Welcome and thank you for being part of EFIB 2015

For the 8th edition of this market-leading event, we are delighted to be back in Europe’s Capital and to welcome you to SQUARE Brussels Meeting Centre, for three days of lively discussion, debate and networking.

We have taken advantage of Brussels’s broad range of bioeconomy representatives to increase interaction between policy makers, stakeholders from throughout the value chain and leading consumer brands.

There are many new bio-based topics to be explored as the last twelve months have seen the launch of the European Bioeconomy Alliance, the first calls for projects as part of the Biobased Industries Joint Undertaking and many more exciting reports, scale-ups and joint ventures. For example, there have been recent announcements of significant investments in Europe into biorefineries and industrial biotechnologies. The CEOs of key biobased innovators such as Corbion, Metsa and Novamont are here to provide their perspectives on the state of business in Europe, from developing new and novel partnerships along the value chain, to ensuring that capital investment is made available.

In addition, we continue to see an increasingly high number of consumer brands, from automotive companies to sportswear, cosmetics and toy manufacturers, embracing the potential of biobased. Reflecting this growing interest, companies such as Jaguar Landrover and Lego will share their insights on the potential for increasing use of biobased materials in the future.

As in previous years, innovation will feature strongly on EFIB’s programme and is complemented by dedicated tracks on market creation, looking into issues such as public procurement of biobased products and financing, providing unmissable insights in the run up to the EU’s Bioeconomy investment summit, which will follow on 9-10 November in Brussels.

The hot topic of circular economy will also be addressed in the opening plenary, including expert insights from the Ellen MacArthur Foundation, Accenture, Carlsberg, Interface, Zero Waste Europe and Friesland Campina. Closing out the conference, the programme turns to look at the role of bioeconomy in mitigating the impacts of climate change, ahead of the 21st Conference of Parties in Paris, December 2015, with representatives from DSM, DuPont, Copa Cogeca, European Climate Foundation, WBSCD, DG R&I and the Copernicus Institute.

We trust that this year’s EFIB will provide many opportunities to facilitate the development of new, novel and innovative collaborations in the bioeconomy, through our 1-to-1 partnering software, extended networking breaks, and evening drinks receptions.

Finally, a word of thanks to the broad range of contributors that make EFIB possible, including our supporting partners, sponsors, exhibitors and members of the advisory board, who all play a pivotal role in driving industrial biotechnologies forward.

We wish you all an informative, enjoyable and transformational event.

Yours sincerely

Ciaran Little
Head of Events
Hayley Marsden
EFIB Project Director
Smithez Rijper
Joanna Dupont-Inglis
Director
Industrial Biotechnology
EuropaBio
Cathy Hasman
Secretary General
essenscia/bio.be
Thank you to the EFIB Advisory Board Members

Ian Hudson, President EMEA Du Pont de Nemours International
Stephan Tanda, Managing Board Member DSM
Joanna Dupont-Inglis, Director Industrial Biotechnology Europolbio
Yvon Le Henaff, CEO ARO
Tina Seijersgard Fano, VP Business Operations EMA Novozymes
Christophe Rupp-Dahlém, Vice President R&D Plant Based Chemistry Roquette
Dr Dirk Carrez, Managing Director Clever Consult
Babette Pettersen, Chief Commercial Officer BioAmber
Dr Jos B. Peeters, Managing Partner Capricorn Venture Partners
Klaus Peter Stadler, Director Environment and Water Resources Europe Coca Cola
Dirk Develter, R&D Manager Ecover

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About the EFIB Organisers

Europabio is the European Association for Bioindustries, which brings together bioscience companies from all fields of research and development, testing, manufacturing and distribution of biotechnology products. Its corporate, associate and national association members are involved in the research, development, testing, manufacturing and commercialisation of biotechnology products and processes, and cover a wide range of activities: human and animal healthcare, diagnostics, bioinformatics, chemicals, crop protection, agriculture, food and environmental products and services.

Smithers Rapra is the world leader in rubber, plastics, polymer and composites expertise. We have been delivering market leading events for the bioeconomy for more than a decade. Our global portfolio of events includes more than 10 leading industry conferences on biomaterials, polymer technologies, sustainability and novel materials. Our information business also provides member benefits, market forecasts and analysis.

Bio.be is the federation of Belgian companies active in the biosciences and is part of essenscia (chemicals and life sciences). Bio.Be represents the interests of its members as regards legislation and standards at various policy levels (Belgium, EU, OECD). Its mission is to create a stable legal framework in line with the trend for innovation, an essential factor for the economic sustainability and growth of employment in this sector.
Workshops Tuesday 27 October

Meeting Studio 212
Enzyme engineering, organised by OPTIBIOTCAT

09:30 Registration
10:00 Welcome and introduction of speakers for the introductory session

09:05 Novel enzymes for greener cosmetics – Introducing the OPTIBIOTCAT project
Prof. Verónica Nuñez, Associate Researcher and Aggregate Professor, University of Naples “Federico II”, Italy
10:20 tbd
10:45 Active components in cosmetics and claims of cosmetic companies (tbd)
Marianna Ralli, Scientific Affairs Manager, Korres Natural Products, Athens, Greece
11:00 Coffee break

Focus Session: Enzyme Overproduction

11:15 Introduction of speakers for the focus session
11:20 Pichia pastoris: strains, parts & methods
Anton Gloder, Professor of Biotechnology, Institute of Molecular Biotechnology, Graz, Austria
12:00 Discussion
12:15 Engineering by design: Systems biology based development of the Pichia pastoris protein production platform
Ortrud Mattanovich, Full Professor of Microbial Cell Factory Design, University of Natural Resources and Life Sciences, Vienna, Austria
12:55 Discussion
13:10 Lunch
13:45 Cultivation strategies to enhance productivity of Pichia pastoris
Karin Kneer, Head of the Bioprocess Technology Section, Zurich University of Applied Sciences, Waadenswil, Switzerland
14:40 Discussion
14:55 Pichia process optimisation by co-feeding procedure
Patrick Fickers, Professor of the Microbial Processes and Pichia process optimisation by co-feeding procedure
James Clark, Chair of EU COST Action Network on Food Supply Chain Waste Valorisation
14:30 Waste as a resource for the bioeconomy
14:30 Scale-up – challenges and opportunities
Case studies and panel discussion
Chair – Mahboud Ashadi, Sweden University of Life Sciences Apostolis Koutinas, Assistant Professor, Agricultural University of Athens
Dr Joe Ross, Director at Bioenewables Development Centre Tony Duncan, CEO, Circa Group
Rop Zrostemeyer, President, BiobasedDelta
15:40 Coffee break
16:00 Social acceptability and commercial reality
Case studies and panel discussion
Chair – Nick Cuthbertson, Head of Chair of Green Chemistry, Talinn Technical University
Michael Caros, CEO, Novo-Institute
Piergiuseppe Morone, Associate Professor, La Sapienza University of Rome
Maurizio Prosperi, Leader of WP5 – Evaluation of Research Capacity, STOA Energy
Pieter Meuwissen, Project Manager, Brabant Development Agency
16:50 Mapping the market – the most promising waste-based chemicals, materials and fuels for the emerging bioeconomy
‘World Café’ style discussions
17:30 Closing remarks

Meeting Studio 211
From Waste to Wealth Workshop

13:30 Registration
14:00 Industrial Perspectives on the Waste Economy
Christine Parry, CoFounder’s Technical Manager at AB Agri
14:30 Waste as a resource for the bioeconomy
James Clark, Chair of EU COST Action Network on Food Supply Chain Waste Valorisation
14:50 Scale-up – challenges and opportunities
Case studies and panel discussion
Chair – Mahboud Ashadi, Sweden University of Life Sciences Apostolis Koutinas, Assistant Professor, Agricultural University of Athens
15:20 Welcome remarks
Jenna DuPont Irgin, Industrial Biotech Director, Europolbio
15:30 The role for biobased industries and the bioeconomy within the investment, jobs and growth package
Alessio Peltoni, Deputy Director-General of the Enterprise and Industry, Directorate-General, European Commission
15:40 Coffee break
15:50 Scale-up – challenges and opportunities
Case studies and panel discussion
Chair – Mahboud Ashadi, Sweden University of Life Sciences Apostolis Koutinas, Assistant Professor, Agricultural University of Athens
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‘World Café’ style discussions
17:30 Closing remarks

Conference Day One
Wednesday 28 October - Opening Plenary  Sponsored by IAR

08:00 Coffee & Registration
09:00 Opening Plenary Session

The business of Industrial Biotechnology – new business models and investments driving the European bioeconomy forward
Chaired by Nathalie Moll, Secretary General, Europolis

09:00 Welcoming remarks
Jenna DuPont Irgin, Industrial Biotech Director, Europolbio
09:30 Finnish Bioeconomy – from strategy into action
Harriene Houtsu-Lampinen, Ambassador, Deputy Permanent Representative of Finland to the European Union
09:45 2nd generation biofuel markets: state of play, trade and developing country perspectives
Dr Enrico Pace, Economic Affairs Officer, Trade, Environment, Climate Change and Sustainable Development Branch, UNCTAD
10:00 New business way of thinking to move the biobased industry forward
Tark de Rutter, CEO, Corbion

10:15 European investments and bioproducts for the future
Marianne Huusko-Lamponen, Ambassador, Deputy Permanent Representative of Finland to the European Union
10:30 Macro-economic benefits of a circular economy and the current barriers that exist towards its development
Filippo Giancarlo Martinelli, Grants and Innovation Consultant, PNO Innovation Brussels
10:45 Innovative partnerships – Carlsberg Circular Community & the Green Beer Bottle
Simon Hoffmeyer Boas, Director Corporate Communications & CSR, Carlsberg Group
10:50 Panel Discussion’ – views on how the circular economy can feed into the bioeconomy, and what role biobased materials are playing into sustainability goals in end-use markets, and where the barriers are towards moving to a future circular economy capitalising on the potential of biobased.
Panelists include: Simon Hoffmeyer Boas, Director Corporate Communications & CSR, Carlsberg Group
Jooni Karras, Head, Food & Feed Sustainability, Innovation & Development, The Nature Conservancy
Allan Arntsen, Director, Sustainability, Science and Community Engagement, IBM
Apostolis Koutinas, Assistant Professor, Agricultural University of Athens
Tomas Haglund, Lead Accenture Sustainability Services, Accenture
11:35 Introduction from Chair

11:15 Introduction from Chair
Date Reading, Former Editor, European Voice
11:20 Macro-economic benefits of the circular economy and the current barriers that exist towards its development
Jos Biezen, Head of Editorial and European Affairs, Ellen MacArthur Foundation
11:35 Innovative partnerships – Carlsberg Circular Community & the Green Beer Bottle
Simon Hoffmeyer Boas, Director Corporate Communications & CSR, Carlsberg Group
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Conference Day One

SILVER HALL

14.10 Introduction from Session Chair
Alberto Sartorio, Associate Principal, McKinsey & Company

14.15 Public Procurement for promoting Europe’s Biobased Industry: Making it Happen
James Cogan, Senior Advisor, European Innovation and Funding, PwC Consultant

14.25 Opening bio-based markets via standards, labelling and public procurement
Virginie Rimbert, DG Agriculture, Research and Innovation unit, European Commission
Lucy Nattras, Managing Consultant and E4tech sector lead on biorefinery
Marc Vermeulen, Secretary General (EFG)
Jamie Fortescue, Managing Director, Starch Europe

17.25 Panel discussion

15.45 Networking refreshment break

COPPER HALL

14.10 Introduction from Session Chair
Camille Marrazzini, Research Programme Officer, European Commission

14.15 Biotechnology’s competitiveness with a $45 barrel price: the L-Methionine case
Benjamin Georg, CEO, Metabolic Explorer

14.30 Platform chemical 5-HMF – building the bio-based future
Thomas Klaas, CMO, AvA Bioschem

14.45 Synthetic biology: need for a genetic firewall
Dr Philippe Gabias, CSO, Syngenta

15.00 Development of synthetic biology tools to more predictably store, express and select biocatalytic activities for metabolic pathway and bioprocess optimisation
Dr Ian Fortheringham, PhD Ingenuity

15.15 The use of captured CO2 to produce polyurethane polymers
Simon Waddington, Market Development Manager, Novomer

15.30 Sustainable chemistry solutions for next generation in situ soil remediation, water treatment, healthcare and life science
Federic Labyey, Manager, Bio Base Engineering

Feedback session – Ensuring sufficient and competitive supply in Europe

16.40 Introduction from Session Chair
Dr Callopte Panoutsou, Senior Research Fellow, Imperial College Centre for Energy Policy & Technology

16.45 Introductory presentations from panellists, providing their view to feedstock availability in Europe and how to ensure a sufficient and competitive supply across different feedstock types
Dr Sarah Hickingbottom, Business Development Manager - Oleo & Skin
Babette Pettersen, CCO, BioAmber & Gesa Behnken, Head of New Business Development

15.05 Panel discussion

15.45 Networking refreshment break

Innovation Track - SME innovation showcase

16.40 Introduction from Session Chair
Kathryn Sheridan, Founder, Sustainability Consult

16.45 Developing a methodology to track and report high carbon content in complex supply chains
Alistair Reid, Spend Area Main Buyer - Renewable Raw Materials, Akzo Nobel

17.00 Biobased and Jaguar Landrover’s environmental innovation programme
Katelijne Bekers, R&D Engineer, Bio Base Europe Pilot Plant

17.15 Bioserie bioplastic baby products
Dr Ian Fotheringham, MD, Ingenza

17.30 Pharmafilter: provision of single, personal and hygiene, use biodegradable disposables for hospitals
Dr. Hendrik Waegeman, Business Development Manager, Bio Base Europe Pilot Plant

17.45 Performance enabled by nature
Anna Bärnholdt, Head of International Business Development, NatureWorks

Innovation Track - Biontlorial innovations in consumer goods – showcasing IB as a commercial reality

16.40 Introduction from Session Chair
Dr. Hendrik Waegeman, Business Development Manager, Bio Base Europe Pilot Plant

16.45 Increasing the value of corn stover - developing a carbon-based platform for TEXTHFollowers
Caroline Strain, Head of Chemical Sciences, Scottish Enterprise

17.00 The power of a good business plan
Dr Stephen Haukold, Senior Consultant, BCPN Consultants

17.20 Determining environmental hot spots with Life-cycle Assessment
Mathilde Gosselin, President, Materium

17.30 Panel discussions, Q&A and Wrap up

SHOWCASE THEATRE

13.00 Fitting policies to the innovation structure of emerging biobased sectors
Dr. Nieves Gonzalez, Independent Consultant

13.20 Hollow mesoporous silica microphores: potential for increased fermentation and enzymatic process productivity
Dr. Hendrik Waegeman, Business Development Manager, Bio Base Europe Pilot Plant

13.40 “Building on Success” – Scotland’s National Plan for Industrial Biotechnology
Caroline Stratton, Head of Chemical Sciences, Scottish Enterprise

Lessons learnt from the IB2Market project
Moderator: Dr. Hendrik Waegeman, Business Development Manager, Bio Base Europe Pilot Plant

14.00 The Industrial Biotechnology to Market project: General introduction
Dr. Hendrik Waegeman, Business Development Manager, Bio Base Europe Pilot Plant

14.15 Bringing innovative specialty carbohydrates to the market: hurdles and how to deal with them
Dr. Joeri Beekmans, Chief Scientific Officer, BioBase

14.30 And what about bringing new biocatalysts to the market?
Dr. Stephane Roche, R&D Engineer, Bio Base Europe Pilot Plant

14.45 The role of proper piloting
Katelijne Bekers, R&D Engineer, Bio Base Europe Pilot Plant

15.00 The power of a good business plan
Dr. Stephen Haukold, Senior Consultant, BCPN Consultants

15.15 Determining environmental hot spots with Life-cycle Assessment
Adam Jashke, Head of Department Technology & Markets, Bio-based Chemistry & Industrial Biotechnology, NOVA Institute

15.30 Panel discussions, Q&A and Wrap up

Afternoon showcase session

16.00 Title tbc

16.20 Post-grant patent proceedings in Europe and US

16.40 Patents, IP and the A, B, C in European Industrial Biotechnology
Dr. Nieves Gonzalez, Independent Consultant

Wednesday 28th October

KWINT Drinks Reception

Attendees are welcome to join us for a gala drinks reception at KWINT Brussels to enjoy drinks and canapes whilst networking

Location:
KWINT Brussels, Mont des Arts 1, 1000 Brussels, Belgium

Time: 18.00-19.30
Conference Day Two

8.15 Refreshments in the exhibition hall

9.00 Improving of Innovativeness in Industrial Biotechnology

Dr. Juan Carlos Bueno, Global Executive Vice President, Stora Enso

9.15 Biomass to lactic acid and platform chemicals – a new way of thinking

Dr. Ed Marshall, Co-Founder & Director of Research, Plaxica

9.30 Metabolic and Process Engineering, an essential complementarity to optimise the added value of complex processes

Johan De Coninck, Business Development Manager, IAR and Anthony Breeze, Chief Scientific Officer, ARB

9.45 Renewable isobutene: how to transition from lab to industrial pilot phase

Dr Tom Beardslee, Vice President of R&D, Verdezyne

9.50 Scale-up to pilot scale of a 2-stage continuous Aceton-Butanol-Ethanol fermentation coupled to an in situ product recovery technique

Ragnhild Whitaker, Research Manager for Marine Biotech, Nofima

10.00 Horizon 2020 Grants: Myth busting and strategies for success

Pierre-Antoine Mariage, Founder and CEO/CSO, GREEN2CHEM

10.15 Growing the biobased economy - a value chain approach

Pierre Barthélemy, Executive Director Research and Innovation, Corporate Innovation, Evonik Industries AG

10.30 Biomass from second-generation sugars

Lien Van der Schueren, Research Scientist, CENTEXBEL

10.45 The road to the world’s 1st large-scale bio-based DDDA plant

Dr Marlene Beyerle, Technology Intelligence/R&D Project Manager, NAMAB – National Facility for Marine Bioprocessing, Norway – NAMAB – National Facility for Marine Bioprocessing, Norway

11.00 Developing the Waste Bio-refinery at CPI

Dan Noakes, Business Development Manager, CPI

11.15 Instead of burning it – lignin for materials applications

Frédéric Pâques, Chief Operating Officer, Global Bioenergies

11.30 End-of-life possibilities of biopolymer based products

Sophie Roelants, R&D Engineer, Bio Base Europe Pilot Plant

11.45 Natural flavours of fermentation and biocatalysis

Prof Dr Peter Punt, Senior Scientist, TNO

12.00 Growing the biobased economy - a value chain approach

Dan Noakes, Business Development Manager, CPI

12.15 Natural flavours of fermentation and biocatalysis

Johannes Carman, Division Director Biopolymers, Fraunhofer IAP

12.30 Lunch is served in the exhibition hall

SHOWCASE THEATRE

Morning showcase session 1


9.45 Scale-up to pilot scale of a 2-stage continuous Aceton-Butanol-Ethanol fermentation coupled to an in situ product recovery technique

Brecht Vanhaverbeke, R&D Manager, Bio Base Europe Pilot Plant

10.00 Advanced Roots System unlocking plant-biodiversity through a high volume & low cost bioreactor

Pierre-Anthony Mariage, Founder and CEO/CSO, GREEN2CHEM

10.25 Growing the biobased economy - a value chain approach

Pierre Barthélemy, Executive Director Research and Innovation, Corporate Innovation, Evonik Industries AG

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Sustainable Development, DG Research and Innovation, European Commission

Dr Dirk Carrez, Executive Director, Biobased Industries Consortium

Through Venture Capital Investments

Dr Gunter Festel, CEO, Festel Capital
Conference Day Two
Thursday 29 October - Plenary

COPPER HALL

Developing Bioeconomy strategies, mitigating climate change and moving towards 2020

13.50 Introduction by the Chair
Stephan Tanda, Managing Board Member, DSM

14.00 Biobased materials and LEGO
Neleke van der Pol, VP Materials, Engineering & Quality, LEGO Systems

14.15 Policy keynote: perspectives on how the EU Circular Economy package might hold opportunities and/or challenges for the development of EU biobased industries and products
Daniel Calleja Crespo, Director General, European Commission, DG Environment

14.30 2016 venue host – ready to welcome you to Glasgow!
Roger Kilburn, CEO, IBioIC

14.35 Report on Bioeconomy and Climate Change
Mr Jean-Pascal van Ypersele, Intergovernmental Panel on Climate Change (delivered either in person or via video message)

14.45 Climate change, where does industrial biotech/biobased have a natural and logical place?
Stephan Tanda, Managing Board Member, DSM

14.55 Cross industry panel debate; Mitigating climate change and generating positive change in line with COP21
Representing the biobased value chain and bringing them together with thought leaders and policy makers to discuss the role of the Bioeconomy in mitigating climate change.

Answering the questions:
- What is the role of the biobased industry and of policy?
- How to foster/generate positive change?
- Can we ‘price’ our resources; price on carbon, both as feedstock and as emissions?
- If so, then what role for the Bioeconomy?
- What is the role of the agricultural sector, in terms of efficiency & scaling?
- What needs to happen in the coming year to ‘tip the balance’ towards becoming a renewables based economy?
Moderated by Ian Hudson, President EMEA, DuPont

Panelists include:
Kjell Ivarsson, Vice-Chair, Copa-Cogeca working party on research and innovation
Waldemar Kütt, Head of Unit - BioBased products and processing at DG Research & Innovation
Martin Porter, Executive Director Industrial Innovation and EU Affairs, European Climate Foundation
Stephan Tanda, Managing Board Member, DSM
Dr Andrea Ramirez, Associate Professor, Copernicus Institute of Sustainable Development, University of Utrecht
Matthew Reddy, Director, Forest Solutions Group, WBSCD

15.50 Closing remarks and John Sime award presentation

Presentation of John Sime award
Once again EFIB organisers are dedicating an award to John Sime who played a pivotal role in the early development of EFIB, in order to recognise John’s commitment to both EFIB and the biobased economy and to remember him as part of the event. John’s own background as an R&D director for an SME ensured he was a keen advocate of new science and technology. To reflect this, we will once again focus on the innovation track and the most innovative idea, which responds to social and environmental needs. The John Sime award will be presented at the close of the EFIB conference by Stephan Tanda, Chair of EuropaBio’s Industrial Biotechnology Council.

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Don’t forget you can vote for the John Sime Award Winner
Go to www.sli.do and vote under the poll section

1-to-1 Partnering at EFIB
sponsored by

Get the most out of your attendance at EFIB 2015. Don’t forget to attend your pre-arranged 1-to-1 Partnering meetings at EFIB. The Partnering Service is focussed on enabling qualitative meetings for all EFIB delegates with full-access tickets.

Login to Meeting Mojo, check your 1-to-1 Partnering agenda for meeting times and destinations and make your way to the Partnering Zone within the EFIB exhibition to locate your meeting table.

For any queries or for a printout of your agenda, please see a member of the EFIB team at the registration desks.
The exhibition at EFIB 2015 will be showcasing Europe’s most innovative Biotechnology companies all in one space.

Stand No. | Exhibitors
--- | ---
2 | Smithers Rapra
3 | BE-Basic Foundation
4 | A2IB – Austrian Centre of Industrial Biotechnology
5 | Novasep
6 | EuropaBio
7 | Invest in Finland
8 | essenscia / bio.be
9 | IAR
10 | Lebas Industries
15/16 | Bio Base Europe Pilot Plant
17 | BioConSept (RTDS)
18 | c-Lecta
19a | Leading Edge Cluster BioEconomy BioValé
19c | Biobased Delta
19d | EURODIA Industrie SA
20a | BCCM (Belgian Co-ordinated Collections of Micro-organisms)
20b | NEN - Netherlands Standardisation Institute
21 | Centre for Process Innovation
22 | GF Biochemicals
23 | Phage Consultants
24 | State of Iowa
25 | Toulouse White Biotechnology (TWB)
26 | Scottish Development International
27 | VITO
29 | Corbion Purac
30 | Institution of Chemical Engineers
32 | nova-Institute
34 | Biobased Industries Consortium
Corbion is the global market leader in lactic acid, lactic acid derivatives and lactides, and a leading company in emulsifiers, functional enzyme blends, minerals and vitamins. The company delivers high performance biobased products made from renewable resources and applied in global markets such as bakery, meat, pharmaceuticals and medical devices, home and personal care, packaging, automotive, coatings and adhesives. For the plastics industry, Corbion Purac offers lactides and PLA resins for general purpose and high performance bioplastics. PLA (Poly Lactic Acid) is a biobased plastic with a low carbon footprint and is used in packaging, disposables, fibers, electronics and automotive markets. Additionally, Corbion is developing 100% biobased FDCA for high performance plastic with a low carbon footprint and is used in packaging, disposables, fibers, electronics and automotive markets. Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet’s resources and helping build better lives. As the world’s largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow. www.novozymes.com

Royal DSM is a global science-based company active in health, nutrition and materials. By connecting its unique competences in Life Sciences and Materials Sciences DSM is driving economic prosperity, environmental progress and social advances to create sustainable value for all stakeholders. DSM delivers innovative solutions that nourish, protect and improve performance in global markets such as food and dietary supplements, personal care, feed, pharmaceuticals, medical devices, automotive, paints, electrical and electronics, life protection, alternative energy and bio-based materials. DSM’s 23,500 employees deliver annual net sales of about €7 billion. The company is listed on NYSE Euronext. More information can be found at www.dsm.com.

BioAmber Inc. is a leader in bio-based chemistry serving a wide range of applications. Our proprietary technology platform uses economically viable, sustainable feedstocks to produce innovative building block chemicals that make a difference in many everyday products through formulation-derived performance benefits.

Biocatalysts Ltd is a speciality enzyme company that rapidly and cost effectively develops and manufactures a wide range of unique enzyme products for food and non-food industries. The ability to identify, screen, scale-up and routinely manufacture novel enzymes in commercial quantities is a strategic area for the company. This includes ensuring that the end product is suitable for global shipment with no regulatory, safety or stability problems.

Capricorn Venture Partners is an independent Leuven based pan-European venture capital and asset manager seeking to invest in technology based growth companies and investing out of its Capricorn Cleantech Fund, its Capricorn Health-tech Fund, its Capricorn ICT Arkiv and is managing Quest for Growth, a cross-over fund quoted on EuroNext Brussels, and the Quest Management Cleantech SICAV.
Ceratium source funding for research projects, and provide management and innovation expertise to clients. We are Horizon 2020 specialists working as part of the Biotechsubsidy group assisting companies and research organisations strategically, scientifically and administratively. We have helped clients secure grants worth over 65M euros in the last 5 years.

DuPont (NYSE: DD) has been bringing world-class science and engineering to the global marketplace in the form of innovative products, materials, and services since 1802. The company believes that by collaborating with customers, governments, NGOs, and thought leaders we can help find solutions to such global challenges as providing enough healthy food for people everywhere, decreasing dependence on fossil fuels, and protecting life and the environment. For additional information about DuPont and its commitment to inclusive innovation, please visit www.dupont.com

Materium manufactures hollow functionalized silica microspheres to improve the immobilization of microorganisms and enzymes, as well as for adsorption of biomolecules in downstream processing. We improved enzyme production by 300% in fermentation, and demonstrated a 300% gain in enzyme output in catalytic reactor, with a magnetic option for recycling.

Sulzer Chemtech Ltd, a member of the Sulzer Corporation with headquarters in Winterthur (Switzerland), applies its world leading process engineering expertise to the field of bio-based chemicals. Sulzer Chemtech commercializes a proprietary, state-of-the-art process technology for the industrial production of PLA (Poly Lactic Acid) and provides purification technologies for several biopolymers and biobased chemicals.

The Future of Marine Biotechnology for Industrial Applications to 2025

Access exclusive content
- In-depth exploration of the marine biotechnology for industrial applications market
- Analysis of key technology trends expected to impact the industry
- Detailed ten-year forecasts on important developments in the marine biotechnology value chain

Who should buy this report?
- Industrial biotechnology companies and product manufacturers
- Raw material suppliers
- Buyers of industrial biotechnology products
- Bio-reactor suppliers
- Industrial biotechnology R&D organizations
- Industry consultants

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As a one-stop-shop for the biotech industry, acib transfers the methods, food/feed or chemical industries. Results are environmentally friendly and more economical processes or products that are – with optimized performance and the scientific progress – an asset to business, research and people.

**BCCM** offers microbial and genetic resources as well as quality services in microorganisms. BCCM provides access to thousands of microorganisms, including bacteria, yeasts, moulds, plasmids, diatoms, and services ranging from characterization, identification and training to consultancy and tailor-made cooperation projects.

**BE-Basic** stimulates collaborations between academia and industry, between scientists and entrepreneurs and between the Netherlands and abroad. **www.be-basic.org**

**BETTER BIOMASS CERTIFIED**

**WWW.BETTERBIOMASS.COM**

Better Biomass is the international certification system for solid, liquid and gaseous biomass. The Better Biomass certificate is issued by organizations to demonstrate that the biomass they use for bio-based products, energy or fuels meets well established international sustainability criteria. These criteria cover important values for nature, environment and society.

The Bio Base Europe Pilot Plant is an independent, flexible and diversified pilot plant for process development, scale-up and custom manufacturing of bio-based products and processes. It performs biomass pretreatment, biocatalysis, fermentation, green chemistry and product recovery/ purification and aims at closing the critical gap between scientific feasibility and industrial application.

**BioVale** is the gateway to bioeconomy opportunities across the Yorkshire and Humber region of the UK. This region is a thriving centre of successful innovation for the bioeconomy, with world-class research, diverse agriculture and a wide range of bio-based industries.

**BioConSepT** is a EU-funded FP7 project that converts 2nd generation biomass into valuable chemicals and plastics. Technological advances cover the whole production chain, from feedstock to pilot scale demonstration. Techno-economic and sustainability analysis and a serious game complement the approach. For more information see www.bioconsept.eu and watch our whiteboard animation for a short introduction.

**TU Delft**

Research and education in the Department of Biotechnology at Delft University of Technology focusses on multidisciplinary approaches to industrial and environmental biotechnology, with an open eye for the ethical and societal aspects of technology in these fields. Our research aims at fundamental knowledge and understanding of molecular biosciences and bioengineering. www.tudelft.nl

**GF**

GF Biochemicals is the first company to produce levulinic acid, a valuable biobased building block for specialty chemicals and materials, at commercial scale directly from biomass. With offices in Italy and the Netherlands, its 10,000 MT/a plant is at Caserta (Italy). The highly-skilled management team has decades of industry experience.

**EuropaBio**

EuropaBio is the European Association for Bioindustries and was created in 1996 to provide a voice for the biotech industry at the EU level. EuropaBio’s mission is to promote an innovative and dynamic biotechnology-based industry in Europe.

**Essenscia/BioBe** is the federation of Belgian companies active in the biotechnology and biosciences and is part of essenscia (federation for chemistry and life sciences). bioBe represents the interests of its members as regards policy, legislation and standards at various policy levels (Belgium, EU, OECD).

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**Inbiose**

Inbiose is an industrial white biotechnology company focused on the manufacturing of specialty carbohydrates. Our commitment is to supply high quality ingredients and natural bioactive oligosaccharides for final commercialization with an understanding of market and regulation requirements. With our unique technology platform, Inbiose addresses the needs of nutraceutical, infant nutrition, biomedical and Bio&Ag markets. www.inbiose.com

**IChemE**

The Institution of Chemical Engineers (IChemE) is the global membership body for chemical, process, biochemical and related engineers. With 42,000 members based in 120 countries, IChemE is the only organisation that awards internationally-recognised qualification – Chartered Chemical Engineer. IChemE is committed to supporting the professional development of these engineers with a comprehensive training and events programme delivered worldwide.

**Invest in Finland**

Invest in Finland is the government agency that promotes foreign investments into Finland. We assist international companies in finding business opportunities in Finland and provide all the relevant information and guidance required to establish a business in Finland.

**IOWA**

Locating in the center of the dynamic biorenewables industry can be the catalyst your business needs to succeed. Iowa’s central location in North America provides convenient transportation, access to an abundance of raw materials, a skilled workforce and a thriving business climate. Iowa offers the elements necessary for success. Start your Iowa experiment today. www.iowaeconomicdevelopment.com/business

**LEBAS Industries**

LEBAS Industries is an engineering company which designs, builds and commissions labs, pilots or plants. Thanks to its skills in process, utilities, building, automation, electricity and instrumentation, LEBAS is an EPCC/ EPCM contractor. Since 1977, LEBAS develops a process engineering and project management know-how applied to fermentation, separation, purification, concentration, drying... The nova-Institute uses and creates expert knowledge along with innovative solutions to develop and advance the use of Renewable Raw Material in Green Chemistry, Industrial Biotechnology and Bio-based Products. In research & development, nova has comprehensive contacts within the wide industrial and scientific network.

**NEN**

NEN, the Netherlands Standardization Institute, is the knowledge and information platform for standardization, regulation and certification for the international bio-based products sector. NEN oversees and supports the establishment of international standards and certification schemes and contributes as a partner in several standardization related European projects, including FBBIPS, OpenBio and InnProBio.

**BioEconomy Cluster**

The BioEconomy Cluster in Central Germany is advancing the sustainable use of non-food-biomass, especially beech wood, on the scale of a demonstrator-region for Germany and Europe. As part of the cluster network, more than 100 companies and research institutes are working to develop innovative processes for producing innovative wood products, platform chemicals, materials and energy sources in order to create a biobased economy. More information: www.bioeconomy.de

**Phage Consultants**

Novasep develops, markets, and operates innovative technologies to produce active molecules from lab to industrial scale for the life sciences industry. As specialist in solving purification challenges, we offer process development and optimization, as well as supply of pilot scale purification equipment and delivery of turn-key purification plants. We have a unique know-how and pool of technologies in separation and purification such as chromatography, ion exchange, adsorption, cross-flow filtration, electrodialysis, evaporation, crystallization, and enzymatic conversion. We can provide batch and continuous processes for applications such as salt conversion, demineralization, decolorization, separation, enzymatic reactions, concentration, crystallization, and recycling of chemicals. With Novasep, you will benefit from our process intelligence; coming from the cross-fertilization of our experience acquired within diverse applications, and backed by our expertise in both using and developing our own technologies.

**Scotland Development International**

Scottish Development International’s role is to assist Scottish-based companies develop their international trade and encourage inward investment. In 2013 Scotland launched its National Plan for Industrial Biotechnology – Towards a Greener, Cleaner 2025, which outlines Scotland’s ambition to grow industrial biotechnology related turnover to £900m by 2025.

**SmartQuimic**

SmartQuimic is a knowledge and science magazine for the chemical companies and professionals. It has in scope industrial and academic worlds specifically focusing the intersection of both worlds, acting as a dissemination and outreach platform. SQ spreads the value added by the chemical industry to our society tuned to the new times of social responsibility and the circular economy. SQ showcases a “Smart world” that skillfully blends Chemistry, Knowledge, Innovation, Sustainability and Ecoefficiency, to give “smart answers” to social and customer needs.

**The Team Finland network**

The Team Finland network promotes Finland and boosts Finnish enterprises abroad. The network brings together all services offered by state-funded actors which work for the internationalization of Finnish enterprises, advance investment development in Finland and promote Finland’s country brand.
Tekes is the most important publicly funded expert organisation for financing research, development and innovation in Finland. We boost wide-ranging innovation activities in research communities, industry and service sectors. Tekes promotes a broad-based view on innovation: besides funding technological breakthroughs, Tekes emphasises the significance of service-related, design, business, and social innovations.

TWB is a pre-industrial demonstrator which facilitates the interface between private companies and academics, offering R&D contracts from research to pilot scale (biocatalysis, synthetic biology, process engineering). Projects are in the field of biomaterials, chemicals and biofuels. Supported by a private/public consortium, TWB has set up leading edge technical support platforms to accelerate developments in Industrial Biotechnology.

VITO is an independent European research and consulting centre developing sustainable technologies in the area of energy, environment, chemistry, materials and remote sensing. VITO provides high quality solutions, offering a competitive advantage to companies. It also provides objective research, studies and advice enabling industry and government to establish future policies.

VTT is a technical research organisation that develops a wide range of research, consultancy and pilot infrastructure in the fields of biotechnology, thermochemistry and chemical processing. Our expert professionals and collaboration network gives you access to extensive intellectual capital.

Smithers Rapra is accepted as a world leading rubber, plastic and composite consultancy delivering a comprehensive and strictly independent service covering testing, analysis, processing, consultancy and research for the polymer industry and end-user industries such as Automotive, Industrial, Medical and Pharmaceutical, Consumer and Transport.

This conference provides an opportunity to network with customers and suppliers and learn about the various views and perceptions of the industry from many perspectives. However, it also brings together competitors in various markets, product lines and geographical regions. Because of this, conferences such as this can be the subject of close scrutiny by antitrust and competition law enforcement agencies. We feel it is prudent to remind our attendees at the outset of this conference that US antitrust laws and other national and local laws are applicable to the conduct that takes place at this conference. Each participant is responsible for their own conduct to ensure that they do not participate in any inappropriate conversations or exchanges of written or electronic material that would violate the antitrust and competition laws. The areas that could be deemed inappropriate discussion topics between or among competitors include discussions about current, pending or future pricing, customers, markets, strategic plans, margins, and products in development. This includes discussions about rebates, discounts, terms of sale or credit terms. It is inappropriate to discuss upcoming bids for business, allocation of customers, markets or regions. It is inappropriate to discuss capacity or rationalization thereof. It is inappropriate to discuss the possible boycott of a customer or supplier. It is inappropriate to discuss any plans or intent to dominate a market or to take joint action against a particular entity.

The presenters at this conference are sensitive to these issues and have crafted their presentations accordingly, but we need to be mindful of the appropriateness of our questions and answers that follow each presentation so as not to give the appearance of delving into any of the issues mentioned above. Antitrust and competition law enforcement is very active. We can conduct this conference in a meaningful, legal way so that the participants get the most out of their attendance, but at the same time keep communications within appropriate boundaries.

Thank you for your attention to these details and have a great conference!

Download a sample of the study on www.iarpolis.com
Organisers are excited to bring EFIB to Glasgow for the 9th annual event, it will be our first time in Glasgow, and EFIB will bring together the best of local innovations, alongside an international showcase of trailblazing companies who are driving bioeconomy forward.