

IRC 2025 PROGRAMME AT A GLANCE

International Rubber Conference 2025

BITEC, Bangkok, Thailand

December 1-3, 2025

December 1, 2025					
08:00-09:00	Registration (Grand Hall)				
09:00-09:40	Opening Ceremony (Grand Hall : GH 201)				
09:40-10:20	Plenary Lecture-1: Ulrich Giese German Institute for Rubber Technology, Germany Circular Economy - Limits and Chances in Rubber Recycling				
10:20-10:35	Refreshment Break				
10:35-11:15	Plenary Lecture-2: Kenji Urayama Kyoto University, Japan Crack Resistance and Beyond: Fracture Mechanics in Strain Crystallizing and Liquid Crystal Elastomers				
11:15-11:55	Plenary Lecture-3: Liqun Zhang Xi'an Jiaotong University, China AI-Driven Research and Multi-Scale Simulation of Elastomer Materials				
11:55-13:00	Lunch				
	Session I: MR 211 Natural Rubber, Bio-Based Rubbers and Rubber Chemicals	Session II/1: MR 212 Advancements in Sustainable Rubber Technology (1)	Session III/1: MR 213 Advanced Rubber Materials and Novel Applications (1)	Session IV: MR 214 Progress in Rubber Characterisation	Session II/2: GH 201 Advancements in Sustainable Rubber Technology (2)
13:00-13:30	KN-1: Seiichi Kawahara Nagaoka University of Technology, Japan Development of Fast Rubber Sheet-Forming Method for Natural Rubber and Its Application	KN-2: Yuko Ikeda Kyoto Institute of Technology, Japan New Insights into Vulcanization Reactions for Green Rubber Technology	KN-3: Kinsuk Naskar Indian Institute of Technology Kharagpur, India Recent Trends in Adopting Sustainable Solution for Rubber Additives: How Chemistry Plays Significant Role?	KN-4: Christopher G. Robertson Polymer Technology Services LLC, USA Thermal History Effects on the Viscoelastic Response of Gum Natural Rubber: Temperature-Induced Camel Structure and Influence on Extensional Rheology	KN-5: Amit Das Leibniz Institute of Polymer Research Dresden, Germany The Crosslinking Dilemma in ENR: Evaluating Sulphur and Di-Acid Networks for Future-Ready Rubber Products
13:30-13:55	IV-1: Jianming Zhang Qingdao University of Science and Technology, China Cellulose Nanocrystal: Scalable Production and Innovation Application	IV-2: Patrick Tang Siah Ying Monash University Malaysia, Malaysia Self-Healing Rubber: An Advancing Technology for Smart Gloves	IV-3: Murat Sen Hacettepe University, Turkey Effect of Molecular Architecture on the Thermal Stability of Poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) (GECO) Based Elastomers	IV-4: Fei Chen Xi'an Jiaotong University, China Delayed Crystallization Response-Inspired Waterborne Polyurethane with High Performance	IV-5: Tawechai Amornsakchai Mahidol University, Thailand Development of Helically-Wound Pineapple Leaf Fiber/NR Foam Composite for Near Zero-Volume Safety Devices
13:55-14:15	S1T6-O-01: Hiroharu Ajiro Nara Institute of Science and Technology, Japan N-Vinylamides: Structural Isomers of Amino Acids Grafted onto Deproteinized Natural Rubber	S2T9-O-01: Sampatrao Manjare Birla Institute of Technology and Science, India Development of Carbon-Silica Dual Phase Filler for Application in Tyre Rubber Compounds – A Cost-Effective Material	S3T5-O-01: Qi Wu Sichuan University, China Boron-Containing Elastomer	S4T7-O-01: Alexander Lion University of the Bundeswehr, Germany Formulations of Finite Hyperelasticity and Viscoelasticity Using Invariants of Stretch Tensors	S2T1-O-01: Farshid Zolala Barez Industrial Group, Iran Application of Stearic Acid-Modified Silica in PCR Tread Compound
14:15-14:35	S1T6-O-02: Xiaohui Wu Beijing University of Chemical Technology, China Effects of Epoxidation Degree on Strain-Induced Crystallization and Mechanical Properties of Epoxidized Natural Rubber	S2T9-O-02: Ke Liu Qingdao University of Science & Technology, China Regeneration of Surface Sulfur Species on Pyrolysis Carbon Black	S3T5-O-02: Phakamat Limarun Kasetsart University, Thailand Effect of Non-Covalent Interactions on Epoxidized Natural Rubber: Structure-Properties Relationships	S4T7-O-02: Hogenrich Damanik TU Dortmund, Lsiii Angewandte Mathematik, Germany Numerical Modeling of the Non-Isothermal Viscoelastic Flow Behavior of Rubber Compounds Based on the PHAN-THIEN-TANNER (PTT) Model	S2T1-O-02: Mohamad Irfan Fathurrohman PT. Riset Perkebunan Nusantara, Indonesia Bio-Based Multifunctional Additive from Modified Illipe Butter for Silica-Filled Tire Tread Compounds
14:35-14:55	S1T6-O-03: Nantinee Choosang Kasetsart University, Thailand Chitosan-Reinforced Epoxidized Natural Rubber: Possible Design of Energy-Efficient Tire Tread Compounds	S2T9-O-03: Katerina Filzer University of Twente, the Netherlands How Microcapsule-Enhanced Rubber Can Help Creating a Circular Economy	S3T5-O-03: Liying Zhang Qingdao University of Science & Technology, China Sustainable Supramolecular Aqueous Adhesive with Moisture Resistance	S4T7-O-03: Sangin Park Hyundai Motor Company, South Korea Method for Analyzing Mechanical Property Degradation of Polymer Materials Using Artificial Intelligence	S2T1-O-03: Karnda Sengloyluan Prince of Songkla University, Thailand The Utilization of Fly Ash from Different Resources as a Filler on the Properties of NR Compounds
14:55-15:10	Refreshment Break				
15:10-15:40	KN-6: Jitlada Sakdapipnich Mahidol University, Thailand Engineering Allergy-Free Natural Rubber: Sustainable Deproteinization for Enhanced Industrial and Medical Performance	KN-7: Andreas Limper Institut für Kunststoffverarbeitung RWTH Aachen, Germany On the Path to Make a Black Magic Green – How to Minimize the CO ₂ Footprint of Rubber Products	KN-8: Sang Eun Shim Inha University, South Korea Optimized Synthesis of Liquid Fluorosilicone Rubber with Improved Cold Resistance for Semiconductor Application	KN-9: Changwoon Nah Jeonbuk National University, South Korea Some Considerable Factors in Laboratory Frictional Testing Rubbers	IV-6: Kiadtisak Saenboonruang Kasetsart University, Thailand Natural Rubber Foam Containing Gamma-Synthesized Chitosan for the Utilization as Enhanced Heavy-Metal Sorbents
15:40-16:00	S1T6-O-04: Tirthankar Bhandary HASETRI, India Enhancing Ozone Resistance of Tyre Sidewall by Sustainable Replacement of Petroleum Wax with Bio-Based Additive	S2T9-O-04: Heng Liu Qingdao University of Science and Technology, China Chemical Degradation of End-of-Life Tires	S3T5-O-04: Quan Wang Qingdao University Of Science & Technology, China Cellulose Nanocrystal-Based Aqueous Nanogel Photoinitiator for High-Performance Photocurable Hydrogel Elastomers	S4T7-O-04: Sarah Pedroni Queen Mary University of London, United Kingdom Microstructural Modelling of Carbon Black Aggregates for Sustainable Next-Generation Tyre Design	S2T2-O-01: Yuan Jin Rebo New Material Group, China Study on the Performance of Natural Rubber - Copper Coated Steel Wire with BCDB and BCOPD
16:00-16:20	S1T6-O-05: Davut Aksüt Hacettepe University, Turkey Investigation of the Effect of the Amount of Zinc Borate on Cure Kinetics, Reversion, and Mechanical Properties of Natural Rubber in a Semi-Efficient Curing System	S2T9-O-05: Jonas Petzke Paderborn University, Germany Thermo-Chemical Devulcanization of Sulfur-Cured Styrene-Butadiene Rubber (SBR) Using Diphenyldisulfide (DPDS)	S3T5-O-05: Sofia Butenko EMPA, Switzerland Impact of Fused Filament Fabrication and Processing Parameters on the Performance of BaTiO ₃ -Piezoelectric Composites for Soft Robots	S4T7-O-05: Shotaro Nishitsuji Yamagata University, Japan Study on the Dispersion of Silica in SBR Using Time-Resolved Ultra Small Angle X-ray Scattering	S2T2-O-02: Max Dixey Queen Mary University of London, United Kingdom Carbon Black Coupling Agents for Improved Fuel Efficiency of Tyres
16:20-16:40	S1T6-O-06: Frances van Elburg University of Twente, the Netherlands Eco-Efficient Vulcanization: Analysis of a Sustainable Rubber Curing Package	S2T9-O-06: Parinchaya Srithavorn Queen Mary University of London, United Kingdom Pyrolysis of Polychloroprene Rubber with Scavenger-Based HCl Neutralization	S3T5-O-06: Christopher Bascucci EMPA, Switzerland Enhancing the Piezoresistive Sensing Properties of TPE/CB Composites via Co-Continuous Structure Design through Natural Rubber Blending	S4T7-O-06: Dean Vidakovic ZFE - Austrian Centre for Electron Microscopy & Nanoanalysis, Austria Correlative Analysis of Morphological and Functional Properties in High-Performance Elastomer Blends	S2T2-O-03: Leon Schmidt Paderborn University, Germany Experimental Analysis of the Mixing Behavior of Ethylene-Propylene-Diene Rubber (EPDM) in a Rubber Pin Extruder under Variation of Process Parameters and Mixing Elements
16:40-17:30	Poster Session I				
18:00-20:00	Welcome Cocktail Reception (Grand Hall : GH 203)				

December 2, 2025					
08:00-09:00	Registration				
	Session I: MR 211 Natural Rubber, Bio-Based Rubbers and Rubber Chemicals	Session II/1: MR 212 Advancements in Sustainable Rubber Technology (1)	Session III/1: MR 213 Advanced Rubber Materials and Novel Applications (1)	Session IV: MR 214 Progress in Rubber Characterisation	Natural Rubber Symposium: GH 201
09:00-09:30	KN-10: Dariusz M. Bieliński Institute of Polymer & Dye Technology, Poland Bio-Based Approach to Dispersion of Silica in NR	KN-11: Ming Tian Beijing University of Chemical Technology, China Elucidating the Role of Nanoscale Interfaces and 3D Dispersion in Elastomer Nanocomposites: Connecting Microstructure to Viscoelastic Behavior	KN-12: Shinichi Sakurai Kyoto Institute of Technology, Japan Wide-Angle X-Ray Diffraction Studies on Strain-induced Crystallization of Vulcanized Natural Rubber by Two-Step Biaxial Stretching	KN-13: Ken Nakajima Institute of Science Tokyo, Japan AFM Nanomechanics Connecting Macro- and Nanoscopic World	Sustainability of NR Supplies NRS-O-01: Stefano Savi Global Platform for Sustainability of Natural Rubber Global Efforts to Ensure Sustainability of NR Supplies 09:00-09:30
	IV-7: Yingfeng Tu Soochow University, China Synthesis of Polyester-Based Multiblock Copolymer Elastomers via A Cascade Polymerization Method	IV-8: Anke Blume University of Twente, the Netherlands Greener Tire Tread Compounds by Reducing the Amount of Ingredients	IV-9: Toshio Tada Sumitomo Rubber Industries, Ltd., Japan Introduction of Reversible Bonds into Rubber Networks	IV-10: Ekvipoo Karnkornsurapranee Prince of Songkla University, Thailand A Novel Value Approach of Natural Rubber for Emerging and Unexplored Applications	NRS-O-02: Napawan Lekawipat Rubber Authority of Thailand, Thailand The Role of Thailand Contributing to Sustainability of NR Supplies 09:30-10:00
09:55-10:15	S1T6-O-07: Lucksanaporn Tarachiwin Sumitomo Rubber (Thailand) Co., Ltd., Thailand Overview of SRI's Research Initiatives for Enhancing the Well-Being of Natural Rubber Stakeholders in Thailand	S2T9-O-07: Purwonegoro Muljawan CABOT Corporation, Indonesia Upgrading Reclaimed Carbon from Tire Pyrolysis for Tire Rubber Applications	S3T5-O-07: Wang Xin Qingdao University of Science and Technology, China α-Diimine Cobalt Complexes Bearing Axial Anagostic Interaction: A System for Accessing Ultra-High Molecular Weight Polybutadiene	S4T7-O-07: Nick Molden Emissions Analytics Ltd., United Kingdom Chemical Fingerprinting for Environmental Detection of Tyre Rubber Emissions	Quality of NR
	S1T6-O-08: Hailan Kang Shenyang University of Chemical Technology, China Research Progress on Modification and Functionalization of Natural Eucommia Ulmoides Gum	S2T9-O-08: Aswathy T R JK FENNER India Limited, India Implementing Circular Economy Strategies in Power Transmission Belt Manufacturing	S3T5-O-08: Xu Shiliang Qingdao University of Science and Technology, China Fe-Based Catalyst with Exogenous Electron Donor for Stereopolymerization of Butadiene and Isoprene	S4T7-O-08: Li Wan Alpha Technologies, China Advancing Sustainability in Rubber Industries Involves Optimizing Testing Through the Utilization of Rubber Process Analyzer	NRS-O-03: Nantina Moonprasith National Metal and Materials Technology Center, Thailand Novel Green Technologies for Production of User-Friendly and Consistent Properties NR 10:00-10:30
10:35-10:50	Refreshment Break				10:30-10:45
	Session I: MR 211 Natural Rubber, Bio-Based Rubbers and Rubber Chemicals	Session II/1: MR 212 Advancements in Sustainable Rubber Technology (1)	Session III/2: MR 213 Advanced Rubber Materials and Novel Applications (2)	Session IV: MR 214 Progress in Rubber Characterisation	Natural Rubber Symposium: GH 201
10:50-11:20	KN-14: Charoen Nakason Prince of Songkla University, Thailand Enhancing Coagulation Efficiency and Overcoming Uncoagulation Issues in Skim Latex Using Synthetic and Natural Creaming Agents	KN-15: Sumate Chairaprat Prince of Songkla University, Thailand Driving Sustainability in Community-Based Rubber Production: A Case of Energy and Waste Valorization in Thailand	KN-16: Kannika Sahakaro Prince of Songkla University, Thailand Revisiting the Properties of Natural Rubber in Tire Industry and Development of NR-Based Sidewall Compounds for EV Passenger Cars	KN-17: Baochun Guo South China University of Technology, China Recent Advances in Reducing Hysteresis of Rubber Composites	NRS-O-04: Poonyawat Prateepat Michelin From Tree to Technological Materials: Turning Natural Rubber into a Game-Changer for More Sustainable and Performing Products 10:45-11:15
	S1T6-O-09: Lam Ba Nguyen Nagaoka University of Technology, Japan Critical Concentration of Primary Amines for Preparation of Vulcanized Deproteinized Natural Rubber with Outstanding Mechanical Properties	S2T8-O-01: Yogesh Jadhav BITS Pilani K K Birla Goa Campus, India Life Cycle Assessment of End-of-Life Tire Management Pathways: A Comparative Study	S3T3-O-01: Matthew Thornton The Rubber Initiative, United Kingdom Innovation Management for Commercial Success in the Rubber Industry Amid Shifting Global Market Forces	S4T7-O-09: Zühra Çınar Esin Haceteppe University, Turkey Rubber Blend Compatibility Analysis Using Large-Amplitude Oscillatory Shear (LAOS) on RPA	Biodegradation of NR and NR Products NRS-O-05: Shabina Filza Binti Mohd Sharib Malaysian Rubber Board, Malaysia Perspective on Dipped Rubber Product Biodegradability: MRB Research Highlights and Future Pathways 11:15-11:45
11:40-12:00	S1T6-O-10: Anh Viet Ta Nagaoka University of Technology, Japan Removal of Proteins from Natural Rubber by Creaming Method	S2T8-O-02: YanChun Han Qingdao University of Science & Technology, China Bridging Hydrophobic Silica Aerogels with Rubber Latexes via Hydrolysis-Resistant Slurry Design	S3T3-O-02: Wisut Kaewsakul Walailak University, Thailand Toward Sustainable Tire Development: Challenges and Emerging Solutions	S4T7-O-10: Erdem Rahmi SENOZ Aselsan, Turkey Performance Evaluation of Silicone-Based Isolators under Varying Temperatures and Excitation Levels Using a Thermal Chamber Shaker	NRS-O-06: Dr. Nattawut Boonyuen National Center for Genetic Engineering and Biotechnology, Thailand Study of Biodegradation Efficiency of Natural Rubber Products by Various Microorganism 11:45-12:15
	Lunch				
	Session II/1: MR 211 Advancements in Sustainable Rubber Technology (1)	Session II/2: MR 212 Advancements in Sustainable Rubber Technology (2)	Session III/2: MR 213 Advanced Rubber Materials and Novel Applications (2)	Session IV: MR 214 Progress in Rubber Characterisation	Natural Rubber Symposium: GH 201
13:00-13:30	KN-18: Jinrong Wu Sichuan University, China Resolving the Microstructure of Natural Rubber and Its Influence on the Mechanical Properties	IV-11: Jeong Seok OH Gyeongsang National University, South Korea Greening the Elastomer Technology : Bio-Based Solid/Liquid Rubbers, Polyurethanes, and TPVs	S3T3-O-03: Rattapong Numard Queen Mary University of London, United Kingdom Surface-Functionalised Carbon Black as a High-Performance Filler in Elastomeric Compounds: Techniques and Potential 13:00-13:20	KN-19: Rathanawan Magaraphan Chulalongkorn University, Thailand Waste Tire Recycling: The Next Frontier Beyond Devulcanization for Low Carbon Living	Safety of NR Products NRS-O-07: Naesinee Chaiear Khon Khan University, Thailand Reducing Extractable Protein in Latex Gloves to Lower Latex Allergy: Evidence from Thailand and International Studies 13:00-13:30
	IV-12: Karine Mouglin Institut de Science des Matériaux de Mulhouse, France Colour-Changing Smart Materials Inspired by Nature: Chameleon Effect	IV-13: Yixian Wu Beijing University of Chemical Technology, China Renewable Elastomeric Networks of Functionalized Ethylene-Propylene Copolymers	S3T3-O-04: Siriwan Jansinak Kasetsart University, Thailand Effect of Chemically Treated Pineapple Leaf and Hemp Fibers on the Interfacial Interaction and Mechanical Properties of Natural Rubber Composites 13:20-13:40		IV-14: Ganggang Zhang South China University of Technology, China Facile Recycling Strategy for End-of-Life Rubbers by Selective Cleavage of Cross-Linking Bonds
13:30-13:55	S2T4-O-01: Wirach Taweepreda Prince of Songkla University, Thailand Optimization of Calcium Nitrate to Compounded Latex Solid Content for Energy Saving in Latex Thin Film Forming	S2T1-O-04: Julia Uth UTH GmbH, Germany Efficient and Gentle Processing of Rubber Compounds – How Continuous Milling Transforms Rubber Processing	S3T3-O-06: Dongmei Yue Beijing University of Chemical Technology, China High-performance, Recyclable, and Multifunctional Nitrile Butadiene Rubber Based on Hydrogen and Urea Bonds	S4T7-O-11: Sophie Bistac Université de Haute Alsace UHA – LPIM, France Tribological Behavior of Soft Polymers Against Model Substrates	Challenge and Opportunity for Future Applications of NR NRS-O-09: Thanawat Pitakpornpreecha Prince of Songkla University, Thailand Pioneering a Sustainable Biorefinery of Natural Rubber Serum for New Bioactives in Cosmetics, Food, Nutraceuticals, and Pharmaceuticals 14:00-14:30
	S2T4-O-02: Dalip Abdulraman Mahidol University, Thailand Preparation and Characterization of Silica Filled Modified Natural Rubber: A Comparative Analysis of Pre-Dispersion and Conventional Techniques	S2T1-O-05: Zhengtian Xie Sichuan University, China Green Preparation and Performance Study of NRL/Biomass Composites via Non-Rubber Component Mediation and Spatial Confinement	S3T3-O-07: Arthittaya Chuaybamrung Prince of Songkla University, Thailand Development of Piezoresistive Sensor Prepared from PMMA-Grafted Natural Rubber Latex Filled Conductive Carbon Composites: Comparative of Conductive Carbon Fillers and Hybrid System	S4T7-O-12: Kim Song Tan Malaysian Rubber Board, Malaysia NR Film Visualization via AFM Imaging	NRS-O-10, Koryu Kawatani Innovare, Japan Utilizing Natural Rubber Seeds for Biorefinery 14:30-15:00
14:35-14:55	S2T9-O-09: Peram Prasada Rao Technobiz, Thailand The Reality of Sustainable Solution and the Economics of SME Rubber Industry: A Way Forward	S2T1-O-06: Mohamad Akmal Absul Ramahm Malaysian Rubber Board, Malaysia Properties of Films from Deproteinized Natural Rubber Latex Produced via Membrane Separation Technology	S3T3-O-08: Chomsri Siriwong Khon Kaen University, Thailand Development of Hydroxyapatite from Eggshell Waste and Its application in SBR Composite	S4T7-O-13: Hexuan Mao Institute of Science Tokyo, Japan AFM-Based Investigation of Polyisoprene-Inorganic Interface Adhesion at Multiple Scales	
	Refreshment Break				
	Session I: MR 211 Natural Rubber, Bio-Based Rubbers and Rubber Chemicals	Session II/2: MR 212 Advancements in Sustainable Rubber Technology (2)	Session III/2: MR 213 Advanced Rubber Materials and Novel Applications (2)	Session IV: MR 214 Progress in Rubber Characterisation	Natural Rubber Symposium: GH 201
15:10-15:35	IV-15: Chomnutcha Boonmee National Metal and Materials Technology Center, Thailand Factors Affecting Biodegradability of Natural Rubber and Natural Rubber Products	IV-16: Sayant Saengsuwan Ubon Ratchathani University, Thailand Biocomposite Sustain/NR-Grafted Hydrogels as Sustainable Coating Membranes for Slow-Release Fertilizers	IV-17: Yeamporn Nakaramontri King Mongkut's University of Technology Thonburi, Thailand Dual-Functional Natural Rubber Composites with Piezoresistive and Antibacterial Properties for Wearable Motion Detection	IV-18: Philippe Daniel Le Mans University, France Raman Spectroscopy Applied to Elastomers: From the History up to the New Smart Technological Developments	Challenge and Opportunity for Future Applications of NR (Panel presentation and discussion) NRS-O-11: Krishna Veni Malaysian Rubber Board, Malaysia Modified Natural Rubber: Current Progress, Opportunities, and Challenges. 15:15-15:45
	S1T6-O-11: Jing Hua Qingdao University of Science and Technology, China Synthetic Strategies and Mechanistic Studies of Liquid Rubber	S2T1-O-07: Shuangjian Yu South China University of Technology, China Extrudable Vitrimeric Rubbers Enabled via Heterogeneous Crosslinking	S3T3-O-09: Supat Isarangkool Na Ayuthaya Khon Kaen University, Thailand Comparison of Rubber-Cutting and Transpiration in Micro-Graftings and Budded Rubber Trees	S4T7-O-14: Orkid Ramekaj Queen Mary University, United Kingdom Improving Seal Life Prediction: Faster Crack Growth Testing in HNBR	NRS-O-12: Amir Hashim Yatim Malaysian Rubber Glove Manufacturers Association, Malaysia Challenge for the Future of NR Latex and NRL Products 15:45-16:15
15:55-16:15	S1T6-O-12: Kittipong Insom Mahidol University, Thailand Understanding and Controlling Storage Hardening in Natural Rubber via Phospholipid Network Disruption	S2T1-O-08: Hongbing Zheng PetroChina Shanghai Advanced Materials Research Institute Co., Ltd., China Lignin/Carboxylated Nitrile Rubber Composites: the Influence of Carboxyl Content on the Mechanical Properties of the Material	S3T3-O-10: Warut Chanasit Prince of Songkla University, Thailand Effectiveness of Participatory Ergonomic Training on Musculoskeletal Disorders Among Rubber Tappers: A Longitudinal Mixed-Effects Analysis	S4T7-O-15: Maytawee Malineerat Institute of Science Tokyo, Japan Study on the Effect of Silane Coupling Agents on Mechanical Behavior of Silica-Filled Styrene-Butadiene Rubber under Elongation Using In Situ Nano-Palpation Atomic Force Microscopy	NRS-O-13: Banja Junhasavasdikul Innovation Group, Thailand Opportunity for Industrial Applications of NR 16:14-16:45
	S1T6-O-13: Tharin Sensan Prince of Songkla University, Thailand New Non-Isocyanate Polyurethane Films Based on Natural Rubber	S2T2-O-13: Zhao Wang South China University of Technology, China Regulating Rubber-Filler Interface Using Functionalized Polysulfides	S3T3-O-11: Chanon Kongkamol Prince of Songkla University, Thailand Effects of Enhanced Ergonomic Training on Postural Risk Among Rubber Tappers: A Cluster-Randomized Longitudinal Analysis	S4T7-O-16: Huong Thao Pham Queen Mary University of London, United Kingdom Friction Behaviour in Relation to Wear Morphology	Discussion 16:45-17:00
16:35-17:30	Poster Session II				
18:30-21:00	Conference Dinner (Grand Hall : GH 203)				

December 3, 2025					
08:00-09:00	Registration				
	Grand Hall : GH 201				
09:00-09:40	Plenary Lecture-4: Sabu Thomas Mahatma Gandhi University, India Sustainable Materials for Tyre Engineering				
09:40-10:20	Plenary Lecture-5: James Busfield Queen Mary University of London, United Kingdom Increasing the Circularity of Sulphur Crosslinked Natural Rubber				
10:20-10:35	Refreshment Break				
10:35-11:15	Plenary Lecture-6: R. Mukhopadhyay JK Tyre & Industries Ltd., India Sustainable Mobility 2030 and Beyond – Role of Tyre and Rubber Industry				
	Session I: MR 211 Natural Rubber, Bio-Based Rubbers and Rubber Chemicals	Session III/1: MR 212 Advanced Rubber Materials and Novel Applications (1)	Session III/2: MR 213 Advanced Rubber Materials and Novel Applications (2)	Session IV: MR 214 Progress in Rubber Characterisation	Session II/2: GH 201 Advancements in Sustainable Rubber Technology (2)
11:15-11:35	S1T6-O-14: Katsuhiko Tsunoda Bridgestone Corporation, Japan Latex Serum Boosts Natural Rubber Strength	S3T5-O-09: Rafal Anyszka Lodz University of Technology, Poland ECIU Rubber Chair - An Inter-University Organisation Focused on Rubber Science and Intersectoral Impact	S3T3-O-12: Panithi Wiroonpochit National Science and Technology Development Agency, Thailand Additive Manufacturing of Natural Rubber Latex for Sustainable Flexible Sensors	S4T7-O-17: Eric Euchler Leibniz Institute of Polymer Research Dresden, Germany In Situ Methods to Characterize Deformation-Induced Mechanisms in NR	S2T2-O-04: Kakeru Obayashi Kyoto University, Japan Molecular Chain Structure Changes and Strain-Induced Crystallization Behaviors During Various Deformation of Segmented Polyurethane Elastomer
11:35-11:55	S1T6-O-15: Preeyanuch Junkong Mahidol University, Thailand Green Synthesis of Zinc Oxide from Skim Latex Serum for Application in Rubber Vulcanization	S3T5-O-10: Anoma Thitithammawong Prince of Songkla University, Thailand Polyrotaxane-Based Hybrid Crosslinking for Tunable Elastic and Thermal Response in Epoxidized Natural Rubber	S3T3-O-13: Yuzhu Xiong Guizhou University, China Construction of Recyclable Rubber Composites Based on Dynamic Bonding	S4T7-O-18: Shouliang Nie Zhongce Rubber Group Co., Ltd., China The Role of Deformation Mode on Rubber Hysteresis and Its Dependency on Viscoelasticity	S2T2-O-05: Takahiro Anzai NOK Corporation, Japan Study of the Mullins Effect in Carbon Black-Filled Rubber by Atomic Force Microscopy
11:55-13:00	Lunch				
13:00-13:25	S1T6-O-16: Nitinart Saetung Prince of Songkla University, Thailand A New Antibacterial Hybrid Waterborne Polyurethane/Silica Coating Film Based on Natural Rubber	IV-19: Nadras Othman Universiti Sains Malaysia, Malaysia Optimizing Silica and Carbon Black Ratios for Enhanced Mechanical Performance of NR/BR/SSBR Blends	S3T3-O-14: Masami Okamoto Toyota Technological Institute, Japan Natural Rubber Latex-Based Tissue Engineering: The Pioneering Advances in Material for Sustainability	IV-20: Sitisaiyidah Saiwari Prince of Songkla University, Thailand Advancing Sustainable Rubber Recycling: Transforming NR and NBR Waste into Conductive Elastomers	IV-21: Bagdagul Karaagac Kocaeli University, Turkiye Multifunctional Applications of Epoxidized Natural Rubber: From Gas Separation Membranes to Self-Healing and Adhesion Technologies
13:25-13:45	S1T6-O-17: Shadam Sukanob Department of Science and Technology Region IX - Philippines, the Philippines Degradation Trends in Plasticity and Viscosity of Selected Standard Philippine Rubber under Prolonged Storage	S3T5-O-11: Binjie Jin South China University of Technology, China Actuation Programming of Liquid Crystal Elastomers	S3T3-O-15: Amit Kumar Sen Hari Shankar Singhania Elastomer and Tyre Research Institute, India Multidimensional Rubber Composite Utilizing Lignin as a Bio-Filler	S4T7-O-19: Maurice Brogly UHA – LPIM, France On the Decoupling of Chemical and Mechanical Surface Contributions in Soft Polymer Network Adhesion	S2T2-O-06: Michael Johlitz Institute of Mechanics, Germany Modelling of Elastomers under Dynamical Mechanical Loads
13:45-14:05	S1T6-O-18: Hathainat Kum-ourm Sumitomo Rubber (Thailand) Co., Ltd., Thailand Sustainable Yield Improvement and Quality Assessment of TSR10 Rubber from Two Hevea Brasiliensis Genotypes: Impact of Reduced Tapping Frequency Associated with Ethephon Stimulation	S3T5-O-12: Manus Sriring Mahidol University, Thailand Biomimetic Design and Development of Natural Rubber-Based Soft Robotics	S3T3-O-16: Barbara Di Credico University of Milano-Bicocca, Italy Sustainable Rubber Nanocomposites for Tyre Application by Silica Hairy Nanoparticles Fillers	S4T7-O-20: Shinya Nakano Sumitomo Rubber Industries, Japan Wear Particle Formation Mechanism Investigated Using LAT100	S2T2-O-07: Javier Alejandro Araujo Morera University of Twente, the Netherlands New Insights into Resins Behavior: Influence of Resin Softening Point on the In-Rubber Properties of Carbon Black-Filled SBR Compounds
14:05-14:25	S1T6-O-19: Danniell Liao Oriental Silicas Corporation Taiwan, Province of China Sustainable NZEROSILTM Silicas from Renewable Rice Husk	S3T5-O-13: Titash Mondal IIT Kharappur, India Epoxidized Natural Rubber and Its Composite-Based Sensors and Energy Harvesters	S3T3-O-17: Nabil Hayemasae Prince of Songkla University, Thailand A Natural Rubber-Based Stretching Band and Its Machine Learning-Validated Muscle Tension Mitigation	S4T7-O-21: Martin Stěnička Tomas Bata University in Zlín / University Institute / Centre of Polymer Systems, Czech Republic Why Lab Studies Matter for Understanding Tyre Wear Emissions	S2T2-O-08: Puchong Thappong National Science and Technology Development Agency, Thailand Influences of Sulfur Vulcanization System and Curative Content on Properties of Tire Tread Compounds Filled with Carbon Black/Silica Hybrid Filler
14:25-14:45	S1T6-O-20: Wasan Tissanan Pathumwan Institute of Technology, Thailand Mechanical Tailoring of Waterborne Epoxy Coatings on Metal Substrates Using Functionalized Natural Rubber Latex	S3T5-O-14: Subhan Salaeh Prince of Songkla University, Thailand Elastomeric Ionomer Based on Maleated Bromobutyl Rubber	S3T3-O-18: Florian Löhner Paderborn University, Germany Thermoset–Rubber 2K Composite Systems: Material Combinations and Interfacial Reactions in a One-Step Injection Molding Process	S4T7-O-22: Hassarutai Yangthong Kasetsart University, Thailand Study of Standard Laboratory for Testing Medical Rubber Gloves According to ISO/IEC 17025	S2T2-O-09: Xiaorong Wang Hangzhou Zhongce Rubber Company, China Aluminum Soaps: A New Prospect for Rubber Application
14:45-15:00	Refreshment Break				
15:00-15:20	S1T6-O-21: Yoshimasa Yamamoto National Institute of Technology, Japan Rubbery Soft Polymer Electrolyte Membrane with Nanomatrix Channel Prepared from Natural Rubber	S3T5-O-15: Hiroki Hashimoto Nippon Soda Co., Ltd., Japan Properties and Crosslinking Mechanisms of 1,2-Polybutadiene Derivative-Based Rubber Formulations	S3T3-O-19: Nuttapol Risangud Chulalongkorn University, Thailand Advancing 3D Printing with Biobased Rubber: Photocurable and Extrudable Platforms for Functional Soft Materials	S4T7-O-23: Kim Hung NGUYEN Institute of Science Tokyo, Japan Visualizing Nanoscale Interface in Direct Adhesive Rubbers Containing Reversible Coordination Linkages	S2T2-O-10: Dong Wang South China University of Technology, China Inverse Vulcanization Forged Self-Motivated Polysulfide Silane: An Ultra-Efficient Architect in Engineering Silica-Rubber Interface
15:20-15:40	S1T6-O-22: Kwanchai Buaksuntear Kasetsart University, Thailand The Development of Bio-Inspired Composites from Epoxidized Natural Rubber Using π - π Stacking and Cation- π Interactions	S3T5-O-16: Zheming Tong PetroChina (Shanghai) New Materials Research Institute Co., Ltd., China Property and Application of Perfluoropolyether-Modified Functional Rubber	S3T3-O-20: Rawiporn Promsung Prince of Songkla University, Thailand Potential of Low-Temperature Vulcanized Natural Rubber Latex for Antimicrobial Applications	S4T7-O-24: Hiromu Kawasaki NOK Corporation, Japan Study on Rubber Adhesive Interface Peeling Mechanism of Sealing Materials	S2T2-O-11: Donghan Li Shenyang University of Chemical Technology, China Reverse Molecular Reconstruction for Synthesizing High Performance Fluorinated Polyurea Elastomer
15:40-16:00	S1T6-O-23: Airi Sato Bridgestone Corporation, Japan Effect of Crystal Orientation on Mechanical Strength of Poly-Isoprene Rubber under Bi-Axial Deformation		S3T3-O-21: Huiqing Fan Northwestern Polytechnical University, China Novel Triboelectric Nanogenerators for Self-Powered System by Using Fluorinated Wasted Rubber Powders	S4T7-O-25: Adun Nimpaiboon Mahidol University, Thailand Analysis of Allergenic Proteins in Natural Rubber After Radiolysis by Mass Spectrometry Technique	S2T2-O-12: Shipeng Wen Beijing University of Chemical Technology, China Enhanced Gas Barrier Properties of Graphene Oxide/Rubber Elastomer Nanocomposites
16:00-16:30	Best Student Presentation Award Ceremony (Grand Hall : GH 201)				
16:30-17:00	Closing Ceremony (Grand Hall : GH 201)				