

GUMFERENCE

Advanced Testing
of Soft Polymer Materials

5th February 2026

Organisers and Chairmen

8:00 AM CET

RADEK STOČEK

ERIC EUCHLER



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SCIENTIFIC PROGRAMME

ORGANIZED BY



Tomas Bata University in Zlín
Centre of Polymer Systems



Leibniz-Institut
für Polymerforschung
Dresden

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Scientific programme

- 8:15: **Seiichi KAWAHARA** (Nagaoka University of Technology, Japan)
Topic: Sustainable Vulcanization of Natural Rubber
- 8:50: **Delia B. SNORO** (Mapua University, Philippines)
Topic: Emanation of Tire-Road Particles, its Potential Pathways, and Toxicological Impacts to Philippine Tropical Ecology
- 9:25: **Pratik SARKAR** (Birla Carbons, India)
Topic: Integrated Experimental-Numerical Study of Chip and Cut Resistance: Effects of Compound Stiffness, Carbon Black Morphology, and Friction
- 10:15: **Bo PRSSON** (Peter Grünberg Institute (PGI-1), Forschungszentrum Jülich, Germany)
Topic: Rubber wear: Multiscale theory and experimental results for tire tread rubber
- 10:50: **Ondřej KRATINA** (Tomas Bata University Zlín/Centre of polymer systemns, Czechia)
Topic: Influence of Material Formulation on Thermal Runaway and Blowout in Rubber
- 11:25: **Qizhi JIANG** (FH Aachen University of Applied Sciences, Jülich, Germany)
Topic: Silica-Based Tracing System for Tire Wear Particle Detection and Envi. Tracking
- 12:00: **Jean COMTET** (ESPCI Paris, France)
Topic: A continuous damage accumulation scenario for elastomeric frictional wear
- 13:15: **Anke BLUME** (University of Twente, The Netherlands)
Topic: Lignin in NR: Challenges and Opportunities with In-Situ Silane Modification
- 13:50: **Salim YAGOUB** (FE TECH, Turkey)
Topic: Innovative Approach to Material Selection for Enhanced Durability of Elastomeric Battery Mounts in Electric Vehicles
- 14:25: **Konrad FRIEDRICH** (TU Dresden, Germany)
Topic: Data-driven modelling of crystallizing elastomers based on physics-augmented neural networks
- 15:15: **Cristian OVALLE** (MINES Paris - Université PSL - MAT, France)
*Topic: Unveiling deformation mechanisms via *in situ* microtomography during confined compression*

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Scientific programme

- 15:50: **Miguel Ángel MORENO-MATOS** (FAU Erlangen-Nürnberg, Germany)
Topic: The secrets of cutting soft mater: how material differences shape the response
- 16:25: **Mauro Cesar De AVILA** (SENAI Institute of Innovation in Polymer Engineering, Brasil)
Topic: Evaluation of the Influence of Cobalt and Resorcinol Content on Rubber-Metal Adhesion

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