

THURSDAY FEBRUARY 11

 Sustainable Materials
VIRTUAL HALL A

 Health & Safety
VIRTUAL HALL B

 Processing
VIRTUAL HALL C

Program is subject to change

| | | | | | | |
|---------------|---|--|--|--|--|---|
| 8:30 - 10:00 | REGISTRATION | | | | | |
| 10:00 - 10:20 | OPENING CONFERENCE: Philippe DABO - AFICEP & Matthew THORNTON - IRCO | | | | | |
| | SESSION CHAIRMAN: Philippe DABO - AFICEP | | SESSION CHAIRMAN: Sandrine ANDRÉ - Plateforme CANOE | | SESSION CHAIRMAN: Bruno MARTIN - AFICEP | |
| 10:20 - 10:45 | Nanofibrillated Cellulose as a Special Type of Renewable Material as Filler for Lightweight Elastomers | Ulrich GIESE DIK GERMANY | Social Responsibility, Health and Environment: A Global Worldwide Policy of Sustainable Management of Chemical Substances | Philippe ROLLAND GROUPE RENAULT FRANCE | How to Reduce your Waste and Improve your Profitability? | Isabelle YARZABAL MLPC INTERNATIONAL FRANCE |
| 10:45 - 11:10 | Biobased Synthetic Rubbers and TPEs Based on Myrcene | Philippe ZINCK UCCS – UNIVERSITÉ DE LILLE FRANCE | Rubber Reinforcement by In-situ Generated Non Isocyanate Polyurethane (NIPU) for Lightweighting | Laina GUO HUTCHINSON CRI FRANCE | HSM: A Rubber Recycling Solution | Rodrigo DIAZ REP INTERNATIONAL FRANCE |
| 11:10 - 11:35 | Towards a European Dandelion Rubber Supply Chain! | Michel DORGET CTTM FRANCE | Imerys Technical Mineral Fillers for Reduced Environment Impact in Rubber Applications | Juliette CAUCHY & Gilles MELI IMERYS FRANCE | Environmental Challenges Related to Silicone Rubber Processability | Marie MANGAVEL HUTCHINSON CRI FRANCE |
| 11:35 - 12:00 | Design and Preparation of Functionalized Elastomer from Itaconic Acid Resource | Runguo WANG BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY - CHINA | Micro Rubber Quantification Using Raman Microscopy | Morten NORMANN-FYHN DANISH TECHNOLOGICAL INSTITUTE DENMARK | Evaluating the Processing Properties of Natural Rubber Composites for Paper Coating Applications | Pieter SAMYN HASSELT UNIVERSITY BELGIUM |
| 12:00 - 13:30 | VIRTUAL LUNCH BREAK, EXHIBITOR BOOTH VISIT | | | | | |
| | SESSION CHAIRMAN: Karine MOUGIN - IS2M-Université de Haute Alsace | | SESSION CHAIRMAN: Pierre GABEFF - AFICEP | | SESSION CHAIRMAN: Edith PEUVREL-DISDIER - CEMEF-MINES ParisTech | |
| 13:30 - 13:55 | Improving the Processing Properties of SBR-Silica Compounds by the Addition of Neuburg Siliceous Earth | Carine LEFÈVRE XATICO BENELUX FRANCE LUXEMBOURG | Societal Acceptability of Technological Innovations: What Future for Plastics and Rubber? | Brigitte LAQUIEZE ACADÉMIE D'AGRICULTURE DE FRANCE | Improving the Cure Performance of Ultra Accelerators Using a New Thiazole Free, Nitrosamine Safe Delayed Action Curative | Ranvir VIRDI ROBINSON BROTHERS U.K. |
| 13:55 - 14:20 | An Overview of CIRAD and Partners' Research Activities to Address the Question of the Variability of Latex and Natural Rubber Quality | Céline BOTTIER CIRAD FRANCE | Non Eco-toxic Zinc Activator for Rubber to Provide Sustainable and Environmental-friendly Materials | Arnaud PIPERS SLOX BELGIUM | Energy Consumption and Quality-Productivity Compromise in Rubber Molding | Rémi DETERRE UNIVERSITÉ DE NANTES FRANCE |
| 14:20 - 14:45 | ARBOCEL® natural cellulose fibers for sustainable rubber composites | Kim FLAIG J. RETTENMAIER & SÖHNE GERMANY | The Energy Transition Journey Towards a Downstream Sustainable Future | Miguel Angel GARCIA GARREÑO & Gloria MONTEALEGRE GARCIA REPSOL TECHNOLOGY LAB RLESA: SPECIALTIES BUSINESS SPAIN | Ecological Design of Nitrile Glove Production: Quantifying the Benefit of a New Nitrile Emulsion Production | Tangi SENECHAL MATERIANOVA / SYNTHOMER BELGIUM / U.K. |
| 14:45 - 15:05 | VIRTUAL COFFEE BREAK, EXHIBITOR BOOTH VISIT | | | | | |
| 15:05 - 15:30 | Towards a European Guayule Rubber Supply Chain! | Michel DORGET CTTM / GUATECS FRANCE | Ecodesign: As Solution to Control Environmental Impacts of Polymers through their Entire Life Cycle? | Carole CHARBUILLET ENSAM FRANCE | Improving Physical Properties of Rubber Compounds Containing Devulcanized Rubber | Frank PAPPAS ACE PRODUCTS & CONSULTING U.S.A. |
| 15:30 - 15:55 | Factice, a Bio-based Additive for Rubber Industry | Élodie MICHEL LEFRANT RUBCO FRANCE | How to Face the Challenges of the Ecological Transition by Integrating Environmental Impact Measures, Eco-design and Eco-innovation? | Claire JACQUET-LASSUS APESA FRANCE | Modelling of Reversion Effects in Injection Molding Process | Timo GEBAUER SIGMA ENGINEERING GERMANY |
| 15:55 - 16:20 | The Best of Two Worlds: Conventional and Hybrid Renewable Naphthenic Oils as Plasticisers for Rubber Materials | Kamyar ALAVI NYNAS SWEDEN | | | | |
| 16:20 - 17:00 | VIRTUAL POSTER SESSION, EXHIBITOR BOOTH VISIT | | | | | |
| | POSTERS | | | | | |
| | Effect of Devulcanized Rubber on Thermal and Mechanical Properties EPDM and NR Rubber Blends | | Halit L. HOŞGÜN | | BURSA TECHNICAL UNIVERSITY / HAKSAN OTOMOTIV - TURKEY | |
| | The Rubber Impact Project: Modern Industrial Skins and Direct Material Reuse of Inner Tubes | | Mandana MacPHERSON | | CALIFORNIA COLLEGE OF THE ARTS - U.S.A. | |
| | Re-Use of Rubber Waste for EPDM Based Compounds | | Yasemin DURMUS | | STANDARD PROFIL - TURKEY | |
| | Characterization of the Degradation of Elastomeric Gasket by Accelerated Ageing | | Chloé SIMET | | CNRS/IS2M - France | |



FRIDAY FEBRUARY 12

Properties & Environmental Impact Performances

VIRTUAL HALL A

Applications & Use

VIRTUAL HALL B

End of Life of Rubbers

VIRTUAL HALL C

Program is subject to change

| | | | | | | |
|---------------|---|---|--|--|--|--|
| 8:30 - 9:00 | REGISTRATION | | | | | |
| | SESSION CHAIRMAN: Emmanuel RICHAUD - PIMM-ENSAM Paris | | SESSION CHAIRMAN: Alfredo DEFRANCISCI - ARKEMA | | SESSION CHAIRMAN: Rémi DETERRE - GEPEA-Université de Nantes | |
| 9:00 - 9:25 | Influence of Network Structure in Rubber Elasticity | Fernando MARTÍN SALAMANCA INSTITUTO DE CIENCIA Y TECNOLOGÍA DE POLÍMEROS SPAIN | Environmental and Regulatory Issues on Polymer Materials Applied to the Automotive Industry - PSA Expectations and Needs | Maurice CARFANTAN & Sophie RICHET PSA GROUPE FRANCE | Feasibility of Real De-vulcanization for Elastomer Products | Jacques W. M. NOORDERMEER UNIVERSITY OF TWENTE NETHERLANDS |
| 9:25 - 9:50 | Levapren® NPG - a Functional EVM as Impact Modifier in Biodegradable Thermoplastic Materials | Andreas KAISER ARLANXEO GERMANY | Ethylene Acrylate Elastomers – A Perfect Fit for Requirements in E-Mobility | Serge BOUVIER DUPONT U.S.A. | A Multi-instrumented Device to Study the Mechanical Devulcanization of Rubber as a Recycling Process | Nicolas CANDAU CENTRE CATALÀ DEL PLÀSTIC SPAIN |
| 9:50 - 10:15 | New Struktrol Plasticizers for Improved Service Life of Tire Curing Bladders | Eleonora DOEHL SCHILL + SEILACHER "STRUKTOL" GERMANY | Damping Materials Based on Liquid Poly(butadienes): Structure-Property Relationships | Olivier DEFRAIN TOTAL CRAY VALLEY FRANCE | Evaluation of Microbial Behavior by Wood Rotting Fungi for Recycle of Rubber Wastes | Shin SATO TOTTORI UNIVERSITY OF ENVIRONMENTAL STUDIES JAPAN |
| 10:15 - 10:45 | VIRTUAL COFFEE BREAK, EXHIBITOR BOOTH VISIT & POSTER SESSION | | | | | |
| 10:45 - 11:10 | Simultaneous Dynamic-mechanical and Dielectric Analysis to Improve Understanding of the Behavior of Elastomeric Materials During Application | Sahbi ALOUI NETZSCH GERÄTEBAU GERMANY | A New Fluoroelastomer Precompound for Improved Durability in the Most Demanding Turbocharger Hose Applications | Éric CHAUVIGNÉ CHEMOURS INTERNATIONAL OPERATIONS U.S.A. | Optimising the Revulcanization of Solid-state Shear Milled (S3M) Rubber | James Robert INNES UNIVERSITY OF BRADFORD U.K. |
| 11:10 - 11:35 | New Insights in the Structure-Property Relationships of CNT-Rubber | Juan LOPEZ-VALENTIN INSTITUTO DE CIENCIA Y TECNOLOGÍA DE POLÍMEROS SPAIN | Development of EPDM Rubber Compounds to Enable Automotive Lightweighting | Varun THAKUR DOW EUROPE U.S.A. | End of Life Tyres - An Alternative to Devulcanization to Obtain a New Raw Material | Pamela PASETTO UNIVERSITÉ DU MANS FRANCE |
| 11:35 - 12:00 | Understanding the Effect on Cross-linking on the Self-healing Ability of Epoxidised Natural Rubber (ENR) | James BODEN UNIVERSITY OF BATH U.K. | New Generation of Renewable Functional Fillers for Automotive Light-weight Applications | Florian DIEHL UPM GMBH GERMANY | Advanced Characterization of Recycled Rubber from End-of-life Tyres | Roberto PÉREZ-APARICIO SIGNUS ECOVALOR SPAIN |
| 12:00 - 13:30 | VIRTUAL LUNCH BREAK, EXHIBITOR BOOTH VISIT & POSTER SESSION | | | | | |
| | SESSION CHAIRMAN: Emmanuel RICHAUD - PIMM-ENSAM Paris | | SESSION CHAIRMAN: Philippe DABO - AFICEP | | SESSION CHAIRMAN: Pierre GABEFF - AFICEP | |
| 13:30 - 13:55 | Influence of Formulation and Processing Conditions on Network Structure, Material Properties and Lifetime under Dynamic Load of Sulfur Cross-linked NR/BR | Franziska KIRSCH FRAUNHOFER INSTITUTE FOR STRUCTURAL DURABILITY AND SYSTEM RELIABILITY LBF GERMANY | Improvement of Low Dense EPDM Based Compound for Sealing System for Vehicles | Yusuf GÜNER STANDARD PROFIL TURKEY | Recycling End-of-life Tyres into High-performance Materials Through Innovative Valorization Methods | Nicolas SCHÜWER TYRE RECYCLING SOLUTIONS SWITZERLAND |
| 13:55 - 14:20 | « Basalt Fiber Reinforced EPDM Composites - Rheological and Mechanical Properties | Gökçe BAKİLER ERENLİ SAÇ PROFİL KAÜÇÜK VE PLASTİK TURKEY | Development of a Novel Rubber as Damping Interlayer in Light-weight Armor Applications | Janis KARL FRENCH-GERMAN RESEARCH INSTITUTE OF SAINT-LOUIS FRANCE / GERMANY | Challenges, Trends and Opportunities for End-of-life Tyres from a French Perspective | Robert WEIBOLD WEIBOLD GERMANY |
| 14:20 - 14:45 | Thermo-reversible Supramolecular Polyurethanes Based on PCL with Self-healing Behaviour | Rodrigo NAVARRO INSTITUTO DE CIENCIA Y TECNOLOGÍA DE POLÍMEROS SPAIN | Application: Fuel Cell Stacks Gaskets Molding in Automatic | Matthieu WOLFF REP INTERNATIONAL FRANCE | Pushing the Boundaries of Recycled Rubber Content in High Performance Elastomers | Izaak WATSON MARTIN'S RUBBER COMPANY U.K. |
| 14:45 - 15:05 | VIRTUAL COFFEE BREAK, EXHIBITOR BOOTH VISIT & POSTER SESSION | | | | | |
| 15:05 - 15:30 | | | New Insights into Silica-reinforced Tire Tread Compounds Based on Carboxylated Styrene Butadiene Rubber | Pilar POSADAS INSTITUTO DE CIENCIA Y TECNOLOGÍA DE POLÍMEROS SPAIN | Problems and Solutions of Ground Rubber Recycling | Li JIA THE UNIVERSITY OF AKRON U.S.A. |
| 15:30 - 15:55 | | | The Heart Valve: On the Cusp of a Durable Polymeric Replacement | Ruhi PATEL UNIVERSITY OF CAMBRIDGE & QUEEN MARY UNIVERSITY OF LONDON U.K. | Evaluation of Reclaiming HCR Silicone | Erick SHARP ACE PRODUCTS & CONSULTING U.S.A. |
| 15:55 - 16:20 | | | | | G3C Process gives New Life to Pyrolysis Plants | Vitaly KHUSIDMAN G3C TECHNOLOGIES CORPORATION U.S.A. |
| 16:20 - 16:40 | CLOSING CONFERENCE: Jean-Pierre QUESLEL - LRCCP | | | | | |

