EUROPEAN ALGAE BIOMASS
20TH-21ST APRIL 2016/ BERLIN, GERMANY

ACCELERATING THE COMMERCIALISATION OF THE ALGAL BIOMASS THROUGH APPLIED BUSINESS STRATEGY

CO-HOST & LEAD SPONSOR

KEY TOPICS

- CULTURE MANAGEMENT & CROP PROTECTION
- CULTIVATION SYSTEMS: THE LIMITS OF HETEROTROPHY VS AUTOTROPHY
- OPTIMISATION OF THE BIOMASS EXTRACTION – HARVESTING STILL A BIG ISSUE
- ALGAE RESEARCH, DEVELOPMENT, DEMONSTRATION & DEPLOYMENT PROJECTS
- EUROPEAN REGULATION REGARDING MICROALGAE ADDRESSED TO FEED, FOOD AND NUTRACEUTICALS
- MOVING FROM R&D – HOW TO ATTRACT INVESTMENTS NECESSARY TO UPSCALE
- WHAT ARE THE MOST SUCCESSFUL ALGAE PRODUCTS IN EUROPE AND WORLDWIDE?
- MICROALGAE AS A SUSTAINABLE WAY TO TREAT WASTEWATER

EXCLUSIVE DUAL SITE VISIT ON 19 & 21ST APRIL 2016 - BERLIN-WILDAU ALGAE FACILITY & EUREF CAMPUS

DURING THE AFTERNOON OF 19TH APRIL 2016 A LIMITED NUMBER OF CONFERENCE ATTENDEES WILL RECEIVE A UNIQUE OPPORTUNITY TO VISIT THE ALGAE FACILITY AT THE TECHNICAL UNIVERSITY OF APPLIED SCIENCES IN WILDAU AND DURING THE AFTERNOON OF 21ST APRIL (CONFERENCE DAY 2) THE EUREF CAMPUS SITE VISIT WILL TAKE PLACE BEFORE LUNCH. THERE IS NO EXTRA CHARGE TO ATTEND THE SITE VISITS, BUT SPACES ARE LIMITED AND ALLOCATED ON A FIRST COME FIRST SERVED BASIS. PLEASE REGISTER YOUR ATTENDANCE FOR THE SITE VISITS WHEN BOOKING FOR THE CONFERENCE.

Sponsorship & Exhibition Opportunities:
Maureen Ignacio
+44 (0) 20 3141 0636 or mignacio@acieu.net

More Information & Registration:
Dimitri Pavlyk
+44 (0) 20 3141 0627 or dpavlyk@acieu.net
ACI’s 6th annual European Algae Biomass Conference will once again bring together senior executives from industry and academia to discuss the latest commercial and technical developments, challenges and research breakthroughs throughout the entire algae value chain.

The conference will have a heavy focus on case study examples of latest technologies in operation in the global algae industry and also includes an exclusive dual site visit tour on 19th & 21st of April 2016. Join us to discuss the technical challenges faced when optimising the cultivation of algae, study the current and future commercial markets for algae products and the challenges faced on the road to commercialisation including the views from a number of different end markets.

**Key Topics:**

- Culture Management & Crop Protection
- Cultivation Systems: The Limits of Heterotrophy vs Autotrophy
- Optimisation of the Biomass Extraction – Harvesting Still a Big Issue
- Algae Research, Development, Demonstration & Deployment Projects
- European Regulation Regarding Microalgae Addressed to Feed, Food and Nutraceuticals
- Moving from R&D - How to Attract Investments Necessary to Upscale
- What Are the Most Successful Algae Products in Europe and Worldwide?
- Microalgae as a sustainable way to treat wastewater

**Why You Cannot Miss This Event?**

The two day conference will comprise of a series of informative formal presentations from senior industry executives and experts, interactive panel discussions and excellent networking opportunities allowing you to maximise the productivity of your time at the event.

**Who Will You Meet at This Event?**

Algae cultivation plant owners and operators, leading algae/biomass research institutes, technology providers for cultivation, harvesting, drying, oil extraction and processing, plant engineers and constructors, algae end market users, biofuel producers and green energy & biotech investors.

**Host City of Berlin**

This year’s event is going to Berlin, Germany, offering our audience the opportunity to engage with not only international participants, but also local attendees from a rapidly growing market which offers enormous opportunity for business development.

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**Exclusive Technical University of Applied Sciences Wildau Algae Facility and EUREF Campus Dual Site Visit**

During the afternoon of 19th April 2016 a limited number of conference attendees will receive a unique opportunity to visit the Algae Facility at the Technical University of Applied Sciences in Wildau and during the afternoon of 21st April (Conference Day 2) the EUREF Campus site visit will take place before lunch.

There is no extra charge to attend the site visits, but spaces are limited and allocated on a first come first served basis. Please register your attendance for the site visits when booking for the conference.

For more information or to register your attendance please contact Dimitrii Pavlyk on +44(0)203 141 0627 or dpavlyk@acieu.net

**Agenda Committee Members:**

- Peter van den Dorpel, CEO, AlgaeLink NV
- Syed Isa Syed Alwi, Managing Director, Algaetech Group of Companies
- Olivier Lépine, Management Team, Algosource Technologies/Alpha Biotech
- John R Benemann, CEO, Microbio Engineering
- Sammy Boussiba, Professor Microalgal Biotechnology Laboratory, Ben-Gurion University of the Negev
- Jorge Bauzá, I+D Director, Buggypower
- Kyriakos Maniatis, Principle Administrator, DG ENER / EU Commission
- Cees Sagt, Principal Scientist Strain Development, DSM Biotechnology Centre
- Mario Tredici, Vice President & Professor, European Algae Biomass Association & University of Firenze

**Opportunities to Meet Your Target Audience:**

For information on available sponsorship and commercial opportunities, please contact: Maureen Ignacio on +44(0)203 141 0636 or mignacio@acieu.net

**Registration is Simple:**

If you would like to register for this event or wish to find out more information, please contact Dimitrii Pavlyk using any of the following methods:

- +44 (0)203 141 0627
- dpavlyk@acieu.net
- http://www.acius.net

Postal Address:

ACI Europe, 5/13 Great Suffolk Street, London, SE1 0NS
SITE VISIT & PRE-EVENT DRINKS RECEPTION
Tuesday 19th April 2016

ARRIVE TO EUREF CAMPUS & PRE-EVENT NETWORKING DRINKS SPONSORED BY:

DAY 1
Wednesday 20th April 2016

REGISTRATION & COFFEE
08:00

CHAIRMAN’S OPENING ADDRESS
09:00
Peter van den Dorpel
CEO
AlgaeLink N.V.

MEET & GREET
09:10

OPEN DISCUSSION
10:00
Culture Management & Crop Protection
- Finding the right balance of CO2 supply, water and the potential of nutrient
- Actual situation and desired scenario: authorised strains, parameters to measure, ranges to meet and quality standards
- What is importance of minimising the impact of contamination while going towards large scale?
- How much the system clean up time affects the productivity?

- Limits of phototrophic mass cultivation – light
- Laboratory evaluation of thermotolerance
- Utilization of off-gas from ethanol fermentation
- Outdoor production in 4.3 m³ pilot-scale

MORNING REFRESHMENTS
11:00

CONFERENCE SESSION
11:30
Cultivation Systems Productivity: The Limits of Heterotrophy vs Autotrophy and the role of Mixotrophy
- Status and Trends of photoautotrophic algae cultivation from the viewpoint of a glass manufacturer
- Current photoautotrophic algae cultivation technologies
- Limits and trends in photoautotrophic algae cultivation

LUNCH
12:00

Panel Q&A
12:30

Production metrics with a variety of autotrophic and mixotrophic algae systems
Peter Lammers
Research Professor, Technical Director, Algal Bioenergy Program
Arizona State University

AFTERNOON REFRESHMENTS
15:00

Panel Q&A
15:30

Lipids isolation from wet algal biomass and its Transformation in Renewable Diesel and Fatty Alcohols
Silvia Fluch
Managing Director, Partner, COO
Ecoduna Production-GmbH

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CONFERENCE SESSION
Algae Research, Development, Demonstration & Deployment Projects

16:15

Online-monitoring of decentralized PBR-plants (TH Wildau) & Case-Study Biogas-PBR-loop: 2 years of successful field-testing slug-wave tubular PBRs
- Web based control and process documentation of on site photobioreactors by a single board computer (Raspberry Pi)
- Performance and productivity of a bubble brush photobioreactor on a German biogas-farm

Franz Wildenauer
Professor
Technical University of Applied Sciences Wildau

Harvesting energy (CO2) from cement kiln flue gas using microalgae: valuable biomass production in Sweden
- Strategy of HeidelbergCement in CCS and CCU to mitigate climate change
- ALGOLAND, a consortium from academia and industry to investigate algal solutions in the Baltic Sea
- Results of a 2 year pilot project installed at the Cementa AB plant in Degerhamn, South Sweden
- Roadmap to commercial applications of valuable biomass of microalgae produced using flue gas from cement industry

Jan Theulen
Director Alternative Resources
Heidelberg Cement

Catherine Legrand
Professor Marine Ecology
Linnaeus University, Sweden

Optimization of tubular PBR design for lowest biomass costs
- GemTube PBRs are scalable tubular systems with robust process control and low energy consumption
- Optimization of PBR design aims at lowest production costs per unit of product
- Major cost factors considered are depreciation on the investments and land costs
- Optimal design for lowest biomass costs differ from designs aiming at highest areal or volumetric productivity

17:15

Industrial-Scale Extraction of Algae with Supercritical CO2
- Supercritical fluid extraction, a tool to produce high quality products
- Exemplary high pressure extraction of astaxanthin from microalgae
- Transfer of laboratory-scale results to industrial implementation

Eugène J.A. Roebroeck
CEO
LGem

Volkmar Steinhagen
Product Manager Plants
Uhde High Pressure Technologies

17:35

Panel Q&A

18:05

CLOSE OF DAY ONE & NETWORKING DRINKS

SPONSORED BY:

Panel Q&A

DAY 2
Thursday 21st April 2016

08:30
REGISTRATION & COFFEE

09:00
CHAIRMAN’S OPENING REMARKS

Peter van den Dorpel
CEO
AlgaeLink N.V.

09:10
PANEL DISCUSSION
Moving from R&D - How to Attract Investments Necessary to Upscale from R&D and Pilot Plants to Large Scale Production Facilities
- Current situation and projections about main driving markets for microalgae and microalgae byproducts. Main requirements to meet and main bottlenecks to overcome (technical, regulatory, habits)
- Financing with focus on large scale plants, with high capital and land demand
- Investment types: Private project financing, government programs, subsidies
- Identify the supply chain of products, include the prices in order to go for the value chain
- Values products per regional market – omega 3 in Israel, biofuels in China
- Microalgae biomass from European to Asian and American markets. Benefits, handicaps and opportunities

Eugène J.A. Roebroeck
CEO
LGem

Volkmar Steinhagen
Product Manager Plants
Uhde High Pressure Technologies

Panelists:
- Eugène J.A. Roebroeck
- Volkmar Steinhagen
- Peter van den Dorpel
- Jan Theulen
- Catherine Legrand
- Franz Wildenauer

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Closing the gap - How to provide appropriate commercial quantities of high quality Microalgae-Biomass to the industry

- Requirements of an marketplace for Microalgae Biomass
- definition of standards for Microalgae Biomass
- ensuring reproducible production processes
- GBEX.de - the Global Biomass Exchange

Making microalgae work - optimisation and improvement strategies to harness the commercial potential of microalgal strains

- Algal biodiversity is a valuable natural resource that is underexploited
- Optimisation strategies include non-GMO and GMO approaches
- Synthetic biology approaches are accessible in order to convert key microalgal strains into green biofactories for the production of high and very high value chemicals
- Microalgal USPs must be identified and capitalised upon

Floating Patented PBR's; Platform for low-cost and resource efficient production of large scale algae biomass

- CAPEX
- OPEX
- Industrial Scalability
- Photos Factory Asia

From R&D to Production - Chances & Challenges

- Concepts for up-and downstream processes
- Technological and financial hurdles
- Complete value chains & sustainability
- Examples for experiences, results and products

Requirements of an marketplace for Microalgae Biomass

- definition of standards for Microalgae Biomass
- ensuring reproducible production processes

GBEX.de - the Global Biomass Exchange

Algal biodiversity is a valuable natural resource that is underexploited

Optimisation strategies include non-GMO and GMO approaches

Synthetic biology approaches are accessible in order to convert key microalgal strains into green biofactories for the production of high and very high value chemicals

Microalgal USPs must be identified and capitalised upon

John Benemann
CEO
MicroBio Engineering, Inc.

Benefits and opportunities of microalgae wastewater treatment systems

Joan Garcia
Head of the Department Hydraulic, Maritime and Env. Engineering
Polytechnic University of Catalonia

Cyanobacterial bioremediation potential for industrial waste waters

Kirsten Heimann
Associate Professor-Project Leader
Microalgae Carbon Capture
James Cook University

Panel Q&A

EUREF Campus
Site Visit

LUNCH
CONFERENCE SESSION
What Are the Most Successful Algae Products in Europe and Worldwide? Products and Markets, from High Value Specialties to Commodities (Fuels, Feeds)
• High Value Algae Production: Challenges in commercialization
• Bioenergy from microalgae: Biodiesel, hydrogen and ethanol production
• Microalgae biorefinery. Myth or reality? Actual development on it.
• Functional products: methodology and new tests for nutraceuticals, cosmetics, and pharma

14:20
Presentation Title TBA

14:40
High Value Algae Production: Challenges in commercialization
• Microalgae as starting point for several valuable products
• Strengths, Weaknesses, Opportunities and Threats (SWOT) of main microalgae markets
• Main requirements of high revenue markets
• Main highlights for accessing to the market

15:00
Presentation Title TBA

15:20
Brown algae as functional food/feed: findings from livestock research

15:40
Panel Q&A

16:10
CHAIRMAN’S CLOSING REMARKS

16:15
END OF CONFERENCE & NETWORKING REFRESHMENTS
Registration Is Simple

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Postal Address:
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Documentation Packet Available

You can purchase the European Algae Biomass 2016 papers at just £395 (+£25 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting.

This important manual will be a source of invaluable reference for the future. A copy will be on its way to you after the meeting.

Terms & Conditions

Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call Dimitri on +44 (0)203 141 0627 for more information.

Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone the conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate.

About ACI

ACI, a UK owned company, have been running successful conferences for the last 15 years in the USA. Headquartered in Chicago with offices all around the States, they run forums in varied fields and are market leaders in healthcare business conferences. Opening their European head office at the end of 2005, they have expanded rapidly and are launching a series of events covering the maritime, energy, oil and gas industries.

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