

3RD ALGAE WORLD EUROPE

16-17 May 2011 / MADRID, SPAIN
Hotel Melia Madrid Princessa

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Simultaneous Interpretation English ↔ Spanish

DAY 1 - 16 May 2011, Monday

- 08:00 Registration and Coffee
- 09:00 Introduction by CMT
- 09:05 Welcome Speech by Corporate Sponsor
Augusto Rodriguez-Villa, President, Algaenergy SA
- 09:10 Opening & Keynote Speech
Juan Tomas Hernani, Secretary General for Innovation Ministry of Science and Innovation, Spain
- 09:30 Chairman's Remarks
Dr. John R. Benemann, CEO, MicroBio Engineering, Inc.

Products & Applications from Microalgae, Macroalgae and Cyanobacteria

- 09:35 **Potential of Algae and other Marine Organisms for Human/Animal Nutrition and Health**
- Current commercial uses of microalgae in human/animal nutrition and health
 - Key technical reasons why these technologies have proven successful
 - Potential for development of new microalgae-based nutritional applications
 - Challenges we face in bringing these technologies to fruition
- Dr. Bill Barclay, Chief Intellectual Property Officer Martek, a DSM Company*
- 10:05 **Cyanobacteria for the Production of Biomass and Biofuels**
Dr. Miguel G. Guerrero, Head of the Microalgal Biotechnology group Instituto de Bioquímica Vegetal y Fotosíntesis (Institute of Plant Biochemistry and Photosynthesis)
- 10:35 Discussion followed by Refreshments
- 11:05 **Mass Production of Macroalgae, Bioethanol and Value Added Ingredients**
- Examine current seaweed cultivation technologies available
 - Economic aspects of using brown seaweeds for bio-ethanol production
 - Feasibility of biofuel production from seaweed
 - Direction that European seaweed aquaculture will have to advance to make it a successful and competitive industry
- Dr. Stefan Kraan, Scientific Director and co-founder Ocean Harvest Technology Ltd.*

Algae Biofuel: Development & Outlook

- 11:35 **Algae Fuel: Can it Contribute to the Energy Challenges Confronting Europe?**
Dr. Mario R. Tredici, President, EABA, Professor, Agrarian Biotechnology Department Università degli Studi di Firenze (University of Florence)

- 12:05 **Direct Ethanol Production from Algae**
Dirk Radzinski, CEO, Algenol Switzerland GmbH
- 12:35 Discussion followed by Networking Lunch
- 14:00 Chairman's Remarks
Dr. Mario R. Tredici, Professor, Agrarian Biotechnology Department Università degli Studi di Firenze (University of Florence)
- 14:05 **Airline's Perspective on Utilising Bio-Jet Fuel**
Jaime García Blázquez, Director, Corporate Environmental Affairs Iberia Airlines
- 14:25 **Techno-Economics of Algae Biofuels Production**
- Life cycle analysis
- Dr. John R. Benemann, CEO, MicroBio Engineering, Inc.*
- 14:55 **Functional Properties of Ulvan, a Polysaccharide from Green Seaweed**
- Zero waste, sustainable refinery to process macroalgae into value added components for: Animal feed, Aquaculture feed, Vegetal nutrition, Plants nutrition (elicitor and fertilizers) and Energy
- Hervé Balusson, President, CEO, SA Olmix*
- 15:25 **Algae-to-Energy Systems: Concept, Plans, and Demonstration of Sustainable Renewable Energy Production**
- Definition of the system boundaries
 - Mass balance analysis and LCA of different algae-to-energy systems
 - Comparative assessment of biodiesel/biogas/syngas as process technologies
- Prof Dr. Ashton Keith Cowan, Director, Institute for Environmental Biotechnology, Rhodes University*
- 15:55 Discussion followed by Refreshments
- 16:30 **Next Generation Algae Extraction and Fractionation Technology**
- High yield and low energy input technology to extract oils from wet algal biomass
 - Effective fractionation of algae into valued lipid, protein and carbohydrate fractions.
 - Demonstrated product streams include biodiesel, "hydrotreatable algal oil", HRJ (hydrotreated renewable jet fuel), omega-3 rich lipids, sugars and proteins
- Dr. Brian Goodall, Vice President of Business Development Solution Recovery Services - SRS Energy*

Algae for Environmental Mitigation

- 17:00 **Technical & Economic Feasibility of Wastewater Based Algae Biofuel Production**
Frank Rogalla, Director of Innovation and Technology Aqualia Gestión Integral del Agua S.A.
- 17:30 **Cultivation of Chlorella vulgaris for the Production of Biogas**
- Cultivation in Flat-Panel Airlift photobioreactors using flue gas from power plant
 - Investigate the biogas potential of pre-treated microalgae biomass
- Stephanie Koch, Marine Environmental Scientist, E.ON Hanse AG*

- 18:00 Discussion followed by End of Day One
- 18:15 Networking Reception for Speakers & Delegates

DAY 2 - 17 May 2011, Tuesday

- 09:00 Chairman's Remarks
Dr. Bill Barclay, Chief Intellectual Property Officer Martek, a DSM Company

Algae Production & Processing

- 09:05 **Comparative Analysis of Microalgae Production Costs in Different Culture Systems**
Dr. Emilio Molina Grima, Professor, Dept. Chemical Engineering Universidad de Almería (University of Almería)
- 09:35 **Design and Operation of Photobioreactors for Mass Production of Microalgae**
Dr. Arnaud Muller-Feuga, Chairman, Microphyt
- 10:05 **Optimisation of Photobioreactor (PBR)**
Dr. Bernardo Llamas, R&D Manager, Algaenergy SA
- 10:35 Discussion followed by Refreshments
- 11:15 **Innovative Plastic Materials for Algae Cultivation Systems**
- Properties, trends & developments of plastic materials for bag system, closed pipes, or open ponds
- Dr. Enrique Espi, Bioenergy Consultant, Repsol Technology Center*
- 11:45 **A Kinetic Model for Microalgae Cultures in Open Raceway Ponds**
Stefano Palmery, Researcher, Eni S.p.A
- 12:15 **New Technology Platform for Genetic Engineering of Microalgae to Increase Yield and Productivity**
Dr. Jorge Arenas-Vidal, Director, BioSerentia
- 12:45 Final discussion followed by Networking Lunch
- 14:00 End of Conference

Optional Site Visit to AlgaEnergy PTEM plant (14:15hr-17:30hr)

- 14.15 Gather at Hotel Lobby for bus transfer to AlgaEnergy PTEM Plant
- 15.00 Site Visit (No photography is allowed during the site visit)
- 16.00 Wine & Canape hosted by AlgaEnergy
- 16.30 Departure - Drop off at the Madrid Barajas Airport (all terminals) followed by the hotel
- 17.30 Arrive back in Hotel

Fee: Eur75

Limited capacity; Registration based on first-come-first-serve basis.