



Defossilisation of the Chemical Industry

Lars Börger • [nova-Institute \(DE\)](#)

Future of Renewable Chemistry

Dorothee Arns • [FECC \(BE\)](#)

The Chemical Value Chain in Europe – Today and Tomorrow

Doris De Guzman • [Green D Market Analytics \(US\)](#)

Renewable Chemicals Market Update: Geopolitics, Protectionism, and Supply-Chain Realignment

Shena Britzen • [Rheinmetall \(DE\)](#)

How Giga PtX will Scale Hydrogen from Champagne to Commodity

Ann Zhang • [Carbon Strategy \(CN\)](#)

Chemical Industrial Park's Transition under The China's 15th Five-Year Plan – A Case Study

Gabriela Fedor • [Neste \(FI\)](#)

Under Pressure — Scaling Circular and Renewable Carbon for the Chemical Industry

Michael Carus • [nova-Institute \(DE\)](#)

& Peter Leonhardt • [Cargill \(DE\)](#)

Primary Biomass for Chemistry & Key Enabler of Europe's Circular Bioeconomy Through Integrated Biorefineries

Jerry Luo • [Leaf Bio \(CN\)](#)

Next-Gen Aromatics: Furan as a Bio-Based Platform

Petri Mast • [ETB Global BV \(NL\)](#)

Resilient and Renewable Industrial Technology for C4-Production: Bioethanol to Bio-Butadiene

Andreas Kohl • [Verbio \(DE\)](#)

New Plant Oil Based Value Chains Enabled by Metathesis: The First-Of-Its-Kind Ethenolysis Plant and Outlook on What is Next

Jörn Kiwitt • [Evonik \(DE\)](#)

Building Resilience in the Chemical Industry – The Rheticus® Process and Renewable Carbon

Marilyne Hurtado • [Michelin Engineered](#)

[Polymers \(FR\)](#) • New Bio-based and Non-Toxic Building-Block Molecules Available at Industrial Scale

Jean-Paul Lange • [University of Twente \(NL\)](#)

Cellulosic Ethylene Glycol – Economic Potential, Contaminants and Process Concepts

Martin Lindmeyer • [YNCORIS \(DE\)](#)

& Jörn Viell • [RWTH Aachen \(DE\)](#)

DeMoBio – Decentralized Modular Biorefinery-Container: Decentralized Pretreatment of Lignocellulosic Residues – Process Concepts & Techno-Economic Assessment

Fine and Specialty Chemicals – New Pathways

Natnael Behabtu • [IFF \(US\)](#)

Designed Enzymatic Biomaterials (DEB™) a Versatile Technology Capable of Providing Functional Performance Coupled with Advanced Renewable Carbon

Tanja Meyer • [Bio Base Europe Pilot Plant \(BE\)](#)

Transforming Organic Waste into Bio-based Succinic Acid

Christoph Wittman • [Saarland University \(DE\)](#)

From Biomass to Materials: Unlocking Renewable Carbon through Microbial Platform Engineering

Lignin Utilisation

Florian Diehl • [UPM Biochemicals \(DE/FI\)](#)

UPM's Lignin-based Materials: Driving Innovation and Sustainability

Justine Charmillot • [Bloom Biorenewables \(CH\)](#)

Preserving Nature's Chemistry to Enable High-Performance Renewable Materials

Balaji Sridharan • [VITO \(BE\)](#)

Reductive Lignin Depolymerization: A Carbon Efficient Pathway towards Biomaterials and Green Chemicals

Sari Rautiainen • [VTT \(FI\)](#)

Higher Value from Lignins by Tuneable Depolymerisation

CO₂ Utilisation

Sarah Lamaison • [Dioxycle \(FR\)](#)

From Lab Breakthrough to Commercial Deployment: Turning Carbon Emissions into Critical Chemicals

Balázs M. Hepp • [eChemicles \(HU\)](#)

An Industrial Use-case for Low-temperature CO₂ Electrolysis: CO₂ Utilization in Iron & Steel Refining

Valtteri Oksanen • [VTT Technical Research Centre of Finland \(FI\)](#) • Production of Succinic and Adipic

Acids from CO₂ and Ethylene via Electrochemical Carboxylation

Panel Discussion

Quadruple System Shock as Catalysts for Industrial Transformation

Marc Borghans • [ING \(NL\)](#)

Lars Börger • [nova-Institute \(DE\)](#)

Shena Britzen • [Rheinmetall \(DE\)](#)

Janine van Kampen • [Ministry of Economic Affairs and Climate \(NL\)](#)

Ivana Krkljus • [BASF \(DE\)](#)

Jean-Paul Lange • [University of Twente \(NL\)](#)

Volker Strauss • [UBA \(DE\)](#)

Joel Tickner • [Change Chemistry \(US\)](#)

Related Workshops

Day 1

Matthias Stratmann & Ángel Puente • nova-Institute (DE) • Getting LCA Right for Renewable Carbon: Methodology Challenges in Recycling and CCU

Day 2

Sarah Refai, Peter Stoffels • CLIB – Cluster Industrial Biotechnology (DE) • How to turn Lignin Valorisation into Success

Day 3

Hans-Peter Heim • University of Kassel (DE)
BeBio2: Durability of Bioplastics for Use in Technical Plastic Products – Overview and Discussion

Guillermo A. Reyes Torres • VTT (FI)
CO₂ Mineralisation as a Cross-sector Platform Chemistry: Functional Coatings, Carbon-storing Construction Materials, and Industrial Side-stream Valorisation

Overview Program

Day 1 • 22 September 2026

- Defossilisation of the Chemical Industry
- Fine and Specialty Chemicals – New Pathways
- Lignin Utilisation
- CO₂ Utilisation

Day 2 • 23 September 2026

- Fossil-free Plastics
- Bio-based, CO₂-based & Recycling
- Automotive, Consumer Goods, Packaging, Textiles & Toys

Day 3 • 24 September 2026

- Setting the Frame for Renewable Carbon
- Biodegradation



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Day 2
23 September 2026

Fossil-free Plastics

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Bio-based Polymers – Markets, Applications and Innovation

Michael Carus • [nova-Institute \(DE\)](#)

Renewable Polymers: Status and Outlook

Martin Clemesha • [Braskem Netherlands \(NL\)](#)

Bio-based Polyethylene Success Story: History, Status and Outlook

Geoffroy Delvinquier • [Futerra \(BE\)](#)

PLA Success Story: History, Status and Outlook

Roland Klein • [Fraunhofer LBF \(DE\)](#)

From Compostable to Capable: Tailoring Bio-based Polyesters via Additivation

Michaël van der Jagt • [polySCOUT \(NL\)](#)

Advancing Fossil-Free Polymers Through AI-Powered Polymer Development

Stefaan De Wildeman • [B4Plastics \(BE\)](#)

Swap or Scrap – Making Europe's New Biopolymers in its Existing Assets

Paul Stockmann • [Fraunhofer IGB \(DE\)](#)

Caramides – Monoterpene-based Polyamides Scaled for Fibres, Foams, and Cast Polyamides

Marcus Elmer • [Lixea Sweden \(SE\)](#)

High Performing Fibres from Annual Crops Through Ionic Liquid Fractionation

Pramod Shankar Kumbhar • [Praj Matrix-R&D Center \(IN\)](#) • From HA (Hyaluronic acid) to PHA (Polyhydroxy alkanoate)

Jouni Lattu • [VTT \(FI\)](#)

Novel PGA Barrier Polymer

Kazumitsu Suzuki • [AC Biode \(AT\)](#)

Biogenic and Biodegradable Superabsorbent Polymers

Adhesives & Binders

Michael Wilhelm • [Henkel \(DE\)](#)

Fuelled by Data, Driven by Markets – Henkel Adhesive Technologies' Renewable Carbon Pathway

Sanjay Wahal • [Decarbonization \(US\)](#)

Mycelium-Based Binders and Packaging Materials: High-Performance, Circular Alternatives for Hygiene and Spill-Control Applications

CO₂-based Polymers

Nick Smith • [Viridi \(UK\)](#)

New CO₂-to-Polymers Catalysts Made for the Industry We Have Today

Sergio Santos • [TECNALIA Research & Innovation \(ES\)](#)

Plastics Sustainability: Synthesis of CO₂- and Bio-based Polycarbonates and Polyurethanes

Bio-based Coating

Thomas Lueder • [Beckers Group \(DE\)](#)

How to Create a Pull for Renewable Coatings in the Construction Industry?

Tim Kidd • [Stahl \(NL\)](#)

Beyond the Surface: How Coatings Can Enable the Transition to Renewable Carbon

Sarvesh Poddar • [Sustanix Materialtech \(NL\)](#)

100% Solid Bio-Coating System to Replace Water/Solvent Based PFAS & Acrylate Systems

Recycled Polymers & Plastics

Delphine Largeteau • [Schneider Electric \(FR\)](#)

Open, Software-defined Automation as a Catalyst for the Sustainable Carbon Industry

Oliver Borek • [Entzimatiko \(ES\)](#)

Converting Polyolefins into Monomeric Building Blocks Using Enzymatic Machinery

Andreas Sommerfeldt • [Danish Technological](#)

[Institute \(DK\)](#) • From RePURpose to PURfection: Danish Innovation Towards a Fully Circular Economy for Polyurethane

Ulphard Thoden van Velzen • [Wageningen](#)

[University & Research \(NL\)](#) • Mechanical Recycling of PLA Based Food Packaging

Innovation Award

Michael Carus • [nova-Institute \(DE\)](#)

Innovation Award Introduction

Arthur Groh • [KUORI \(CH\)](#)

A RMC Success Story – Biobased and Biodegradable Elastomers for Abrasion-Critical Applications

Christoph Gürtler • [Covestro \(DE\)](#)

Importance of Innovation

Carmen Danner • [AeoniQ Holding \(CH\)](#)

Revolutionary New Cellulosic Man-made Filament Yarn

Fanny Liao • [Far Eastern New Century \(TW\)](#)

World's First Commercially Realised CO₂-based Non-Isocyanate Polyurethane

Akshaykumar Kompa • [Inst. for Bioengineering of Catalonia \(ES\)](#)

First Biomaterial Chitin Becomes Stronger in Water

Oskari Larkimo • [Kemira \(FI\)](#)

Breakthrough Renewable Polymer Technology for Wastewater Treatment

Vishal Patil • [UPM Biochemicals \(DE/FI\)](#)

World's First Bio-based Circular Renewable Black™

Nick Smith • [Viridi \(UK\)](#)

World's First Anionic Surfactant Made Using Upcycled CO₂

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Creating Market Pull

Janine van Kampen • Dutch Ministry of Economic Affairs and Climate (NL)

Critical Chemical Alliance – Lead Markets for Sustainable Carbon Products

Tristan Brown • Molecule Group (US)

An Industry-Driven Framework for Enhancing Sustainable Chemicals and Materials Market Access

Ivana Krkljus • BASF (DE)

Creating Market Pull Through the European Chemicals Resilience Initiative (ECRI)

Hans Ingels • DG Grow (BE)

Insights into Biotech Act II

Vision & Strategy

Marc Borghans • ING Bank (NL)

The Role of Finance: From Barrier to Enabler

Volker Strauss • Umweltbundesamt (DE)

A Sustainable Chemicals Economy – a Common Vision and the Need for New Collaborative Approaches

Anastasios Perimenis • CO₂ Value Europe (BE)

Quantifying the Role of CCU Towards Climate Neutrality in Europe

Sakari Saarela • UB FIGG (FI)

Equity Investor Perspectives on New Renewable Materials

Sergio Mastroianni • Syensqo (FR)

Bio-Industrial Revolution: Generating and Transforming Materials and Products to Sustainable Progress – Examples from Syensqo

Malte Niebelschuetz • Brands 4 Change (DE)

From Centralized Factory Hubs to Micro-Manufacturing, Rethinking Production for the Renewable Carbon Economy

Michael Carus • nova-Institute (DE)

Solar Energy and Renewable Chemistry

Related Workshops

Day 1

Berend Brehm & Patrick Kohl • Peterson

Solutions (DE) • From Compliance to Market Access: Certification for Renewable Materials 101

Sarah Bernhardt, Lukas Horndasch & Henrik Basche

PtX Lab Lausitz (DE) • Assessing Market-Pull Instruments for the EU Chemical Industry

Matthias Stratmann & Ángel Puente • nova-Institute

(DE) • Getting LCA Right for Renewable Carbon: Methodology Challenges in Recycling and CCU

Martin Clemesha • Braskem (BR/NL)

Creating a Balanced Regulatory Framework Between Renewable Energy and Materials

Day 2

Asta Partanen, Verena Roberts,

Anke Schwarzenberger & Christopher vom Berg

Renewable Carbon Initiative (EU)

Raising Awareness of Renewable Carbon – Global Developments and Communication Strategy

Tanja Meyer • Bio Base Europe Pilot Plant (EU)

Making Bio-Based Textiles Competitive: Policy Levers for Industrial Scale-up and Market Uptake

Kim Schoppink • Science Based Targets initiative

(SBTi) (UK) • From Ambition to Action: The New SBTi Corporate Net-Zero Standard

Janine van Kampen • Ministry of Economic Affairs

and Climate (NL) • Policy Options for Sustainable Carbon

Day 3

Wenda Van Uffelen • TÜV Austria (BE) • tba

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Science & Policy Progress

Theodora Nikolapoulou • European Commission (EU)

Biodegradability in EU Products Legislation: Case Studies of Fertilising Products and Detergents

Florian Matzka • bündnis Mikroplastikfrei & VÖA (AT)

Disposal – Overall Picture

Michael Sander • ETH Zürich (CH)

From Fundamentals to Function: Scientific Insights into Polymer Biodegradation

Jessica Mugleston • BASF (DE)

Digital Tools for Biodegradation

Applications

John Ryan • Sinclair Industries (UK)

Biodegradable Adhesives for Fruit Stickers

Julie Capsalas • LACTIPS (FR)

Enosis® by Lactips: Leveraging Biodegradability to Deliver High-Performance Bio-based Materials for Plastics Applications

Ryan Simkovsky • Algenesis Labs (US)

Biodegradation of Thermoplastic Polyester Polyurethanes Produces Microplastic-free, Plant-enhancing Compost Under Home Composting Conditions

System Solutions

Patrizia Marie Schmidt • BASF (DE)

Fragmentation of Soil-Biodegradable Mulch Film: The Difference Between Fragments Released from Certified Soil-biodegradable Products and Persistent Microplastics

Christian Lott • HYDRA Marine Sciences (DE)

Reducing Agriculture's Plastic Footprint: The Role of Biodegradable Plastics

Clayton Bungard • Kimberly-Clark (US)

Building the Case for Biodegradable Hygiene Products

Rick Passenier • NGF Biobased Circular (NL)

A Practice-driven Biodegradation Innovation Cluster for Biopolyesters and Renewable Materials

Related Workshops

Day 1

Yvonne van der Meer, Seunghye Lee

& Alonso Albalade Ramirez • Utrecht University (NL)

Advancing LCA: Circularity of Bio-based Materials and the Microplastics Challenge

Day 2

Pauline Ruiz & Asta Partanen • nova-Institute (DE),

Miriam Weber & Christian Lott • HYDRA Marine

Sciences (DE) • Rethinking Plastics in Agriculture and Forestry: The Role of Biodegradable Materials

Andreas Künkel & Patrizia Marie Schmidt • BASF (DE),

Miriam Weber & Christian Lott • HYDRA Marine

Sciences (DE) • Quantitative Assessment of Biodegradable Materials in LCIA: Challenges and Solutions

Day 3

Chiara Bearzotti • European Bioplastics (DE)

Rethink the Circularity of Your Products! From Biodegradability to Recyclability: Innovators Prove You Can Have Both.