

8TH WORLD ELASTOMER SUMMIT

LYON - FRANCE

1st and 2nd March 2023

STRETCHING THE LIMITS OF SUSTAINABILITY

Key Topics

- Effects of Geopolitical Instability on Elastomer Supply Chains.
- Elastomer Design for Medical Applications.
- Achieving and Securing Sustainability in the Elastomers Industry.
- Understanding New Requirements for the Automotive Industry - Focus on Electric Vehicles.
- Recycling Elastomers and End-of-Life Tyres.
- Bio-based Elastomer Material Development.
- Innovations in Thermoplastic Elastomer (TPE) Formulations and Applications.
- Microplastics
- Multifunctional Elastomers and Smart Materials.

Sponsors



The Elastomer industry is seeing an unprecedented push towards sustainability and a drive towards NET Zero. This, however, leads to great challenges, as well as opportunities. The industry will need to adapt and overcome these challenges, to achieve new objects and developments, and ultimately must work together as a whole to ensure a smooth and thriving transition away from fossil materials.

ACI's 8th World Elastomer Summit will take place on 1st-2nd March 2023 in Lyon, France. The conference will bring together Elastomer production companies, petrochemical companies, technology providers, chemical intermediate suppliers, researchers and other influential stakeholders from the value chain.

The two day event will give you an insight on developments towards sustainability, including elastomer recycling and bio-based elastomers, as well as updates regarding supply chain, automotive requirements and smart materials, among other topics.



Agenda Committee

Chris Hardiman, Global Director of Technology, **Dynasol**
Herbert Fruhmman, Global Account Manager, **Nynas**
Niels van de Aar, Strategy Projects Manager, **Arlanxeo**
Ad van Oorschot, Director Sales & R&D, **Black Bear Carbon**.
Jiří Brejcha, Principle Consultant and Industrial Expert,
Brejcha Rubber Consulting

Who Will Attend?

- Petrochemical Companies.
- Chemical Companies.
- Feedstock and Rubber Suppliers.
- Elastomer Producers.
- Tyre Manufacturers.
- Plastic Compounders and Converters.
- Technology Providers.
- Research Centres, Institutes and Universities.
- Elastomer Consultants.

Registration Is Simple

If you would like to register for this event or wish to find out more information, you can contact **Marcin Janecki** using any of the following methods:

Tel: +48 61 646 7047

Email: mjanecki@acieu.net

Online: <http://www.acieu.net>

Conference Fees

Conference (Includes Documentation Packet) 1st & 2nd March 2023	£1,895 (Excl. VAT)
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Documentation Packet Only	£495
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Members and customers of all supporting organisations are entitled to a discount off their conference package.

Discounts are available for multiple/group bookings.

Opportunities to Meet Your Target Audience:

Showcase your technologies to the industry, with opportunities to demonstrate the capabilities of your latest products and services. Companies can gain direct access to our senior level audience and have an increased level of visibility and exposure through branding and networking at the conference. This will allow you to attract new business and forge lasting commercial relationships.

For information on available commercial opportunities, please contact:

Hubert Sosnowski

+48 604 460 170 - Hubert@acieu.net

Media Partners

DAY 1

Wednesday 1st March 2023

08:00 REGISTRATION & COFFEE

09:00 CHAIRMAN'S OPENING REMARKS



Chris Hardiman
Director of Technology
Dynasol

09:15 CONFERENCE PRESENTATION Contexts of Geopolitical Instability on Elastomer Supply Chains

- Supply issues of raw materials caused by the Russia-Ukraine crisis and sanctions.
- Potential issues from a possible future China-Taiwan crisis.
- Carbon black shortages for the tyre industry.
- Oil and gas feedstock issues.
- Polybutadiene (BR) and isobutene-isopropene (IIR) supplies.
- Brief overview of alternative sources of feedstock and raw materials.
- Looking into the positive impact of the sanctions for the EU market and increasing focus on sustainability.



Jiří Brejcha
Principle Consultant and
Industrial Expert
Brejcha Rubber Consulting

09:45 Presentation Q&A

09:55 SESSION ONE Bio-based Elastomer Material Developments

- Bio-sourcing of monomers, butadiene made from ethanol and routes to achieve this.
- Technical and economic viability of natural rubber.
- Standardisation issues, as well as class of material. Bio-based elastomers have different chemistries and require different classifications.
- Bio-based paving materials, with elements of sustainability, reducing levels of hydrogen sulphide.

Recycled Bio-Based and Low Toxicity Paving Materials



Chris Hardiman
Director of Technology
Dynasol

Development of Light Weight Polysaccharide Reinforced Elastomer Composites



Ulrich Giese
Managing Director
**German Institute for Rubber
Technology**

10:55 Panel Q&A

11:10 MORNING REFRESHMENTS

11:40 SESSION TWO Achieving and Securing Sustainability in the Elastomers Industry

- Expectations from the market and customers.
- How are regulations being tailored towards a more sustainable supply and circular value chains.
- What are reliable sources and what is the technology to bet on? What makes sense on a larger scale?
- Challenges to get rid of fossil raw materials, by replacing with commercially viable and renewable alternatives. How to realistically achieve Net Zero Status.
- How do we change public perspective, to make the final customer accept that sustainable products will be more expensive?



Philippe Lodefier
R&D Business Development
Director
TotalEnergies

Antonia Albers
Technical Service EMEA
Lanxess

Fabio Bacchelli
Head of Technical Management,
Tyre, Styrenics Modification & Latex
Versalis

13:10 Panel Q&A

13:30 LUNCH

14:30 SESSION THREE Understanding New Requirements for the Automotive Industry - Focus on Electric Vehicles

- Converting to EV's consumes tyres at a quick rate, and will get quicker. EV fleets require greater durability from their tyres, requiring innovations to elastomers to avoid tyre wear-out and cold weather issues.

- EV fleets change what parts need to be made, and increased focus on saving weight. Different seals, solutions and applications are required.
- Requirements for tyres, automatic driving, rolling assistance. What are the requirements for polymers and tyres for the industry, and different developments within the industry.



Nicole Holzmayer
Area Sales Manager
Hoffman Mineral GmbH

Massimo Cialone
Chief Compounder
Specialist
Hankook Tire

16:00 **Panel Q&A**

16:20 **AFTERNOON REFRESHMENTS**

16:50 **SESSION FOUR** **Recycling Elastomers and End-of-Life Tyres**

- Benefits of Recovered Carbon Black and oil generated, used in a circular fashion. What scale is possible from a commercial and sustainability perspective?
- Products to aid recycling, end-of-life tyres.
- Innovations where recycling can allow greater conversion, and replacements for bitumen.
- How can polymers be recycled, and allow for best carbon to be re-used.



Ad van Oorschot
Director Sales and R&D
Black Bear Carbon

17:50 **Panel Q&A**

18:05 **CLOSE OF DAY ONE**

DAY 2

Thursday 2nd March 2023

08:30 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**



Chris Hardiman
Director of Technology
Dynasol

09:05 **SESSION FIVE** **Elastomer Design for Medical Applications**

- New TPE innovations in medical applications.
- Manufacturing requirements and trends.
- Discussing the medical elastomer industry demands, new innovations and market developments.
- Silicone, EPDM, FFKM and Nitrile elastomer advances.
- New, sustainable raw materials considerations.



Richard Spontak
Professor
North Carolina State University

10:05 **Panel Q&A**

10:20 **MORNING REFRESHMENTS**

10:50 **CONFERENCE PRESENTATION** **Microplastics**

- End-of-life microplastics, What is the environmental impact? What should be done?
- Tyre tread loss, where does it end up? Different solutions and pathways.



Anke Blume
Professor - Elastomer
Technology and Engineering
University of Twente

11:20 **Presentation Q&A**

11:30 **SESSION SIX** **Innovations in Thermoplastic Elastomer (TPE) Formulations and Applications**

- Versatility and unique properties of thermoplastic elastomers.
- Advancements in thermoplastic elastomer processing and formulation.
- Discussing TPE in the Automotive, Electrical, Medical and Industrial applications.

Ryohei Akatsuka
TPE Sales & Marketing
Asahi Kasei

12:30 **Panel Q&A**

12:50 **LUNCH**

13:50 **SESSION SEVEN**
Multifunctional Elastomers and Smart Materials

- Additional properties for elastomers and benefits.
- Challenges to find new materials with composites, new combinations of material that need to be researched, and finding the right combinations.



Andraž Rešetic
Researcher
Jozef Stefan Institute



Senentxu Lanceros-Mendéz
Research Professor, Scientific Director
BCMaterials

14:50 **Panel Q&A**

15:05 **CHAIRMAN'S CLOSING REMARKS**



Chris Hardiman
Director of Technology
Dynasol

15:15 **END OF CONFERENCE & AFTERNOON REFRESHMENTS**