann, Chief Executive Officer, MicroBio Engineering, Inc. U.S.A.

Mr. Pieter Boelens, EU Market Manager, Evodos, the Netherlands

Dr. Sammy Boussiba, Head of Microalgal Biotechnology, Ben-Gurion University of the Negev, Israel

Dr. Victor Chepurnov, Algae Technology Consultant, Belgium

Mr. Doug DiLillo, Industrial BioTechnology Lead, BioBased Fuels & Chemicals Markets, Pall Energy Group, U.S.A.

Dr. Rick Green, Vice President Technology, POS Pilot Plant, Canada

Mr. Robert Henrikson, President, Algae Alliance / Ronore Enterprises, U.S.A.

Mr. Andrew Jackson, Technical Director, IFFO - International Fishmeal and Fish Oil Organisation, U.K.

Dr. Elizabeth Lewis, Scientific & Regulatory Consultant, Intertek Cantox, Canada

Dr. Jian Li, Microalgal Engineer and Scientist, Catholic University Leuven, Belgium

Mr. Diego López Barreiro, Researcher, Department of Biosystems Engineering, Ghent University, Belgium

Mr. Richard D. Ozer, Product Sales Manager, Crown Iron Works, U.S.A.

Mr. Mark Pages, Business Development Manager, CleanAlgae SL, Spain / the Netherlands

Mr. Alexander Piek, Project Manager, GEA Mechanical Equipment, GEA Westfalia Separator Process, Germany

Dr. Peter Ripplinger, Managing Director, Subitec, Germany

Mr. Jos Schipper, Director, Hortimare, the Netherlands

Dr. Wim Soetaert, Professor, Centre of Expertise for Industrial Biotechnology and Biocatalysis, Ghent University / Bio Base Europe, Belgium

Mr. Philippe Tramoy, Managing Partner, CBDMT® - Market & Business Intelligence, France

Mr. Maarten Van Daele, Partner, Minerva Lawyers, Belgium

Mr. Dries Vandamme, Microbial and Molecular Systems, KU Leuven Kortrijk, Belgium

Mr. Glenn Van den Broeck, Business Developer Professional Banking, ING, Belgium

Dr. Koenraad Vanhoutte, Algae Technology Consultant and Entrepreneur, Navicula, Belgium

Dr. René Wijffels, Professor, AlgaePARC, Wageningen University Research, Netherlands

Program Venue

NH Hotel Gent Belfort, Ghent Belgium
Hoogpoort 63. 9000 Ghent (Belgium)
Tel. +32 9 2333331
Reservations: +34 91 398 46 61
Email: nhgentbelfort@nh-hotels.com
Email: info@hotelbedford.be



INVESTORS MEET DEVELOPERS - Day 1: Wednesday, December 5, 2012

- 8:45 Welcome - Opening remarks
- 9:00 **Algae as New Resource for Novel Products - Exploiting Algae Diversity**,
Dr. Koenraad Vanhoutte, Belgium
- 9:30 **Global Algae Market Review and Future Prospects**, Mr. Philippe Tramoy, CBDM.T, France
- 10:00 **Key Entrepreneurial Considerations in the Successful Development of an Algal Technology Company**, Mr. Mark Pages, CleanAlgae, Spain / the Netherlands
- 10:30 Coffee/Tea Break and Networking – Algae micrographic movies provided by Dr. Victor Chepurnov
- 11:00 **Algae Industry Breakthroughs**, Mr. Robert Henrikson, Algae Alliance / Ronore Enterprises, U.S.A.
- 11:45 **Growing Demand for Long-Chain Omega-3 Fatty Acids**, Dr. Andrew Jackson, IFFO International Fish Meal and Fish Oil Organization, U.K.
- 12:30 Lunch and Networking
- 14:00 **Speeding Bringing to Market of Novel Algae and Algae Application Seaweed and Macro-Algae applications**
- **'Pests' and 'Weeds' in Microalgae Culture**, Dr. Victor Chepurnov, Belgium
 - **Seaweed Selection, Breeding and Quality Plant Material, a Pre-Requisite for Economical Crop Production**, Mr. Jos Schipper, Hortimare, the Netherlands
 - **Microalgal Biotechnology - Green Solution to Global Problems**, Dr. Sammy Boussiba, Ben-Gurion University of the Negev, Israel
- 14:45 **Key Elements of a Strong IP Strategy: Legal & Contract Negotiations**, Mr. Maarten Van Daele, Minerva, Belgium
- 15:15 **Costs and Time Line Expectations Related to Filing Novel Foods Applications**,
Dr. Elizabeth Lewis, Intertek Cantox, Belgium
- 15:30 Coffee/Tea Break and Networking - - Algae micrographic movies provided by Dr. Victor Chepurnov
- 16:00 **Round Table Discussion: Venture Capital Opportunities for the New Start ups and More Mature Established Companies**
Mr. Robert Henrikson, Algae Alliance / Ronore Enterprises, U.S.A.
Mr Glenn Van den Broeck, ING, Belgium
Mr. Maarten Van Daele, Minerva Advocaten, Belgium
- 17:30 Networking Reception and Networking - (for all participants, incl. Technical program only)
- 19:00 End of the Program

TECHNICAL PROGRAM: ALGAE HARVESTING AND DOWNSTREAM PROCESSING FOR VALUE ADDED APPLICATIONS - December 6 - 7, 2012

Day 1: Thursday, December 6, 2012

- 8:45 Welcome - Opening remarks
- ALGAE 101**
- 9:00 **Macro and Micro Algae, a Review of Diversity and Potential**, Dr Koenraad Vanhoutte, Navicula, Belgium
- 9:30 **Market Review of Algae Based Functional Foods Ingredients and Medicines: Antioxidants, Proteins and Polysaccharides**, Mr. Robert Henrikson, Algae Alliance / Ronore Enterprises, U.S.A
- 10:00 **Overview of Algae Growing Processes and Core Ingredients Needed**, Dr. René Wijffels, AlgaePARC, Wageningen University Research, Netherlands
- 10:30 Coffee/Tea Break and Networking - Algae micrographic movies provided by Dr. Victor Chepurnov
- 11:00 **Breeding Microalgae - Cross the Best with the Best, Select the Best, and Hope for the Best** Dr. Victor Chepurnov, Belgium
- 11:30 **Use of Algae in Waste Water Treatment**, Dr. John R. Benemann, MicroBio Engineering, Inc. U.S.A.
- 12:00 **Regulatory Issues Involved with Bringing Algae Based Products to the Market**,
Dr. Elizabeth Lewis, Cantox-Intertek, U.K.
- 12:30 Lunch and Networking
- Technology: GROWING FOR CELL HARVESTING**
- 13:30 **Theory and Practice of Scaling Up Microalgae Production from Petri Dish to Industrial Reactors**, Dr. Jian Li, KU Leuven, Belgium
- 14:00 **MicroAlgae for Food & Fuel**, Dr. René Wijffels, AlgaePARC, Wageningen University Research, the Netherlands
- 14:30 **Commercial Scale Fermentation and Critical Issues**, Dr. Peter Ripplinger, Subitec, Germany
- 15:00 **Species Research and Microscopic Identification**, Mr. Karel Du Gardeyn, Olympus Microscopy, Belgium
- 15:30 Coffee/Tea Break and Networking - Algae micrographic movies provided by Dr. Victor Chepurnov
- 16:00 **Nutrient Removal for Waste Water Treatment**, Dr. John R. Benemann, MicroBio Engineering, Inc. U.S.A.
- 16:30 **Open Algae Production Systems - from Growing to Harvesting**, Dr. Koenraad Vanhoutte, Navicula, Belgium

- 17:00 **Sub-critical Water for Converting Algae into High-Value products**, Mr. Diego López Barreiro, BIOSYS, Ghent University, Belgium
- 17:30 **Commercial Production of Astaxanthin from the Green Alga Haematococcus**, Dr. Sammy Boussiba, Ben Gurion University of the Negev, Israel
- 18:00 End of Day 1

Day 2: Friday, December 7, 2012

Technology: DOWNSTREAM PROCESSING

- 9:00 **Overview of Challenges in Downstream Processing and Options for Solutions**, Dr. Rick Green, POS Pilot Plant, Canada
- 9:30 **Flocculation Based Harvesting Methods**, Mr. Dries Vandamme, KU Leuven Kortrijk, Belgium
- 10:00 **Biorefinery for Value-Added Products**, Mr. Andreas Weber, AlgaeBiotech, Spain/Netherlands
- 10:30 Coffee/Tea Break and Networking - Algae micrographic movies provided by Dr. Victor Chepurinov
- 11:00 **Microalgae Downstream Process Using Integrated Direct Drive Separator Centrifuges: Production Cost Optimization**, Mr. Alexander Piek, GEA Westfalia Separator Process, Germany
- 11:30 **Low Cost Algae Harvesting at Industrial Scale - Spiral Plate Water Removal Technologies**, Mr. Pieter Boelens, Evodos, the Netherlands
- 12:00 **Algae Oil Extraction Technology**, Mr. Richard Ozer, Crown Iron Works, U.S.A.
- 12:30 Lunch and Networking
- 13:30 **Membrane Technology Applications in Algae Processing**, Mr. Doug DiLillo, Pall Energy Group, U.S.A.
- 14:00 **Agronomy of Seaweed Cultivation and Macro-Algae applications: from Breeding towards Post-Harvest Processing**, Mr. Job Schipper, Hortimare, the Netherlands
- 14:30 **Domestic Applications of Assemblies of Photosynthetic and Heterotrophic Microorganisms: from Sewage to Bio-Pool**, Dr Koenraad Vanhoutte, Navicula, Belgium
- 15:00 **Sustainable Bioprocessing of Algae Biomass at the Bio Base Europe Pilot Plant**, Dr. Wim Soetaert, Ghent University / Bio Base Europe, Belgium
- 15:30 **Bio-Base Europe site visit**
Travel by bus to Bio Base Europe
Welcome coffee & introduction
Guided tour of Green, White & Red Pilot Halls and Lab Facilities
- 18:00 End of Technical Program

Algae Technology Platform Europe

First Name			
Last Name/Family Name			
Job Title			
Company			
Address			
City	State/Province	Zip Code	
Country			
Business Phone			Fax Number
E-mail			

REGISTRATION INFORMATION

Registration Fees	On or Before Nov, 11 2012	After Nov. 11, 2012
Investors Meet Developers (December 5 only)	695 EUR	845 EUR
Algae Harvesting and Downstream Processing (December 6 & 7 only)	845 EUR	995 EUR
Full three day program (April 11-13)	1,115 EUR	1,345 EUR
Academic Rate (Day 1 / Day 1 & 2 / Full 3 day-program)	395 / 595 / 845 EUR	
Group registration rates: 10 % off for three or more; 20% off for five or more; Student rate on demand		

Register online, or download registration form, fill the form and send by fax (+ 32 51 31 56 751) or Algae Email registration

<http://www.smartshortcourses.com/algae3/registration.html>

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IBAN account number BE33 7380 1743 3346
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