

6TH WORLD ELASTOMER SUMMIT

27-28 March 2019 - Lyon, France

KEY TOPICS

- Elastomers Market Dynamics
- Enhancing Sustainability & Circular Economy in the Elastomer Industry
- Natural & Bio-based Rubbers
- Traditional Elastomers Production
- Adopting a Holistic Approach to Recycled Elastomers
- Elastomer Production Technologies
- A deeper look into Thermoplastic Elastomers
- Maximising Tyre Design & Production
- The Future of the Automotive Industry
- Other & Non-Traditional Applications for Elastomers

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Hubert Sosnowski T. +48 61 646 7059 / E. hubert@acieu.net
Joachim Knight T. +48 61 646 7049 / E. joachim@acieu.net



With the ever pressing **sustainability & circular economy targets**, and the **expected evolution in the automotive industry**, the elastomers industry is facing changes in the near future.

It will not only **need to adapt** to these new objectives & developments, but also **work together as a whole** to ensure a **smooth & thriving transition**.

These changes, along with other pressing matters in the industry, will be addressed during ACI's **6th World Elastomer Summit**, taking place in **Lyon, France**, on the **27th & 28th March 2019**.

Over the two days, the participants will discuss the most urgent and current questions of the industry, from **feedstocks, natural rubbers, elastomers production, TPE, to tyre design, technologies and other applications for elastomers**.

This new edition will bring together **senior executives from petrochemical companies, elastomers & rubbers producers, end-products manufacturers, technology providers, chemical intermediate suppliers, researchers**, as well as other influential stakeholders from the value chain.

Join us in Lyon for two days of exchanging perspectives, learning and excellent networking opportunities with your peers.

Agenda Committee

For this 6th edition of the event, we have gathered some key industry players to form an advisory committee and help us build the conference agenda, on top of our research.

- Herman Dikland, Head of Business Line NBR/HNBR, BU High Performance Elastomers, **Arlanxeo**
- Dr. Gerard van Doremale, Head of R&D - BL Keltan Elastomers, **ARLANXEO**
- Chris Twigg, Product – R&D, **Black Bear Carbon**
- Chris Hardiman, Global Director of Technology, **Dynasol**
- Jiří Brejcha, Material development, **Trelleborg Wheel Systems**
- Malte Wohlfahrt, Leader ESBR/HCBR Synthetic Rubber R&D, **Trinseo**

Opportunities to Meet your Target Audience



Showcase your technologies to the industry and demonstrate the capabilities of your latest products and services; gain direct access to our senior level audience and have an increased level of visibility & 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 61 646 7059 /
hubert@acieu.net

or **Joachim Knight** +48 61 646 7049 /
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Who Will Attend?

- Oil & Gas / petrochemicals / chemicals companies
- Feedstocks / rubber suppliers / chemical & commodity trading / elastomer producers
- End product manufacturers / Tyre producers / Plastic compounders and converters
- EPC / technology providers
- Research centres and institutes
- Universities / petrochemical & chemical consultants
- Policy / regulation / environmental institutions

Speaking Opportunities

If you would like to be considered as a speaker at the event, for a 20-30mins presentation, please submit an abstract for consideration to:

Lauriane Pardoux +44 20 3141 0632 /
lpardoux@acieu.net

Registration is Simple

If you would like to register for this event or wish to find out more information, please contact:

Rafael Krupa +48 61 646 7040 /
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DAY 1

Wednesday 27th March 2019

08:00 **REGISTRATION & COFFEE**

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



Stephen Pask
Consultant
StePaDa Consulting

09:15 **CONFERENCE PRESENTATION**
Global Elastomer Outlook and Feedstock Development

- Elastomer market dynamics
- Profitability performance
- Feedstock development



Xuesong Peng
Senior Consultant, Energy &
Chemicals Advisory
Nexant

SESSION ONE Natural & Bio-based Rubbers

10:00 ▪ **Natural rubber and alternatives market outlook**

- Market overview and predictions on natural rubber
- Exploring alternative sources to NR (TKS, Guayule and polyisoprene rubber)



Dr. Maria Gyftopoulou
Senior Economist
LMC Tyre & Rubber

10:30 ▪ **Modification of Natural Rubber for Enhanced Performance**

- Natural Rubber is a sustainable and renewable elastomer
- Epoxidized Natural Rubber (Ekoprena™), based on Natural Rubber, is a versatile elastomer with many of the benefits of NR but with enhanced
- Improved filler dispersion in Ekoprena™ gives reduces rolling resistance and improves wear performance in tyres
- Moderation of rubber filler interaction by water at the tyre – road interface also allows improved wet grip
- Ekoprena™ is commercially available, being produced in Malaysia under license from the Malaysian Rubber Board



Stuart Cook
Director of Research
TARRC

11:00 **Panel Q&A**

11:15 **MORNING REFRESHMENTS**

SESSION TWO

Enhancing Sustainability & Circular Economy in the Elastomer Industry

11:45

- **A Techno-economic feasibility analysis of the gasification of used tires for energy generation**
- A techno-economic feasibility analysis for a 5 MWe scrap tire granules gasification facility will be presented
- It is demonstrated that the best thermochemical option for waste tire disposal and energetic valorization is gasification using a mixture of preheated air and steam as the gasification agent
- The best gasification technology is shown to be the circulating fluidized bed technology
- Electricity generation is based on gas engines with the option of waste heat recovery
- The study assesses the regulatory and financial conditions for which the project is both technically and economically feasible



Iskender Gökalp
Founder & Director
Institute on Combustion,
Aerothermal Sciences,
Reactivity & Environment
(ICARE)
CNRS

12:15

- **Taking the Next Step: Non-mineral oil tyre & rubber plasticisers**



Kamyar Alavi
Senior Technical Advisor
Nynas

12:45

- **TPV – Enabling growth in a responsible manner**
- Beyond its demonstrated performance, TPV offers a good fit with sustainability trends
- TPV enables you to do more with less when producing parts: less energy, less complexity, less waste versus traditional thermoset rubber
- Collaboration in design and innovation can help the value chain on its zero waste journey



Maxime Katgely
Global Automotive Market
Development Manager
ExxonMobil Chemical

13:15

Panel Q&A

13:35

LUNCH

SESSION THREE

Traditional Elastomers Production

- 14:35
- **Therban HT for higher temperature resistance**
 - Vast improvement of thermal resistance of HNBR compounds
 - Ageing mechanism



Herman Dikland
Head of Innovation
BU High Performance Elastomers
Arlanxeo

- 15:05
- **The Flash DSC - A Novel Method for the Characterization of the Kinetics of Crystallization**
 - Ultrafast scanning calorimetry
 - Kinetics of crystallization
 - Sensor on a chip



Claus Wrana
Head of R&D
REX Articoli Tecnici

15:35 **Panel Q&A**

15:50 CONFERENCE PRESENTATION TPE materials for the automotive industry today and in the future

- The use of TPE materials in the automotive industry (definition, segmentation & application)
- Today's challenges for TPE materials:
- Closing The gap with EPDM
- Impact of electrical vehicles and autonomous car driving
- TPE in combination with engineering plastics



Ger Vroomen
Senior Market Manager Automotive
Teknor Apex

16:35 **AFTERNOON REFRESHMENTS**

SESSION FOUR Elastomer Production Technologies

- 17:05
- **Versalis new highly versatile catalyst system and EP(D)M improvements**
 - New Dutral grades
 - Examples of Dutral performances in different applications



Patrizia Piancastelli
Business Unit Elastomers - TMAT - EP(D)M
Versalis

- 17:25
- *Presentation title to be announced*



Richard Kretz
Sales Engineer
Leistritz Extrusionstechnik

- 17:45
- **Effect of process oil and polymer macrostructure on the processability of filled e-SBR compound: Characterization of linear and non-linear viscoelastic behavior of raw rubbers and compounds**



Michele Scacchi
Field Application Engineer
Alpha Technologies

- 18:05
- **CARBONX: A revolutionary new carbon - Unlocking new design opportunities in elastomers**



Laure Hannebicque
Head of QAQC
CarbonX

18:25 **Panel Q&A**

18:45 **CLOSE OF DAY ONE & DRINKS RECEPTION**

DAY 2

Thursday 28th March 2019

08:30 **REGISTRATION & COFFEE**

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



Stephen Pask
Consultant
StePaDa Consulting

09:05 **CONFERENCE PRESENTATION
New Developments in SEBS based TPE's for Medical Applications: Elastic Films, Fibers and Tubes**

- **New Developments in SEBS based TPE's for Medical Applications: Elastic Films, Fibers and Tubes**



Chris Hardiman
Global Director of Technology
Dynasol

09:50 CONFERENCE PRESENTATION Micronized Rubber Powder in Elastomeric Formulations: Successes & challenges in a Circular Economy environments

- From end of life tires to Micronized Rubber Powder
- Formulation of Elastomers: How to include MRP in our formulations
- Processing and scale-up
- Success stories and challenges



Anton De Castro Villamil
Business Development Performance
Materials EMEA
Lehigh Technologies

10:35 MORNING REFRESHMENTS

11:05 CONFERENCE PRESENTATION Maximising Tyre Design & Production

- Examining new design trends for tyres
- Incorporating recyclability into design
- Using recycled elastomer for tyres
- Assessing the impact of tyre production on the environment



Jiří Brejcha
Material Development
Trelleborg Wheel Systems

11:50 OPEN DISCUSSION The Future of the Automotive Industry

- How is the elastomer industry anticipating & planning to cope with the next developments of the automotive industry
- The implications of moving towards battery electric vehicles on the elastomer industry
- Challenges & opportunities of autonomous driving – sensors, fleet vs. privately operated cars...

The speaker will give a short - approx. 15mins, presentation before starting the discussion



Sergio Corona Galvan
Advanced Technology Manager
Dynasol

12:35 LUNCH

SESSION SIX Other & Non-Traditional Applications for Elastomers

13:35

- Low Emission and Low Migration EPDM- and NBR-Polymers for highly demanding Applications



Robert Stäber
Head of TSAD EPDM / NBR
BU High Performance Elastomers
Arlanxeo

14:05

- PNR (polynorbornene rubber) combinations
- The PNR polymer, history, limitations and new options in the future
- Improvement of the usage temperature from < 70 to 110°C
- Protection of the double – bonds in PNR against Ozon, UV and Oxidation
- Comparison of peroxide cure vs. sulfur cure



Gerhard Karall
COO
D-NOV

14:35

Panel Q&A

14:50

CHAIR'S CLOSING REMARKS



Stephen Pask
Consultant
StePaDa Consulting

15:00

END OF CONFERENCE & NETWORKING REFRESHMENTS



Registration is Simple

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

+48 61 646 7040

rafael@acieu.net

<http://www.acieu.net>

Postal Address:
ACI Europe, 10 Gough Square, London, EC4A 3DE

Registration is Simple

Conference (Includes Access to All Documentation)
27th & 28th March 2019

£1,695
(Excl. VAT)

Documentation Packet Only

£470.00

Please Note.

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call Rafael on +48 61 646 7040

Documentation Packet Available

We are selling World Elastomer Summit papers at just £440 (+£30 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

Terms & Conditions

Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call Rafael Krupa on +48 61 646 7040 for more information.

Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

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