

Industry Track

PROGRAMME - Status of 16 April 2021



EUBCE

29th European Biomass
Conference & Exhibition

www.eubce.com

26-29 April 2021



A Message to EUBCE 2021 participants

Dear EUBCE contributor and bioeconomy stakeholder.

The COVID-19 pandemic has brought unprecedented and arduous disturbance and turmoil to all aspects of life, health, societal inclusion, work, energy and the environment. The recovery out of the pandemic will be an uphill battle for all while the role of renewable energy sources will be increased and intensified in the energy market.

Never before the opportunities for the bioeconomy were better but at the same time never before the bioeconomy faced so many obstacles and barriers to deploy innovative technologies into the various markets from chemicals to materials and from energy to fuels.

In the EUBCE 2021 we will be looking to several of the above issues and how the bioeconomy can play a significant role and contribute to Europe's and the global recovery.

Join you peers and other stakeholders from practically all attributes of the bioeconomy and help the debate on how to overcome the barriers we face so that our bioeconomy community can deliver to the needs of the European and global citizen.



Kyriakos Maniatis
Former European Commission, DG
ENERGY
EUBCE Industry Coordinator

Influence the direction of the biomass industry

EUBCE 2021 will include an industry track, designed to facilitate the leadership role of influential stakeholders towards market deployment of innovative technologies.

What is “the Industry Track”?

EUBCE 2021’s Industry Track is a selection of sessions throughout the conference focused on topics of interest to the private sector and driving market opportunities.

These will include by-invitation-only presentations, panel discussions, debates, and interactive Q&As with the audience.

What topics will be discussed?

Join these sessions to learn or contribute to conversations about:

- the advances in hydrogen and fuel cells for bioenergy; small scale thermochemical conversion; large scale gasification; and fast pyrolysis; as well as,
- sustainable resources for bio-based industrial processing, and, biobased products
- engaging debate about biofuel’s and low carbon fuels
- dedicated session on bioeconomy advances in India and China
- and more such a panel discussion on low biofuels and a workshop on decarbonising the aviation sector

For more information visit EUBCE 2021 and check out the Industry Track programme for a list of influential moderators and panellists. For tickets, visit EUBCE.com or eubce.com/registration Looking forward to hearing your voice as part of this on-going conversation.

[GO TO CONFERENCE INDUSTRY TRACKS](#)

Want to contribute to the Booklet of Technologies?

[CLICK HERE TO VIEW](#)

A compilation of industry efforts to deploy innovative technologies in the area of advanced biofuels.

The Booklet of Technologies will be open for new entries to participants of EUBCE 2021 and accepting contributions relevant to all biomass conversion technologies, low carbon fuels and non-food crops.

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Outline

	26 April	27 April	28 April	29 April	
09:00	Plenary Session AP.1 Carbon storage and climate OPENING	IBO.3 Advances in Methanol, Hydrogen & Fuel Cells	ICO.1 Advances in Biogas/ Biomethane	IDO.1 Bioeconomy Advances in China	09:00
10:00		Plenary Session BP.1 Alternative Fuels	Plenary Session CP.1 Sustainable Aviation Fuels	Plenary Session DP.1 Sustainability and Positive Impacts	10:00
12:00		IBO.2 Advances in Small Scale Thermochemical Conversion	ICO.2 Advances in Bio-fossil Fuels	IDO.2 Bioeconomy Advances in India	12:45
	Hosted Events	Networking	Speakers' Corner	Visiting Time	
13:45	Plenary Session AP.2 Circular Economy and Biochar	Plenary Session BP.2 Technological Advances	Plenary Session CP.2 Green Hydrogen	IDV.7 Industrial System and Sources Integration for Low Carbon Fuels and Products	13:45
14:45					14:45
15:00	IAO.1 Europe's bioeconomy: Poised for leadership or missing the boat? DEBATE	IBO.1 Advances in Large Scale Gasification	ICO.3 Advances in Non-food Crops Cultivation	CLOSING	15:00
17:15		IBO.4 Advances in Fast Pyrolysis	ICO.4 Advances in Biobased Products	Workshop and Panel Discussion: Expert opinions on the ReFuel EU Aviation Initiative	16:15
17:30	IAV.7 Sustainable Resources for Bio-Based Industrial Processing	IBO.5 Advances in Low Carbon Fuels	ICV.11 Industrial Technology Innovations for Bioenergy and Bio-Based Product		18:00
18:30					18:45

Session Code

- A. Monday, 26 April
- B. Tuesday, 27 April
- C. Wednesday, 28 April
- D. Thursday, 29 April
- O Oral Session
- V Visual Session
- P Plenary Session



INDUSTRY TRACK

ORAL PRESENTATIONS - MONDAY 26 APRIL 2021

Europe's Bioeconomy: Poised for Leadership or Missing the Boat?

🕒 15:00 - 17:15 CEST ⓘ SESSION IAO.1

Nordic countries and the U.S. show how ambitious, resilient – but straightforward – policy can create markets for renewable fuels that recruit investment into the bioeconomy. What should the EU do – or not do – to create thriving markets for biofuels and bio-based products? Given that biofuels are the only proven solution to reduce GHG emissions from transport in the short- to mid-term, and that EU Member states are hard at work implementing REDII, while contemplating an EU Green Deal-inspired RED III, the time is right to extract learnings and best practices from some of the most successful biofuel markets in the world.

Policy in the EU strives for energy security and gradual decarbonization, especially in highly polluting sectors like transport, through innovation and improved value chains. However, despite progress in renewable electricity generation and early rapid deployment of electric vehicles in the EU market, light and heavy-duty road vehicles still account for nearly three-quarters of transport CO₂ emissions, while emissions from aviation and marine will continue to rise in a post-Covid19 world, as well.

The European Green Deal calls for ever more ambitious GHG emission reductions across all sectors, transport included, with challenging targets for 2030, less than 10 years from now. Revised EU decarbonization targets for 2030 will likely call for 2.5 times the 2020 volumes, as commercial transport fuel demand is not expected to be dramatically reduced. At the same time, policymakers expect mostly non-mature “advanced” biofuels, produced from relatively new feedstocks and technologies, to provide at least 3/4 of this new demand. The challenge of dramatically increasing the amount of renewable fuel to market on a short timescale invites creative thinking.

We believe that inspiration can be found in regions with the most ambitious and successful biofuel markets in the world. The goal is not necessarily to replicate their approach, but to extract the essential learnings for application across a wide variety of countries featuring diverse resources and capacities for biorefinery deployment.

CHAIR & MODERATOR

Kyriakos Maniatis

Former European Commission, DG ENERGY
EUBCE Industry Coordinator

PANELISTS

Philippe MARCHAND

Expert, FRANCE

Gerard OSTHEIMER

World Business Council for Sustainable Development, USA


Douglas FAULKNER

Leatherstocking LLC, President, USA

Per WIKLUND

CFLiquids AB

Workshop and Panel Discussion: Expert opinions on the ReFuel EU Aviation Initiative'

 16:15 - 18:00 CEST

Aviation has suffered badly from the collapse of air travel due to the COVID-19 pandemic and the negative effects will take years to be overcome. At the same time the EU recovery should not lose sight of meeting the EU's climate change targets, which further complicates the strategies for recovery. Sustainable Aviation Fuel (SAF) is a cornerstone of the EU's energy transition for the sector. Although it is more expensive than fossil kerosene, with the right legislative and financial environment, it offers a real opportunity to initiate a green recovery of the European aviation industry.

Sustainable Aviation Fuels are basically advanced biofuels and e-fuels produced from renewable electricity. Both advanced biofuels and e-fuels face various issues related to their market availability and technological development. For advanced biofuels the availability of sustainable feedstock will be a limiting factor in the medium to long term while the availability of excess renewable electricity (for the production of green hydrogen) will be the main limiting factor for the e-fuels. To scale production capacity of these fuels there is need for strong, stable, long term regulation.

Already the EU's Green Deal, and other policies have created the foundations upon which it is now attractive for the aviation industry to consider actual measures in decarbonising the EU aviation. Few Member States are also taking initiatives along the same lines and even consider dedicated mandates. Furthermore, on the policy level the European Commission is working on the ReFuelEU Aviation initiative, with at its centre an ambitious EU wide SAF blending mandate, growing to >60% in 2050.

This workshop will give the audience insight in:

- The challenges and opportunities of scaling up SAF production capacity in Europe
- The complex interaction between different end-markets aiming to use the same resources
- A 360 view on the proposed ReFuelEU Aviation initiative, from leading stakeholders

CHAIRS

Karlijn Arts,
SkyNRG
Kyriakos Maniatis,
EUBCE Industry Coordinator

MODERATOR

Maarten van Dijk,
SkyNRG

SPEAKERS

Eric VAN DEN HEUVEL,
studio gear-up, How can a SAF Mandate in the EU help the broader bioenergy scale-up challenge?
Lloyd PINNELL,
Systemiq, "SAF technology and production ramp-up until 2050 in Europe"

PANELISTS

Robert Boyd, IATA
Andrew Murphy, Transport & Environment
Stéphane Thion, TOTAL
Inmaculada Gómez Jiménez, SENASA

Advances in Methanol, Hydrogen & Fuel Cells

🕒 09:00 - 10:00 CEST ⓘ SESSION IBO.3

CHAIRS

**Nikolaos
LYMPEPOPOULOS**
FCH JU, BELGIUM

**Kyriakos
MANIATIS**
Former European
Commission, DG
Energy, EUBCE Industry
Coordinator

Renewable Fuels, Hydrogen and Chemicals for the Transport and Industry Sector –Energy Transition: an Industry Perspective and Own Developments

ⓘ IBO.3.1

Dr. Armin Günther

Air Liquide Global E&C Solutions, Innovation & Development, GERMANY

Integration of Hydrogen and Ammonia Energy into Combined Cycles: the FLEXnCONFU Project

ⓘ IBO.3.2

Julio Guillen Angel

Circe, SPAIN

CO-AUTHORS

**M. Del Cerro, A. Hernández Pedrero,
L. Pérez Heras, G. Mancheño Sanz,**
CIRCE, Zaragoza, Spain

Discussion about the Operation of the First Industrial Size Biogas- Fed Sofc Plant in Europe

ⓘ IBO.3.3

Massimo Santarelli

Politecnico Di Torino,
Dipartimento Energia, Italy

CO-AUTHORS

**M. Acri
M. Gandiglio
T. Hakala
A. Hawkes
M. Rautanen**

Green Hydrogen Production from Biogas with Catalytic Membrane Reactor: the BIONICO and MACBETH Projects

ⓘ IBO.3.4

Marco Binotti

Politecnico di Milano,
Dipartimento di Energia, Italy

Advances in Small Scale Thermochemical Conversion

🕒 11:45 – 12:45 CEST ⓘ SESSION IBO.2

CHAIRS

**Ingwald
OBERNBERGER**
BIOS
Bioenergiesysteme,
AUSTRIA

Flameless Heat from Pellets with Zeroflame

🕒 IBO.2.1

Stefan ORTNER

OkofEN Pellet Heating, R&D, AUSTRIA

Chp with Biomass–Updraft Gasifiers – 10 Years Flowing Against the Current

🕒 IBO.2.2

Klaus RÖHRMOSER

ReGawatt GmbH, GERMANY

Green Carbon Technology – Combined Charcoal Production and Pyrogas Utilization for Heat and Power

🕒 IBO.2.3

Lukas SCHIRNHOFER

Polytechnik Biomass Energy, Geschäftsführer, AUSTRIA

Purowin Technology – Ultra–Low Dust Emissions without Filter for Wood Chips and Pellets as Fuel

🕒 IBO.2.4

Gerhard GERG

Windhager Zentralheizung Technik, AUSTRIA

Advances in Large Scale Gasification

🕒 15:00 - 16:00 CEST ⓘ SESSION IBO.1

CHAIRS

Antti ARASTO

VTT Technical Research
Centre of Finland,
FINLAND

**Kyriakos
MANIATIS**

Former European
Commission, DG
Energy, EUBCE Industry
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SunGas Renewables - Addressing the Need for Industrially Relevant Scale

🕒 IBO.1.1

Vann BUSH

SunGas Renewables, USA

Industrial Approach to Biomass Gasification

🕒 IBO.1.2

Sonja LAAKKONEN

Valmet Technologies, FINLAND

CO-AUTHORS

V. Helanti

R. Nurminen

Valmet Technologies, Finland

Replacement of Fossil Fuel with Biomass in Pulp Mill Lime Kilns

🕒 IBO.1.3

Jean TAILLON, ANDRITZ

ANDRITZ, White Liquor Plant Dpt., FINLAND

Implementing Advanced Gasification Commercially as Part Of an Integrated Approach to Sustainable Aviation Fuels From Biomass and Waste (part 1 and part 2)

🕒 IBO.1.4

PART 1

Dan BURCIAGA

TRI Inc., USA

🕒 IBO.1.5

PART 2

Neville HARGREAVES

Velocys, Business Development,
UNITED KINGDOM

Advances in Fast Pyrolysis

🕒 16:15 – 17:15 CEST ⓘ IBO.4

CHAIRS

Bert VAN DE BELD
TG Biomass Technology
Group,
THE NETHERLANDS

**Kyriakos
MANIATIS**
Former European
Commission, DG
Energy, EUBCE Industry
Coordinator

Developments and Future Aspects of Fast Pyrolysis Technologies

🕒 IBO.4.1

Joakim AUTIO
Valmet Technologies, R&D Dpt., FINLAND

CO-AUTHORS

R. SHENASSA
USA

Co-Processing Pyrolysis Oil Biocrude in an Fcc to Produce Renewable Fuels

🕒 IBO.4.2

Dan SZEEZIL
Honeywell, USA

High Temperature Heat from Fast Pyrolysis Oil in Industries

🕒 IBO.4.3

Ardy TOUSSAINT,
BTG Bioliquids, THE NETHERLANDS

Pioneer in Refining Advanced Biofuels

🕒 IBO.4.4

Jaakko MARTIKAINEN
Green Fuel Nordic Oy, FINLAND

Advances in Low Carbon fuels

🕒 17:30 - 18:45 CEST ⓘ SESSION IBO.5

CHAIRS

David CHIARAMONTI

Polytechnic of Turin, Energy Department, ITALY

Kyriakos MANIATIS

Former European Commission, DG Energy, EUBCE Industry Coordinator

Bactofuel: bacterial conversion of CO₂ and renewable H₂ into fuel

🕒 IBO.5.1

Ignacio HERRAEZ

Nanogap Sub Nm Powder, Commercial Dpt, SPAIN

Widening the Feedstock Pool: Recycling Carbon for a Blue Sky Future

🕒 IBO.5.2

Jennifer HOLMGREN

LanzaTech, Chief Executive Officer, USA

The Waste to Chemical Approach to Reduce Mobility Carbon Footprint

🕒 IBO.5.3

Giacomo RISPOLI

MyRechemical, ITALY

Algae Platform for Biofuels, Food Ingredients and Materials

🕒 IBO.5.4

Ajit SAPRE

Group President (R&D) Reliance Industry limited, INDIA

Axens' Renewable Technology Suite: an Indicator of Sustainable Carbon Footprint Reduction

🕒 IBO.5.5

Varun GINOTRA

Axens, FRANCE

Advances in Biogas/Biomethane

🕒 09:00-10:00 CEST ⓘ SESSION ICO.1

CHAIRS

Arthur WELLINGER
Triple E&M, SWITZERLAND

Kyriakos MANIATIS
Former European
Commission, DG
Energy, EUBCE Industry
Coordinator

Azola: a Solution for the Development of Biomethane Injection

ⓘ ICO.1.1

Hamadi CHERIF
Azola, FRANCE

CO-AUTHORS

C. Bucella
AZOLA, FRANCE

Methane. The Gas that Will Make the Energy Transition Successful

ⓘ ICO.1.2

Doris SCHMACK
MicrobEnergy GmbH, GERMANY

Biomethane from Coffee-Roasting By-Products: Experimental and Feasibility Investigation of Two Case Studies in Italy

ⓘ ICO.1.3

Marco RAVINA
Politecnico di Torino,
Environment, Land and
Infrastructure Engineering Dpt.
ITALY

CO-AUTHORS

G. Campo
A. Cerutti
D. Panepinto
V. Riggio
M.C. Zanetti
Turin Polytechnic, ITALY

Waste to Energy Biogas Plants and the New Compact Planet Valentin Concept

ⓘ ICO.1.4

Christof LANGGUTH
PlanET Biogastechnik GmbH, GERMANY

Advances in Bio-Fossil fuels

🕒 11:45-12:45 CEST ⓘ SESSION ICO.2

CHAIRS

Philippe MARCHAND
Expert, FRANCE

Kyriakos MANIATIS
Former European
Commission, DG
Energy, EUBCE Industry
Coordinator

Total ambition in biofuels: a leading producer and marketer

🕒 ICO.2.1

François IOOS
TOTAL, FRANCE

Bringing Cellulosic Ethanol Production to Commercial Scale: Sunliquid® Plant in Romania

🕒 ICO.2.2

Tor Kit GOH
Clariant Produkte (Deutschland) GmbH, GERMANY

Advanced Biofuels and More from Biorefinery - Cooperation is the Key to Success

🕒 ICO.2.3

Patrick PITKÄNEN
St1 Oy, Renewable Energy, FINLAND

Bio-based Diesel: Yesterday, Today, and Tomorrow

🕒 ICO.2.4

Dave SLADE
Renewable Energy Group, Inc., Biofuel Technology and Services, USA

Advances in Non-Food Crops Cultivation

🕒 15:00-16:00 CEST ⓘ SESSION ICO.3

CHAIRS

Myrsini CHRISTOU

Center for Renewable Energy Sources and Saving, Biomass Dpt., GREECE

Kyriakos MANIATIS

Former European Commission, DG Energy, EUBCE Industry Coordinator

Sequential Cropping Responding to the Need to Develop New Sustainable Feedstock for Lipid Biofuels

ⓘ ICO.3.1

Marko JANHUNEN

UPM - The Biofore Company, Director Public Affairs, LSB Leaders of Sustainable Biofuels Chair, FINLAND

Sustainable Camelina Cultivation as a Catch Crop

ⓘ ICO.3.3

Yuri HERRERAS YAMBANIS

Camelina Company España S.L., SPAIN

The Total Crop Valuation of Industrial Hemp

ⓘ ICO.3.4

Michael REINDERS

HempFlax Group, THE NETHERLANDS

Advances in Biobased Products

🕒 16:15-17:15 CEST ⓘ SESSION ICO.4

CHAIRS

René VAN REE
Wageningen Research,
THE NETHERLANDS

**Kyriakos
MANIATIS**
Former European
Commission, DG Energy,
EUBCE Industry
Coordinator

Biobased Bitumen - Lignin Applied in Asphalt by the CHAPLIN Collaboration

🕒 ICO.4.1

Joop GROEN
CBBB / Biorizon / Viride BV, THE NETHERLANDS

From Lignocellulose to Bio-chemicals via levulinic Acid Production: First Results from the GreenSolRes Project

🕒 ICO.4.2

Klaus LENZ
Syncom F&E Beratung,
Research & Development Consulting,
GERMANY

CO-AUTHORS

M. Bajaj SYNCOM GmbH, Ganderkesee, Germany
J. Klankermayer, A. Jupke, J. Viell, B. Winter,
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H. Beck Henkel AG, Duesseldorf, Germany
J.G. de Vries LIKAT, Rostock, Germany
H.C.L. Abbenhuis Hybrid Catalysis B.V., Eindhoven, The Netherlands
L. Geerts Vito, Mol, Belgium
V. Stegmann BASF SE, Ludwigshafen, Germany
R. Bischof Lenzing AG, Lenzing, Austria

New Sustainable Solutions for the Plastic and Chemical Industry

🕒 ICO.4.3

Oscar VERNAEZ
Neste, Innovation,
Products and Applications, FINLAND

CO-AUTHORS

A. Ojala, J. Jamieson, Neste, Porvoo, Finland
A. Muñoz, Neste, Düsseldorf, Germany

Why No One Makes Activated Carbons Out Of Biomass In Europe? - The Pioneer Case of Envirohemp and the Carestor Project

🕒 ICO.4.4

Carlos SANCHIS BERMÚDEZ
Envirohemp, SPAIN

CO-AUTHORS

M. Román Jimeno, E. Segura Hernández, R. Méndez Escribano, ENVIROHEMP SL, Spain
C. Alfonsín Outeda, CONTACTICA SL, Spain

Bioeconomy advances in China

🕒 09:00-10:00 CEST ⓘ SESSION IDO.1

CHAIRS

Shizhong LI
Tsinghua University, P.R.
CHINA

**Kyriakos
MANIATIS**
Former European
Commission, DG Energy,
EUBCE Industry
Coordinator

The Trend of Material Revolution in the Post-Petroleum Era

🕒 IDO.1.1

Bin XU
BBCA, P.R. CHINA

Environment and New Energy: Two Wheel Driven for a Sustainable Development of Urban and Rural Area of Haikou, China.

🕒 IDO.1.2

Haofu LUO
ALBA Shenzhou (Hainan) New Energy Construction and Development Co., Ltd.,
P.R. CHINA

Biowaste Treatment and GHG Emissions Reduction

🕒 IDO.1.3

Mingyu QIAN
GIZ, China Integrated Waste Management NAMA Project, GERMANY

Development and Application of Straw Biogas Technology

🕒 IDO.1.4

Haiping CHEN
CNOOC Gas and Power Group, P.R. CHINA

Bioeconomy Advances in India

🕒 11:45-12:45 CEST ⓘ SESSION IDO.2

CHAIRS

Ramakrishna Y B
Expert, INDIA

**Kyriakos
MANIATIS**
Former European
Commission, DG Energy,
EUBCE Industry
Coordinator

Biomobility - reimagining transportation fuel landscape

🕒 IDO.2.1

Shishir JOSHIPURA
Praj Industries Limited, INDIA

Bio-hydrogen pathways - indian perspective

🕒 IDO.2.2

S. S. V. RAMAKUMAR
Indian Oil Corporation Ltd, INDIA

Overcoming the supply chain barrier to scalable deployment of biofuels in india

🕒 IDO.2.3

Anjan RAY
CSIR - Indian Institute of Petroleum,
Analytical Sciences Dpt., INDIA

CO-AUTHORS

T. Bhaskar, B. B Krishna, Y.S. Reddy,
CSIR-Indian Institute of Petroleum (IIP), India

Waste to wealth - reliance catalytic processes

🕒 IDO.2.4

Ajit SAPRE
Group President (R&D) Reliance Industry limited, INDIA

Sustainable Resources for Bio-Based Industrial Processing

🕒 17:30-18:30 CEST ⓘ SESSION IAV.7

CHAIRS

LUC PELKMANS
CAPREA Sustainable
Solutions, BELGIUM

Session Description

This session covers a range of topics on sustainable resources for industrial processing such as algae biorefineries, bioenergy value chains on marginal lands, storage of biomass etc. These innovative technologies will provide the participant with a reliable state of the art on sustainable resources.

Renewable Natural Gas Resource Assessment and Co-Produced Carbon Capture and Storage: a Pennsylvania Case Study

🕒 IAV.7.1

Matthew ARENAS,
The Pennsylvania State University,
Agricultural and Biological
Engineering Dpt., USA

CO-AUTHORS

S. Asem-Hiablie, Institutes of Energy and the Environment, Pennsylvania State University, University Park, Usa
S.M. Herbstritt, H. Baxter Stauffer, Department of Agricultural and Biological Engineering, University Park, Usa
T.L. Richard, Department of Agricultural and Biological Engineering, Institutes of Energy and the Environment, University Park, Usa

Biomass Collection from Natural Post-Fire Pine Regeneration Areas

🕒 IAV.7.2

LUIS SAÚL ESTEBAN PASCUAL
CIEMAT-CEDER, Renewable
Energy Dpt., SPAIN

CO-AUTHORS

R. Bados, L.S. Esteban, M. Zamora, R. Corredor, M.J. Fernandez CIEMAT, Soria, SPAIN
R. Laina, T. De la Fuente, M. Bacescu, E. Tolosana, Universidad Politécnica de Madrid, SPAIN

Mapping of Marginal, Underutilised and Contaminated Lands in Europe and Ukraine and Sustainability Assessment of Bioenergy Value Chains through the BIOPLAT-EU webGIS Tool

🕒 IAV.7.3

Cosette KHAWAJA
WIP Renewable Energies, GERMANY

CO-AUTHORS

R.J. Janssen, D.R. Rutz WIP, Munich, Germany
M.C. Colangeli, L.T. Traverso, M.M.M. Morese, AO, Rome, Italy
M.H. Hirschmugl, C.S. Sobe, JR, Graz Austria
A.C. Calera, D.C. Cifuentes, A.S. Simon, UCLM, Albacete Spain

Eubce student awardee presentation – Potential of a New Seed Propagated Elephant Grass Cultivar for Bioenergy Purposes

🕒 IAV.7.6

Alessandra CAMELO

Institute of Energy and Environment,
University of São Paulo,
Institute for Technological, BRAZIL

CO-AUTHORS

A.E. Maiorano, S. Fernandes, L.R. Magossi, P.C. Tambani Institute for Technological Research of São Paulo State (IPT-SP), São Paulo, BRAZIL, **P.H.L.S. Matai**, Institute of Energy and Environment, University of São Paulo (IEE-USP), São Paulo, BRAZIL; **J.C. Machado**, Embrapa Dairy Cattle, Centro Nacional de Pesquisa de Gado de Leite (CNPGL), Juiz de Fora, BRAZIL, **F.J.S. Lédo**, Embrapa Dairy Cattle, Centro Nacional de Pesquisa de Gado de Leite (CNPGL), Juiz de Fora, BRAZIL; **J.I. Baldani**, Embrapa Agrobiologia, Centro Nacional de Pesquisa em Agrobiologia (CNPAB), Seropedica, BRAZIL

The Macro Algae Biorefinery – Prefeasibility Study

🕒 IAV.7.8

Kurt HJORT-GREGERSEN,

Danish Technological Institute,
Environment Technology Dpt.,
DENMARK

CO-AUTHORS

A.B. Bjerre, X Hu, N. Ma, S.U. Larsen
Danish Technological Institute, Aarhus,
Denmark

Drying Kinetics of Microalgae for Selection of Drying Method

🕒 IAV.7.9

Deepthi MENON

Reliance Industries Limited,
A2O Dpt-, INDIA

CO-AUTHORS

R. Ghadge
Reliance Industries Limited, Mumbai, India

Increasing Economic Efficiency of Cultivating Microalgae by Recycling Process Water

🕒 IAV.7.10

Matthias NEUBAUER

BEST - Bioenergy and Sustainable Technologies, Bioconversion and Biogas DPT., AUSTRIA

CO-AUTHORS

M Neubauer, L Bauer, E Lanschützer, A Sonnleitner, K Meixner, B Drosg, BEST - Bioenergy and Sustainable Technologies GmbH, Vienna, AUSTRIA; **P Cayir, I Fritz** University of Natural Resources and Life Sciences, Vienna, AUSTRIA

Alleviating Pollution to Create New Biomass for Animal Feed

🕒 IAV.7.11

Aiia SILKINA

Swansea University, Biosciences Dpt., UNITED KINGDOM

Use of HTC for Utilization of the Forest Industry Sludges

🕒 IAV.7.13

ESA VAKKILAINEN

LUT University, Laboratory of Sustainable Energy Systems, FINLAND

CO-AUTHORS

K Kuparinen, S Lipiäinen LUT University, Lappeenranta, FINLAND

Goat and Sheep Cheese Whey by Products Can Be Used for the Production of Recombinant Proteins from Escherichia Coli

🕒 IAV.7.14

Alexios VLAMIS

University of Patras, Chemistry Dpt., GREECE

CO-AUTHORS

K. N. Fotopoulou University of Patras, Rion, Greece

Comparison of Different Storage Systems of Softwood Biomass and Urban Pruning Residues

🕒 IAV.7.16

Paola CETERA

National Research Council, Institute of BioEconomy, ITALY

CO-AUTHORS

M. Marra, M. Negri, National Research Council (CNR-IBE), San Michele all'Adige, Italy

Value Chain Analysis of Co-Firing Steam Explosion Pellets in Large-Scale Pulverized-Coal Power Plant

🕒 IAV.7.17

Gonzalo DEL ALAMO

SINTEF Energy Research, NORWAY

CO-AUTHORS

O. Tranas, Ø. Skreiberg, M. Vikse, Sintef Energy Research, Trondheim, Norway
T. Barth, University of Bergen, Bergen, Norway

Industrial Technology Innovations for Bioenergy and Bio-Based Product

🕒 17:30-18:30 CEST ⓘ ICV.11

CHAIR

Bert VAN DE BELD, BTG Biomass Technology Group, THE NETHERLANDS

Session Description

This session addresses the latest technology innovations for several processes and/or applications that the bioeconomy industry can use for energy and bio-based products.

Heat & Power Production with Turboden Proven Technology

🕒 ICV.11.2

Simone PASSERA

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Biomass as the Key to a Sustainable Brick Production - Energy Supply, Generation of Process Heat and Recycling of Gasification Residues

🕒 ICV.11.3

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Efficiency Increase of a Small-Scale CHP Plant Fueled with Synthesis Gas Originating from Thermochemical Recuperation

🕒 ICV.11.4

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Cooling Pig Manure by Surplus Heat from a Biogas Fueled CHP

🕒 ICV.11.5

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Biowave: Microwave Pretreatment of Dairy FOG Waste for Enhanced Anaerobic Digestion

🕒 ICV.11.6

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Black Liquor to Fuel (BL2F) Project Develops Innovation HTL Technology for Advanced Biofuels

🕒 ICV.11.7

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Process for the Production of Sustainable Aviation Fuel from Residual Glycerol

🕒 ICV.11.9

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Ramifications of Drop-In Biofuels for Amine, Sulphur Recovery and Sour Water Treatment Units in Crude Oil Refineries

🕒 ICV.11.11

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Biofuel Production Using a Staged Fischer-Tropsch Process Followed by Mild Hydrocracking

🕒 ICV.11.12

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Assessing Profitability of Bioenergy Production with Minimal Environmental Impact Biorefineries

🕒 ICV.11.16

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Toxicity and Circular Potential of Polyurethane Synthesized with Biomass by-Product and Waste-Derived Biopolyols

🕒 ICV.11.17

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Industrial System and Sources Integration for Low Carbon Fuels and Products

🕒 13:45-14:45 CEST ⓘ IDV.7

CHAIR

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Session Description

In this session industrial systems are analysed and presented aiming to showcase the innovative solutions available for market deployment. The presentations cover a wide range of bioeconomy systems.

Biogas - Global Challenges, Markets and Cooperation Opportunities

🕒 IDV.7.1

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Sustainable Land, Livelihoods and Energy Initiative- Serbia: Restoration of Degraded Land at Scale Using Short Rotation Wood Biomass Plantations (SRPs) in Pursuit of Clean Energy, Bioeconomic Growth and Other SDGs

🕒 IDV.7.2

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Alternative feedstocks to promote bio-based and circular economy in industrial intensive sectors: the retrofeed project approach

📍 IDV.7.3

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Res4live project: energy smart livestock farming towards zero fossil fuel consumption

📍 IDV.7.4

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BIOFIT Case Studies – How to Adapt Existing Industrial Facilities

🕒 IDV.7.5

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Progress in the Transition Towards a Biobased Economy and New Biobased Business Cases: the Vanguard Initiative Bioeconomy Pilot

🕒 IDV.7.7

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Towards the Decarbonisation of the Energy Intensive Sector: Presenting RE4Industry Project

🕒 IDV.7.8

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LMT Process: A Revolutionary Approach Improving the Feasibility of M2E Business

🕒 IDV.7.10

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Bioenergy Retrofitting in Europe's Industry – BIOFIT Results

🕒 IDV.7.11

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Logistics and Feasibility of an International Fast Pyrolysis Bio-Oil Supply Chain – a Case Study of the MUSIC Project (HORIZON 2020)

🕒 IDV.7.12

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Market Uptake Support for Intermediate Bioenergy Carriers – The MUSIC project (HORIZON 2020)

🕒 IDV.7.13

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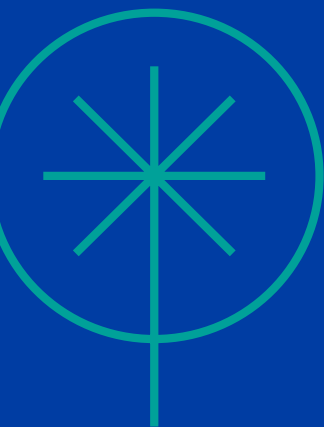
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