INTERNATIONAL RUBBER CONFERENCE (IRC2024)

PROGRAMME AT A GLANCE

9 OCTOBER 2024

İstanbul Hall

08:00 - 09:00	**Registration**
09:00 - 09:40	**Opening Ceremony**
09:40 - 10:20	**Plenary Speech: Liqun ZHANG,** South China University of Technology, China, "Design and preparation of biobased elastomers aiming at sustainability, carbon peaking and carbon neutrality goals"
10:20 - 10:40	**Coffee Break**
10:40 - 11:20	**Plenary Speech: Ulrich GIESE,** German Institute for Rubber Technology, Germany, "Effects of dynamic-mechanical load on chemical aging behavior of elastomers"
11:20 - 12:00	**Plenary Speech: James BUSFIELD,** Queen Mary University of London, UK, "Understanding the transitions in the abrasion behaviour of tyres"
12:00 - 13:00	**Lunch**
13:00 - 13:40	**Plenary Speech : Seiichi KAWAHARA,** Nagaoka University of Technology, Japan, "Effect of proteins as constituents of island-nanomatrix structure on vulcanization of natural rubber"

	İstanbul Hall (Polymers, Additives, Fillers & Modifiers)	Bursa Hall (Analysis & Testing: New Methods & Applications)	Kocaeli Hall (Polymers, Additives, Fillers & Modifiers)
Chair	**Liqun ZHANG**	**Ulrich GIESE**	**James BUSFIELD**
13:45 - 14:05	**Taweechai AMORNSAKCHAI** **Mahidol University, Thailand** Effect of biochar as hybrid particulate filler on mechanical properties of pineapple leaf fiber reinforced natural rubber	**Berrin DEGİRMENCİ** **Alpha Technologies, Italy** Striving for excellence beyond just a rubber process analyzer	**Ján KRUŽELÁK** **Slovak University of Technology, Slovakia** Lignosulfonate filled rubber compounds with applied low molecular weight plasticizers
14:05 - 14:25	**Jerome CREPIN LEBLOND** **Imerys Graphite & Carbon, France** New thermal conductivity and EMI shielding performance in rubber by using optimized carbon additives blends	**Mathieu BADARD** **Metravib Material Testing, France** New crack growth testing method for rubber compounds by advanced image processing software for DMA instruments	**Lena TARRACH** **University of Wuppertal, Germany** Modeling study of tensile strength of filled and strain-crystallizing elastomers
14:25 - 14:45	**Alexander SHAPLOV** **Luxembourg Institute of Science and Technology, Luxembourg** Polyisoprene and random isoprene-norbornene copolymers with unique microstructure obtained with tailored titanium(IV) phenoxyimine catalysts	**Masayuki ITO** **Tokyo Gakugei University, Japan** Thermogravimetric analysis of tetrafuluoreethylene-propylene elastomer to obtain the activation energy	**Ali EL-SAMAK** **University of Warwick, UK** Few-layer graphene (GNP) filled styrene-butadiene rubber (SBR)
14:45 - 15:00	**Coffee Break**		

	İstanbul Hall (Analysis & Testing: New Methods & Applications)	Bursa Hall (Analysis & Testing: New Methods & Applications)	Kocaeli Hall (Polymers, Additives, Fillers & Modifiers and Novelty in Rubber Science & Technology)
Chair	**Seiichi KAWAHARA**	**Pranee PHINYOCHEEP**	**Mikihito TAKENAKA**
15:00 - 15:20	**John DICK** **Rubber Chemist LLC, USA** Selecting the best grades of zinc oxide for improving tire rolling resistance	**Ken NAKAJIMA** **Tokyo Institute of Technology, Japan** AFM nanomechanics on filled rubbers	**Rattapong NUMARD** **Queen Mary University of London, UK** Evaluating the effects of carbon black surface functionality on tyre tread performance
15:20 - 15:40	**Shotaro NISHITSUJI** **Yamagata University, Japan** The study on the correlation distance of aggregate of silica in SBR using time-resolved ultra-small angle X-ray scattering	**Eathan PLASCHKA** **Queen Mary University of London, UK** The relationship between wear morphology and fatigue crack growth in tire tread compounds	**Drahomír ČADEK** **University of Chemistry and Technology, Czech Republic** Natural-based antioxidants for natural rubber compounds
15:40 - 16:00	**Sabrina TERNES** **University of Duisburg-Essen, Germany** Does it fatigue? A feasibility study on the fatigue testing of NBR and PUR in the dynamic mechanical analysis for damage prediction	**Fanzhu LI** **Beijing University of Chemical Technology, China** A crosslinking kinetic model considering reversion effect and its application in vulcanization process of heavy truck suspension rubber bearing	**Anas MUJTABA** **Celanese Corporation, Belgium** Celanese™ Vamac® : A reliable and sustainable elastomeric material for automotive applications
16:00 - 16:20	**Olivier ROUMACHE** **Silox, Belgium** New generations of sustainable ZnO activators: A path to low carbon footprint with new properties	**Dean VIDAKOVIC** **Graz Centre for Electron Microscopy, Austria** Correlative characterization of high-performance elastomers using microscopic and spectroscopic methods	**Daisuke HAYATA** **Asahi Kasei Europe GmbH, Germany** Optimizing rubber performance: Leveraging functionalization and selective hydrogenation for reduced 6PPD dependency
16:20 - 16:40	**Fanny DESTAING** **Technical Center of French Mechanical Industry, France** Predicting 20-year-long mechanical performance of elastomer seals in nuclear environments: A focus on radiation-thermal ageing	**Kadir DEMİRAK** **Angst & Pfister Advanced Technical Solutions Company, Türkiye** Using injection molding simulation software to accurately quote rubber anti-vibration elements	**David KIROSKI** **HF Mixing Group, Germany** Study into the energy aspects of mixing of filled rubber compounds
16:40 - 17:30	**Poster Session**		
17:30 - 19:00	**Welcome Cocktail**		

10 OCTOBER 2024

İstanbul Hall

08:00 - 09:00	**Registration**
09:00 - 09:10	**Sponsor Speech**
09:10 - 09:50	**Plenary Speech: Sabu THOMAS,** Trivandrum Engineering Science and Technology Research Park, India, "Nanocellulose reinforced rubber composites"
09:50 - 10:30	**Plenary Speech: Amit DAS,** Leibniz Institute of Polymer Research, Germany, "Ionic network of modified natural rubber for sustainability and heat-resistant applications"
10:30 - 10:50	**Coffee Break**
10:50 - 11:20	**Invited Speech: Changwoon NAH,** Jeonbuk National University, South Korea, "Effects of surface modification of dual filler system based on carbon black and carbon nanotube on the positive temperature coefficient behavior of polymer composites"

	İstanbul Hall (Sustainability & Circular Economy)	Bursa Hall (Analysis & Testing: New Methods & Applications)	Kocaeli Hall (Novelty in Rubber Science & Technology and Analysis & Testing: New Methods & Applications)
Chair	**Sabu THOMAS**	**Amit DAS**	**Keon-Soo JANG**
11:25 - 11:45	**Harris KARIM** **Nature Impact, UK** EUDR – the road to compliance for rubber companies	**Maurício AZEVEDO** **Polymer Competence Center Leoben GmbH, Austria** Large amplitude oscillatory shear rheology of liquid silicone rubber: Insights into filler structure and viscoelasticity	**Xiaohui WU** **Beijing University of Chemical Technology, China** Preparation and application of clay/brominated butyl rubber composites with great air-tight properties
11:45 - 12:05	**Hai LI** **Shanghai CheeShine New material technology Co., Ltd, China** Research on the application of modified cashew net oil in tire tread compounds	**Mauro BELLONI** **Gibitre Instruments srl, Italy** De Mattia fatigue test with automatic storage and AI analysis of sample images	**Barbara DI CREDICO** **University of Milano-Bicocca, Italy** Nanoparticles effect on multiphase rubber systems
12:05 - 12:25	**Kunal MANNA** **University Of Warwick, UK** Sustainable lightweight biocomposites derived from biobased thermoplastic polyurethane reinforced with nanosized biochar	**Judith HIRSCH** **Hyundai Motor Europe Technical Center GmbH, Germany** OIT-DSC: A method to compare real v/s artificial aged rubber in chassis bushes	**Ajay CHENGALAVEEDU** **Hari Shankar Singhania Elastomer and Tyre Research Institute, India** Optimizing rubber vulcanizate performance: Investigating the impact of mixing time on rheological properties and cured characteristics through advanced characterization techniques
12:25 - 13:25	**Lunch**		
	İstanbul Hall		
13:25 - 13:55	**Invited Speech: Mikihito TAKENAKA,** Kyoto University, Japan, "Scattering studies on hierarchical structures of rubber/filler systems"		

	İstanbul Hall (Sustainability & Circular Economy)	Bursa Hall (Polymers, Additives, Fillers & Modifiers)	Kocaeli Hall (Sustainability & Circular Economy)
Chair	**John LONG**	**Antonin KUTA**	**Philippe DABO**
14:00 - 14:20	**SIlvia GUERRA** **Pirelli Tyre S.P.A, Italy** Sustainable rubber approach: Towards a greener future	**Chenjun ZHANG** **PetroChina Research Institute of Petroleum Exploration & Development, China** Study on the interface of fluorine rubber composites reinforced by functionalized carbon nanotubes based on a two-step process	**Robert KOBEL-BRYK** **Schill + Seilacher Struktol, Germany** Different Viewpoints on Sustainability. A Process Additive Perspective
14:20 - 14:40	**Thomas GRIGGS** **Queen Mary University of London, UK** Optimisation of reversible sulphur crosslinked natural rubber elastomers for recycling	**Biswajit PAUL** **Shine Carbon and Chemicals Pvt. Ltd., India** Effect of two types of feedstocks on carbon blacks	**Peter HUBER** **MAURER SE, Germany** Seismic protection with rubber isolators and challenges for the applied rubber compounds
14:40 - 15:00	**Shinya NAKANO** **Sumitomo Rubber Industries, Japan** The effect of smear wear layer on wear performance of tyre tread compounds	**Kirsty RUTHERFORD** **Queen Mary University of London, UK** Dielectric and mechanical response of carbon black filled NBR: Frequency-temperature relationships	**Noorliana MOHD ZAN** **Malaysian Rubber Board, Malaysia** Malaysian rubber industry initiatives towards EUDR compliance
15:00 - 15:20	**Coffee Break**		
İstanbul Hall			
15:20 - 15:50	**Invited Speech: Pranee PHINYOCHEEP,** Mahidol University, Thailand, "Modified natural rubber latex: A smart material for sustainable development"		

	İstanbul Hall (Sustainability & Circular Economy and Polymers, Additives, Fillers & Modifiers)	Bursa Hall (Polymers, Additives, Fillers & Modifiers and Analysis & Testing: New Methods & Applications)	Kocaeli Hall (Sustainability & Circular Economy and Analysis & Testing: New Methods & Applications)
Chair	**Nadras OTHMAN**	**Pak Kuen CHAN**	**Changwoon NAH**
15:55 - 16:15	**Hüsnü DAL** **Middle East Technical University, Türkiye** Advance theoretical and numerical techniqes for the simulation of rubber components	**Federico S. GRASSO** **Versalis SpA, Italy** New functionalized elastomers for low rolling resistance tyre compounds	**Florian DIEHL** **UPM Biochemicals GmbH, Germany** UPM bioMotion renewable functional fillers (RFF): A new and innovative material class for sustainable rubber end-use applications
16:15 - 16:35	**Dongmei CUI** **Chinese Academy of Sciences, China** Preparation of new type of thermoplastic elastomers	**Hiroki HASHIMOTO** **Nippon Soda Co., Ltd., Japan** Properties of cured products by crosslinking of 1,2-polybutadiene	**Fatma Nur MANAV** **Aselsan, Türkiye** Characterization of silicone rubber in elastomeric vibration isolators
16:35 - 16:55	**Tobias BRANDMEIER** **Hoffmann Mineral GmbH Germany,** Peroxide cured silicone rubber	**Hamed PEIDAYESH** **Polymer Institute, Slovak Academy of Sciences, Slovakia** Electrical conductivity behavior of rubber composites with varying crosslink density under cyclic mechanical deformation	**Salim YAGOUB** **FE-TECH Advanced Engineering, Türkiye** Material selection for enhanced durability of elastomeric battery mounts in electric vehicles
16:55 - 18:00	**Poster Session**		
19:30 - 22:30	**Gala Dinner**		

11 OCTOBER 2024

İstanbul Hall

08:00 - 09:00	**Registration**
09:00 - 09:10	**Sponsor Speech**
09:10 - 09:50	**IRCO Honored Speech, Anil BHOWMICK,** University of Houston, USA, "Energy transition, sustainability, and rubber"
09:50 - 10:20	**Invited Speech: Pak Kuen CHAN,** The Plastics and Rubber Institute, Malaysia, "Sustainability of rubber in mining: Ecosystem and global trend"
10:20 - 10:40	**Coffee Break**

	İstanbul Hall (Novelty in Rubber Science & Technology)	Bursa Hall (Polymers, Additives, Fillers & Modifiers)	Kocaeli Hall (Polymers, Additives, Fillers & Modifiers)
Chair	**Anil BHOWMICK**	**Shotaro NISHITSUJI**	**Bağdagül KARAAĞAÇ**
10:40 - 11:00	**Cristian OPRISONI** **LANXESS, Germany** Sustainable solutions for rubber crosslinking	**İrem Seçkin IŞCAN** **Erenli Rubber Company, Türkiye** Development of mechanical properties of ozone resistant NBR/PVC rubber mixtures	**Onur Nuri ARSLAN** **University of Warwick, UK** Investigating the antioxidant properties of lignin on rubbers
11:00 - 11:20	**Xinli LIU** **Chinese Academy of Science, China** Syndiotactic polystyrene based thermoplastic elastomers	**Görkem YILDIZ** **Angst & Pfister Advanced Technical Solutions Company, Türkiye** Developing and producing piezoelectric rubber composite materials for various industrial applications	**Azura RASHID** **Universiti Sains Malaysia, Malaysia** The ageing and degradation properties of nanocellulose/carboxylated nitrile butadiene rubber (XNBR) latex films
11:20 - 11:40	**Yoshimasa YAMAMOTO** **National Institute of Technology, Tokyo College, Japan** Polymer electrolyte membrane with nanomatrix channel prepared by graft-copolymerization of ethyl p-styrenesulfonate onto natural rubber followed by hydrolysis	**LanQiong ZHANG** **PetroChina Research Institute of Petroleum Exploration & Development, China** Enhanced mechanical and thermal properties of POSS-FEPM composites using R-group modulation of POSS	**Mehdi RAZZAGHI-KASHANI** **Tarbiat Modaress University, Iran** Rheology and properties of hybrid-filler rubber compounds
11:40 - 12:00	**Injamamul ARIEF** **Leibniz Institute of Polymer Research Dresden, Germany** Contact electrification-based high mechano-electric transduction in hybrid triboelectric-piezoelectric nanogenerator	**Robins KUMAR** **University of Warwick, UK** Alternative biomass-derived antioxidant to tackle 6PPD challenge in rubber industry	**Burcu CAN KARABULUT** **Danfoss Polimer Kauçuk San Paz A.Ş, Türkiye** Eco-friendly rubber compound design for industrial hose products
12:00 - 13:00	**Lunch**		
	İstanbul Hall		
13:00 - 13:30	**Invited Speech: Nadras OTHMAN,** University Sains Malaysia, Malaysia, "Bio-based processing oil as an alternative in the development of greener tire tread compound"		

	İstanbul Hall (Novelty in Rubber Science & Technology)	Bursa Hall (Polymers, Additives, Fillers & Modifiers)	Kocaeli Hall (Polymers, Additives, Fillers & Modifiers)
Chair	**Ajay CHENGALAVEEDU**	**V K MISRA**	**Pong Kai SEE**
13:35 - 13:55	**Cloé CHANAL** **Université de Lyon, France** Wear study of tire tread materials under low-severity wear conditions	**X Xiao HU** **University of Warwick, UK** Curing behaviour, mechanical properties, and the thermo-oxidative resistance of SSBR/silica/ lignin composites	**Yunus Emre TANIK** **Tekno Kauçuk Sanayii A.Ş. Türkiye** Proposal of a new approach on fatigue life calculations of rubber bushing under road load input
13:55 - 14:15	**Roman Christopher KERSCHBAUMER** **Polymer Competence Center Leoben GmbH, Austria** Innovative modeling approach enables the quality prediction of rubber parts during a filling and curing simulation	**Ece MUSELLIM** **Sampa Automotive, Türkiye** An alternative to hevea brasiliensis natural rubber: Taraxacaum kok-saghyz (TKS)-dandelion rubber	**Yalçın YALAKİ** **Hacettepe University, Türkiye** Effect of phenolic resin on the mechanical properties of poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) (GECO) based elastomers
14:15 - 14:35	**Yusuf GÜNER** **Standard Profil Otomotiv A.Ş., Türkiye** Utilization of tire pyrolysis oil-derived carbon black for automotive sealing applications	**Shipeng WEN** **Beijing University of Chemical Technology, China** Constructing strong chemical interface in graphene oxide/rubber composites exhibiting high-abrasion resistance for eco-friendly green tires	**Amina HALIOUCHE** **Hacettepe University, Türkiye** Adding self-healing properties to epichlorohydrin based rubbers with different approaches
14:35 - 14:50	**Coffee Break**		

	İstanbul Hall (Novelty in Rubber Science & Technology)	Bursa Hall (Polymers, Additives, Fillers & Modifiers)	Kocaeli Hall (Analysis & Testing: New Methods & Applications and Polymers, Additives, Fillers & Modifiers)
Chair	**Krisda SUCHIVA**	**Nurseli UYANIK**	**Murat ŞEN**
14:50 - 15:10	**Tuba ÜNÜGÜL** **Özka Tyre, Türkiye** Effect of wollastonite on adhesion and gas barrier properties of epoxidized natural rubber-based inner liner compounds	**Müberra GÖKTAŞ** **Brisa Bridgestone Tire Company, Türkiye** Effect of synthetic resins on green tackiness properties of c-black filled NR/BR compound	**Nick MOLDEN** **Emissions Analytics, UK** Tyre emissions from battery electric vehicles: effects on wear rates and toxicity
15:10 - 15:30	**Jishnu J. NIRMALA SURESH** **Dresden University of Technology, Germany** Evaluating the impact of crosslinker amount and pre-strain level on the electromechanical characteristics and 3D printing potential of functionalized liquid isoprene rubber dielectric elastomer actuators	**Gözde KURU** **Sampa Automotive, Türkiye** Investigating pyrolytic carbon black in natural rubber: Rheological, mechanical and dynamic effects	**Arta BABAPOUR** **Hacettepe University, Türkiye** Exploring the various characteristics of epichlorohydrin based elastomers: A comparative analysis of damping properties CO, ECO and GECO elastomers
15:30 - 15:50		**Davut AKSÜT** **Hacettepe University, Türkiye** Optimization of curing conditions of fluorosilicone rubber	
İstanbul Hall			
15:50 - 16:20	**Best Student Presentation Award Ceremony**		
16:20 - 16:40	**Closing Ceremony**		

INTERNATIONAL RUBBER CONFERENCE (IRC2024)

POSTER PRESENTATIONS

9 - 10 OCTOBER 2024

Poster Hall

P 1	**M. Begum ALANALP,** İstanbul University-Cerrahpaşa, Türkiye	**Preparation of self-healing thermoplastic elastomers (TPEs) by reactive melt blending**
P 2	**M. Begum ALANALP,** İstanbul University-Cerrahpaşa, Türkiye	**Rheological assessment of synthesis of amine functionalized thermoplastic elastomers (TPE) prepared by reactive melt compounding**
P 3	**Semiha Seda ANNİKA,** Untel Cable, Türkiye	**Sustainable Antioxidant Use in EPDM Based Rubber Compounds in Cable Applications**
P 4	**Ebru APAYDIN,** ADT Elastomer Çözümleri Sanayi A.Ş., Türkiye	**Influence of various types and amounts of carbon black on the stiffness of rubber bushings**
P 5	**Erdem AYDIN,** Standard Profil R&D Center, Türkiye	**The effect of extrusion process parameters on sponge profile cross-section and mechanical properties**
P 6	**Maurício AZEVEDO,** Polymer Competence Center Leoben, Austria GmbH	**Thixotropy in injection moulding liquid silicone rubber: Filler structure as a key feature for processing-related viscosity determination**
P 7	**Kanoktip BOONKERD,** Chulalongkorn University, Thailand	**Conductive nanocomposite of epoxidized natural rubber filled with carbonaceous fillers for strain sensing application**
P 8	**Eunji CHAE,** Sejong University, South Korea	**Study on morphology and composition of a single tire-road wear particle (TRWP)**
P 9	**Zühra ÇINAR ESİN,** Hacettepe University, Türkiye	**Identification of dynamic mechanical properties of radiation modified silicone elastomers by dynamic mechanical yerzley oscillograph**
P 1 0	**Suzan ÇİFTÇİ,** Seçil Kauçuk, Türkiye	**Investigation of the effect of waste onyx stone powder on the properties of ethylene propylene diene monomer (EPDM) rubber**
	Gokce DAGDEVIREN AKAN,	

P 1 1	İstanbul University-Cerrahpaşa, Türkiye	**Effect of different vulcanization systems on physical and dynamic properties of EPDM rubbers**
P 1 2	**Parth DHRANGDHARIYA,** Lalbhai Dalpatbhai College of Engineering, India	**Homopolymer based magnetorheological elastomer**
P 1 3	**Michaela DŽUGANOVÁ,** Slovak University of Technology in Bratislava, Slovakia	**Enhancing rubber sustainability: The role of lignin in rubber compounds**
P 1 4	**Sarah Elisabeth DECHENT,** Datwyler Schweiz AG, Switzerland	**Baseline study on the influence of sulfuric acid on the aging behavior of elastomer sealing materials in PEM fuel cells**
P 1 5	**Metin ERENKAYA,** Arsan, Türkiye	**Development of alternative compound for use in automotive turbocharger hoses**
P 1 6	**Hande EYVAZOĞLU,** Başoğlu Cable, Türkiye	**Effect of vinyl silane trated aluminium hydroxide and huntite on silicone rubber's flame retardancy**
P 1 7	**Burak GÜNER,** Arsan, Türkiye	**Preparation and characterization of advanced technology high damping earthquake isolator rubber composites**
P 1 8	**Yusuf GÜNER,** Standard Profile, Türkiye	**A novel approach to EPDM formulation optimization: Integrating nonlinear regression and stochastic optimization methods**
P 1 9	**Sezen GÜRDAĞ,** Danfoss Polimer Kauçuk San Paz A.Ş, Türkiye	**Effect of chain mobility in the rubber formula on the Tg and Arrhenius activation energy**
P 2 0	**Ergün Ümitcan GÜVENİR,** Hacettepe University, Türkiye	**Investigation of torsional behavior of no-backlash flexible couplings**
P 2 1	**Ajay HARIDAS CP,** Indian Institute of Technology Kharagpur, India	**Recyclable and crosstalk-free thermoplastic polyurethane-carbon materials based flexible electronics**
P 2 2	**Chesidi HAYICHELAEH,** Chulalongkorn University, Thailand	**Effect of modified palm oil on the properties of silica-reinforced SBR/BR blends**
	Halit L. HOŞGÜN	

P 2 3	Bursa Technical University, Türkiye	**Using devulcanized rubber in EPDM/PP blends**
P 2 4	**Jaeseok HYEONG,** Jeonbuk National University, South Korea	**Stretchable thermal conductive composites with modified-natural rubber for thermal management in flexible device**
P 2 5	**Junhwa JANG,** Jeonbuk National University, South Korea	**Secret coating consisting of photoisomerizable side-chain cyanostilbene and self-crosslinkable backbone polysiloxanes**
P 2 6	**Aylin KARAKURT SÜTCÜ,** Rekor Kauçuk, Türkiye	**Green tyre retreading: Advancing sustainability and efficiency in TBR systems**
P 2 7	**Süleyman Fatih KELEŞ,** Hacettepe University, Türkiye	**Finite element analysis of hyperelastic behavior and performance of rubber torsion suspension systems**
P 2 8	**Mehmet KİLİMCİ,** Melos Company, Türkiye	**Effect of zinc oxide on curing polychloroprene**
P 2 9	**Hyeyoon KO,** Jeonbuk National University, South Korea	**Azobenzene-based liquid crystal polymer networks with a photothermal effect for shape memory and self-healing properties**
P 3 0	**Ján KRUŽELÁK,** Slovak University of Technology, Slovakia	**Rubber composites based on ferrites and carbon fillers with EMI absorption shielding performance**
P 3 1	**Andrea KVASNIČÁKOVÁ,** Slovak University of Technology in Bratislava, Slovakia	**Electromagnetic interference shielding performance of rubber-based composites using soft magnetic ferrites as absorbers**
P 3 2	**Antoine MILLE,** Ecole Centrale de Lyon, France	**Experimental contact mechanics analysis of a rubber sample under complex loading representative of a rolling tire**
P 3 3	**Erdem MUTLU,** ICARBON Kimya Arge Mühendislik, Türkiye	**A new approach for waste rubber recycling "Hydrothermal Devulcanization"**
P 3 4	**Mintaek OH,** Jeonbuk National University, South Korea	**Multi-stimuli responsive smart skins based on ionic azobenzene reactive mesogens capable of controlling ionic conductivity and shape actuation**
	Hokuto OHURA,	

P 3 5	Nippon Soda Co., Ltd.,	**Properties of cured products by crosslinking of 1,2-Polybutadiene**
P 3 6	**Oğuzhan ÖRNEK,** Ferkan A.Ş., Türkiye	**Effect of molecular architecture on the low and high-temperature damping properties of poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) (GECO) elastomers**
P 3 7	**Sirilux POOMPRADUB,** Chulalongkorn University, Thailand	**Carbon dots from cup lump via hydrothermal process for fluorescent ink**
P 3 8	**Arshad Rahman PARATHODIKA,** Indian Institute of Technology, India	**Exploring hybrid cure system in EPDM rubber to achieve optimum performance properties**
P 3 9	**Minwoo RIM,** Jeonbuk National University, South Korea	**Thermo-responsive shape memory polymer network with outstanding thermal conductivity**
P 4 0	**Nikolas RYZÍ,** Tomas Bata University, Czech Republic	**How does heat development affect the cutting and chip wear of rubber**
P 4 1	**Sevda ŞAHAN,** Petrol Ofisi A.Ş. Technology Center, Türkiye	**Evaluation and characterization of resistance of polyacrylate (ACM) under different types application areas**
P 4 2	**Sevda ŞAHAN,** Petrol Ofisi A.Ş. Technology Center, Türkiye	**Investigation of the effects of the use of UV stabilizers in process oils on EPDM based rubber compounds**
P 4 3	**Gizem UZAN KAR,** ADT Elastomer Çözümleri Sanayi A.Ş., Türkiye	**Applying anti-reversion agents in chloroprene rubber to decrease marching cure**
P 4 4	**Wencai WANG,** Beijing University of Chemical Technology, China	**Mussel-inspired environmentally friendly dipping system for aramid fiber and its interfacial adhesive mechanism with rubber**
P 4 5	**Youngjae WI,** Jeonbuk National University, South Korea	**Porphyrin-based metallomesogens for thermal management materials**
P 4 6	**Dongmin YU,** Jeonbuk National University, South Korea	**Hierarchical superstructures of azobenzene-based polynorbornenes for smart denpols to remote-controllable actuators**

Website	https://www.irc2024.org
Date	October 9-11, 2024
Address	Pullman Istanbul Hotel And Convention Center Yenibosna Merkez Mah 1. Asena SK No:15 Bahçelievler 34295 ISTANBUL / TÜRKİYE Tel: +90 (212) 411 10 00

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