



ALGAEUROPE
13-15 DEC 2016 | MADRID | SPAIN

AlgaeEurope 2016 Conference Program

Day 1 - Tuesday December 13th 2016

08:00 – 09:00	Registration
09:00 – 09:40	Conference opening and key note lecture
09:00 – 09:10	Conference opening
09:10 – 09:40	Key note: Macroalgae, opportunities for animal health and global food security, the swine industry as an example <i>Stefan Kraan, Ocean Harvest (Ireland)</i>
09:40 – 11:00	Session 1: Research and industrial applications worldwide: the global experience
09:40 – 10:00	1.1 Title <i>Matt Carr, Executive Director of the Algae Biomass Organization (USA)</i>
10:00 – 10:20	1.2 Modification of traditional raceways for the large-scale, sustainable cultivation of microalgae <i>Carla Kampman, InnoVenton, Nelson Mandela Metropolitan University (South Africa)</i>
10:20 – 10:40	1.3 Engineering of Nannochloropsis for triacylglycerol biosynthesis <i>Xiaonian Ma, Peking University (China)</i>
10:40 – 11:00	1.4 Towards industrial products from microalgae <i>Maria Barbosa, Wageningen University (the Netherlands)</i>
11:00 – 11:30	Coffee break Time to visit the posters and trade show participants



11:30 – 12:50	Session 2: Science innovation potential in Europe
11:30 – 11:50	2.1 Optimisation of microalgae culture in the light changing conditions of solar photobioreactor production <i>Jeremy Pruvost, University of Nantes (France)</i>
11:50 – 12:10	2.2 ALGATECH Centre in Třeboň – R&D in Microalgae Biotechnology <i>Jiří Masojídek, ALGATECH (Czech Republic)</i>
12:10 – 12:30	2.3 New approaches of marine biotechnology through interdisciplinary process development <i>Philipp Schwerna, Institute of Bioprocess Engineering (Germany)</i>
12:30 – 12:50	2.4 Production of biodiesel from wet microalgal biomass. Process options and economic <i>Emilio Molina-Grima, University of Almería (Spain)</i>

12:50 – 14:10	Lunch
---------------	-------

14:10 – 15:30	Session 3: Genetically improved and GMO algae for high value products and commodities
14:10 – 14:30	3.1 Enhancement of Fatty Acids and Carotenoids Production by Classical (Random) Mutagenesis and Genetic Engineering in Microalgae <i>Herminia Rodríguez, University of Seville (Spain)</i>
14:30 – 14:50	3.2 Surf and turf: transferring triterpenoid plant-metabolic pathways to micro-algal hosts and their growth optimisation <i>Andrew Spicer, Algenuity (UK)</i>
14:50 – 15:10	3.3 The algal chloroplast as a low-cost platform for recombinant proteins <i>Saul Purton, University College London (UK)</i>
15:10 – 15:30	3.4 Systems biology study on the molecular basis of lipid production in <i>Phaeodactylum tricornutum</i> <i>Maria Huete-Ortega, University of Sheffield (UK)</i>

15:30 – 16:00	Coffee break Time to visit the posters and trade show participants
---------------	---

16:00 – 18:20	Session 4: Innovative processes for high value products
16:00 – 16:20	4.1 Membrane processes for the microalgae biorefinery: example of polysaccharides upgrading <i>Anthony Massé, GEPEA, University of Nantes (France)</i>
16:20 – 16:40	4.2 Pulsed Electric Field Processing of Microalgae – Benefits and Limitations <i>Wolfgang Frey, Karlsruhe Institute of Technology (Germany)</i>



16:40 – 17:00	<p>4.3 Green selective extraction of fucoxanthin from <i>Phaedolactylum tricornutum</i> employing the Hansen solubility parameters approach</p> <p><i>Andrea del Pilar Sanchez-Camargo, Institute of Food Science Research (CIAL, CSIC-UAM) (Spain)</i></p>
17:00 – 17:20	<p>Coffee break</p> <p>Time to visit the posters and trade show participants</p>
17:20 – 18:20	<p>Session 4 continued</p>
17:20 – 17:40	<p>4.4 Raman microscopy shows the distribution of proteins, starch, lipids and polyphosphate within individual algal cells</p> <p><i>Šárka Moudříková, Charles University (Czech Republic)</i></p>
17:40 – 18:00	<p>4.5 Macroalgae cell culture: An innovative approach to develop sustainable marine active ingredients</p> <p><i>Erwan Le Gélébart, BiotechMarine (France)</i></p>
18:00 – 18:20	<p>4.6 Accelerating the reliable modelling of microalgae growth through model-based design of experiments and a photobioreactor-on-a-chip technology</p> <p><i>Fabrizio Bezzo, University of Padova (Italy)</i></p>
18:00 – 18:15	<p>Closure of conference day 1</p>

Day 2 - Wednesday December 14th 2016

09:00 – 09:40	Opening and key note day 2
09:00 – 09:10	Opening session
09:10 – 09:40	Key note <i>Szilvia Bozsoki</i>
09:40 – 11:00	Session 5: Breakout to commercialization: 'Algae Cluster' and other 'Lighthouse' projects
09:40 – 10:00	5.1 FP 7 All-gas project: 3.6 hectares Demonstration scale under construction <i>Zouhayr Arbib, FCC Aqualia, SA, (Spain)</i>
10:00 – 10:20	5.2 Title to be announced <i>InteSusal</i>
10:20 – 10:40	5.3 Title to be announced - Biofat <i>Natascia Biondi – Diana Fonseca</i>
10:40 – 11:00	5.4 The H2020-project Photofuel: Biocatalytic solar fuels for sustainable mobility in Europe <i>Hilke Heinke, Volkswagen (Germany)</i>
11:00 – 11:30	Coffee break Time to visit the posters and trade show participants
11:30 – 12:50	Session 6: Value chains in commercialization: EU biorefinery and added-value products
11:30 – 11:50	6.1 Sustainable integrated Algae Biorefinery for the production of bioactive compounds for Agriculture aNd Aquaculture (SABANA) <i>Gabriel Acien, University of Almeria, (Spain)</i>
11:50 – 12:10	6.2 Production of specialties for food, aquaculture and non-food applications via multi-product biorefinery of microalgae: Progress of the EU FP7 project MIRACLES <i>Hans Reith, Wageningen University (the Netherlands)</i>
12:10 – 12:30	6.3 Submerged Membrane Based Water Recycling & Harvesting for Microalgae Cultivation <i>Leen Bastiaens, Flemish Institute of Technological Research (VITO) (Belgium)</i>
12:30 – 12:50	6.4 CO2Algaefix: Biofixation of CO2 from industrial flue gases by microalgae and its transformation into added-value products <i>Federico G. Witt, AlgaEnergy S.A. (Spain)</i>
12:50 – 14:10	Lunch

14:10 – 15:30	Session 6 continued Value chains in commercialization: EU biorefinery and added-value products
14:10 – 14:30	6.5 COST Action ES1408: European Network for Algal-Bioproducs <i>Cristina Gonzalez-Fernandez, IMDEA Enegy (Spain)</i>
14:30 – 14:50	6.6 Lipid production by Nannochloropsis oceanica at large scale: energy balance and techno-economic analysis <i>Liliana Rodolfi, University of Florence, (Italy)</i>
14:50 – 15:10	6.7 Sustainable PoLymerS from Algae Sugars and Hydrocarbons (SPLASH): lessons learned <i>Lolke Sijtsma, Wageningen Food & Biobased Research (the Netherlands)</i>
15:10 – 15:30	6.8 Biobased polyurethanes from microalgae <i>Philip Sellars, University of Warwick (UK)</i>
15:30 – 16:00	Coffee break Time to visit the posters and trade show participants
16:00 – 18:00	Workshop: Algae Research Agenda for 2020 and 2030
16:00 – 16:20	Whitepaper “European Roadmap for an Algae-Based Industry” <i>René Wijffels, Wageningen University (the Netherlands)</i>
16:20 – 18:00	Roundtable with 3 members from industry, and 3 members from academia
18:00 – 18:10	Closure of conference day 2
20:00 – 22:00	Conference dinner The Westin Palace Madrid Award ceremony for the best 2 posters

Day 3 - Thursday December 15th 2016

09:00 – 09:40	Opening and key note day 3
09:00 – 09:10	Opening session
09:10 – 09:40	Key note: The Solar Microalgae Industry: Then, Now, and Coming <i>John Benemann, CEO MicroBio Engineering Inc. (USA)</i>
09:40 – 11:00	Session 7: Biofuels, chemicals, wastewater treatment, and greenhouse gas reduction
09:40 – 10:00	7.1 LCA of algal products: state of the art and perspectives <i>Guido Reinhardt, Institute for Energy and Environmental Research Heidelberg (Germany)</i>
10:00 – 10:20	7.2 ERC Starting Grant – BIOLEAP Biotechnological optimization of light use efficiency in algae photobioreactors <i>Tomas Morosinotto, Università di Padova, (Italy)</i>
10:20 – 10:40	7.3 The Approaching Phosphorus Crisis and Microalgal Biotechnology: Updates on a Growing Problem and Strategies for Effective Usage <i>Joshua Mayers, Chalmers University of Technology (Sweden)</i>
10:40 – 11:00	7.4 An alternative strategy for sustaining the development of microalgae-based technology for wastewater treatment <i>Olga Tiron, National Research and Development Institute for Industrial Ecology - ECOIND (Romania)</i>
11:00 – 11:30	Coffee break Time to visit the posters and trade show participants
11:30 – 12:50	Session 7 continued Biofuels, chemicals, wastewater treatment, and greenhouse gas reduction
11:30 – 11:50	7.5 Green Mining <i>Steve Skill, Swansea University (UK)</i>
11:50 – 12:10	7.6 Anti-inflammatory effects of different <i>Phaeodactylum tricornutum</i> extracts on human peripheral blood mononuclear cells <i>Ulrike Neumann, Insitute of Clinical Nutrition, University of Hohenheim, (Germany)</i>
12:10 – 12:30	7.7 Measurement of intra- and extracellular cytokinin content of algae cultures and application of <i>Scenedesmus</i> sp. cultures for plant growth promotion – resulted the new foliar fertilizer of Albitech Ltd. <i>Erika Greipel, Albitech Biotechnological Ltd. (Hungary)</i>
12:30 – 12:50	7.8 Synthesis of hydrocarbons from fatty acids in microalgae <i>Fred Beisson, CEA-CNRS-Aix Marseille University (France)</i>
12:50 – 14:10	Lunch



14:10 – 15:50	Session 8: Novel foods and animal feed
14:10 – 14:30	8.1 Microalgae biscuits – sensory, physical and chemical properties, antioxidant activity and in-vitro digestibility <i>Ana Paula Batista, University of Lisbon (Portugal)</i>
14:30 – 14:50	8.2 How extrusion parameters affect the sensory properties of meat alternatives derived from soy and spirulina <i>Stephanie Grahl, Georg-August-University Goettingen, (Germany)</i>
14:50 – 15:10	8.3 Impact of processing on n-3 long chain poly-unsaturated fatty acids derived from microalgae <i>Lore Gheysen, KU Leuven University (Belgium)</i>
15:10 – 15:30	8.4 Micro Algae for Aquaculture; Converting Art into Technology <i>William van der Riet, Tomalgae cvba (Belgium)</i>
15:30 – 15:50	8.5 Raising broilers without antibiotics, thanks to algae <i>Pi Nyvall Collén, Olmix Group (France)</i>

15:50 – 16:20	Coffee break Time to visit the posters and trade show participants
----------------------	--

16:20 – 17:40	Session 9: Algae cultivation: from laboratory to commercial plants and marketing in Europe
16:20 – 16:40	9.1 Distributing light into photobioreactor volume to produce high-density algal biomass <i>Ladislav Nedbal, Forschungszentrum Jülich (Germany)</i>
16:40 – 17:00	9.2 Eco-logic Green Farm at Società Agricola Serenissima (Italy): organic microalgae production in an integrated plant <i>Giacomo Sampietro, Fotosintetica & Microbiologica Srl (Italy)</i>
17:00 – 17:20	9.3 The use of heterotrophy as a tool to overcome the long and costly autotrophic scale-up process for large scale production: a case study for <i>Chlorella vulgaris</i> <i>Rui Gomes, CMP-ALGAFARM (Portugal)</i>
17:20 – 17:40	9.4 „Closing the gap“ - How to provide appropriate commercial quantities of high quality Microalgae-Biomass to the industry <i>Marcella Langer, MINT Engineering GmbH (Germany)</i>

17:40 – 17:50	Closure of the conference Concluding remarks and key messages to take away <i>Prof. Mario Tredici, Chair of the AlgaEurope Scientific Committee</i> <i>Kyriakos Maniatis, Conference Co-Chair</i> <i>Vítor Verdelho, Conference Co-Chair</i>
----------------------	---

