



RENEWABLE MATERIALS CONFERENCE 2024

11-13 June • Siegburg/Cologne



Conference PROGRAM

Organiser



Register here: renewable-materials.eu/registration

Latest Update of the Program here: renewable-materials.eu/program

All information about the conference
(Participants, Exhibition, Sponsors, Partners): renewable-materials.eu



Day 1 • 11 June 2024 • 8:50–18:00 (CET)

Oliver Schmidt 9:00
Deputy Mayor of the City of Siegburg (DE)
Welcome to All Participants



8:50 **Michael Carus**
nova-Institute (DE)
Conference Opening

9:10 – 10:50

Main Session Future of Chemical & Plastic Industry Grand Hall

Chairpersons: Christopher vom Berg & Lara Dammer,
nova-Institute (DE)

9:10



Reinhold Lang
Johannes Kepler University Linz / Institute of
Polymeric Materials and Testing (AT)
Perspectives for an 'All-Circular' Plastics &
Carbon Economy – CO₂ as Renewable Feedstock
& New Industrial Commodity

9:30



Hans Rovers
New Normal Consulting (CH)
The Future of the European
Petrochemical Industry

9:50



Ivana Krkljus
BASF (DE)
The Net-Zero Chemical Industry of the Future
meets Transformation: Discussion and Opening
of New Perspectives

10:10



Lars Börger
Industry Insider (DE)
On the Chemical Industry of the
Future and Why it has Already Begun –
an Expert View

10:30

Panel Discussion with all Session Speakers

10:50 • Coffee Break



11:20 – 13:00

**Main Session
Circular Economy
& Renewable Carbon**

Grand Hall

Chairpersons: Michael Carus & Matthias Stratmann, nova-Institute (DE)

11:20



Mathias Kaldenhoff
SAP (DE)
From Design to Reverse – a Digital 360° View on Supply Chain

11:40



Dominik Müller
UPM Biorefining (DE/FI)
Working Towards a Net Zero Circular Economy for the Fashion and Sporting Goods Industry

12:00



Titta Rosvall-Puplett
SYENSQO (BE)
Accelerating SYENSQO's Sustainable Renewable Carbon Strategy

12:20



Patrick Glöckner
Evonik Operations (DE)
Collaboration now! Towards a Circular Economy

12:40

Panel Discussion with all Session Speakers

13:00 • Lunch Break

11:20 – 13:00

**Parallel Session
Fine Chemicals
& Functional Applications**

Small Hall

Chairpersons: Nadja Wulff & Ángel Puente, nova-Institute (DE)

11:20



José Barbosa
CeNTI – Centre for Nanotechnology and Smart Materials (PT)
Blue Economy Synergy: Transforming Marine Resources into Sustainable Fashion Solutions

11:40



Christian Hübsch
UPM Biochemicals (DE/FI)
UPM BioMotion Renewable Functional Fillers (RFF): A New and Innovative Material Class Designed to Increase Sustainability of Rubber and Plastic End-use Applications

12:00



Natnael Behabtu
IFF (US)
Sustainable Solutions that Transform Consumers' Lives and Experiences: Material Innovation, Designed Enzymatic Biomaterials Examples

12:20



Saugata Nad
Dow (BE/US)
Defining Future of Cleaning in Home Care – New Surfactants Enabling Lower Carbon Footprint of Cleaning Products

12:40



Alastair Sanderson
Unilever (UK)
Flue2Chem: Is CCU working?

13:00

Panel Discussion with all Session Speakers

12:30 – 14:00

Workshop

Room 1



Christopher vom Berg
nova-Institute/RCI (DE)
Presentation and Discussion of Instruments and Measures to Help Achieve Relevant Levels of Renewable Carbon in Chemicals and Materials in the EU within a Relatively Short Period of Time.



14:30 – 16:20

**Main Session
Circular Economy
& Renewable Carbon**

Grand Hall

Chairpersons: Michael Carus & Matthias Stratmann, nova-Institute (DE)

14:30



Fabien Ramos
DG Clima, European
Commission (EU)

European Perspective on Sustainable Carbon Management

14:50



Algreit Dume
DG Grow, European Commission (EU)

Transition Pathway: Towards a Competitive and Resilient EU Chemical Industry

15:10



Michael Carus
nova-Institute/RCI (DE)

Evaluation of Future Scenarios for the Chemical Industry, Biomass Availability and Competition to Sustainable Aviation Fuels

15:30



Philippe Dewolfs
TÜV Austria (BE)

Launch of the OK Renewable Carbon Share Certification Scheme

15:50

Panel Discussion with all Session Speakers

16:10



Philippe Dewolfs, TÜV Austria (BE)
Michael Carus, nova-Institute/RCI (DE)
Ceremony – First Products Receive the new Renewable Carbon Share Certificate

16:20 • Coffee Break

14:30 – 16:10

**Parallel Session
Adhesives & Coating**

Small Hall

Chairpersons: Nadja Wulff & Ángel Puente, nova-Institute (DE)

14:30



Adrian Brandt
Henkel (DE)

Progress and Challenges on the Transition Toward Renewable Carbon at Henkel Adhesive Technologies

14:50



Eric Brouwer
Cargill Bioindustrial (NL)

Bio-Based Solutions for High-Performance Coatings and Adhesives

15:10



Jacco van Haveren
Wageningen Food and
Biobased Research (NL)

Circular Design of Coatings and Composites

15:30



Thomas Lüder
Beckers-Group (DE)

Sustainable Raw Materials for the Coatings Industry – Opportunities from Segregated Supply Chains Versus Mass Balancing

15:50

Panel Discussion with all Session Speakers

15:00 – 16:30

Workshop

Room 1



Nils Freiberg
Federal Ministry for
Economic Affairs and Climate
Action (DE)

Lara Dammer
nova-Institute (DE)
Status of the German
National Biomass Strategy –
Towards Climate Action and
Sustainable Value Creation

**16:40 – 18:00**

Main Session Bio-based Economy in China

Grand Hall

Chairpersons: Asta Partanen, nova-Institute (DE)
& Gillian Tweddle, Stripe Consulting (BE)

16:40



Ann Zhang

nova-Institute (CN/DE)

The Progress and Insights of China's
Bio-based Polymer Market

17:00



Bernhard Urwyler

Zhejiang Sugar Energy Technology &
Urwyler ChemPro (CN/CH)

What Can we Learn from China to Accelerate the
Industrialisation of Bio-based Building Blocks?

17:20



Susan Zhu

Zhongke Guosheng Technology (CN)

Market Applications of Bio-Based Furan Materials

17:40

Panel Discussion with all Session Speakers

18:00

Networking and Beer on Tap
+ Poster Session

**19:30 • Dinner Buffet
in the Conference Centre**



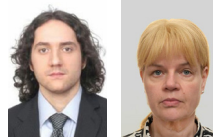
21:00 • Big Surprise

16:40 – 19:15

Parallel Session Future of European Chemical Industry

Small Hall

16:40



Algreit Dume & Maarit Nyman

DG Grow, European Commission (EU)

Workshop on the Transition Pathway for
the Chemical Industry

18:00



Ivana Krkljuš

BASF (DE)

Panel Discussion with Ivana Krkljuš, BASF (DE)

and five panelists: René Backes, DBFZ (DE), Raoul Meys, carbonminds (DE),
Christian Krüger, BASF (DE), Alastair Sanderson, Unilever (UK) and
René Bethmann, Vaude (DE): How to Accelerate the Market Penetration
of LowPCF Products?



Day 2 • 12 June 2024 • 9:00–18:00 (CET)

9:00 **Michael Carus**
nova-Institute (DE)
Day Opening

9:10 – 10:50

Main Session Building Blocks & Polymers

Grand Hall

Chairpersons: Achim Raschka & Pauline Ruiz,
nova-Institute (DE)

9:10



Pia Skoczinski
nova-Institute (DE)

Market Update on Bio-based Polymers:
Global Capacities, Production and Trends
2023–2028

9:20



Gillian Tweedle
Stripe Consulting (BE)
Algae-based Polymers

9:30



Doris De Guzman
Green D Market Analytics (US)
Renewable Chemicals 2024:
Bio-Manufacturing Build-Up

9:50



Alexander Krapivin
Royal Cosun (NL)

Galactaric Acid as a Platform Molecule
Based on Sugar Beet Pulp

10:10

Panel Discussion with all Session Speakers

10:50 • Coffee Break

9:00 **Lars Krause**
nova-Institute (DE)
Day Opening

9:10 – 10:50

Parallel Session Mechanical, Physical & Chemical Recycling

Small Hall

Chairpersons: Lars Krause &
Narendar Poranki, nova-Institute (DE)

9:10



Constance Ißbrücker
DIN CERTCO (DE)
A Certifier's Perspective on
Material Recyclability

9:30



Dimitri Daniels
GreenDot (DE)
Advanced Recycling of Mixed Plastic
Waste: the Future Lies in Intelligent
Combination of Processes

9:50



Lars Krause
nova-Institute (DE)
Update on Global Capacities for
Advanced Recycling

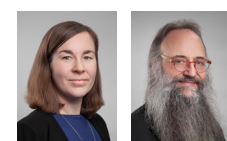
10:10

Panel Discussion with all
Session Speakers

11:00 – 12:30

Workshops

Room 1



Lara Dammer & Michael Carus
nova-Institute (DE)
Food- and Feed Biomass for
the Industry – Conflicts with
Food Security?

Room 2



Gillian Tweedle
Stripe Consulting (BE)
Alternative Naphtha –
replacing fossil based
feedstocks for refineries
and naphtha crackers

**11:20 – 13:00****Main Session
Building Blocks & Polymers****Grand Hall**Chairpersons: Achim Raschka & Pauline Ruiz,
nova-Institute (DE)

11:20

**Lars Knutstad**

Genomatica (US)

Geno BDO – Market Conditions Strengthen
Low Carbon Technologies

11:40

**Thomas Vössing**

Covestro (DE)

Bio-based Aniline: Scale-up of a Sustainable
Innovative Route to a Strategic Raw Material

12:00

**Maelenn Ravard**

Corbion (NL)

Lactic Acid Solutions for a More
Sustainable Future

12:20

**Daniel Zehm**Fraunhofer Institute for Applied
Polymer Research IAP (DE)Next Generation Bio-Based Thermoplastic
Polyester Elastomers Based on FDCA

12:40

Panel Discussion with all Session Speakers

13:00 • Lunch Break

Poster Session will take place during the Lunch Break

11:20 – 13:00**Parallel Session
Mechanical, Physical &
Chemical Recycling****Small Hall**Chairpersons: Lars Krause &
Narendar Poranki, nova-Institute (DE)

11:20

**Roy Visser**Avantium Renewable
Polymers (NL)

Recycling Opportunities for PEF

11:40

**Mathias Kirstein**

matterr (DE)

Meeting Product Quality and
Sustainability Targets in PET/Polyester
Applications Using Back-to-Monomer
Recycling

12:00

**Matthias Wilhelm
Lober (DE)**Alternative Waste Streams – Tackling
Unused Waste Streams by Dissolution
Recycling and Dedicated Sorting

12:20

**Florian Riedl**

APK (DE)

Decolorised LDPE Recyclates from Post-
Consumer Household Waste via the
Solvent-Based Newcycling Technology

12:40

Panel Discussion with all
Session Speakers**13:00 – 14:30****Workshops****Room 1****Dušica Banduka, Stefanie Fulda
& Guido Müller**

nova-Institute (DE)

Get your message through:
How to support your business
with nova's communications
tools and expertise**Room 2****Michael Carus & Project Team**

nova-Institute/RCI (DE)

RCI/BIC Project on Global
and European Availability of
Biomass from Agriculture
and Forestry in 2050

**14:20 – 16:00**

Main Session Building Blocks & Polymers

Grand Hall

Chairpersons: Achim Raschka & Ángel Puente
nova-Institute (DE)

14:20



Andreas Kohl
Verbio (DE)

How Can Existing Renewable Streams of Molecules be Utilised by the Chemical Industry? Existing Biorefineries and Their Extension – An Update on the VerbioChem Project

14:40



Maarten Rubens
VITO (BE)

Lignin Depolymerization and Upgrading Towards Sustainable Acrylic Based Materials

15:00



Katrin Eckhardt
amynova polymers (DE)

Making the Switch from Fossil- to Bio-based Film-Formers and Rheology Additives

15:20



Keith Wiggins
Econic Technologies (UK)

From Car Seats to Cleaning Products: Key Learnings From commercialisation of a CO₂ Utilisation Technology

15:40

Panel Discussion with all Session Speakers

16:00 • Coffee Break

14:20 – 16:00

Parallel Session Mechanical, Physical & Chemical Recycling

Small Hall

Chairpersons: Gillian Tweddle, Stripe Consulting (BE)
& Lars Krause, nova-Institute (DE)

14:20



René Bethmann
VAUDE Sport (DE)

Beyond Bottles: The Polyester Journey into Sustainable Feedstocks and Future Market Trends

14:40



Valerie Bloem
BlueAlp (NL)
Accelerating Plastic Recycling

15:00



Niels Jan Schenk
BioBTX (NL)
Chemical Recycling of Hard to Recycle Mixed Waste Plastics

15:20



Michael Carus
nova-Institute/RCI (DE)

RCI Position Paper on Chemical and Physical Recycling, Latest Status Mass Balance & Attribution

15:40

Panel Discussion with all Session Speakers



16:30 – 18:00

Innovation Award “Renewable Material of the Year 2024”

Grand Hall

Chairpersons: Asta Partanen & Michael Carus, nova-Institute (DE)

16:30

**Michael Carus**

nova-Institute (DE)

Innovation Award Introduction

16:40

**Eric Appelman**

Aduro Clean Technologies (CA)
Hydrochemolytic™ Technology (HCT)
for Advanced Plastic Recycling

16:50

**Ida Rask Kongsgaard**

Again (DK)

Acetic Acid and Other Chemicals
Derived from CO₂

17:00

**Katrin Eckhardt**

amynova polymers (DE)
Starch-Based Polymer
Family Amylofol®

17:10

**Balázs Miklós Hepp**

eChemicles (HU)

SolarCO₂ Value – Conversion of
Captured CO₂ to CO

17:20

**Josefin Larsson**

Reselo (SE)
Rubber Made from 100% Birch Bark

17:30

**René Bethmann**

VAUDE Sport (DE)

First-ever Wood-based Polyester
Textile Product

17:40

Voting

17:50

**Christoph Gürtler**

Covestro (DE)

Innovation Award Ceremony

18:00

Networking

19:00 • Meeting Point for Networking:
Sion im Carré, Neue Poststraße 15,
53721 Siegburg



Day 3 • 13 June 2024 • 9:00–15:30 (CET)

9:00 **Michael Carus**
nova-Institute (DE)
Day Opening

9:10 – 10:30

Main Session Consumer Perspective & Certification

Grand Hall

Chairpersons: Lara Dammer & Nicolas Hark,
nova-Institute (DE)

9:10



Patrick Van Waes
CovationBio PDO (BE/US)
Consumer Acceptance of Bio-based
Materials is key to the Shift to a Circular
Bioeconomy. A USA Footwear Consumer
Research Case Provides More Insights

9:30



Erica Ording
FrieslandCampina (NL)
A Brand Owner's Perspective: Barriers &
Opportunities for Bio-Based Materials

9:50



Asta Partanen
nova-Institute (DE)
Biomass Certification – a Solid Basis for
Reliable Sustainability Claims

10:10

Panel Discussion with all Session Speakers

10:30 • Coffee Break

9:00 **Pauline Ruiz**
nova-Institute (DE)
Day Opening

9:10 – 10:30

Parallel Session Biodegradation

Small Hall

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

9:10



Andreas Künkel
BASF (DE)
Polymer Biodegradability 2.0: A Holistic
View on Polymer Biodegradation in
Natural and Engineered Environments

9:30



Miriam Weber & Christian Lott
HYDRA Marine Sciences (DE)
The Path Through the Jungle to Realise
the Potential of Biodegradable Plastic in
the Environment – Towards a Catalogue
of Biodegradable Materials in Relevant
Conditions

10:10

Panel Discussion with all
Session Speakers

11:00 – 12:30

Workshop

Room 1



Olaf Porc, nova-Institute (DE),
Jurjen Spekrijse, BTG (NL) &
Myrna van Leeuwen, WECR (NL),
The Role of Certification in
Global Trade Flows in Bio-based
Value Chains



11:00 – 12:40

Main Session Policy Perspective

Grand Hall

Chairpersons: Lara Dammer & Nicolas Hark,
nova-Institute (DE)

11:00



Christopher vom Berg

nova-Institute / RCI (DE)

Work and Impact of the Renewable Carbon Initiative

11:20



Martin Clemesha

Braskem (NL/BR)

The Need of Harmonised Policies for Biofuels
and Biomaterials

11:40



Ivana Krkljus & Christian Krüger

BASF (DE)

How to Enable Business and Climate
Benefits While Going Circular?

12:00



Mauro Cordella

DG Env, European Commission (EU)

Policy Perspective on Bio-based and CO₂-based
Materials and Recycling

12:20

Panel Discussion with all Session Speakers

12:40 • Lunch Break

11:00 – 12:40

Parallel Session Recyclability of Bio- polymers, Focus: PHA

Small Hall

Chairperson: Rick Passenier,
GO!PHA (NL)

11:00



Rick Passenier

GO!PHA (NL)

Unlocking the Circular Potential:
Exploring the Recyclability of Biopolymers

11:20



Jan Pels

TORWASH (NL)

Chemical Recycling of PLA/PHA
Composites by TORWASH

11:40



Fred D. Pinczuk

Beyond Plastic (US)

Commercialisation of PHA Products
and Their Impact on Recyclability,
Current Infrastructure, and Solutions

12:00



Laurens Welles

Renewi (NL)

Organic Recycling Through Biorefinery

12:20

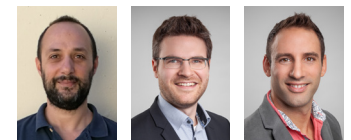
Panel Discussion with all
Session Speakers

13:00 – 14:30

Workshops

Room 1

Chairperson: Christopher vom Berg,
nova-Institute (DE)



Mauro Cordella

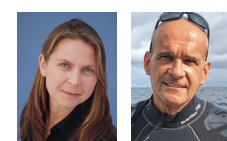
DG Env, European Commission (EU)

Matthias Stratmann &

Ángel Puente, nova-Institute (DE)

Workshop on LCA Methodology
for Bio-based, CCU and Recycling

Room 2



Miriam Weber & Christian Lott

Hydra Marine Sciences (DE)

The Science behind
Biodegradation – Implications
for Testing, Certification,
Policy, and Communication

**13:50 – 15:30****Main Session
Sustainability & Life Cycle Assessment****Grand Hall**

Chairpersons: Michael Carus & Nadja Wulff, nova-Institute (DE)

13:50

**Daniel Bochnitschek & Dominik Auer****AllocNow (DE) & Wacker Chemie (DE)**

Transparency at Scale: Automating Lifecycle Assessments in the Chemical Industry

14:10

**Verena Koch & Pauline Ruiz****Peter Greven (DE) & nova-Institute (DE)**

Bio-Based Oleochemicals Used as Lubricant Additives – Renewable Counterparts to Fossil-based Products and Comparative LCA

14:30

**Kathleen Meisel****DBFZ (DE)**

Sustainable Chemistry: Life Cycle Assessment of High-Demand Biopolymers for Petrochemical Substitution

14:50

**Jan Harm Urbanus****TNO (NL)**Pathways to Sustainable Plastics – A Comparative Analysis of Bio- and CO₂-based Feedstocks for Virgin Sustainable Plastics Production in Function of Application

15:10

Panel Discussion with all Session Speakers**15:30 • Final Get Together**



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