RUBBER Review

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RubberWorld

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A Weekly E-Magazine
for Global Rubber Industries

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Amit Jain - Director
Kesaria Rubber Industries Pvt. Ltd.

Edition # 2 | Hybrid Event

TechnoBiz LATEX WEEK

24-26 SEPT 2025 | CHENNAI, INDIA

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Training Course | Hybrid Event

TechnoBiz

EPDM Seals : Process Troubleshooting

23 September 2025, CHENNAI

GREEN PARK HOTEL | 10am-5pm

This training course on "EPDM Seals: Process Troubleshooting" provides practical knowledge to identify and resolve defects in EPDM seal manufacturing. It covers material basics, compounding, processing methods, and testing, with a strong focus on real-world troubleshooting in extrusion, molding, and assembly. Participants will learn how to improve product quality, reduce defects, and enhance production efficiency.

Course Content

- Introduction to EPDM Seals
- Material & Compound Issues
- Processing Equipment & Operations
- Extrusion-Related Defects
- Sponge & Solid Profile Issues
- Molding & Assembly Defects
- Final Application Failures
- Troubleshooting Strategy

Course Instructor

Mr. Dathathri Dharmarao is a well-experienced rubber technologist with extensive expertise in the processing, compounding, and troubleshooting of EPDM seals. With decades of hands-on experience in the automotive sealing industry, he has led technical teams in solving complex manufacturing challenges related to extrusion, molding, and quality control. His deep understanding of EPDM behavior under various conditions, along with a strong focus on practical problem-solving, makes him a highly respected expert and trainer in the field.

Registration Fee / Person

In-Person Participation

- Indian Delegates: Rs. 15,000
- Overseas Delegates: US$ 300

Online Participation

- Indian Delegates: Rs. 25,000
- Overseas Delegates: US$ 500

Remarks: GST 18% applies on above fees. Discount is Available for Group Registrations. Delegate Registration Fee subjected to increase one week before schedule. Registration fee includes lunch and refreshments.

PKR CONSULTANTS

PKR Consultants is authorized organization to process fee payments for delegate registrations and sponsorships from organizations based in India
GST: 37ALDPC9514F1ZB

Delegate Registration

Venue: Hotel Green Park
N.S.K. Salai, Arcot Rd, Vadapalani,
Chennai, Tamil Nadu 600026, India
https://hotelgreenpark.com/chennai/

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*A **New** Initiative for the Global Rubber Industry*

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Monthly Virtual Forum on Rubber Industry and Innovations

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RubberTech China 2025
September 17-18-19

The 23rd International Exhibition on Rubber Technology

Rubber Machinery	Rubber Chemicals	Rubber and Framework Material	Tire and Non-tire Rubber Products	Rubber Recycling & Tire Retreading

visitor registration

Sept.17-19, 2025
Shanghai New International Expo Centre
Hall W4,W5|N1,N2,N3

60000m²	800+	40000+	80+
Exhibition space	Exhibitors	Visiting Arrivals	Presentations

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NUM RUBBER & LATEX CO., LTD.

WE PRODUCE HIGH QUALITY NATURAL RUBBER LATEX

Quality Assurance

We operate a management system in accordance with the requirement of ISO 9001 : 2015 while compiling with international standards.

ISO 9001 : 2000

About Our Company

We are a Thailand-based manufacturer of high quality natural rubber and concentrated latex with more than 30 years of experience by the brand of "**NUMATEX**". For the past decades, we have supplied our products to **more than 50 countries** from all continents, particularly among Southeast Asia and European factories. We aim and will continue to be fully committed in leveraging natural rubber industry with new advancements for the best solution offered.

Our Story

Our company was established in 1987. We produce Concentrated Latex and Skim Rubber Block. Since then, our company has been growing significantly both in quantity and quality of our products. In 1987, we started the operation with only 4 centrifuge machines and with storage capacity of only 400 Metric Tons. At present time, we are producing concentrated latex with 33 centrifuge machines with storage capacity of up to 4,000 Metric Tons. Our biggest assets of the company are customer confidence on our product and skilled human resources. With these assets, we have received ISO 9001 : 2000 certification since 2004.

Concentrated Latex

Our Latex is available in various standardized specifications according to your company's requirement. Our latex is used by wide range of customers such as manufacturers of gloves, condoms, latex threads, rubber foam, adhesives, etc. Since 2021, **Production capacity** was expanded to **3,500 metric tons of concentrated latex per month** with 33 centrifuge machines.

Available Packing Options: Steel Drum, Flexibag, IBC, Tank Container

Skim Block

We produce high quality rubber skim blocks. Our product is light color in natural yellow-brown and fully dried with no odor. Various rubber parts, car tires, and shoes manufacturers are our major customers for Skim Blocks.

Corporate Sustainability

Our plant is operated under environmental-cautious mindset at all time. Sustainability has always been one of our top concern ever since the beginning. Our Solar system has been successfully implemented earlier in 2021 for the first phase.

Our own innovation of the Advanced Wastewater Treatment Systemhas successfully been appreciated by our locals and later it has been set a prototype system for all latex factories in Thailand to follow by Official Environmental-concern Authority and Thai Latex Producers and Exporters Association.

EUDR Latex

Our EUDR-compliant production line has been successfully implemented. Since November 2024, we have begun exporting EUDR latex to global markets, with full reporting in accordance with the EUDR (EU Deforestation Regulation) guidelines. This marks a significant milestone in our ongoing commitment to sustainable and responsible sourcing practices.

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COVER STORY

Conversation with ***Amit Jain,*** Director Kesaria Rubber Industries Pvt. Ltd.

In this issue of Rubber Review, we are proud to feature Amit Jain, Director of Kesaria Rubber Industries, as our cover story personality. With over 28 years of leadership in the rubber and sealing components sector, Amit Jain has transformed Kesaria into a trusted global brand serving more than 1400 customers across industries. Under his guidance, the company has grown into a state-of-the-art, ISO 9001:2015 certified manufacturer producing over 5 million high-quality parts daily, supported by a strong team of nearly 400 workers & over 100 professionals including engineers and executives.

Amit Jain's journey reflects the evolution of the Indian rubber industry itself—embracing advanced technologies, automation, and sustainability while building resilience in the face of global competition. Beyond business, he is also a thought leader, sharing his insights through his book The Branding Blueprint, where he emphasizes clarity, authenticity, and long-term vision in brand building.

In this candid conversation, Amit Jain discusses the opportunities and challenges for India's rubber and sealing industry, the importance of innovation and sustainability, his personal leadership journey, and his vision to position Kesaria as a global leader in sealing solutions by 2030. His story is not just about building a successful company, but also about inspiring a new generation of entrepreneurs to focus on quality, customer trust, and long-term growth.

Industry & Market Perspective

What is the current status of the Indian rubber industry in terms of innovation, global competitiveness, and growth potential?

India's rubber industry is rapidly growing due to government initiatives to boost manufacturing in India. As India benefits from a large domestic market, the growth potential for the Indian rubber industry appears optimistic. Demand is expected to rise, driven by expanding automotive, infrastructure, and defense sectors. The shift towards electric vehicles is opening new avenues for specialized rubber products.

How do you see Indian rubber manufacturers positioning themselves in the global market over the next 5–10 years?

Indian rubber manufacturers are focusing on advanced technologies and systems to meet global standards. With rising exports and innovation hubs, they aim to become key players in the global supply chain, and government support will definitely strengthen their global positioning.

What are the biggest challenges and opportunities for Indian companies looking to expand globally?

The biggest challenges include dependence on imports of the majority of raw materials, global price volatility, and meeting strict international quality standards. We need to build our capabilities to be able to fight the global competition from China and Italy. The Indian rubber industry is going to get huge opportunities due to geo-political reasons which are affecting the supply chain of all major developed countries. Also, the recent news on FTAs with the UK and EU nations will further help Indian companies compete globally.

The sealing industry is often seen as a hidden hero in multiple applications. What trends do you see shaping its future?

The sealing components are indeed very crucial yet often overlooked. They play a vital role across numerous applications ranging from Automotive and Aerospace to Industrial Equipment and Consumer Durables. A significant trend is the drive toward sustainability and eco-friendly solutions. Manufacturers are exploring recyclable, biodegradable, and low-emission sealing products to meet stringent environmental regulations and consumer preferences. Additionally, digitalization and automation are transforming manufacturing processes, improving precision and efficiency in sealing applications. Industry players are focusing on customizing solutions tailored to specific industry needs, driven by the rise of Industry 4.0 and increased demand for specialized sealing solutions in high-tech sectors like EV, Renewable Energy, and Aerospace.

Can India become a global leader in the sealing components space, and what would it take to get there?

Yes, India can become a global leader in sealing components by focusing on high quality and best industry practices. It needs more investment in research, modern factories, and skilled manpower. For this, strong government support and global partnerships are highly desired.

"With innovation, sustainability, and global partnerships, India is poised to emerge as a global leader in rubber and sealing components"


KESARIA
Sealing
Rubber, TPE
& PTFE
34
KESARIA

Technology, Innovation & Sustainability

How has technology shaped product development and manufacturing at Kesaria over the past two decades?

Over the past 20 years, Kesaria has invested heavily in the latest machines from the USA, Taiwan, Japan, and China. We have used these machines and tools to make our sealing products more accurate and precise. Technology has helped us speed up production and improve our quality levels.

Can you give us an example of a technology or innovation that significantly changed the game for your company?

One game-changing technology for us is the addition of Automatic O-ring Inspection Machines, which check each and every part for tiny defects at very high speed. This has helped us scale up our production and deliver 100% quality products to our customers. It has also reduced our dependence on skilled manpower, which is a major challenge in our industry.

You mention water conservation achievements in your company profile, how do you integrate sustainability into your product design?

We design and manufacture seals that last longer and prevent leaks in plumbing and bathware products, which is our major market. This helps save nearly 20,000 liters of water every day that would otherwise be wasted. In this way, our sealing products support both durability and sustainability.

How important is value engineering in maintaining profitability without compromising quality?

Value engineering helps us make smart design choices to reduce costs without cutting corners on quality. It allows us to use the right materials and processes for the best results. This keeps our products reliable and our prices competitive.

What role does automation play in scaling operations while maintaining Kesaria's customer service and flexibility?

Automation helps us make more products faster while keeping quality high and consistent. It also frees up our team to focus on custom orders and quick responses. This way, we grow without losing the personal service our customers expect.

Leadership & Brand Building

You joined the family business in 1997 - how has your leadership style evolved since then?

When I joined in 1997, it was a very small organisation. My focus was on hands-on learning of every process and solving daily issues. I started building a team around 2004, when we moved our factory to Binola, near Manesar in Gurugram. The focus shifted from doing to getting things done in 2015, which was a real turning point. I completed a training program that helped me develop strong systems and focus on team development. I began creating the organizational structure with my small team and eventually developed a second line of leadership. Now, my role in the organization is more strategic, empowering teams and driving innovation. I am truly focused on building a world-class organization with strong ethics and values.


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PIPES
THE BRANDING
BLUEPRINT

What advice would you give to entrepreneurs inheriting or joining a family business in today's market conditions?

Start by learning every part of the business from the ground up, don't skip the basics. Respect the legacy, but don't be afraid to bring in new ideas, especially in technology and automation. Stay humble, listen more, and focus on building a strong, future-ready team.

Your book, *The Branding Blueprint*, emphasizes brand positioning. What are the most common mistakes businesses make when trying to establish a brand?

One of the most common mistakes businesses make when trying to establish a brand is a lack of clarity. They don't clearly define what their brand stands for and who their target audience is. This is often followed by poor communication, where the tone, visuals, and messages differ across marketing platforms, confusing potential customers. Another major problem is copying competitors instead of creating a unique identity, which weakens the brand's impact. Many businesses also focus too much on the product and ignore the customer's needs and experience.

Lastly, short-term thinking can harm long-term brand value. Building a strong brand takes time, consistency, and most importantly, a clear and authentic vision.

What inspired you to write the book, and what response have you received from the industry?

With my 28 years of experience in this industry, I was inspired to write this book to share real, hands-on learnings from my business. Many people in the industry face similar challenges, and I wanted to offer them practical solutions. The new generation also needs guidance and hand-holding, and I am sure this book will be a useful tool in their journey. The response has been very positive and encouraging for me, and therefore I am about to release my second book now.

How do you define a "Success Brand" in the rubber and sealing industry?

A "Success Brand" in the rubber and sealing industry means being known for quality and reliability. We are trusted by our 1,400+ customers across various industries and are recognized for consistency in quality and timely service.

How do you the see the role of Trade Exhibitions in Building Brand & Business Growth?

Trade exhibitions play a big role in building a brand. We can showcase our products to many potential buyers in a very short time. From my experience over the last 10 years, and after participating in nearly 50 shows, we have been able to meet the right people who are the decision-makers, people who are often difficult to meet in their offices.

"Building a strong brand requires clarity, consistency, and long-term vision - while trade exhibitions open doors to the right decision-makers and lasting growth."


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Strategy, Management & Culture

You have worked with over 1,400 companies - what are the common traits of the most successful ones?

The most successful companies I have worked with treat their suppliers as strategic allies, not just vendors. This mindset leads to steady growth and long-term partnerships.

How do you approach inventory management across your three facilities and product lines?

We use an ERP system to track inventory in real time across all our facilities. It helps us balance stock levels, avoid overproduction, and respond quickly to customer needs. Regular audits and data-driven planning keep everything efficient and well-coordinated.

How do you maintain quality while managing daily output of over 5 million parts?

We have a team of nearly 15 people in the QC department, and we also provide them with regular training to upgrade their skills. We have built strong SOPs for strict quality checks at every stage to ensure consistency of quality. Advanced systems like Cryogenic Deflashing and Automatic Inspection Machines help catch even the tiniest defects before the parts are packed and shipped.

What's your approach to cultivating a strong company culture in a high-output manufacturing environment?

We always focus on teamwork, respect, and clear communication at all levels. By empowering our employees with training and involving them in problem-solving, we build ownership and instill accountability. We also encourage them to maintain a clean, safe workspace, which keeps their morale and productivity high.

How do you identify and retain top talent, especially technical staff in production roles?

We identify top talent through hands-on tests and attitude-based interviews to find skilled and committed people. Once hired, we provide them with a 100-page handbook that describes all the HR policies. We offer regular training to upgrade their skills. We have also clearly defined a career progression and growth path and shared it with our team. Above all, we have created a safe work environment where everyone receives equal respect.

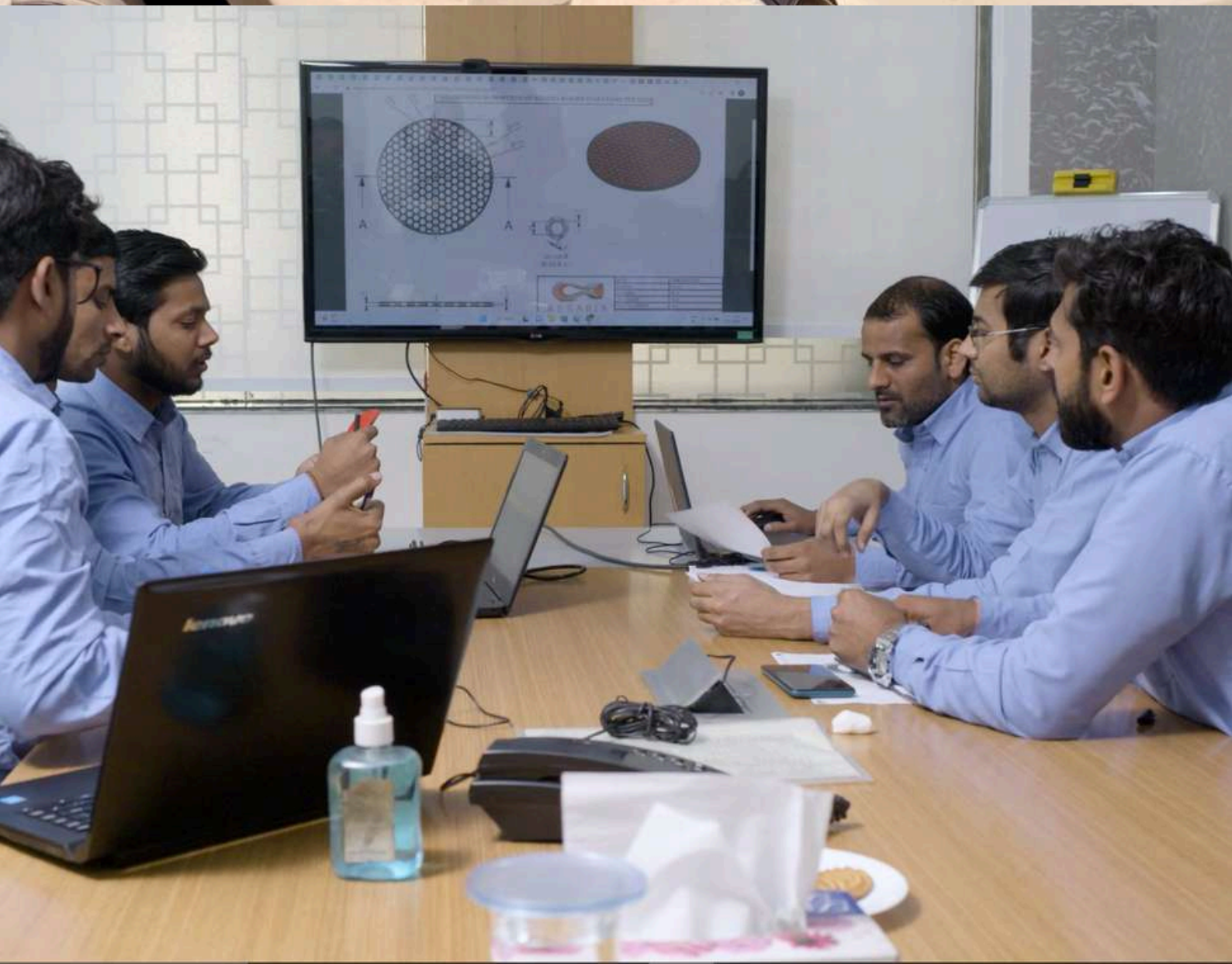
Entrepreneurial Mindset

How would you describe the mindset of Indian entrepreneurs today? what are their biggest strengths and blind spots?

Indian entrepreneurs today are bold, tech-savvy, and eager to scale globally. Their biggest strength is resilience and adaptability, as they find smart solutions even with limited resources. But a common blind spot is underestimating the importance of marketing and growth.

"Strong systems, quality focus, and a people-first culture are the keys to scaling successfully in the rubber industry."


AMIT JAIN
DIRECTOR



What do you see as the key mindset shift needed to move from a domestic to an international business outlook?
The key mindset shift is thinking beyond price and focusing on quality and consistency. International business demands global standards, strong branding, and long-term relationships. It's about playing the long game, not just selling, but building a reputation.

What personal habits or disciplines have helped you stay consistent over 28+ years in business?
I love journaling, and that's my routine. Scheduling and delegation of work are the basics of my work life. I also believe in solving problems immediately instead of delaying them. Most importantly, I stay curious and open to learning, even after 28 years.

What role has mentorship or networking played in your career journey?
My mentors helped me identify my real potential. I didn't know myself how much I could create and build. They have always guided me and shown me the path, which was initially difficult and made me very uncomfortable.

What's one piece of advice you would give to a 25-year-old entrepreneur starting in the rubber industry today?
Start by mastering the basics, understand your customers' needs inside out and then create the solutions accordingly. Focus on building a reputation for quality and reliability, not just playing the game of the lowest price.

Reflection & Vision

Looking back, what would you have done differently in the early years of growing Kesaria?
Looking back, I would have focused earlier on building strong systems and documentation, rather than just solving problems on the go. I also wish I had invested more of my time in marketing than in selling.

What is your proudest achievement so far in your entrepreneurial journey?
My proudest achievement is building a company known for high-quality sealing solutions that customers trust across industries. Starting with limited resources, we earned that trust through consistency, innovation, and a strong team. Seeing our products used in more than 27 countries and making a real impact is the most rewarding part.

What's next for Kesaria? Any major expansions, technologies, or partnerships on the horizon?
We are expanding our Binola facility and will soon add nearly 35% to our current production capacity. We are also working on increasing automation in manufacturing processes to reduce our dependence on skilled manpower.

If you had to summarize your vision for Kesaria in one sentence, what would it be?
Become a global leader of rubber sealing components by 2030.

How can young professionals or startups collaborate with Kesaria or learn from your journey?
We welcome fresh brains and young minds to work with Kesaria through internships or collaborate on development projects. We are always open to sharing our journey through mentorship, factory visits, and knowledge sessions. I am also sure that we will learn something new from these young people in the process.

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Formulation giving you headaches?

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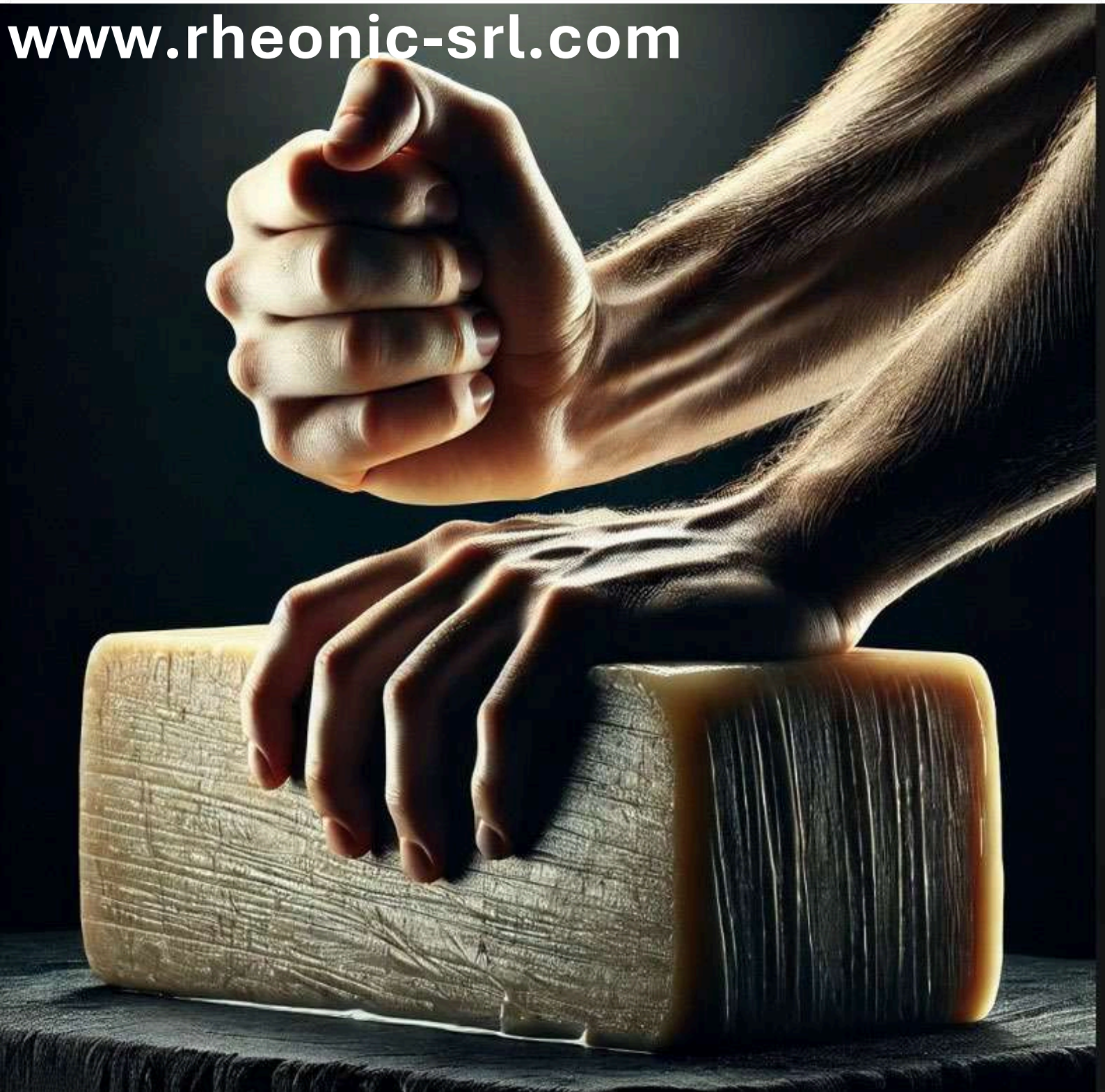

RUBBER Review

Issue 18 | 15-21 September 2025

IRMRI Spotlight

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly known as Indian Rubber Manufactures Research Association(IRMRA)
An Autonomous Institute, Under DPIIT, Ministry of Commerce & Industry, Govt. of India
254/1B Road No 16V, Wagle Industrial Estate, Thane West, Maharashtra 400604.
Email: info@irmra.org /www.irmri.org/022 6787 3200 (19 Lines)

Indian Rubber Materials Research Institute (IRMRI) formerly known as Indian Rubber Manufacturers Research Association (IRMRA), which was established in 1958 is an internationally well-known Centre of Excellence for providing technological services to both Non-tyre & Tyre sectors.

It is an autonomous institute under the Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India.

IRMRI Facilities Covers

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DR. DEBDIPTA BASU - 8197606600
Mrs. Reenu Mehra - 9810141681

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29th & 30th SEPTEMBER
REGISTRATION STARTED

WHAT TO LEARN?

- Basic Rubber Technology & Introduction to general and special purpose rubbers used in rubber compounds
- Role of compounding ingredients in designing of rubber compounds
- Role of Physical & Chemical Testing in the development of rubber compounds Formulation design of rubber compounds

WHO SHOULD ATTEND?

- Quality Control Managers/ Engineers/ Executives working in the Rubber Industry.
- New Entrepreneurs, Automotive Engineers, Start-up Personnel.
- Process Engineers, Chemists, Students & Facilities.
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  Account type-Current
  Account GST:-27AAAAT7089F1Z6.

CERTIFICATE:

- All the participants will be awarded with a Certificate of Completion.

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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IRMRI-DELHI ANNOUNCES 2 DAYS TRAINING PROGRAM ON

COMPOUNDING AND TESTING OF RUBBER PRODUCTS

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DATE: 24th -25th September 2025 **TIME:** 10 AM- 5:00 PM

VENUE: Prop. No. 111/9, 3rd Floor, Kishangarh, Vasant Kunj, New Delhi - 110070

Key Things to Learn

- Basic Rubber Technology & Introduction to general a special purpose rubbers used in rubber compounds.
- Role of compounding ingredients in designing of rubber compounds.
- Role of Physical & Chemical Testing in the development of rubber compounds Formulation design of rubber compounds.

Who Should attend?

- Quality Control Managers/ Engineers/ Executives working in the Rubber Industry.
- New Entrepreneurs, Automotive Engineers, Start-up Personnel.
- Process Engineers, Chemists, Student & Facilities.
- Supervisors, Shop-floor operators, Formulation developers.

REGISTRATION FEE

- Per Candidate - Rs. 8,000 + 18% GST (Non – Residential)
- Payment to be made in advance by NEFT/DD/Cheque/ UPI in favour of IRMRI, Payable at Thane

Disclaimer: Please note, that the date and venue for the training program are subject to change. In the event of any changes, we will notify you at least 3 working days prior to the scheduled date

CONTACT US

Scan the QR Code to explore our comprehensive training programs, course schedules, and exclusive resources for achieving NABL accreditation.

https://irmri.org/

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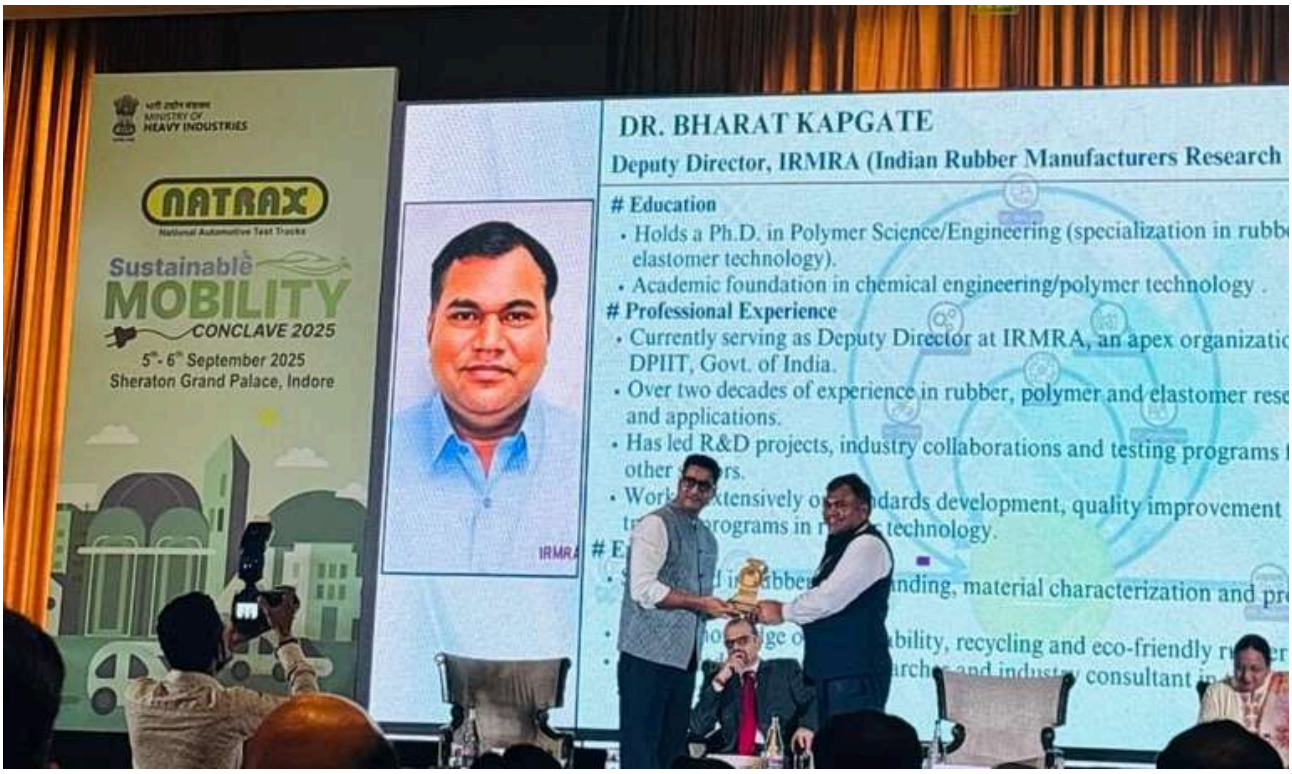
N SNEHA- irmri.nc2@irmra.org / 8657019073
V. KARTHIKEYAN- veerappan.karthikeyan@irmra.org / 7045086164/ 9361324212

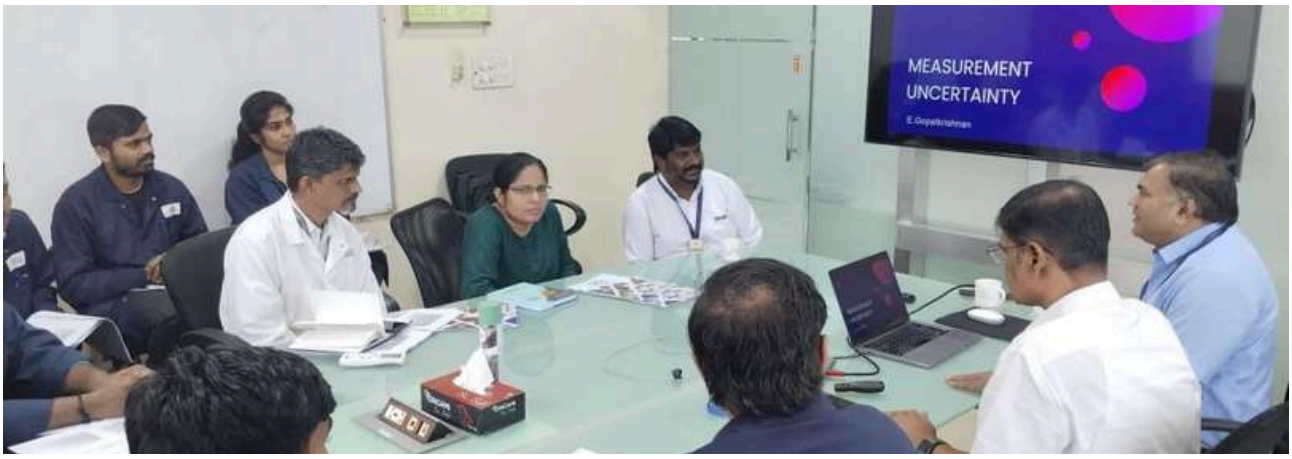
IRMRI Participates in Sustainable Mobility Conclave 2025

The Sustainable Mobility Conclave 2025, held on 5–6 September in Indore and organized by NATRAX, brought together key stakeholders to discuss pathways toward greener transportation. A highlight of the conclave was the keynote address by Dr. Bharat Kapgate, Deputy Director – IRMRI, titled "Innovating Rubber for a Greener Tomorrow: EPR and Circular Mobility Pathways." His presentation emphasized the pivotal role of Extended Producer Responsibility (EPR) and circular mobility models in building a sustainable future. He underscored the importance of next-generation rubber innovations, collaborative industry–research–policy efforts, and the need for resilience in the mobility ecosystem. The session was well received as it directly connected rubber innovation with broader sustainability challenges in mobility, showcasing actionable insights for the industry. Appreciation goes to NATRAX Indore for successfully hosting this forward-looking conclave and to all participants contributing to shaping the roadmap for sustainable mobility.



IRMRI Conducts Training on Measurement of Uncertainty at SGS India, Thane

IRMRI successfully organized a One-Day Training Programme on “Measurement of Uncertainty – Chemical & Mechanical Measurements” for the internal staff of SGS India Pvt. Ltd., Thane, on 11 September 2025. The programme was inaugurated by Dr. Bharat Kapgate, Deputy Director – IRMRI, who highlighted the importance of continuous learning in strengthening technical capabilities. The technical sessions were delivered by Mr. Gopalakrishnan, who shared in-depth expertise through practical insights, real-world case studies, and interactive discussions. Participants actively engaged in Q&A sessions, making the training lively, collaborative, and impactful. The workshop emphasized the critical role of accurate measurement and calibration in ensuring reliable analytical outcomes.This initiative not only enhanced the skills of SGS staff but also reinforced the value of industry–academia collaboration in driving knowledge-sharing and professional development. IRMRI appreciates the enthusiastic participation of the SGS India team and looks forward to delivering more such impactful training programmes to empower industry professionals.



Weatherometer

Introduction about Weatherometer : A Weatherometer is a sophisticated laboratory instrument designed to simulate long-term environmental exposure in a controlled setting. By replicating conditions such as sunlight, moisture, and temperature fluctuations, it accelerates the aging process, enabling manufacturers to assess material durability and performance under harsh weathering conditions. This ensures products meet stringent quality standards and perform reliably in real-world applications across various industries. In IRMRI, the Q-SUN Xe-3 machine is used.

Standards and Their Purpose

- ASTM D 4587-11: defines UV and condensation testing procedures to assess paint and coating durability under weathering.
- ASTM G 151-10: guides accelerated weathering tests using artificial light for plastics and other materials.
- ISO 4892-2: Outlines xenon-arc exposure methods for plastics and coatings to simulate sunlight and weathering effects.
- ISO 16474-2: Defines xenon-arc testing protocols for paints and varnishes, focusing on UV resistance and color stability.
- ISO 105-B02: Tests color fastness of textiles under artificial light, simulating sunlight exposure.
- ISO 105-B04: Evaluates textile color fastness under artificial weathering, including UV and moisture.
- ASTM 750-12: Standard Practice for Rubber Deterioration using artificial weathering apparatus.

Uses and Benefits: The Q-Sun Xenon Test Model Xe-3 measures color fading, gloss retention, surface degradation, mechanical strength, and flexibility in materials such as rubbers, plastics, coatings, paints, leather, and textiles under UV light, moisture, and temperature cycles, by ASTM and ISO standards. It predicts long-term performance, identifying issues such as cracking or discoloration, thereby benefiting industries like automotive, textiles, coatings, plastics, and leather by ensuring durable, high-quality products.

Sectors Benefits: Rubber, textiles, paints &coatings, plastics, and leather industries.

Contact us: Email: veerappan.karthikeyan@irmra.org / ab@irmra.org
Contact no: 9361324212 / 90220547
Location: 254/1B Road no 16 V, Wagle Industrial Estate, Thane, Maharashtra 400604 India

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公司介绍 Company introduction

Wuxi Double Elephant Rubber & Plastics Machinery Co., Ltd （DE） affiliated with Jiangsu Double Elephant Group, covering an area of 100, 000 square meters , with over 40 years of history , is a modernized technology enterprise which is engaged in R&D, manufacture and sales and after-sales service in the field of Rubber & Plastics Machinery .

We are specialized in the production of rubber and plastics machinery equipment: calender and auxiliary machine series, open mill series, mixing kneader series, rubber extruder series, rotary curing series, wide rubber sheet extrude calendering line, rubber conveyor belt calendering line, tire inner liner calendering line, PVC artificial leather/ film/rigid sheet calendering line, PVC flooring calendering line etc.

Our Products are very popular in China and have been exported all over the world, such as Europe, the United States , Japan, Southeast Asia, India, Turkey, South America, etc. In rubber machinery field, DE has established a good partnerships with domestic R&D institute , large scale tire enterprise, rubber product manufacturers such as Beijing R & D Institute of Rubber Industry , Guiling rubber industry R&D institute, Bridgestone (Japan), Toyo Tire (Japan), Yokohama(Japan), Continental Tire (Germany),Michelin (France), Trelleborg (Sweden),Camso(Canada),Kumho Tire (Korea), Apollo(India),MRF （India） ,CST Tire(Taiwan), Kenda Tire(Taiwan),Linglong Tire, Triangle Tire, General Science Technology, Wanli Tire, Boton Technology , etc.

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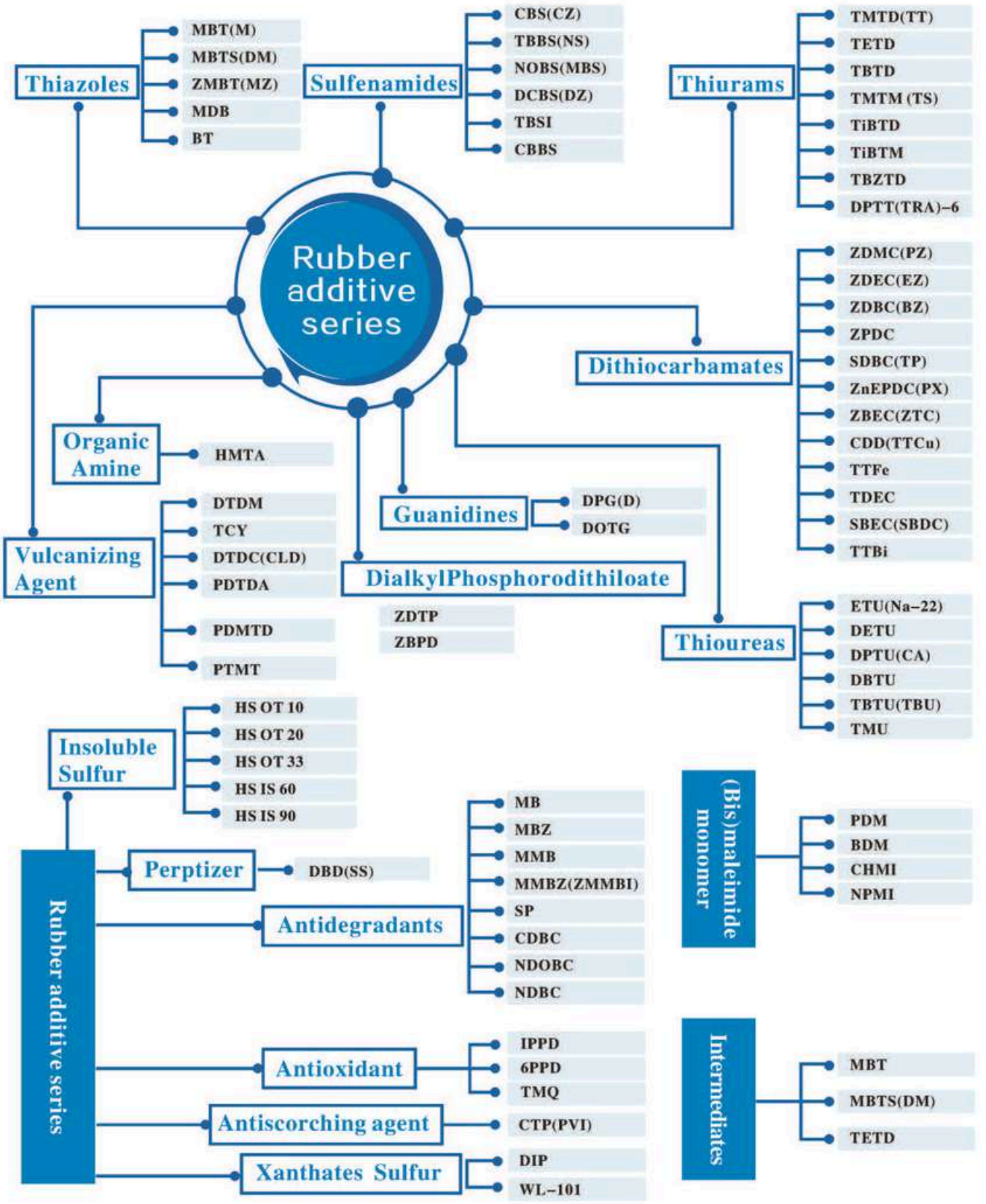

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About Us

QingDao Xiang Run Hao Import and Export Co., ltd (Former name is Qingdao RuiTongFa rubber machinery works, which is founded in 2003) is a professional manufacturer for rubber machinery and rubber moulds such as rubber injection machine, vacuum plate vulcanizing press and automatic plate vulcanizing press, rubber joint machine. We exported rubber machine and rubber moulds to many countries such as India, Chile, Belarus, South America, South korea, South-East Asia, Japan and Russia etcs.

The total export amount is up to more than ten million US dollars.

Through many year's development, constant research and inovation, we became a bigger company with several factories to producing Automatic Vulcanizing Machine, Rubber Injection Molding Machine, Mixing Mill kneader, many kinds of rubber moulds and rubber products. We also supply technology service, rubber compound formula and moulds designing according to custmers requirements and production samples. We wish to co-operate with all customers on the basis of equality and mutual benefit.

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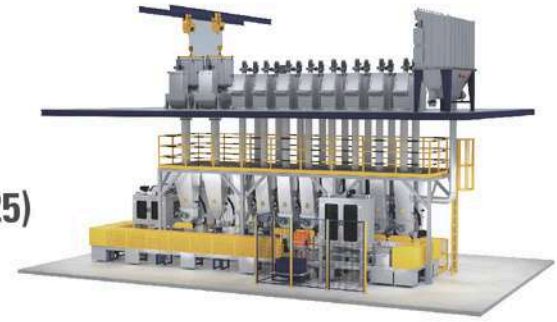

Beijing Mach Tiancheng Technology Co., Ltd.

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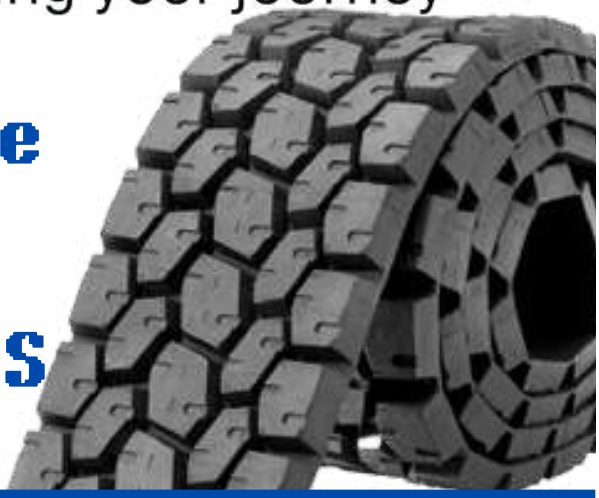

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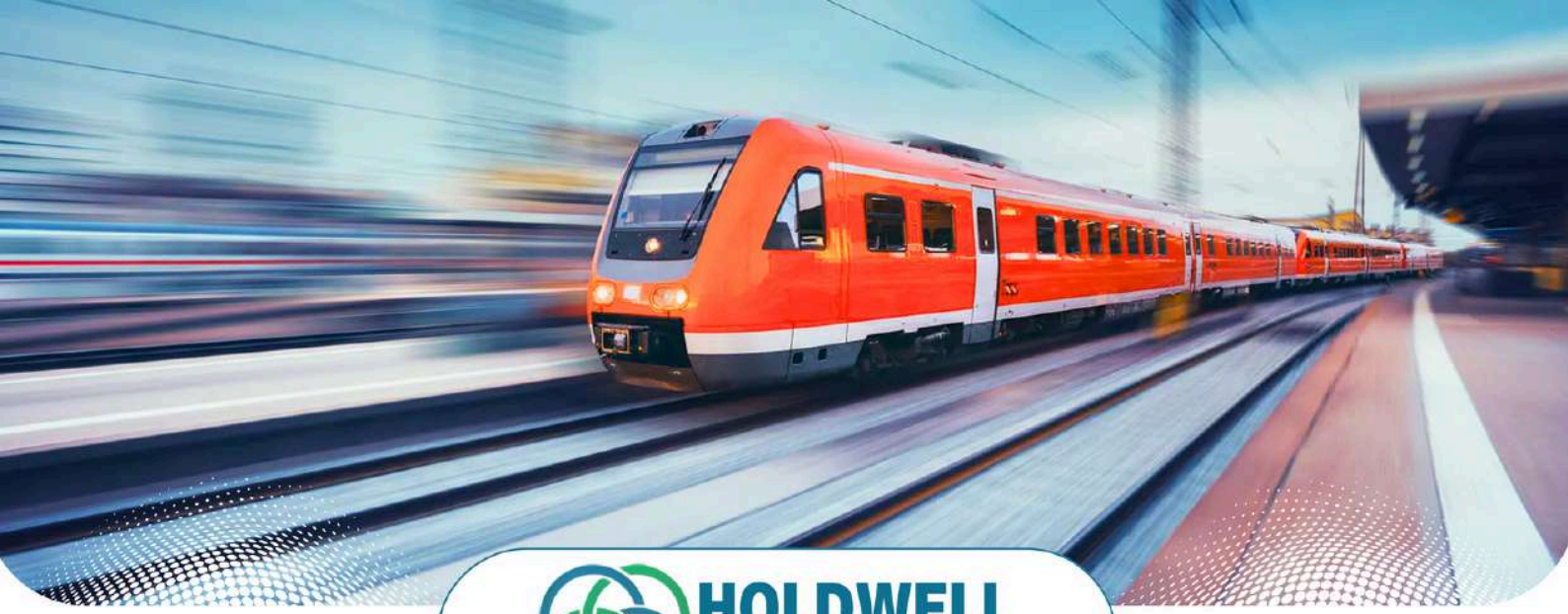

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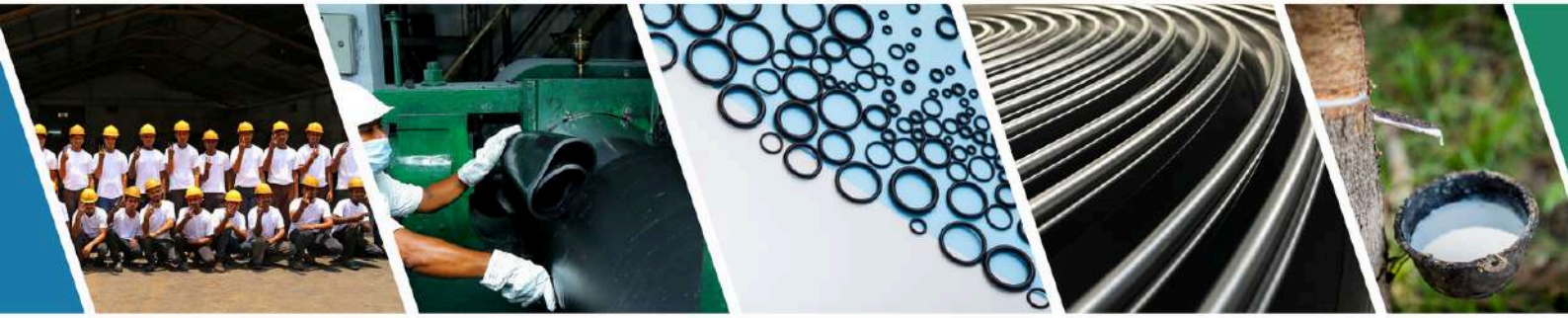

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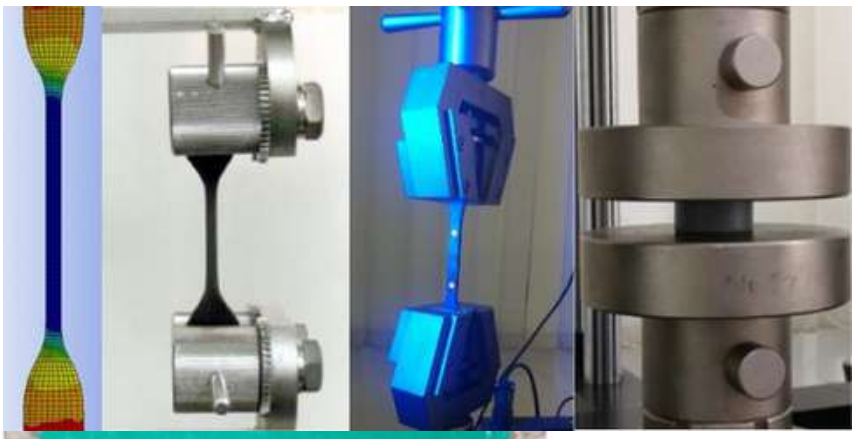

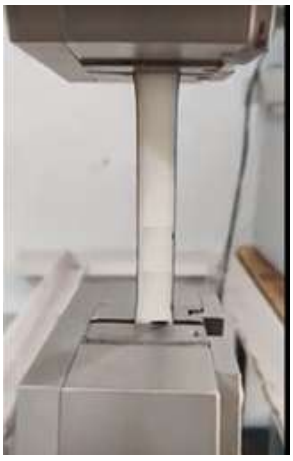

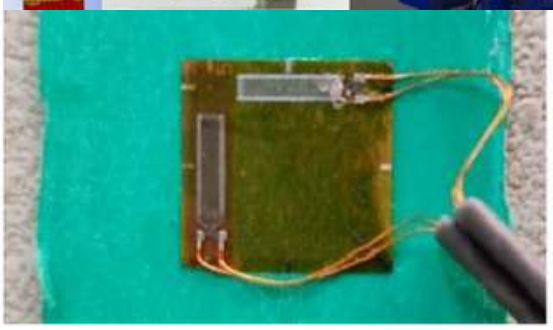

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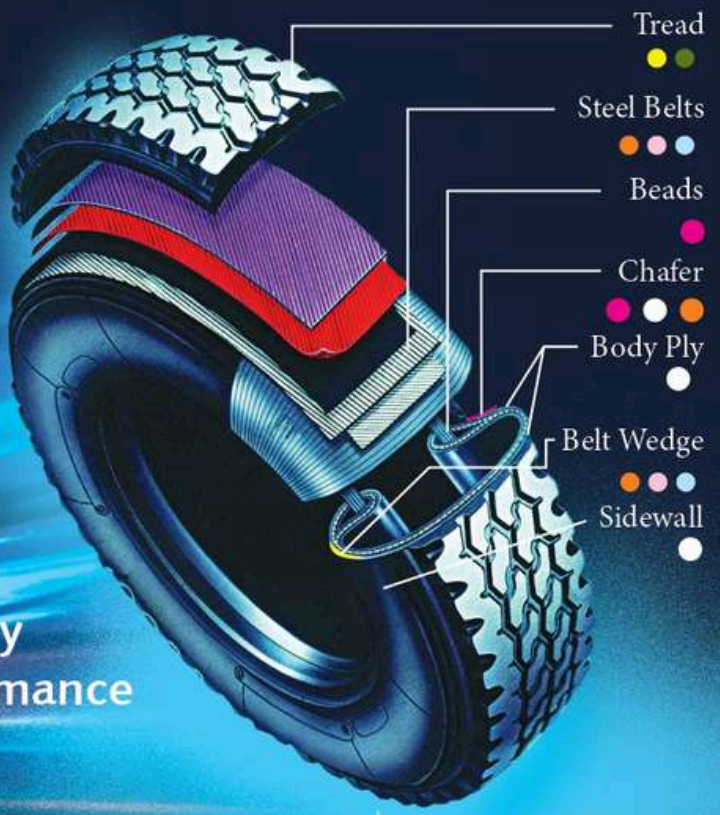

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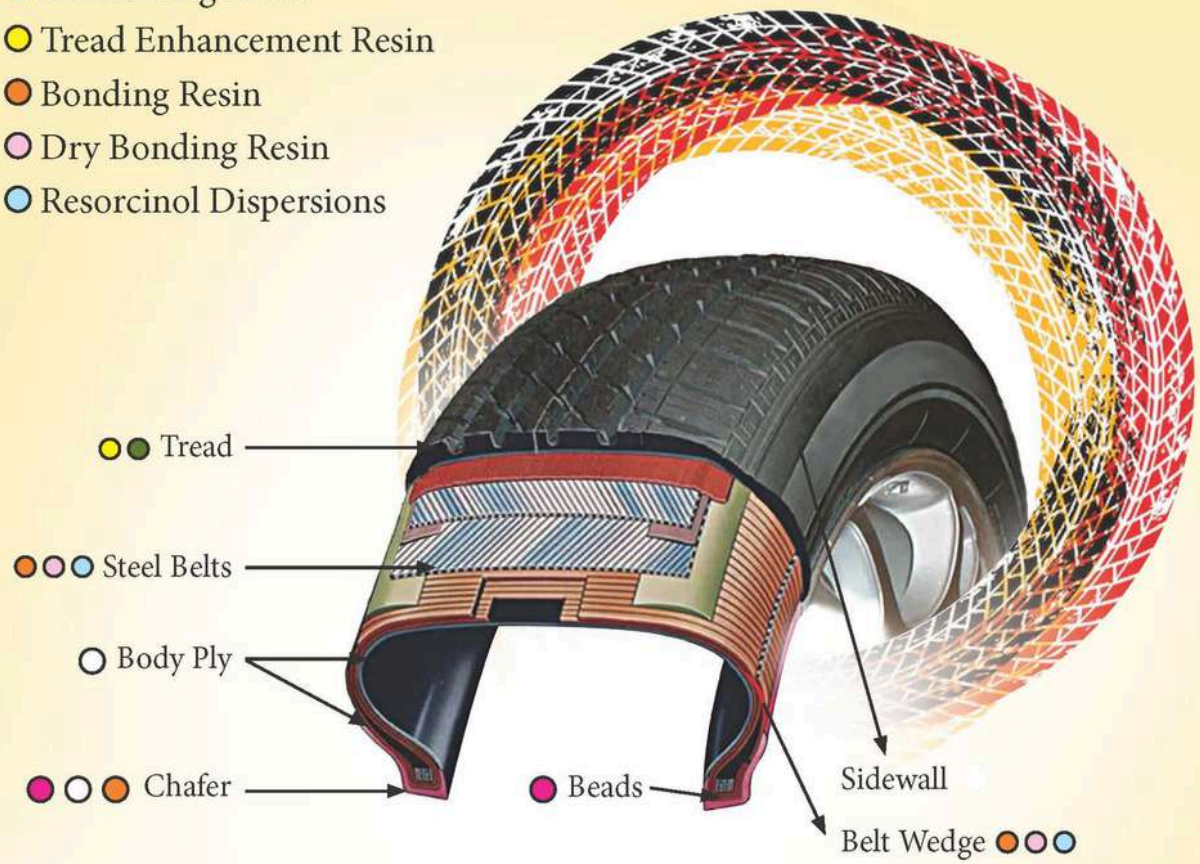

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RUBBER BUSINESS NEWS

RUBBER Review

Kuraray Establishes "Kuraray Asia Pacific Technical Center" in Singapore

Kuraray Co., Ltd. (Headquarters: Chiyoda-ku, Tokyo; President: Hitoshi Kawahara) announced that its local subsidiary in Singapore, Kuraray Asia Pacific Pte. Ltd. (Headquarters: Jurong Island, Singapore; President: Shintaro Hikasa), has established the "Kuraray Asia Pacific Technical Center" in Singapore Science Park as a technical support base for the Asian market.

The Technical Center will perform as a base of technical support for the Asian market, focusing on PVOH resin, EVAL™ EVOH resin, and activated carbon, of which demand are growing in the region. The Technical Center is equipped with facilities necessary for material evaluation and analysis as well as investigation of advanced technologies, that enables prompt and specialized solution proposal to satisfy local customer's needs. It also serves as a platform for open innovation, generating new value through product demonstrations and collaborative development with customers.

Furthermore, by leveraging its location in Singapore Science Park, where advanced research and development facilities are concentrated, the center aims to accelerate market development and secure global talent through collaboration with a wide range of people and companies.

An opening ceremony was held at the Technical Center on September 1, and Mr. Lim Wey-Len, Executive Vice President at the Singapore Economic Development Board, said: "We welcome Kuraray and other like-minded companies to leverage Singapore's innovation ecosystem, talent pool, and regional connectivity to scale impactful and sustainable solutions from here." In addition, Tomoyuki Watanabe, Director and Managing Executive Officer, and President of the Vinyl Acetate Resin Company at Kuraray, shared his enthusiasm: "By offering a place for co-creation with our customers, we hope to drive the rapid market growth in the region."

More Sustainable Tires: Continental Uses Synthetic Rubber Made From Used Cooking Oil

Continental is prioritizing the use of renewable and recycled materials in its tire production. While the share of these materials averaged 26 percent in 2024, the tire manufacturer expects an increase of 2 to 3 percentage points by the end of this year. In just five years, by 2030, this figure is expected to rise to at least 40 percent. Among other materials, the focus is on rubber and resins from various more sustainable sources. Both materials are essential for the quality and performance characteristics of tires.

Synthetic rubber from renewable and recycled materials and responsibly sourced natural rubber play a crucial role in more sustainable tire production. This is due not least to the high content of this key raw material in every tire produced, with modern high-performance tires consisting of up to 40 percent rubber by weight. The actual type of rubber used in a particular tire depends heavily on the component in question and the function it performs. Continental car tires are composed of up to 100 different raw materials, which in turn are used to produce up to 20 different customized rubber compounds per article, among other things. These also contain more and more recycled variants of additives and supplementary raw materials as well as circular resins that make the resulting rubber more pliable and improve overall tire performance.

"We're closing the loop: Continental is ramping up its commitment to a circular economy and mapping out its path for the future," says Jorge Almeida, head of Sustainability at Continental Tires. "Innovative solutions enable us to use more sustainable raw materials, such as synthetic rubber made from used cooking oil or resins based on certified renewable feedstocks originally derived from vegetable oil."

Synthetic rubber from recycled cooking oil

Rubber is a vital commodity for global mobility. Vehicles such as cars, trucks, bicycles and e-bikes all rely on rubber tires to keep them moving, as do motorbikes, forklift trucks and port cranes. The components that make up a tire consist of various types of rubber spanning a range of applications. Continental mainly uses two categories of rubber, each offering specific technological benefits for specific tire components: natural rubber and synthetically produced rubber. Natural rubber – the type traditionally used in tire production – is used, for example, in the treads of car and truck tires, where the rubber needs to be extremely hard-wearing. Its special properties include its impact resistance and durability, thanks to the strain-induced crystallization inherent in naturally grown rubber. This unique feature of natural rubber cannot yet be reproduced artificially.

Synthetic rubber, meanwhile, is incorporated into the tread of car tires in addition to natural rubber because of its superior braking performance and rolling resistance. The tire manufacturer is increasingly using synthetic rubber derived from more sustainable sources, such as for example pyrolysis oil made from end-of-life tires or used cooking oil. It sources the raw materials for this more sustainable synthetic rubber from suppliers such as Synthos and TotalEnergies Cray Valley, both of which are using a mass balance approach valorizing sustainable sources certified by the ISCC PLUS International Sustainability and Carbon Certification. The production processes and raw materials used to manufacture the synthetic rubber supplied comply with this system.

Circular resins for more sustainable use of materials in tire production

Continental takes a holistic approach to its tire development. This includes ensuring that all raw materials are sourced from more sustainable sources step by step. For example, there are special resins for almost every rubber compound that enable a perfect balance between the elasticity and resilience of the tire. Resins play a crucial role in unlocking rubber compounds' optimum performance – for example, by improving their wet grip, abrasion resistance and rolling resistance – which in turn reduces the vehicle's energy consumption. Continental already uses circular resins produced by suppliers like TotalEnergies Cray Valley that are ISCC PLUS-certified sustaining along the value chain the development of renewables feedstocks originally coming from vegetable oil or used cooking oil.

Use of more sustainable additives

Alongside resins, certain additives also constitute an indispensable part of the tire production process at Continental. These are used, for example, to protect rubber during vulcanization against the side-effects of heat or oxygen. Continental is the first tire manufacturer using the ISCC PLUS-certified rubber additive TMQ from LANXESS, while adhering to the same high quality and performance specifications. According to life cycle assessments, this additive, which is produced from raw materials such as biocircular acetone, has a carbon footprint that is more than 30 percent lower than its conventionally manufactured counterpart. Biocircular acetone is made from waste of biological origin, like recycled cooking oil.

Traceability of mass balance-certified materials

The use of such sustainable materials is made possible, among other things, by the mass balance approach, which Continental systematically uses to advance its goal of using at least 40 percent renewable and recycled raw materials in tire production. The approach involves mixing fossil, renewable and recycled materials during the manufacturing process and tracking them as they move along the value chain. This allows the company to attribute the input of renewable and recycled raw materials to the output of the final product and thus precisely document – and successively increase – the use of ISCC PLUS certified materials. "The mass balance approach enables us to efficiently manage the complexity of the raw materials portfolio and track how these raw materials are used at multiple production sites in a wide range of markets," explains Matthias Haufe, head of Material Development and Industrialization at Continental Tires. "In this way, we can steadily increase the share of renewable and recycled materials in our tire production – and transparently document the progress we make."

Jorge Almeida, head of Sustainability at Continental Tires.

Matthias Haufe, head of Material Development and Industrialization at Continental Tires.

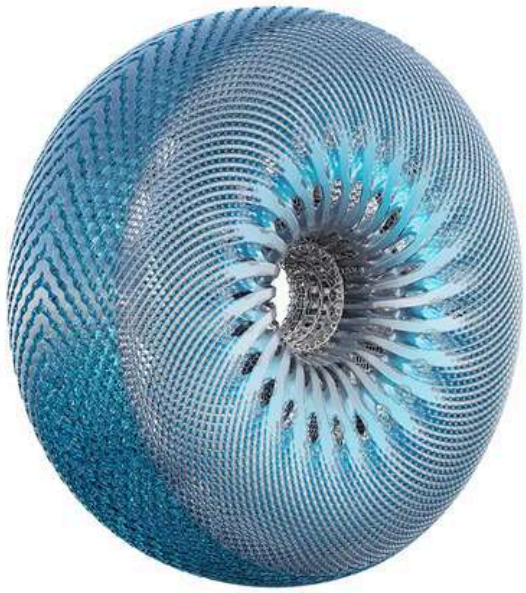
Hankook Tire Unveils Innovative Design Outcomes at 'Design Innovation Day 2025'

Global leading tire company Hankook Tire & Technology (hereafter Hankook Tire) hosted the 'Design Innovation Day 2025' event on September 11 at its headquarters, the 'Technoplex,' located in Pangyo, Seongnam, Gyeonggi Province.

'Design Innovation Day' serves as a platform for Hankook Tire to showcase its mobility technology vision and innovative design achievements, while presenting new solutions that integrate innovation, design, and sustainability. The event also reinforces collaboration with global partners to accelerate the company's leadership in future mobility.

This year's event brought together Hankook employees and key partners, including LG Electronics, Harvestance, and CALMANTECH. The gathering highlighted innovative design achievements and visions spanning sustainable manufacturing innovations enabled by 3D printing, robotics, and autonomous driving technologies.

During the event, Hankook Tire unveiled two outcomes from its Design Innovation Project. 'Sustainable Concept Tire,' the first reveal, was developed under the theme of "Future Sustainability" using advanced 3D printing technology. Utilizing renewable and recycled materials, the tire embodies the company's ESG vision for sustainability. Its distinctive organic design was realized through a collaboration with Harvestance using the software 'NTop.'



Hankook Tire also unveiled and demonstrated the multi-directional mobility platform 'WheelBot 2.' 'WheelBot 2' is an advanced version of the first-generation model co-developed in 2022 through a technology partnership with robotics startup CALMANTECH. It features a robotic wheel system equipped with tri-axial spherical tires. As part of the demonstration, Hankook showcased the 'PathCruizer,' a concept model powered by 'WheelBot 2' with a two-seater pod, presenting a differentiated solution that highlights new possibilities for future mobility services.

The event also featured a presentation by In-baek Park, Team Leader at LG Production Engineering Research Institute, on the topic of "Advancements and Importance of 3D Printing Technology." The session provided valuable insights into the latest technological trends and fostered knowledge sharing among participants.

Hankook Tire is also accelerating its efforts to strengthen technology leadership by actively pursuing Open Innovation initiatives with leading domestic and global companies and institutions. Through these collaborations, the company continues to advance its technological capabilities and drive innovation across the mobility industry.

Since 2012, Hankook Tire has been driving the 'Design Innovation Project' in collaboration with leading design universities worldwide, including the University of Cincinnati in the U.S., the Royal College of Art in the U.K., and Pforzheim University in Germany. The company is also advancing innovation in future mobility through ongoing technology partnerships with LG Electronics, Rainbow Robotics, CALMANTECH, and other key partners.

Building on these efforts, Hankook Tire has consistently achieved outstanding results at prestigious global design awards, including the Red Dot, iF, and IDEA awards, further solidifying the premium stature of its unified global brand, 'Hankook,' and enhancing its global recognition.

Looking ahead, Hankook Tire plans to further enhance its global competitiveness by continuing to drive technology and design innovation, leveraging its state-of-the-art R&D infrastructure, one of the most advanced in the tire industry.

PIRELLI WINS INTERNATIONAL 'COMPASSO D'ORO' PRIZE

Pirelli has been given the ADI International Compasso d'Oro Award, one of the most recognised prizes in the field of industrial design, which was established in 1954. Thanks to its innovative technological features, the Pirelli P Zero E is the first tyre ever to receive this prize, specifically in the Design for Mobility category. The ceremony took place during a special international edition of the Compasso d'Oro Awards, which is celebrating its 70th anniversary at Expo 2025 in Osaka, Japan.

This year, the Compasso d'Oro Award was inspired by the Expo theme – Designing Future Society for our Lives – with Pirelli awarded in one of the key areas: Connecting Lives. This is about connecting people through the development of technologically advanced products featuring reduced environmental impact, such as the P Zero E: the first tyre in the world designed with an unprecedented percentage of natural and recycled materials, especially in the high-performance segment for which it is intended. As a perfect synthesis of industrial design, sustainable innovation, and technology, this tyre represented a revolutionary turning point for the industry.

The Pirelli P Zero E was launched in 2023 as the first Ultra High Performance tyre in the world with more than 55% bio-based and recycled materials, maintaining performance and safety even in challenging conditions such as wet asphalt. Performance, efficiency, and comfort are highlighted by a triple "Class A" score for wet grip, rolling resistance, and noise on the European tyre label. This tyre is designed to maximise electric and plug-in hybrid vehicle efficiency (with the capability of increasing mileage by up to 10% thanks to Elect technology[1]) and is equipped as standard with Pirelli's most advanced proprietary technologies including RunForward, which allows driving to continue even after a puncture. This is an invisible revolution that is nonetheless capable of setting a new direction for the development of future tyres, claiming the "Tyre of the Year" prize at the 2023 Automobile Club de France Awards.

As a result, P Zero E is at the vanguard of Pirelli's technological innovations alongside Cyber Tyre: the world's first hardware and software system capable of collecting information from embedded sensors within the tyres and processing that data via proprietary software and algorithms. This enables new vehicle functionalities, as well as integration with other digital environments such as smart roads and smart cities.

Collecting the award, Piero Misani, Pirelli's Executive Vice President and Chief Technical Officer, said: "This prestigious recognition celebrates Pirelli's design excellence and the innovative scope of products like P Zero E, confirming the role of research and development as a driver of progress and sustainability. Our constant commitment in the field of R&D has made Pirelli a benchmark in the global industry for technological innovation and cutting-edge solutions for future tyre development, thanks to the use of new materials with reduced environmental impact and the increasingly widespread use of advanced artificial intelligence throughout every phase."

THE P ZERO E AT EXPO 2025 OSAKA

Together with this year's other winners, the P Zero E will be featured as part of an exhibition in the Italian Pavilion, before entering the permanent collection of the ADI Design Museum in Milan. In line with the Expo theme – "Designing Future Society for Our Lives" – the P Zero E embodies a modern vision of mobility, connecting people and positioning itself as a benchmark for sustainability and circularity thanks to the use of recovered materials such as lignin. This tyre was developed with data-driven and artificial intelligence-based technologies, involving all major Pirelli R&D centres worldwide as well as numerous collaborations with universities, specialised centres and suppliers.

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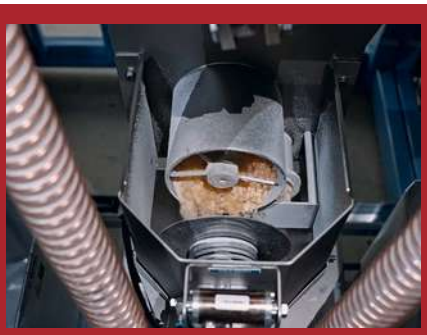

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PROGRAM AGENDA

09:00-09:30	Registration
09:30-09:45	Welcome Remarks & Program Introduction
09:45-10:15	**Processing of EPDM and its Blends** I *Dr. P Thavamani, Managing Director, UMAC Automotive Components Pvt. Ltd.*
10:15-10:45	**EPDM Rubber: Recent Global Research Perspectives** *Prof. Kinsuk Naskar, Chairperson, Rubber Technology Centre, IIT Kharagpur*
10:45-11:15	***Application of EPDM Rubber*** I *Dr. P Thavamani, Managing Director, UMAC Automotive Components Pvt. Ltd.*
11:15-11:45	**Coffee/Tea Networking Break**
11:45-12:15	**Modified EPDM use as Alternative Material for 6PPD in NR and SBR Formulations** I *Dr. Mohammed Saleem, Senior Scientific Officer, Indian Rubber Materials Research Institute (IRMRI)*
12:15-12:45	**Developing Sustainable Materials Roadmap for EPDM** I Dow
12:45-13:15	**Bio-based EPDM: Green Cross-linking Strategy** I *Barkat Aziz, Research Scholar, Rubber Technology Centre, IIT Kharagpur*
13:15-14:00	Lunch Break
14:00-14:30	**Vulcanization of EPDM Rubber: Pros and Cons of Various Vulcanizing Agents I Prof. Kinsuk Naskar, Chairperson, Rubber Technology Centre, IIT Kharagpur**
14:30-15:00	**Curing EPDM with PEROXIDES - a decade of Learnings** *Karthik Raghupathy, Managing Director, Shree Polymer Products*
15:00-15:30	**Sustainability Drive in OEMs and the Initiation in EPDM based Compounds** I *Binu Thankappan*

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15:30-16:00	**Coffee/Tea Networking Break**
16:00-16:30	**EPDM Reclaim: An Innovative Sustainable Solution for Automotive Industry** | *Kalyan Das, Head - Sales & Business Development, GRP Ltd.*
16:30-17:00	***Fire Resistant EPDM Rubber: Compounding, Testing and Applications*** | *Dr. P Thavamani, Managing Director, UMAC Automotive Components*
17:00-17:30	**Engineering and Mechanical Properties of PA80/EPDM Blends** *Dr. Siby Varghese, Joint Director (Retd.), RRII, Rubber Board India*
17:30-18:00	**EPDM Round Table | Open Discussion - All about EPDM**

INVITED SPEAKERS

Dr. P. Thavamani

Binu Thankappan

Prof. Kinsuk Naskar

Karthik Raghupathy

Kalyan Das

Dr. Mohammed Saleem

Barkat Aziz

Dr. Siby Varghese

TechnoBiz reserves the right to adjust program agenda without prior notification due to unavoidable circumstances

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Overseas Delegates: US$ 300

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EPDM Seals : Process Troubleshooting

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This training course on "EPDM Seals: Process Troubleshooting" provides practical knowledge to identify and resolve defects in EPDM seal manufacturing. It covers material basics, compounding, processing methods, and testing, with a strong focus on real-world troubleshooting in extrusion, molding, and assembly. Participants will learn how to improve product quality, reduce defects, and enhance production efficiency.

Course Content

- Introduction to EPDM Seals
- Material & Compound Issues
- Processing Equipment & Operations
- Extrusion-Related Defects
- Sponge & Solid Profile Issues
- Molding & Assembly Defects
- Final Application Failures
- Troubleshooting Strategy

Course Instructor

Mr. Dathathri Dharmarao is a well-experienced rubber technologist with extensive expertise in the processing, compounding, and troubleshooting of EPDM seals. With decades of hands-on experience in the automotive sealing industry, he has led technical teams in solving complex manufacturing challenges related to extrusion, molding, and quality control. His deep understanding of EPDM behavior under various conditions, along with a strong focus on practical problem-solving, makes him a highly respected expert and trainer in the field.

Registration Fee / Person

In-Person Participation

- Indian Delegates: Rs. 15,000
- Overseas Delegates: US$ 300

Online Participation

- Indian Delegates: Rs. 25,000
- Overseas Delegates: US$ 500

Remarks: GST 18% applies on above fees. Discount is Available for Group and Early-Bird Registrations. Delegate Registration Fee subjected to increase one week before schedule. Registration fee includes lunch and refreshments.

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IRCO International Rubber Conference Organisation

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Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

CONFERENCE FOCUS

- Green Rubber Compounding and Processing
- Enhancing Durability and Performance of Rubber Products
- Rubbers and Rubber Composites Innovations for Unexplored and Sustainable Applications
- Advanced Rubber Solutions for Global Warming Challenges
- Smart, Intelligent and Functional Rubber Materials
- Natural Rubber, Bio-based Rubbers and Rubber Chemicals
- Progress in Rubber Analysis, Testing and Standards
- Safety and Environmental Impact of Rubber Products
- Recycling and Circular Economy in the Rubber Industry

KEY ACTIVITIES

- Technical Conference Program
- Natural Rubber Symposium
- Technology Exhibition
- IRCO Student Award
- Networking Gala Dinner
- NR Factory Visit

VENUE

Bangkok International Trade &Exhibition Center (BITEC)
88 Debaratna Road (km. 1) Bangna Tai.
Bangna, Bangkok 10260, Thailand
Website: www.bitec.co.th
Nearest Train Station: Bangna – BTS Station

CHAIRMAN

Dr. Krisda Suchiva

PROGRAM SCHEDULE

Detailed technical program of IRC 2025 will be updated soon. The time schedule for each day for technical presentations is 9am to 5pm.

Please check website www.irc2025.com for upto date information.

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Plenary Presentations

- **AI-driven Research and Multi-scale Simulation of Elastomer Materials** | *Prof. Liqun Zhang, Xi'an Jiaotong University, China*
- **Sustainable Materials for Tyre Engineering** | *Prof. Sabu Thomas, Mahatma Gandhi University, India*
- **Sustainable Mobility 2030 and beyond – Role of Tyre and Rubber Industry** | *Dr. R Mukhopadhyay, JK Tyre & Industries Ltd., India*
- **Circular Economy - Limits and Chances in Rubber Recycling** | *Prof. Ulrich Giese, German Institute for Rubber Technology, Germany*
- **Crack Resistance and Beyond: Fracture Mechanics in Strain Crystallizing and Liquid Crystal Elastomers** | *Prof. Kenji Urayama, Kyoto University, Japan*

Keynote Presentations

- **The Crosslinking Dilemma in ENR: Evaluating Sulphur and Di-acid Networks for Future-Ready Rubber Products** | *Dr. Amit Das, Leibniz Institute of Polymer Research Dresden, Germany*
- **On the path to make a black magic green – how to minimize the the CO2 footprint of rubber products** | *Prof. Andreas Limper, Institut für Kunststoffverarbeitung RWTH Aachen, Germany*
- **Recent Advances in Reducing Hysteresis of Rubber Composites** | *Prof. Baochun Guo, South China University of Technology, China*
- **Some Considerable Factors in Laboratory Frictional Testing Rubbers** | *Prof. Changwoon Nah, Jeonbuk National University, South Korea*
- **Enhancing Coagulation Efficiency and Overcoming Uncoagulation Issues in Skim Latex Using Synthetic and Natural Creaming Agents** | *Assoc. Prof. Charoen Nakason, Prince of Songkla University, Suratthani Campus, Thailand*
- **Bio-based Approach to Dispersion of Silica in NR** | *Prof. Dariusz M. Bieliński, Lodz University of Technology, Poland*
- **Resolving the Microstructure of Natural Rubber and Its Influence on the Mechanical Properties** | *Prof. Jinrong Wu, Sichuan University, China*
- **Engineering Allergy-Free Natural Rubber: Sustainable Deproteinization for Enhanced Industrial and Medical Performance** | *Prof. Jitladda Sakdapipanich, Mahidol University, Thailand*
- **AFM Nanomechanics Connecting Macro- and Nanoscopic World** | *Prof. Ken Nakajima, Institute of Science Tokyo, Japan*
- **Recent Trends in Adopting Sustainable Solution for Rubber Additives: How Chemistry Plays Significant Role?** | *Prof. Kinsuk Naskar, Indian Institute of Technology Kharagpur, India*
- **Natural Rubber in the Click Era: Advancing Functionalization and Modification via Click Chemistry** | *Prof. Laurent FONTAINE, Le Mans University, France*

Keynote Presentations

- **Elucidating the Role of Nanoscale Interfaces and 3D Dispersion in Elastomer Nanocomposites: Connecting Microstructure to Viscoelastic Behavior** | *Prof. Ming Tian, Beijing University of Chemical Technology (BUCT), China*
- **Optimized Synthesis of Liquid Fluorosilicone Rubber with Improved Cold Resistance for Semiconductor Application** *Prof. Sang Eun Shim, Inha University, South Korea*
- **Development of Fast Rubber Sheet-Forming Method for Natural Rubber and Its Application** | *Prof. Seiichi Kawahara, Nagaoka University of Technology, Japan*
- **Wide-Angle X-Ray Diffraction Studies on Strain-Induced Crystallization of Vulcanized Natural Rubber by Two-Step Biaxial Stretching** | *Prof. Shinichi Sakurai, Kyoto Institute of Technology, Japan*
- **New Insights into Vulcanization Reactions for Green Rubber Technology** | *Prof. Yuko Ikeda, Kyoto Institute of Technology, Japan*
- **Revisiting the Properties of Natural Rubber in Tire Industry and Development of NR-based Sidewall Compounds for EV Passenger Cars** | *Assoc. Prof. Kannika Sahakaro, Prince of Songkla University, Pattani Campus, Thailand*

Invited Presentations

- **Greener Tire Tread Compounds by Reducing the Amount of Ingredients** | *Prof. Anke Blume, University of Twente, Netherlands*
- **Delayed Crystallization Response-Inspired Waterborne Polyurethane with High Performance** | *Prof. Fei Chen, Xi'an Jiaotong University, China*
- **Soft sensing composites based on rubber and elastomer matrices: Development and characterization methods** | *Dr. Frank Jörg Clemens, Smart Ceramic Processing, EMPA, Switzerland*
- **Facile recycling strategy for end-of-life rubbers by selective cleavage of cross-linking bonds** | *Prof. Ganggang Zhang, South China University of Technology, China*
- **Greening the Elastomer Technology : Bio-Based Solid/Liquid Rubbers, Polyurethanes, and TPVs** | *Prof. Jeong Seok OH, Gyeongsang National University, South Korea*
- **Cellulose Nanocrystal: Scalable Production and Innovative Applications of Bio-based Nanofillers** | *Prof. Jianming Zhang, Qingdao University of Science and Technology, China*
- **Colour-changing Smart Materials inspired by Nature: Chameleon Effect** | *Dr. Karine Mougin, Institut de Science des Matériaux de Mulhouse, France*
- **Natural rubber foam containing gamma-synthesized chitosan for the utilization as enhanced heavy-metal sorbents** | *Assoc. Prof. Kiadtisak Saenboonruang, Kasetsart University, Thailand*

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Invited Presentations

- ***Effect of Molecular Architecture on the Thermal Stability of Poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) (GECO) Based Elastomers |*** *Prof. Murat Sen, Hacettepe University, Turkey*
- **Optimizing Silica and Carbon Black Ratios for Enhanced Mechanical Performance of NR/BR/SSBR blends** / *Assoc. Prof. Nadras Othman, Universiti Sains Malaysia (USM), Malaysia*
- ***Self-Healing Rubber: An Advancing Technology for Smart Gloves*** / *Dr. Patrick Tang Siah Ying, Monash University Malaysia, Malaysia*
- **Introduction of Reversible Bonds into Rubber Networks** / *Dr. Toshio Tada, Sumitomo Rubber Industries, Ltd., Japan*
- **Dual-Functional Natural Rubber Composites with Piezoresistive and Antibacterial Properties for Wearable Motion Detection |** *Asst. Prof. Yeampon Nakaramontri, King Mongkut's University of Technology Thonburi, Thailand*
- **Strain Softening of Rubber Nanocomposites Vulcanizates** / *Prof. Yihu Song, Zhejiang University, China*
- **Synthesis of Polyester-based Multiblock Copolymer Elastomers via A Cascade Polymerization Method** / *Prof. Yingfeng Tu, Soochow University, China*
- ***Renewable Elastomeric Networks of Functionalized Ethylene-Propylene Copolymer*** / *Prof. Yixian WU, Beijing University of Chemical Technology, China*

Natural Rubber Symposium

- **Global Efforts to Ensure Sustainability of NR Supplies |** *Stefano Savi, Global Platform for Sustainability of Natural Rubber*
- **The Role of Thailand Contributing to Sustainability of NR Supplies** / *Dr. Napawan Lekawipat, Rubber Authority of Thailand*
- **Quality of NR Novel Green Technologies for Production of User-friendly and Consistent Properties NR** / *Dr. Nantina Moonprasith, National Metal and Materials Technology Center, Thailand*
- **From Tree to Technological Materials: Turning Natural Rubber into a Game-changer for More Sustainable and Performing Products** / *Poonyawat Prateeprat, Michelin*
- **Perspective on Dipped Rubber Product Biodegradability: MRB Research Highlights and Future Pathways** / *Shabinah Filza Binti Mohd Sharib, Malaysian Rubber Board*
- ***Study of Biodegradation Efficiency of Natural Rubber Products by Various Microorganism*** / *Dr. Nattawut Boonyuen, (National Center for Genetic Engineering and Biotechnology, Thailand)*
- **Clinical Study of Allergic Properties of NR Gloves and Other NRL Products** / *Dr. Naesinee Chaiear, Khon Khan University, Thailand*
- **From Allergen to Assurance: A Comprehensive Review of Natural Rubber Product Safety and MRB's Strategic Role** / *Dr. Aziana Binti Abu Hassan, Malaysian Rubber Board*
- **Pioneering a Sustainable Biorefinery of Natural Rubber Serum for New Bioactives in Cosmetics, Food, Nutraceuticals, and Pharmaceuticals** / *Dr. Thanawat Pitakpornpreecha, Prince of Songkhla University, Thailand*
- **Modified Natural Rubber: Current Progress, Opportunities, and Challenges.** / *Dr. Krishna Veni, Malaysian Rubber Board*
- **Challenge for the Future of NR Latexand NRL Products** / *Dr. Amir Hashim Yatim, Malaysian Rubber Glove Manufacturers Association*
- **Opportunity for Industrial Applications of NR** / *Dr. Banja Junhasavasdikul, Innovation Group, Thailand*

Delegate Registration

Sponsor Registration

Exhibitor Registration

Contact Info

IRC2025 Secretariat
Polymer Society of Thailand
irc2025@thaipolymersociety.org
Contact : Dr.Taweechai Amornsakchai

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Oral Presentations

- **Thermo-chemical devulcanization of sulfur-cured styrene–butadiene rubber (SBR) using diphenyldisulfide (DPDS)** | *Jonas Petzke, Paderborn University, Germany*
- **Tribological behavior of soft polymers against model substrates** | *Prof. Sophie Bistac, Professor, Université de Haute Alsace UHA – LPIM, France*
- **Study of standard laboratory for testing medical rubber gloves according to ISO/IEC 17025** | *Dr. Hassarutai Yangthong, Researcher, Hub of Talents in Natural Rubber, NRCT, Thailand*
- **Polyrotaxane-Based Hybrid Crosslinking for Tunable Elastic and Thermal Response in Epoxidized Natural Rubber** | *Assoc. Prof. Anoma Thitithammawong, Prince of Songkla University, Thailand*
- **Why Lab Studies Matter for Understanding Tyre Wear Emissions**| *Dr. Martin Stěnička, Dr.Tomas Bata University in Zlin / University Institute / Centre of Polymer Systems, Czech Republic*
- **Impact of Fused Filament Fabrication and Processing Parameters on the Performance of $BaTiO_3$-Piezoelectric Composites for Soft Robots** | *Sofiia Butenko, EMPA, Switzerland*
- **New non-isocyanate polyurethane films based on natural rubber** | *Tharin Sensan, Prince of Songkla University, Thailand*
- **A New Antibacterial Hybrid Waterborne Polyurethane/Silica Coating Film Based on Natural rubber |** *Assoc.Prof. Dr. Nitinart Saetung, Faculty of Science, Prince of Songkla University, Thailand*
- **Method for Analyzing Mechanical Property Degradation of Polymer Materials Using Artificial Intelligence** | *Sangin Park, Researcher, Hyundai Motor Company, South Korea*
- **Molecular chain structure changes and strain-induced crystallization behaviors during various deformation of segmented polyurethane elastomer** | *Asst. Prof. Kakeru Obayashi, Kyoto University, Japan*
- **Understanding and Controlling Storage Hardening in Natural Rubber via Phospholipid Network Disruption** | *Kittipong Insom, Mahidol University, Thailand*
- **The Role of Deformation Mode on Rubber Hysteresis and Its Dependency on Viscoelasticity** | *Dr. Shouliang Nie, Researcher, Zhongce Rubber Group Co. Ltd, China*
- **Overview of SRI's research initiatives for enhancing the well-being of natural rubber stakeholders in Thailand** | *Dr. Lucksanaporn Tarachiwin, Deputy General Manager, Sumitomo Rubber (Thailand) Co., Ltd*
- **Degradation Trends in Plasticity and Viscosity of Selected Standard Philippine Rubber Under Prolonged Storage** | *Rosemarie Salazar, Assistant Regional Director, Department of Science and Technology Region IX - Philippines*

Oral Presentations

- **Study on the dispersion of silica in SBR using time-resolved ultra small angle X-ray scattering** | *Assoc. Prof. Shotaro Nishitsuji, Yamagata University, Japan*
- **Sustainable Yield Improvement and Quality Assessment of TSR10 Rubber from Two Hevea brasiliensis Genotypes: Impact of Reduced Tapping Frequency Associated with Ethephon Stimulation** | *Hathainat Kum-ourm, Researcher, Sumitomo Rubber (Thailand) Co., Ltd.*
- **Preparation and Characterization of Silica Filled Modified Natural Rubber: A Comparative Analysis of Pre-dispersion and Conventional Techniques** | *Dalip Abdulraman, Mahidol University, Thailand*
- **Mechanical Tailoring of Waterborne Epoxy Coatings on Metal Substrates using Functionalized Natural Rubber Latex** | *Dr. Wasan Tessanan, Pathumwan Institute of Technology, Thailand*
- **How microcapsule-enhanced rubber can help creating a circular economy** | *Katerina Filzer, University of Twente, Netherlands*
- **Correlative analysis of morphological and functional properties in high-performance elastomer blends** | *Dean Vidakovic, ZFE - Austrian Centre for Electron Microscopy & Nanoanalysis, Austria*
- **Advancing sustainability in synthetic rubber: from commitment to climate action** | *MARJOLEIN GROENEWEG, Marketing & Sustainability Director, Synthos Schkopau GmbH, Germany*
- **Pyrolysis of Polychloroprene Rubber with Scavenger-Based HCl Neutralization** | *Parinchaya Srithavorn, Queen Mary University of London, Thailand*
- **On the Decoupling of Chemical and Mechanical Surface Contributions in Soft Polymer Network Adhesion** | *Prof. Maurice Brogly, UHA – LPIM, France*
- **Carbon Black Coupling Agents for Improved Fuel Efficiency of Tyres** | *Max Dixey, Queen Mary University of London, United Kingdom*
- **The development of bio-inspired composites from epoxidized natural rubber using π–π stacking and cation–π interactions** | *Dr. Kwanchai Buaksuntear, Hub of Talents in Natural Rubber, National Research Council of Thailand*
- **Improving Seal Life Prediction: Faster Crack Growth Testing in HNBR and NBR** | *Orkid Ramekaj, Queen Mary University, United Kingdom*
- **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** |*Dr. Davut Aksüt, Hacettepe University, Turkey*
- **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** | *Maytawee Malineerat, Institute of Science Tokyo, Japan*

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Oral Presentations

- **Implementing Circular Economy Strategies in Power Transmission Belt Manufacturing** | *Dr. Aswathy T R, Assistant Manager, JK Fenner India Ltd., India*
- **AFM-Based Investigation of Polyisoprene-Inorganic Interface Adhesion at Multiple Scales** |*HEXUAN MAO, Institute of Science Tokyo, Japan*
- **Aluminum Soaps: A New Prospect for Rubber Application** | *Prof. Xiaorong Wang, Center for Frontier Research & Technology, Hangzhou Zhongce Rubber Company, China*
- **Sustainable NZEROSILTM Silicas from Renewable Rice Husk** | *Danniel Liao, Product Application Development Supervisor, Oriental Silicas Corporation, Taiwan, Province of China*
- **Inverse vulcanization forged self-motivated polysulfide silane: An ultra-efficient architect in engineering silica-rubber interface** | *Dr. Dong Wang, South China university of technology, China*
- **Microstructural Modelling of Carbon Black Aggregates for Sustainable Next-Generation Tyre Design** | *Sarah Pedroni, Queen Mary University of London, United Kingdom*
- **Rubber Blend Compatibility Analysis Using Large-Amplitude Oscillatory Shear (LAOS) on RPA** | *Dr. Zühra Çınar Esin, Hacettepe University, Turkey*
- **Chitosan-reinforced epoxidized natural rubber: possible design of energy-efficient tire tread compounds** | *Nantinee Choosang, Hub of Talents in Natural Rubber, National Research Council of Thailand*
- **Rubbery Soft Polymer Electrolyte Membrane with Nanomatrix Channel Prepared from Natural Rubber** | *Dr. Yoshimasa Yamamoto, Associate Professor, National Institute of Technology, Tokyo College ,Japan*
- **Biomimetic Design and Development of Natural Rubber-based Soft Robotics** | *Dr. Manus Sriring, Researcher, Rubber Technology Research Centre, Faculty of Science, Mahidol University, Thailand*
- **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** | *Mr. Leon Schmidt, Paderborn University, GermanY*
- **Study on Rubber Adhesive Interface Peeling Mechanism of Sealing Materials** | *Mr. Hiromu Kawasaki, Researcher, NOK corporation, Japan*
- **Influences of Sulfur Vulcanization System and Curative Content on Properties of Tire Tread Compounds Filled with Carbon Black/Silica Hybrid Filler** | *Dr. Puchong Thaptong, Researcher, National Science and Technology Development Agency (NSTDA), Thailand*
- **Eco-Efficient Vulcanization: Analysis of a Sustainable Rubber Curing Package** | *Frances van Elburg, University of Twente, Netherlands*

Oral Presentations

- **Removal of proteins from natural rubber by creaming method** | *ANH VIET TA, Nagaoka University of Technology, Japan*
- **Critical Concentration of Primary Amines for Preparation of Vulcanized Deproteinized Natural Rubber with Outstanding Mechanical Properties** | *Lam Ba Nguyen, Nagaoka University of Technology, Japan*
- **Surface-Functionalised Carbon Black as a High-Performance Filler in Elastomeric Compounds: Techniques and Potential** | *Rattapong Numard, Queen Mary University of London, United Kingdom*
- **Visualizing Nanoscale Interface in Direct Adhesive Rubbers Containing Reversible Coordination Linkages |** *Asst. Prof. Kim Hung NGUYEN, Institute of Science Tokyo, Japan*
- **Boron-Containing Elastomer** | *Assoc. Prof. Qi Wu, Sichuan University, China*
- **Enhancing the Piezoresistive Sensing Properties of TPE/CB Composites via Co-Continuous Structure Design through Natural Rubber Blending** |*Christopher Bascucci, Empa, Switzerland*
- **Friction Behaviour in Relation to Wear Morphology** | *Huong Thao Pham, Queen Mary University of London, United Kingdom*
- **Elastomeric Ionomer based on Maleated Bromobutyl Rubber** | *Assoc.Prof. Subhan Salaeh, Prince of Songkla University, Thailand*
- **Green Synthesis of Zinc Oxide from Skim Latex Serum for Application in Rubber Vulcanization** | *Asst. Prof. Preeyanuch Junkong, Mahidol University, Thailand*
- **Modelling of Elastomers under Dynamical Mechanical Loads** | *Prof. Michael Johlitz, Institute of Mechanics, Germany*
- **Extrudable Vitrimeric Rubbers Enabled via Heterogeneous Crosslinking** | *Dr. Shuangjian Yu, South China University of Technology, China*
- **Property and Application of Perfluoropolyether-modified Functional Rubber** | *Dr. Zheming Tong, PetroChina (Shanghai) New Materials Research Institute Co., Ltd., China*
- **Effect of crystal orientation on mechanical strength of poly-isoprene rubber under bi-axial deformation** | *Airi Sato, Researcher, Bridgestone Corporation, Japan*
- **Enhancing Ozone Resistance of Tyre Sidewall by Sustainable Replacement of Petroleum Wax with Bio-based Additive** | *Tirthankar Bhandary, Researcher, HASETRI, India*
- **Performance Evaluation of Silicone-Based Isolators Under Varying Temperatures and Excitation Levels Using a Thermal Chamber Shaker** | *Erdem Rahmi SENOZ, Mechanical Engineer, Aselsan, Turkey*

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Oral Presentations

- **New insights into Resins behavior: Influence of Resin Softening Point on the In-Rubber Properties of Carbon Black-Filled SBR Compounds** | *Dr. Javier Alejandro Araujo Morera, Assistant Professor, University of Twente / Elastomer Technology and Engineering, Netherlands*
- **Latex Serum Boosts Natural Rubber Strength** | *Dr. Katsuhiko Tsunoda, Researcher, Bridgestone Corporation, Japan*
- **N-Vinylamides: Structural Isomers of Amino acids Grafted onto Deproteinized Natural Rubber** | *Prof. Hiroharu Ajiro, Nara Institute of Science and Technology, Japan*
- **Low-Hysteresis Rubber Composites** | *Prof. Baochun Guo, South China University of Technology, China*
- **Study on the Performance of Natural Rubber - Copper Coated Steel Wire with BCDB and BCoPD** | *Yuan Jin, Technical Service Manager, Rebo New Material Group, China*
- **In situ methods to characterize deformation-induced mechanisms in NR** | *Dr. Eric Euchler, Leibniz Institute of Polymer Research Dresden, Germany*
- **Innovation Management for Commercial Success in the Rubber Industry Amid Shifting Global Market Forces** | *Dr. Matthew Thornton, The Rubber Initiative, United Kingdom*
- **Chemical fingerprinting for environmental detection of tyre rubber emissions** | Mr. Nick Molden, CEO, Emissions Analytics Ltd., United Kingdom
- **Formulations of finite hyperelasticity and viscoelasticity using invariants of stretch tensors** | *Prof. Alexander Lion, University of the Bundeswehr, Germany*

Poster Presentations

- **Simulation of Rubber Acoustic Coatings under Deep-Sea Pressure Based on Strain-Dependent Viscoelastic Properties** | *Dr. LIU Yue, Beijing University of Chemical Technology, China*
- **Spatiotemporal Internal-Damage Distribution During Nonuniform Deformations in Filled Elastomers** | *Yuki Tokudome, Kyoto University, Japan*
- **Accelerated Prediction of Glass Transition Temperature in SSBR via Integrated Molecular Dynamics Simulation and Machine Learning Framework** | *SIQI ZHAN, Beijing University of Chemical Technology, China*
- ***Development of an Integrated Design, Analysis ,and Evaluation System for Rubber Components*** | *Dr. Changsu Woo, Researcher, Korea*

Poster Presentations

- **Enhancing Mechanical and Antibacterial Properties of Natural Rubber/Tire Waste Blends through Dual-Phase Processing Techniques** | *Napasorn Kingkohyao, King Mongkut's University of Technology Thonburi, Thailand*
- **Development of Phosphorylated Cellulose Nanofibers/Natural Rubber Composites |** *Ryotaro TAKAYAMA, Researcher, Oji Holdings Corporation, Japan*
- **Establishment of a library database of some compounding ingredients using a Py-GC/MS technique** | *Prin Tumwised, Mahidol University, Thailand*
- **Development of Tire Tread Formulations for Military Light-Truck Tires** | *Dr. PAIROTE JITTHAM, Researcher, National Metal and Materials Technology Center, Thailand*
- **Identification and Reduction of residual allergenic rubber proteins in Natural Rubber latex gloves via Alkaline and Surfactant Treatments** | *Pimnaraporn Porncharukit, Mahidol university, Thailand*
- **Mixed-Mode Crack Propagation Criterion in Elastomers** *|Tomoki Mishima, Kyoto University, Japan*
- **Effect of Carbon Black and Barium Titanate Hybrid Filler on the Change of Electrical Signal in Epoxidized Natural Rubber Composites** | *LYHAV BOEURN, King Mongkut's University of Technology Thonburi, Thailand*
- **Feasibility Study of Tamarind Shell Powder as a Bio-Based Secondary Accelerator for Rubber Flooring** | *Weenusarin Intiya, Researcher, National Science and Technology Development Agency (NSTDA), Thailand*
- **Study on the Effect of Compatibilizer Content on the Mechanical Properties of NR/BR/NBR Blends** | *Kanokporn Sarikanonm, Kasetsart University, Thailand*
- **Fatigue Properties of Rubber Composites with Different Glass Transition Temperatures** | *Dr. Jiaye Li, Beijing University of Chemical Technology, China*
- **Strain-induced crystallization behaviors of natural rubber with additional lipids** | *Mr. Tomoaki Nakatsuka, Kyoto University, Japan*
- **Bio-Based Polyurethane/Tannic Acid Composites with Adjustable Damping Property Enabled by Constructing Multiple Sacrificial Networks** | *Dr. Dexian Yin, Beijing University of Chemical Technology, China*
- **Strain-Induced Crystallization of Carbon Black-Reinforced Vulcanized Natural Rubber by Biaxial Elongation** | *Hiroto Okumura, Kyoto Institute of Technology, Japan*
- **Influence of Balanced Ratios between Mica and Carbon Black on Rheological and Mechanical Behaviors of Elastomeric Materials** | *Assoc. Prof. Keon-Soo Jang, University of Suwon, South Korea*
- **Natural-Rubber-Based Adhesives for Housefly (Musca domestica) Control** | *KANNIKA HATTHAPANIT, Researcher, National metal and materials technology center, Thailand*

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Poster Presentations

- **Evaluation of a Non-Traditional Preservative System for Enhancing Natural Rubber Latex Stability** / *Maneephan Sukkho, Mahidol University, Thailand*
- **Study on the Impact of Purified Natural Rubber Latex and Accelerators on Rubber Allergens in Natural Rubber Gloves** / *Pitchaya Theedee, Researcher, Faculty of Science, Mahidol University, Thailand*
- **Optimized UVA-Irradiation Silane-Grafting onto Saponified Skim Rubber for Enhanced Silica-Natural Rubber Compatibility** / *Areeya Anuwatprakit, Mahidol University, Thailand*
- **Cure Characteristics of NR Compounds with Sulfur Sludge from Biogas -Wastewater Treatment in Palm Oil Industry** / *Asst. Prof. Prachid Saramolee, Walailak University, Thailand*
- **Effect of chitosan bio-based filler on the mechanical reinforcement of ENR composites** / *Ploypailin Juntosree, Kasetsart University, Thailand*
- **Development of Natural Rubber Insulating Gloves: Influence of Latex Centrifugation and Leaching on Mechanical and Electrical Properties** / *Dr. Promsak Sanguanthammarong, Researcher, National Metal and Materials Technology Center (MTEC), Thailand*
- **Predicting the glass transition temperature of polymer based on generative adversarial networks and automated machine learning** / *Zhanjie Liu, State Key Laboratory of Organic-Inorganic Composites, College of Materials Science and Engineering, Beijing University of Chemical Technology, China*
- **Influence of Bio-Based Epoxidized Natural Rubber as a Compatibilizer on Thermoplastic Polyurethane/Natural Rubber Blends for 3D Printing Applications** / *Torfan Srisuwanno, King Mongkut's University of Technology Thonburi, Thailand*
- **Changes in nanostructural changes during tearing of elastomeric poly(butylene succinate)/poly(butylene succinate adipate) blend films** / *Kazuki Imai, Kyoto Institute of Technology, Japan*
- **A Melt Crystallization and Dewetting Kinetics of Marine-Degradable Polyesters in Thin Films** / *Ryu Miyajima, Kyoto Institute of Technology, Japan*
- **Influence of vacancy defect on stretching behavior of liquid crystal elastomer membrane** / *Takumi Kato, Kyoto University, Japan*
- **Texture Evolution and Mechanical Response of Cholesteric Liquid Crystal Elastomers with a Lying Helix Structure** / *Koudai Tanino, Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Japan*
- ***Characterization of polyisoprene blended with urethane compounds*** / *Dr. Takashi Kakubo, Senior Engineer, The Yokohama Rubber Co., Ltd. , Japan*

Poster Presentations

- **Facile and efficient preparation of functionalized diene-elastomers via dynamic covalent polymerization |** *Xinglong An, Institute of Emergent Elastomers, School of Materials Science and Engineering, South China University of Technology, China*
- **Application of Ozone Treatment to Reduce Foul Odor in Cup Lump Rubber Production** / *Chaveewan Kongkaew, Researcher, National Metal and Materials Technology Center, Thailand*
- **Preparation of DES-containing Polyurethane Elastomer and Its Moisture-dependent Electrical Conductivity** / *Shogo Taketa, Nagasaki University, Japan*
- **Changes in Nano Structure upon Uniaxial Stretching of Polyurethane Liquid-Crystalline Elastomers as Analyzed by Small-Angle X-ray Scattering** / *Yume SUGINO, Kyoto Institute of Technology, Japan*
- **Effective degradation of waste tyre rubber using a specific treatment process: A Chemi-biological Method** / *Pritish Raj Shukla, Birla Institute of Technology and Science- Pilani, K.K. Birla Goa Campus, India*
- **Mediating Carbon Black-Natural Rubber Interface by Thioamide-Functionalized Polysulfide for Energy-Saving Composites** / *Ruoyan Huang, Institute of Emergent Elastomers, School of Materials Science and Engineering, South China University of Technology, China*
- **Design and molecular dynamics simulation of Biomass Ion-conductive elastomer** / *Dr. Jiajun Qu, Beijing University of Chemical Technology, China*
- **AFM Nanomechanics of Vulcanized Rubber Containing Silica and Petroleum Resin** / *Makiko Ito, Researcher, Institute of Science Tokyo, Japan*
- **Highly conductive Ag/pCF/MVQ composite rubber for efficient electromagnetic interference shielding** /*Yang Chen, Beijing University of Chemical Technology, China*
- **A Facile Method in Fabricating Flexible Composite elastomer with Large-Size Segregated Structures for Electromagnetic Interference Shielding** / *Liang He, Beijing University of Chemical Technology, China*
- **Deproteinization Process of Natural Rubber Latex by Membrane Filtration** /*Prof. Yoko Aoyama, KOSEN-King Mongkut's Institute of Technology Ladkrabang, Thailand*
- ***Thermal Analysis of the Mullins Effect in Filler Reinforced Elastomers*** / *Koshi Shimazaki, Department of Material Chemistry, Kyoto University, Japan*
- **Study on Melting Behavior of Crystallites in Carbon Black-Filled Vulcanized Natural Rubber Upon High-Speed Shrinkage from Its Highly Elongated State** / *Maho Nakada, Kyoto Institute of Technology, Japan*
- **Wide-angle X-ray diffraction studies on thermal melting behavior of crystallites formed by planar elongation of vulcanized natural rubber** / *Shoei Okamoto, Kyoto Institute of Technology, Japan*

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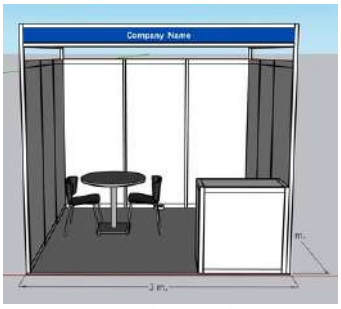
Trade Exhibition



9 SQM ShellScheme
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4 SQM ShellScheme
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Exhibitor Profile

Global Manufacturers & Suppliers of

- Natural & Synthetic Rubbers
- Rubber Chemicals
- Recycled Rubbers and Rubber Chemicals
- Rubber Analysis & Testing Equipment
- Rubber & Latex Products
- Rubber Technical Services
- Books and Periodicals

Participating Exhibitors

- MTEC (Polymer Research Organization)
- Struktol (Rubber Chemical)
- Sumitomo Rubber (Products)
- LAWER S.p.A (Chemical feeding automation)
- CG Engineering (Testing Instruments)
- Nippon Soda Co., Ltd. (Chemicals)
- Test Industry SRL (Testing Instruments)
- Emissions Analytics (Testing Instruments)
- Rubber Technology Research Centre (Testing)
- Rubber World / Rubber Review (Publication)
- TechnoBiz
- Rubber Industry Club, FTI
- Prince of Songkla University
- Hub of Talents in Natural Rubber, National Research Council of Thailand (NRCT)

Booth Booking Form

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Contact : Dr. Taweechai Amornsakchai

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Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

IRC2025 Secretariat : Polymer Society of Thailand
Email: irc2025@thaipolymersociety.org
Contact Person: Dr. Taweechai Amornsakchai

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Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

CONFERENCE FOCUS

- Green Rubber Compounding and Processing
- Enhancing Durability and Performance of Rubber Products
- Rubbers and Rubber Composites Innovations for Unexplored and Sustainable Applications
- Advanced Rubber Solutions for Global Warming Challenges
- Smart, Intelligent and Functional Rubber Materials
- Natural Rubber, Bio-based Rubbers and Rubber Chemicals
- Progress in Rubber Analysis, Testing and Standards
- Safety and Environmental Impact of Rubber Products
- Recycling and Circular Economy in the Rubber Industry

KEY ACTIVITIES

- Technical Conference Program
- Natural Rubber Symposium
- Technology Exhibition
- IRCO Student Award
- Networking Gala Dinner
- NR Factory Visit

VENUE

Bangkok International Trade &Exhibition Center (BITEC)
88 Debaratna Road (km. 1) Bangna Tai.
Bangna, Bangkok 10260, Thailand
Website: www.bitec.co.th
Nearest Train Station: Bangna – BTS Station

CHAIRMAN

Dr. Krisda Suchiva

PROGRAM SCHEDULE

Detailed technical program of IRC 2025 will be updated soon. The time schedule for each day for technical presentations is 9am to 5pm.

Please check website www.irc2025.com for upto date information.

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Plenary Presentations

- **AI-driven Research and Multi-scale Simulation of Elastomer Materials** | *Prof. Liqun Zhang, Xi'an Jiaotong University, China*
- **Sustainable Materials for Tyre Engineering** | *Prof. Sabu Thomas, Mahatma Gandhi University, India*
- **Sustainable Mobility 2030 and beyond – Role of Tyre and Rubber Industry** | *Dr. R Mukhopadhyay, JK Tyre & Industries Ltd., India*
- **Circular Economy - Limits and Chances in Rubber Recycling** | *Prof. Ulrich Giese, German Institute for Rubber Technology, Germany*
- **Crack Resistance and Beyond: Fracture Mechanics in Strain Crystallizing and Liquid Crystal Elastomers** | *Prof. Kenji Urayama, Kyoto University, Japan*

Keynote Presentations

- **The Crosslinking Dilemma in ENR: Evaluating Sulphur and Di-acid Networks for Future-Ready Rubber Products** | *Dr. Amit Das, Leibniz Institute of Polymer Research Dresden, Germany*
- **On the path to make a black magic green – how to minimize the the CO2 footprint of rubber products** | *Prof. Andreas Limper, Institut für Kunststoffverarbeitung RWTH Aachen, Germany*
- **Recent Advances in Reducing Hysteresis of Rubber Composites** | *Prof. Baochun Guo, South China University of Technology, China*
- **Some Considerable Factors in Laboratory Frictional Testing Rubbers** | *Prof. Changwoon Nah, Jeonbuk National University, South Korea*
- **Enhancing Coagulation Efficiency and Overcoming Uncoagulation Issues in Skim Latex Using Synthetic and Natural Creaming Agents** | *Assoc. Prof. Charoen Nakason, Prince of Songkla University, Suratthani Campus, Thailand*
- **Bio-based Approach to Dispersion of Silica in NR** | *Prof. Dariusz M. Bieliński, Lodz University of Technology, Poland*
- **Resolving the Microstructure of Natural Rubber and Its Influence on the Mechanical Properties** | *Prof. Jinrong Wu, Sichuan University, China*
- **Engineering Allergy-Free Natural Rubber: Sustainable Deproteinization for Enhanced Industrial and Medical Performance** | *Prof. Jitladda Sakdapipanich, Mahidol University, Thailand*
- **AFM Nanomechanics Connecting Macro- and Nanoscopic World** | *Prof. Ken Nakajima, Institute of Science Tokyo, Japan*
- **Recent Trends in Adopting Sustainable Solution for Rubber Additives: How Chemistry Plays Significant Role?** | *Prof. Kinsuk Naskar, Indian Institute of Technology Kharagpur, India*
- **Natural Rubber in the Click Era: Advancing Functionalization and Modification via Click Chemistry** | *Prof. Laurent FONTAINE, Le Mans University, France*

Keynote Presentations

- **Elucidating the Role of Nanoscale Interfaces and 3D Dispersion in Elastomer Nanocomposites: Connecting Microstructure to Viscoelastic Behavior** | *Prof. Ming Tian, Beijing University of Chemical Technology (BUCT), China*
- **Optimized Synthesis of Liquid Fluorosilicone Rubber with Improved Cold Resistance for Semiconductor Application** *Prof. Sang Eun Shim, Inha University, South Korea*
- **Development of Fast Rubber Sheet-Forming Method for Natural Rubber and Its Application** | *Prof. Seiichi Kawahara, Nagaoka University of Technology, Japan*
- **Wide-Angle X-Ray Diffraction Studies on Strain-Induced Crystallization of Vulcanized Natural Rubber by Two-Step Biaxial Stretching** | *Prof. Shinichi Sakurai, Kyoto Institute of Technology, Japan*
- **New Insights into Vulcanization Reactions for Green Rubber Technology** | *Prof. Yuko Ikeda, Kyoto Institute of Technology, Japan*
- **Revisiting the Properties of Natural Rubber in Tire Industry and Development of NR-based Sidewall Compounds for EV Passenger Cars** | *Assoc. Prof. Kannika Sahakaro, Prince of Songkla University, Pattani Campus, Thailand*

Invited Presentations

- **Greener Tire Tread Compounds by Reducing the Amount of Ingredients** | *Prof. Anke Blume, University of Twente, Netherlands*
- **Delayed Crystallization Response-Inspired Waterborne Polyurethane with High Performance** | *Prof. Fei Chen, Xi'an Jiaotong University, China*
- **Soft sensing composites based on rubber and elastomer matrices: Development and characterization methods** | *Dr. Frank Jörg Clemens, Smart Ceramic Processing, EMPA, Switzerland*
- **Facile recycling strategy for end-of-life rubbers by selective cleavage of cross-linking bonds** | *Prof. Ganggang Zhang, South China University of Technology, China*
- **Greening the Elastomer Technology : Bio-Based Solid/Liquid Rubbers, Polyurethanes, and TPVs** | *Prof. Jeong Seok OH, Gyeongsang National University, South Korea*
- **Cellulose Nanocrystal: Scalable Production and Innovative Applications of Bio-based Nanofillers** | *Prof. Jianming Zhang, Qingdao University of Science and Technology, China*
- **Colour-changing Smart Materials inspired by Nature: Chameleon Effect** | *Dr. Karine Mougin, Institut de Science des Matériaux de Mulhouse, France*
- **Natural rubber foam containing gamma-synthesized chitosan for the utilization as enhanced heavy-metal sorbents** | *Assoc. Prof. Kiadtisak Saenboonruang, Kasetsart University, Thailand*

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Invited Presentations

- ***Effect of Molecular Architecture on the Thermal Stability of Poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) (GECO) Based Elastomers |*** *Prof. Murat Sen, Hacettepe University, Turkey*
- **Optimizing Silica and Carbon Black Ratios for Enhanced Mechanical Performance of NR/BR/SSBR blends** / *Assoc. Prof. Nadras Othman, Universiti Sains Malaysia (USM), Malaysia*
- ***Self-Healing Rubber: An Advancing Technology for Smart Gloves*** / *Dr. Patrick Tang Siah Ying, Monash University Malaysia, Malaysia*
- **Introduction of Reversible Bonds into Rubber Networks** / *Dr. Toshio Tada, Sumitomo Rubber Industries, Ltd., Japan*
- **Dual-Functional Natural Rubber Composites with Piezoresistive and Antibacterial Properties for Wearable Motion Detection |** *Asst. Prof. Yeampon Nakaramontri, King Mongkut's University of Technology Thonburi, Thailand*
- **Strain Softening of Rubber Nanocomposites Vulcanizates** / *Prof. Yihu Song, Zhejiang University, China*
- **Synthesis of Polyester-based Multiblock Copolymer Elastomers via A Cascade Polymerization Method** / *Prof. Yingfeng Tu, Soochow University, China*
- ***Renewable Elastomeric Networks of Functionalized Ethylene-Propylene Copolymer*** / *Prof. Yixian WU, Beijing University of Chemical Technology, China*

Natural Rubber Symposium

- **Global Efforts to Ensure Sustainability of NR Supplies |** *Stefano Savi, Global Platform for Sustainability of Natural Rubber*
- **The Role of Thailand Contributing to Sustainability of NR Supplies** / *Dr. Napawan Lekawipat, Rubber Authority of Thailand*
- **Quality of NR Novel Green Technologies for Production of User-friendly and Consistent Properties NR** / *Dr. Nantina Moonprasith, National Metal and Materials Technology Center, Thailand*
- **From Tree to Technological Materials: Turning Natural Rubber into a Game-changer for More Sustainable and Performing Products** / *Poonyawat Prateeprat, Michelin*
- **Perspective on Dipped Rubber Product Biodegradability: MRB Research Highlights and Future Pathways** / *Shabinah Filza Binti Mohd Sharib, Malaysian Rubber Board*
- ***Study of Biodegradation Efficiency of Natural Rubber Products by Various Microorganism*** / *Dr. Nattawut Boonyuen, (National Center for Genetic Engineering and Biotechnology, Thailand)*
- **Clinical Study of Allergic Properties of NR Gloves and Other NRL Products** / *Dr. Naesinee Chaiear, Khon Khan University, Thailand*
- **From Allergen to Assurance: A Comprehensive Review of Natural Rubber Product Safety and MRB's Strategic Role** / *Dr. Aziana Binti Abu Hassan, Malaysian Rubber Board*
- **Pioneering a Sustainable Biorefinery of Natural Rubber Serum for New Bioactives in Cosmetics, Food, Nutraceuticals, and Pharmaceuticals** / *Dr. Thanawat Pitakpornpreecha, Prince of Songkhla University, Thailand*
- **Modified Natural Rubber: Current Progress, Opportunities, and Challenges.** / *Dr. Krishna Veni, Malaysian Rubber Board*
- **Challenge for the Future of NR Latexand NRL Products** / *Dr. Amir Hashim Yatim, Malaysian Rubber Glove Manufacturers Association*
- **Opportunity for Industrial Applications of NR** / *Dr. Banja Junhasavasdikul, Innovation Group, Thailand*

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Oral Presentations

- **Thermo-chemical devulcanization of sulfur-cured styrene–butadiene rubber (SBR) using diphenyldisulfide (DPDS)** | *Jonas Petzke, Paderborn University, Germany*
- **Tribological behavior of soft polymers against model substrates** | *Prof. Sophie Bistac, Professor, Université de Haute Alsace UHA – LPIM, France*
- **Study of standard laboratory for testing medical rubber gloves according to ISO/IEC 17025** | *Dr. Hassarutai Yangthong, Researcher, Hub of Talents in Natural Rubber, NRCT, Thailand*
- **Polyrotaxane-Based Hybrid Crosslinking for Tunable Elastic and Thermal Response in Epoxidized Natural Rubber** | *Assoc. Prof. Anoma Thitithammawong, Prince of Songkla University, Thailand*
- **Why Lab Studies Matter for Understanding Tyre Wear Emissions**| *Dr. Martin Stěnička, Dr.Tomas Bata University in Zlin / University Institute / Centre of Polymer Systems, Czech Republic*
- **Impact of Fused Filament Fabrication and Processing Parameters on the Performance of $BaTiO_3$-Piezoelectric Composites for Soft Robots** | *Sofiia Butenko, EMPA, Switzerland*
- **New non-isocyanate polyurethane films based on natural rubber** | *Tharin Sensan, Prince of Songkla University, Thailand*
- **A New Antibacterial Hybrid Waterborne Polyurethane/Silica Coating Film Based on Natural rubber |** *Assoc.Prof. Dr. Nitinart Saetung, Faculty of Science, Prince of Songkla University, Thailand*
- **Method for Analyzing Mechanical Property Degradation of Polymer Materials Using Artificial Intelligence** | *Sangin Park, Researcher, Hyundai Motor Company, South Korea*
- **Molecular chain structure changes and strain-induced crystallization behaviors during various deformation of segmented polyurethane elastomer** | *Asst. Prof. Kakeru Obayashi, Kyoto University, Japan*
- **Understanding and Controlling Storage Hardening in Natural Rubber via Phospholipid Network Disruption** | *Kittipong Insom, Mahidol University, Thailand*
- **The Role of Deformation Mode on Rubber Hysteresis and Its Dependency on Viscoelasticity** | *Dr. Shouliang Nie, Researcher, Zhongce Rubber Group Co. Ltd, China*
- **Overview of SRI's research initiatives for enhancing the well-being of natural rubber stakeholders in Thailand** | *Dr. Lucksanaporn Tarachiwin, Deputy General Manager, Sumitomo Rubber (Thailand) Co., Ltd*
- **Degradation Trends in Plasticity and Viscosity of Selected Standard Philippine Rubber Under Prolonged Storage** | *Rosemarie Salazar, Assistant Regional Director, Department of Science and Technology Region IX - Philippines*

Oral Presentations

- **Study on the dispersion of silica in SBR using time-resolved ultra small angle X-ray scattering** | *Assoc. Prof. Shotaro Nishitsuji, Yamagata University, Japan*
- **Sustainable Yield Improvement and Quality Assessment of TSR10 Rubber from Two Hevea brasiliensis Genotypes: Impact of Reduced Tapping Frequency Associated with Ethephon Stimulation** | *Hathainat Kum-ourm, Researcher, Sumitomo Rubber (Thailand) Co., Ltd.*
- **Preparation and Characterization of Silica Filled Modified Natural Rubber: A Comparative Analysis of Pre-dispersion and Conventional Techniques** | *Dalip Abdulraman, Mahidol University, Thailand*
- **Mechanical Tailoring of Waterborne Epoxy Coatings on Metal Substrates using Functionalized Natural Rubber Latex** | *Dr. Wasan Tessanan, Pathumwan Institute of Technology, Thailand*
- **How microcapsule-enhanced rubber can help creating a circular economy** | *Katerina Filzer, University of Twente, Netherlands*
- **Correlative analysis of morphological and functional properties in high-performance elastomer blends** | *Dean Vidakovic, ZFE - Austrian Centre for Electron Microscopy & Nanoanalysis, Austria*
- **Advancing sustainability in synthetic rubber: from commitment to climate action** | *MARJOLEIN GROENEWEG, Marketing & Sustainability Director, Synthos Schkopau GmbH, Germany*
- **Pyrolysis of Polychloroprene Rubber with Scavenger-Based HCl Neutralization** | *Parinchaya Srithavorn, Queen Mary University of London, Thailand*
- **On the Decoupling of Chemical and Mechanical Surface Contributions in Soft Polymer Network Adhesion** | *Prof. Maurice Brogly, UHA – LPIM, France*
- **Carbon Black Coupling Agents for Improved Fuel Efficiency of Tyres** | *Max Dixey, Queen Mary University of London, United Kingdom*
- **The development of bio-inspired composites from epoxidized natural rubber using π–π stacking and cation–π interactions** | *Dr. Kwanchai Buaksuntear, Hub of Talents in Natural Rubber, National Research Council of Thailand*
- **Improving Seal Life Prediction: Faster Crack Growth Testing in HNBR and NBR** | *Orkid Ramekaj, Queen Mary University, United Kingdom*
- **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** |*Dr. Davut Aksüt, Hacettepe University, Turkey*
- **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** | *Maytawee Malineerat, Institute of Science Tokyo, Japan*

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- **Implementing Circular Economy Strategies in Power Transmission Belt Manufacturing** | *Dr. Aswathy T R, Assistant Manager, JK Fenner India Ltd., India*
- **AFM-Based Investigation of Polyisoprene-Inorganic Interface Adhesion at Multiple Scales** |*HEXUAN MAO, Institute of Science Tokyo, Japan*
- **Aluminum Soaps: A New Prospect for Rubber Application** | *Prof. Xiaorong Wang, Center for Frontier Research & Technology, Hangzhou Zhongce Rubber Company, China*
- **Sustainable NZEROSILTM Silicas from Renewable Rice Husk** | *Danniel Liao, Product Application Development Supervisor, Oriental Silicas Corporation, Taiwan, Province of China*
- **Inverse vulcanization forged self-motivated polysulfide silane: An ultra-efficient architect in engineering silica-rubber interface** | *Dr. Dong Wang, South China university of technology, China*
- **Microstructural Modelling of Carbon Black Aggregates for Sustainable Next-Generation Tyre Design** | *Sarah Pedroni, Queen Mary University of London, United Kingdom*
- **Rubber Blend Compatibility Analysis Using Large-Amplitude Oscillatory Shear (LAOS) on RPA** | *Dr. Zühra Çınar Esin, Hacettepe University, Turkey*
- **Chitosan-reinforced epoxidized natural rubber: possible design of energy-efficient tire tread compounds** | *Nantinee Choosang, Hub of Talents in Natural Rubber, National Research Council of Thailand*
- **Rubbery Soft Polymer Electrolyte Membrane with Nanomatrix Channel Prepared from Natural Rubber** | *Dr. Yoshimasa Yamamoto, Associate Professor, National Institute of Technology, Tokyo College ,Japan*
- **Biomimetic Design and Development of Natural Rubber-based Soft Robotics** | *Dr. Manus Sriring, Researcher, Rubber Technology Research Centre, Faculty of Science, Mahidol University, Thailand*
- **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** | *Mr. Leon Schmidt, Paderborn University, GermanY*
- **Study on Rubber Adhesive Interface Peeling Mechanism of Sealing Materials** | *Mr. Hiromu Kawasaki, Researcher, NOK corporation, Japan*
- **Influences of Sulfur Vulcanization System and Curative Content on Properties of Tire Tread Compounds Filled with Carbon Black/Silica Hybrid Filler** | *Dr. Puchong Thaptong, Researcher, National Science and Technology Development Agency (NSTDA), Thailand*
- **Eco-Efficient Vulcanization: Analysis of a Sustainable Rubber Curing Package** | *Frances van Elburg, University of Twente, Netherlands*

Oral Presentations

- **Removal of proteins from natural rubber by creaming method** | *ANH VIET TA, Nagaoka University of Technology, Japan*
- **Critical Concentration of Primary Amines for Preparation of Vulcanized Deproteinized Natural Rubber with Outstanding Mechanical Properties** | *Lam Ba Nguyen, Nagaoka University of Technology, Japan*
- **Surface-Functionalised Carbon Black as a High-Performance Filler in Elastomeric Compounds: Techniques and Potential** | *Rattapong Numard, Queen Mary University of London, United Kingdom*
- **Visualizing Nanoscale Interface in Direct Adhesive Rubbers Containing Reversible Coordination Linkages |** *Asst. Prof. Kim Hung NGUYEN, Institute of Science Tokyo, Japan*
- **Boron-Containing Elastomer** | *Assoc. Prof. Qi Wu, Sichuan University, China*
- **Enhancing the Piezoresistive Sensing Properties of TPE/CB Composites via Co-Continuous Structure Design through Natural Rubber Blending** |*Christopher Bascucci, Empa, Switzerland*
- **Friction Behaviour in Relation to Wear Morphology** | *Huong Thao Pham, Queen Mary University of London, United Kingdom*
- **Elastomeric Ionomer based on Maleated Bromobutyl Rubber** | *Assoc.Prof. Subhan Salaeh, Prince of Songkla University, Thailand*
- **Green Synthesis of Zinc Oxide from Skim Latex Serum for Application in Rubber Vulcanization** | *Asst. Prof. Preeyanuch Junkong, Mahidol University, Thailand*
- **Modelling of Elastomers under Dynamical Mechanical Loads** | *Prof. Michael Johlitz, Institute of Mechanics, Germany*
- **Extrudable Vitrimeric Rubbers Enabled via Heterogeneous Crosslinking** | *Dr. Shuangjian Yu, South China University of Technology, China*
- **Property and Application of Perfluoropolyether-modified Functional Rubber** | *Dr. Zheming Tong, PetroChina (Shanghai) New Materials Research Institute Co., Ltd., China*
- **Effect of crystal orientation on mechanical strength of poly-isoprene rubber under bi-axial deformation** | *Airi Sato, Researcher, Bridgestone Corporation, Japan*
- **Enhancing Ozone Resistance of Tyre Sidewall by Sustainable Replacement of Petroleum Wax with Bio-based Additive** | *Tirthankar Bhandary, Researcher, HASETRI, India*
- **Performance Evaluation of Silicone-Based Isolators Under Varying Temperatures and Excitation Levels Using a Thermal Chamber Shaker** | *Erdem Rahmi SENOZ, Mechanical Engineer, Aselsan, Turkey*

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- **New insights into Resins behavior: Influence of Resin Softening Point on the In-Rubber Properties of Carbon Black-Filled SBR Compounds** | *Dr. Javier Alejandro Araujo Morera, Assistant Professor, University of Twente / Elastomer Technology and Engineering, Netherlands*
- **Latex Serum Boosts Natural Rubber Strength** | *Dr. Katsuhiko Tsunoda, Researcher, Bridgestone Corporation, Japan*
- **N-Vinylamides: Structural Isomers of Amino acids Grafted onto Deproteinized Natural Rubber** | *Prof. Hiroharu Ajiro, Nara Institute of Science and Technology, Japan*
- **Low-Hysteresis Rubber Composites** | *Prof. Baochun Guo, South China University of Technology, China*
- **Study on the Performance of Natural Rubber - Copper Coated Steel Wire with BCDB and BCoPD** | *Yuan Jin, Technical Service Manager, Rebo New Material Group, China*
- **In situ methods to characterize deformation-induced mechanisms in NR** | *Dr. Eric Euchler, Leibniz Institute of Polymer Research Dresden, Germany*
- **Innovation Management for Commercial Success in the Rubber Industry Amid Shifting Global Market Forces** | *Dr. Matthew Thornton, The Rubber Initiative, United Kingdom*
- **Chemical fingerprinting for environmental detection of tyre rubber emissions** | Mr. Nick Molden, CEO, Emissions Analytics Ltd., United Kingdom
- **Formulations of finite hyperelasticity and viscoelasticity using invariants of stretch tensors** | *Prof. Alexander Lion, University of the Bundeswehr, Germany*

Poster Presentations

- **Simulation of Rubber Acoustic Coatings under Deep-Sea Pressure Based on Strain-Dependent Viscoelastic Properties** | *Dr. LIU Yue, Beijing University of Chemical Technology, China*
- **Spatiotemporal Internal-Damage Distribution During Nonuniform Deformations in Filled Elastomers** | *Yuki Tokudome, Kyoto University, Japan*
- **Accelerated Prediction of Glass Transition Temperature in SSBR via Integrated Molecular Dynamics Simulation and Machine Learning Framework** | *SIQI ZHAN, Beijing University of Chemical Technology, China*
- ***Development of an Integrated Design, Analysis ,and Evaluation System for Rubber Components*** | *Dr. Changsu Woo, Researcher, Korea*

Poster Presentations

- **Enhancing Mechanical and Antibacterial Properties of Natural Rubber/Tire Waste Blends through Dual-Phase Processing Techniques** | *Napasorn Kingkohyao, King Mongkut's University of Technology Thonburi, Thailand*
- **Development of Phosphorylated Cellulose Nanofibers/Natural Rubber Composites |** *Ryotaro TAKAYAMA, Researcher, Oji Holdings Corporation, Japan*
- **Establishment of a library database of some compounding ingredients using a Py-GC/MS technique** | *Prin Tumwised, Mahidol University, Thailand*
- **Development of Tire Tread Formulations for Military Light-Truck Tires** | *Dr. PAIROTE JITTHAM, Researcher, National Metal and Materials Technology Center, Thailand*
- **Identification and Reduction of residual allergenic rubber proteins in Natural Rubber latex gloves via Alkaline and Surfactant Treatments** | *Pimnaraporn Porncharukit, Mahidol university, Thailand*
- **Mixed-Mode Crack Propagation Criterion in Elastomers** *|Tomoki Mishima, Kyoto University, Japan*
- **Effect of Carbon Black and Barium Titanate Hybrid Filler on the Change of Electrical Signal in Epoxidized Natural Rubber Composites** | *LYHAV BOEURN, King Mongkut's University of Technology Thonburi, Thailand*
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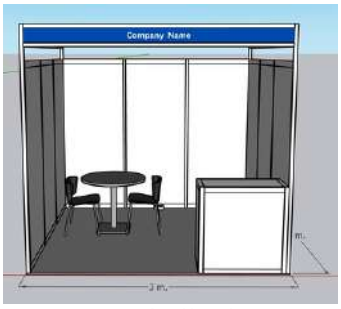

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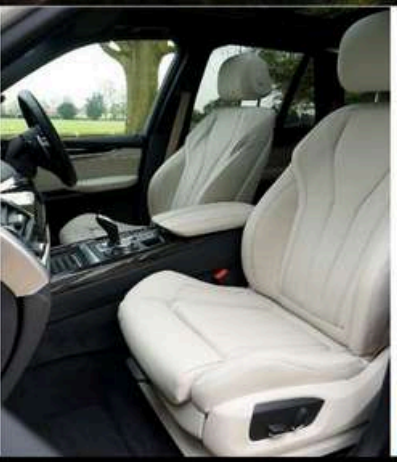

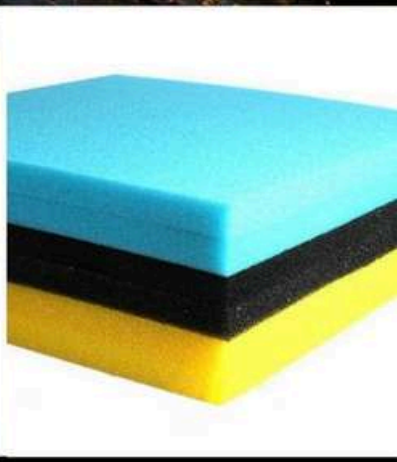

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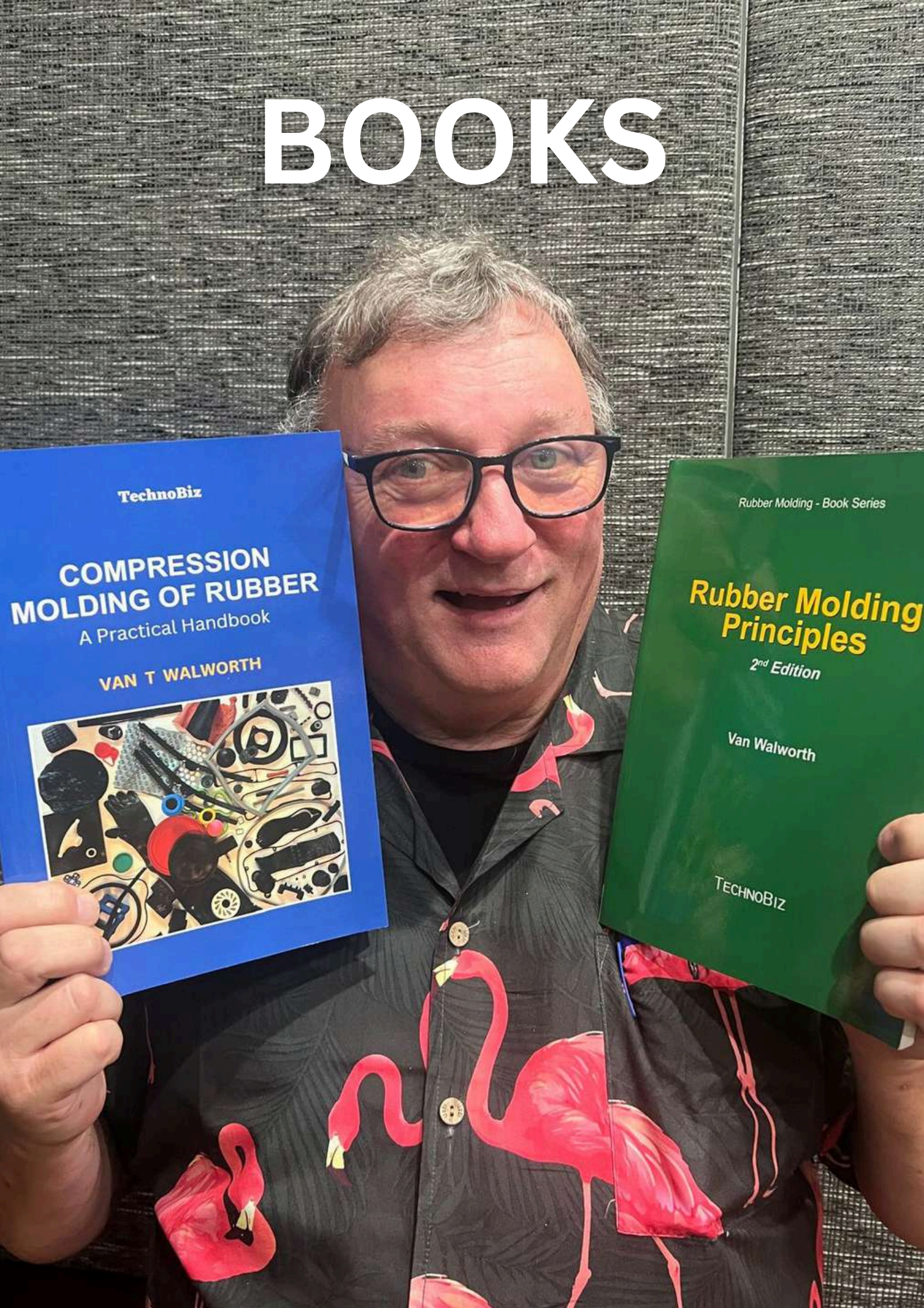
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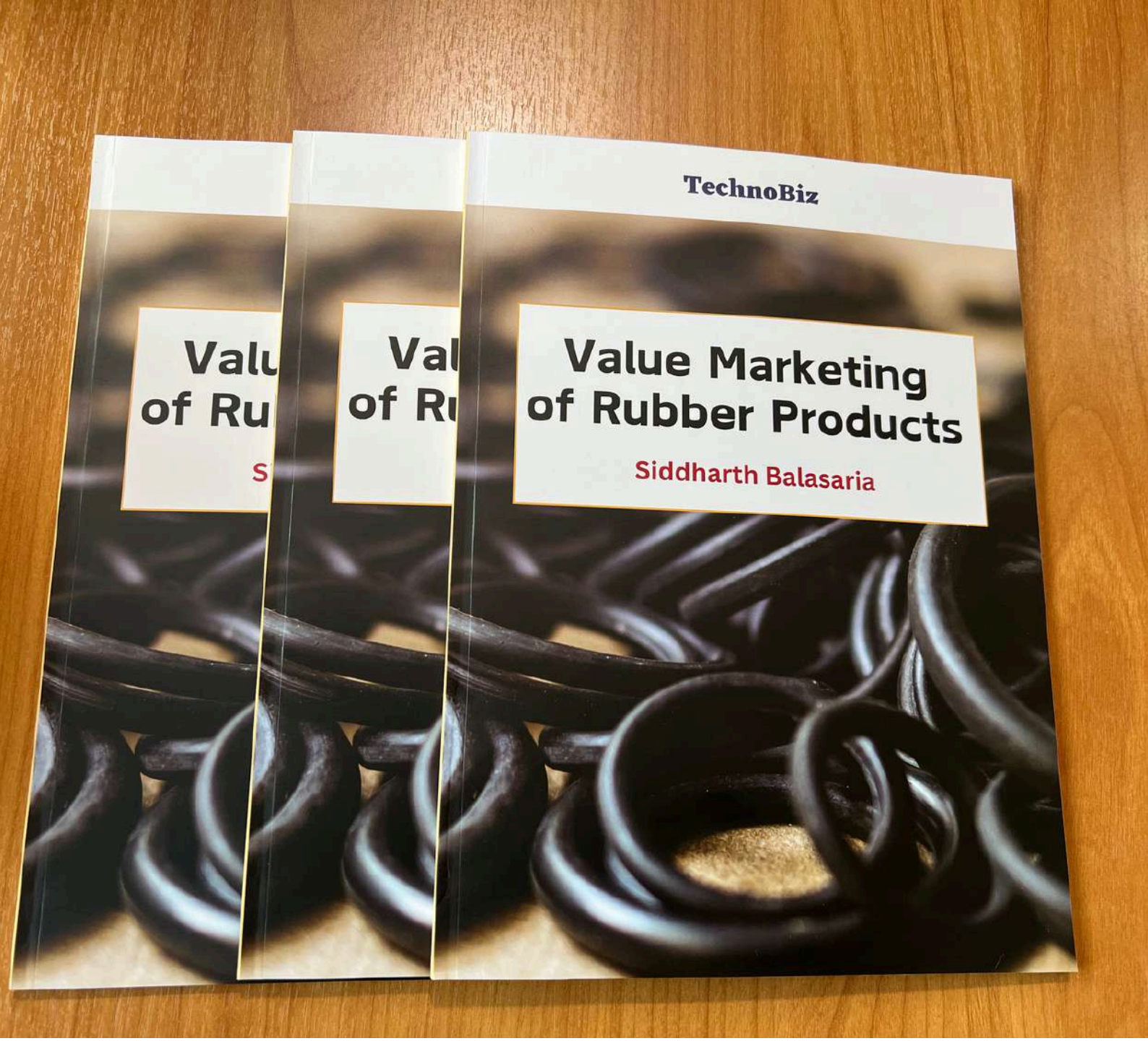

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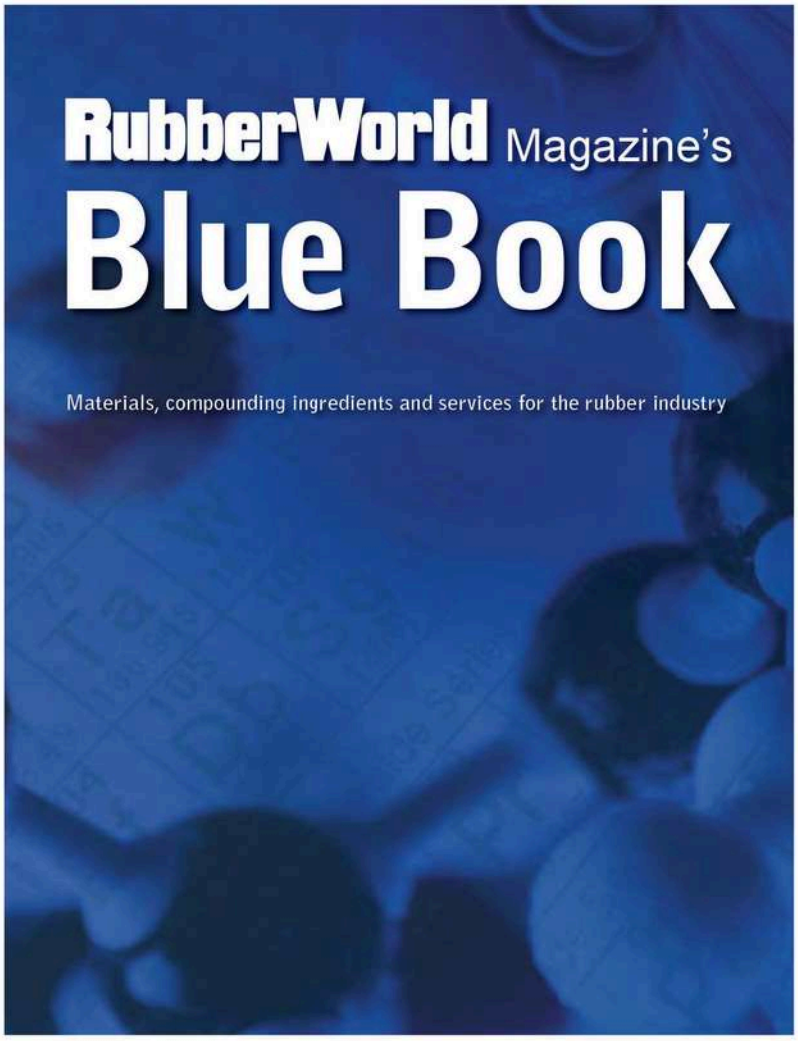

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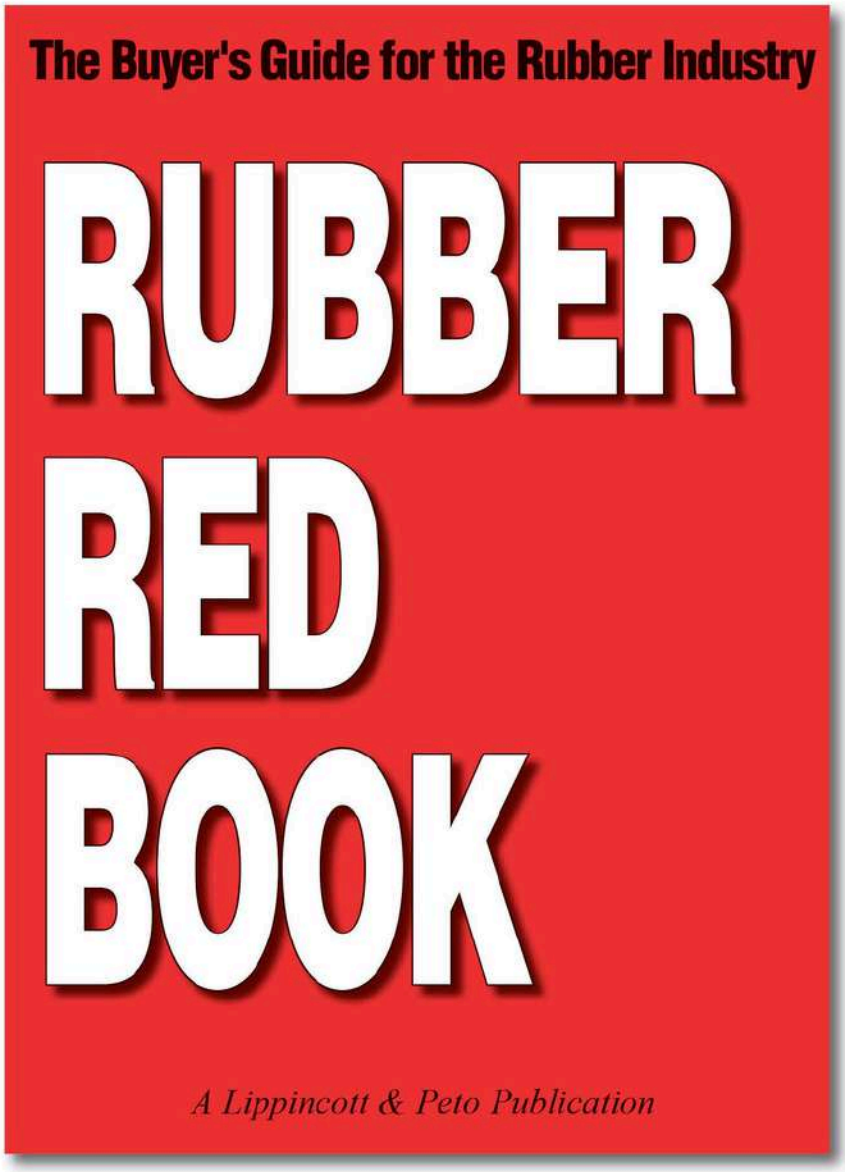

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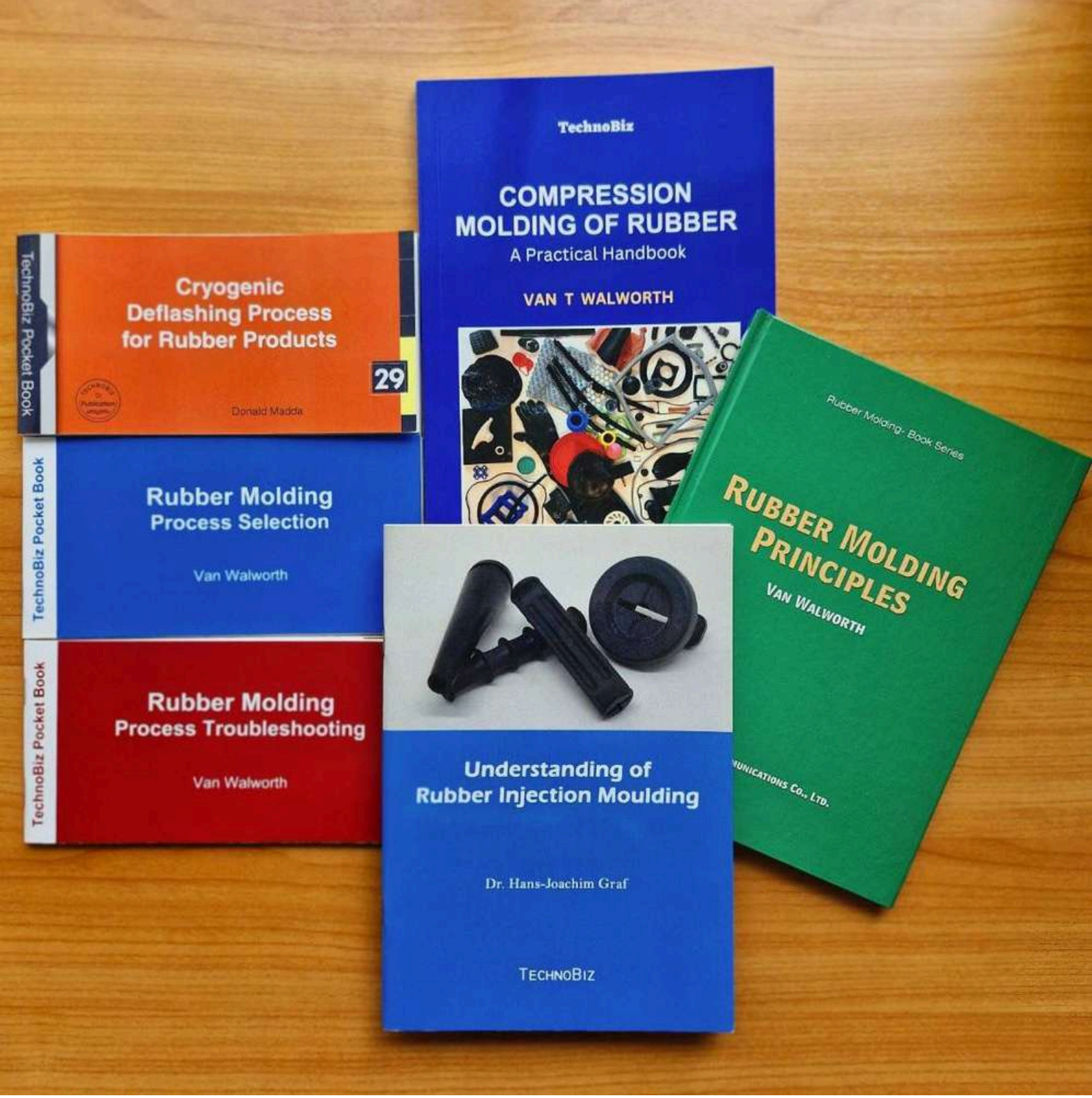

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