RUBBER Review

Published by
TechnoBiz
RubberWorld

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A Weekly E-Magazine
for Global Rubber Industries

Issue - 26 | 24-30 November 2025 | www.rubber-review.com | Free Subscription

Dr. Upul N Ratnayake

Director (Technical and R&D)
Dipped Products Plc., Sri Lanka

A TechnoBiz Executive Forum on Tyre Science, Technology & Industry

TechnoBiz Tyre Tech WEEK

10-12 FEB 2026

CHENNAI, INDIA | GREEN PARK HOTEL

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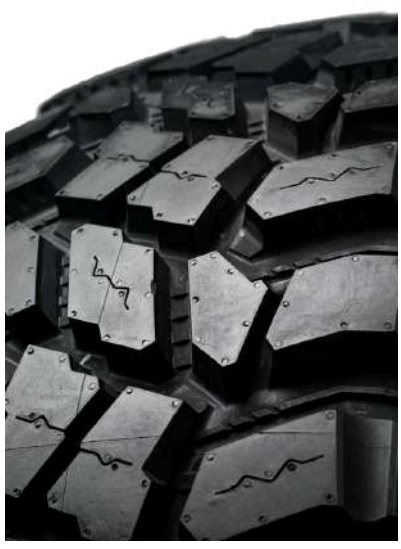

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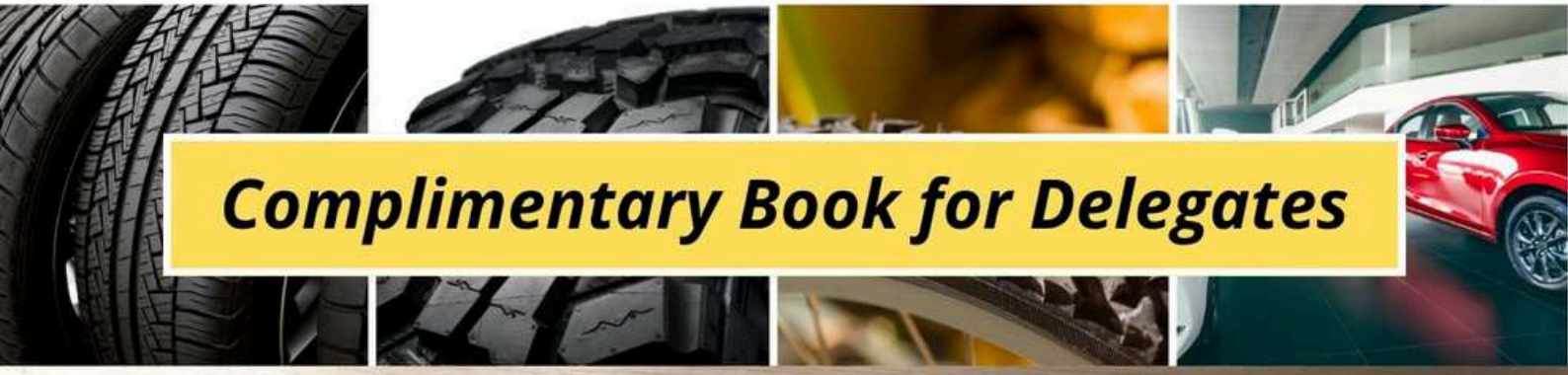

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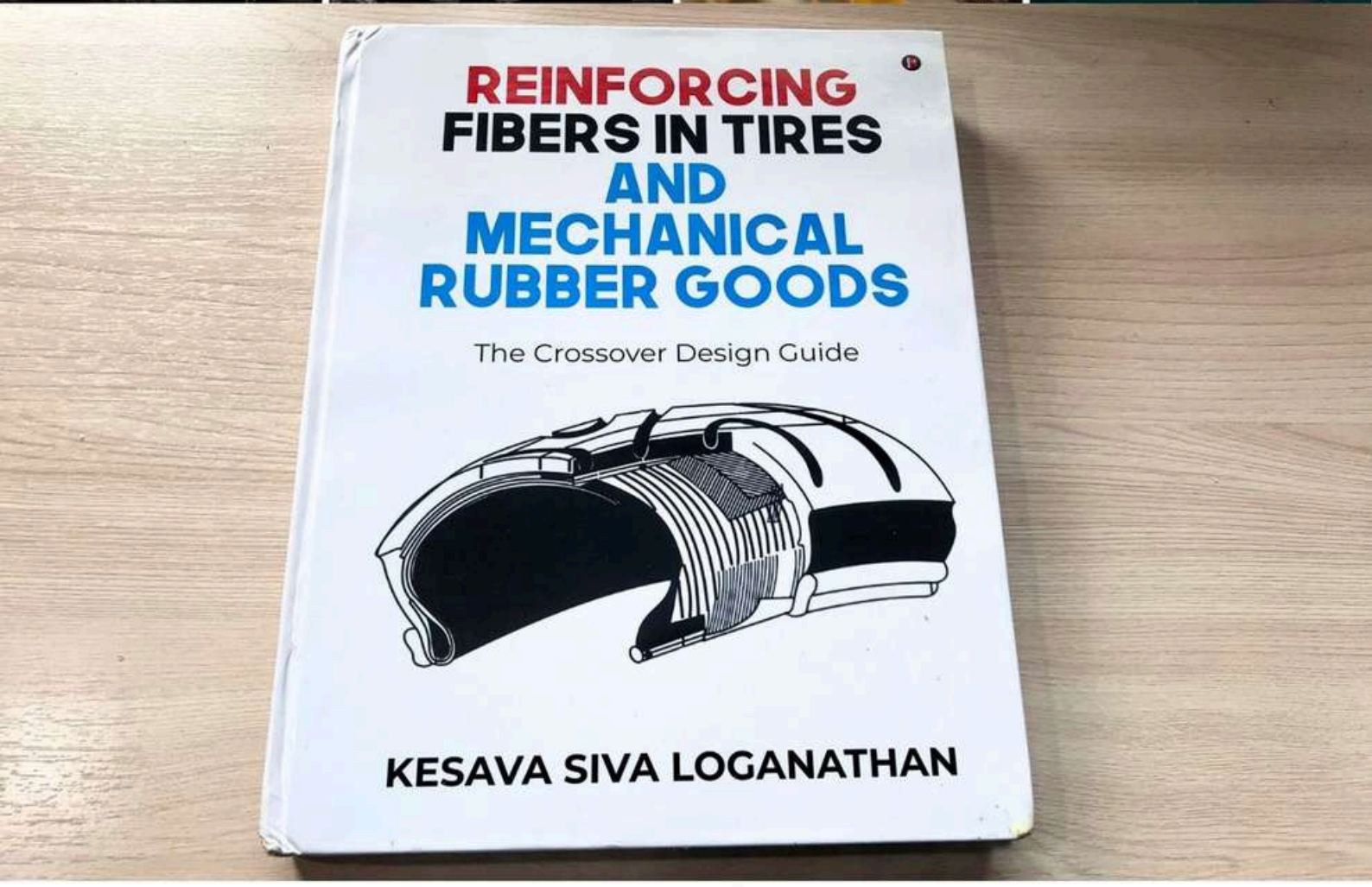

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ISO 9001 : 2000

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.

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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

Dr. Upul N Ratnayake

Director (Technical and R&D)

Dipped Products Plc

***Dr. Upul Nishantha Ratnayake** is a pioneering figure in the global rubber and glove industry. With more than three decades of experience spanning research, industrial leadership, and academic mentorship, his career has bridged science and industry in transformative ways.*

Currently serving as Director – Technical & Research & Development at Dipped Products Plc (DPL), one of Sri Lanka's leading glove manufacturers, Dr. Ratnayake has been instrumental in driving product innovation, quality assurance, and technology development. Under his leadership, DPL introduced globally recognized glove innovations such as the Magneto Glove (awarded "Most Innovative Product of the Year" at the 2024 Presidential Export Awards) and multiple patented glove technologies that enhance safety, comfort, and sustainability.

His work reflects not only technical mastery in latex chemistry, polymer nanocomposites, and dipped product technology, but also strategic vision in positioning Sri Lanka as a competitive hub in the global glove market. Beyond industry, Dr. Ratnayake has made lasting contributions as a researcher at the Rubber Research Institute of Sri Lanka, a founding member of the Sri Lanka Institute of Nanotechnology (SLINTEC), and as a mentor to numerous MSc, MPhil, and PhD scholars in polymer and rubber science.

This conversation with Rubber Review explores his journey, technical contributions, industrial innovations, and his outlook on the future of gloves, rubber technology, and global markets.


50
DPL
CELEBRATING 50 YEARS OF
PROTECTING YOU ALWAYS
Meeting Room
1

Personal & Career Journey

Could you share your early inspirations and how you first entered the rubber and polymer industry?

Upon completing my BSc in Applied Sciences from the University of Sri Jayewardenepura, Sri Lanka (1994), I began my professional journey as a trainee at the Rubber Research Institute of Sri Lanka (RRISL). It was here that I first discovered the fascinating world of rubber chemistry and technology. What inspired me most was witnessing how a liquid material—natural rubber latex—could be transformed into a highly elastic and durable substance, a process that underpins countless technological innovations. This sparked my curiosity and ignited a deep desire to explore, understand, and innovate within this field.

From that moment onward, I dedicated myself to advancing both my knowledge and the practical applications of rubber science and technology. With this curiosity and enthusiasm, I decided to remain in this field and explore the opportunities and career progression it offers.

Looking back at your long career at the Rubber Research Institute of Sri Lanka, what milestones shaped your professional journey?

I began my professional journey in 1995 as a Rubber Chemist at the Rubber Research Institute of Sri Lanka (RRISL), in the Rubber Process Development and Chemical Engineering Department. This role provided me with a strong foundation in rubber chemistry, processing technology, and their industrial applications.

In 1998–1999, I had the opportunity to undergo specialized training in Radiation Vulcanization of Natural Rubber Latex at the Takasaki Radiation Chemistry Research Establishment, Japan Atomic Energy Research Institute. This experience offered me my first international research exposure.

Building on this foundation, I pursued doctoral studies in polymeric nanocomposites and their applications, earning a PhD in Polymer Technology and Materials Engineering from Loughborough University, UK, in 2006. This academic achievement deepened my expertise and positioned me to make advanced contributions to the field, especially to Sri Lanka's early nanotechnology initiatives at a time when nanotechnology was still emerging worldwide.

During this period, I also contributed to Sri Lanka's Nanotechnology Initiative and later served as a Senior Scientist at SLINTEC, the country's first public–private partnership research institute dedicated to nanotechnology and advanced materials. Over three years, I explored nanomaterial applications in rubber technology, opening new pathways for innovation and expanding my research horizons.

After completing my PhD, I progressed to the position of Senior Rubber Chemist and was subsequently appointed Principal Rubber Chemist/Technologist in 2011. In this role, I provided scientific leadership, guided research programs, and contributed to the development of innovative technologies in rubber processing.

A significant milestone in my career came in 2015, when I became the Head of the Rubber Process Development and Chemical Engineering Department at RRISL. In this leadership role, I oversaw major research initiatives, mentored teams of scientists, and steered strategic programs to strengthen the technological capabilities of the Sri Lankan rubber industry.


26TH PRESIDENTIAL
EXPORT
AWARDS
Export Excellence: Towards a Greener, Inclusive Tomorrow

How has your transition from national research roles to corporate leadership at DPL shaped your approach to innovation, and what personal qualities and experiences have enabled you to balance research, industrial leadership, and academic mentoring?
My transition from national research roles into corporate leadership at Dipped Products PLC has fundamentally broadened my approach to innovation. At the Rubber Research Institute and SLINTEC, I learned to push the boundaries of science, exploring nanotechnology, advanced rubber processing, and material engineering.

In the corporate environment, I had to integrate this scientific depth with commercial realities—speed, scalability, and customer needs. Innovation is no longer just about scientific novelty; it is about delivering solutions to industrial problems at scale while ensuring that products meet performance standards, regulatory requirements, and sustainability expectations.

This shift taught me to balance deep scientific exploration with market-driven pragmatism, guiding teams not only to innovate but also to translate research into commercially successful and award-winning products, ultimately positioning DPL as one of the most innovative glove manufacturing companies.

Research & Technical Contributions

You have made significant contributions to nanotechnology in Sri Lanka, particularly in nanocomposites for elastomer applications—among your breakthroughs, which do you value most, how do you see nanotechnology transforming traditional rubber processing and product performance, what challenges remain in scaling polymer nanocomposites for commercial use, and how do scientific publications support the advancement of industry-relevant research?
Drawing on my PhD training and experience, I established Sri Lanka's first polymer/rubber nanotechnology group at SLINTEC and led the country's first commercial-scale nanomaterial project in rubber, which resulted in a USPTO patent. Through this work, we developed a novel and scalable rubber nanocomposite with superior interfacial compatibility between the nanomaterial and the rubber matrix, leading to significantly enhanced reinforcement.

From my experience, the most challenging task in applying nanomaterial technology to rubber is achieving effective and uniform dispersion of the nanomaterials within the rubber matrix, while maintaining them at the nanoscale and ensuring strong interaction between the nanomaterial and the polymer network. Due to these challenges, the rubber and latex industries have yet to fully realize the potential advancements that nanotechnology can offer.

Although many scientific publications appear across various platforms and are essential for the advancement of science and technology, it is equally important for industry experts and technologists to collaborate closely with academia and researchers. Such partnerships are crucial to transform scientific discoveries into practical technologies that solve real industrial problems and lead to improved processes and products.

"The true challenge in rubber nanotechnology is not discovering new materials, but dispersing them uniformly and achieving strong interfacial interaction — without this, nanotechnology cannot deliver its full potential."

Latex Glove Industry – Innovations

Over the past decade, the latex glove industry has seen rapid product innovation—from specialized coatings to advanced functional properties. Based on your experience and patented developments at DPL, how has the industry evolved, how do your glove-coating technologies enhance safety, durability, and usability, what was the concept and impact behind the award-winning "Magneto Glove," how do you balance competing demands such as comfort, sustainability, and cost-effectiveness, and which glove innovation project has been the most challenging yet rewarding for you at DPL?

Over the past decade, the latex glove industry has evolved from offering basic protective barriers to delivering high-performance, functional, sustainable, and user-focused solutions. With advances in material science, gloves now integrate multiple functional properties beyond mechanical and chemical protection, resulting in application-specific products tailored to healthcare, industrial, and food-handling needs. User comfort and fatigue reduction have become central design priorities, especially for heavy-duty industrial gloves. Significant innovation has focused on improving ergonomics, fit, and feel so that gloves enhance productivity while minimising strain during extended use. In parallel, sustainability has emerged as a defining pillar of glove development, with leading manufacturers embedding environmentally responsible practices into both product design and production processes.

At DPL, many of our patents focus on functional performance—enhanced chemical resistance, improved grip, magnetic sensitivity, and superior comfort achieved through advanced technologies. These innovations stem from our commitment to providing unique, practical solutions to real industrial challenges. Beyond traditional protection, I strongly believe that comfort, functionality, and durability are the three core pillars that distinguish innovative gloves from conventional alternatives. Our innovation strategy is firmly centred on advancing these dimensions.

A clear example is our Magneto Glove range, which received the "Most Innovative Product of the Year 2024" award at the 26th Presidential Export Awards. This breakthrough in food-safety technology transforms an elastomeric glove into a material with magnetic sensitivity, enabling even a 5 × 5 mm glove fragment to be detected and removed during food processing. By addressing a long-standing contamination risk, Magneto Gloves set a new benchmark for protective technology in the food industry.

Looking ahead, our most ambitious and rewarding project is the development of a next-generation glove offering the highest level of chemical resistance. Designed to perform across a wide spectrum of chemicals, this glove aims to be the most versatile and dependable solution for chemical-intensive industries, setting new standards for safety and performance in extreme environments.

"The glove industry has moved far beyond basic protection, today's gloves must deliver functionality, comfort, durability, and sustainability, tailored to the specific needs of the user."


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Latex Glove Industry – Markets & Strategy

How do you foresee the global glove industry evolving in terms of Sri Lanka's competitiveness, sustainability and regulatory demands, material trends, automation, emerging market segments, and the key features that will define the glove industry by 2035?

At DPL, our market strategy is straightforward yet distinctive: we prioritise product differentiation through strong, innovation-led development. Rather than competing with high-volume manufacturers, we focus on value-added solutions. We deliver high-quality gloves across household, industrial, and specialised categories—both single-use and reusable, supported and unsupported. Our positioning is clear: we aim to be globally recognised as a diversified, innovation-driven glove manufacturer with a solid ESG foundation.

Sri Lanka's Glove Industry Context

Sri Lanka's glove industry has a maturity of more than 50 years, yet over the past two decades a handful of large manufacturers have come to dominate the sector. They primarily supply disposable, household, and industrial gloves—both single-use and reusable—to global markets. Unlike Malaysia and Thailand, which benefit from economies of scale and raw-material advantages, Sri Lanka cannot compete on volume. Instead, our strengths lie in technology, environmental sustainability, and reliability. By building on these strengths, we can carve out niche markets where quality, compliance, and technical expertise matter more than price.

Today, international buyers—particularly in the EU and among multinationals—no longer evaluate suppliers solely on quality and service. ESG performance, ethical sourcing, deforestation-free production, and regulatory compliance have become decisive factors. While these requirements pose challenges for global glove makers, they present a unique opportunity for Sri Lanka, as our industry already incorporates many of these best practices. With targeted improvements, we can leverage this advantage to enhance our competitive position.

Future of the Global Glove Industry

Looking ahead to 2035, gloves will evolve beyond simple barrier protection. They will become smart, functional, sustainable, and fully traceable safety products. Competing in this environment will require significant investment in sustainable material innovation, digitalisation, and AI-driven manufacturing processes. At DPL, we are preparing for this future, ensuring that our innovation pipeline and ESG-focused strategy keep us ahead of emerging industry trends.

"By 2035, gloves will be smart, functional, sustainable, and fully traceable. Competing in this future demands investment in material innovation, digitalisation, and AI-driven manufacturing."

"Sri Lanka cannot win on volume, but we can win on innovation. At DPL, our strength lies in creating value-added, technology-driven glove solutions built on a strong ESG foundation."


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NATIONAL BUSINESS EXCELLENCE AWARDS 2025

Patents & Intellectual Property

How do you view the role of intellectual property in driving industrial R&D, which of your patents do you consider most transformational for the global rubber or glove industry, and how do you cultivate an innovation culture that consistently generates protectable, high-impact research within your R&D teams?

I hold multiple international patents in latex and polymer applications, and I firmly believe that acquiring intellectual property rights is a fundamental requirement in industries such as rubber and latex. IP protection safeguards innovation from being copied—because innovation without protection is vulnerable, and companies risk losing the technological advantage they achieved before it creates real value. More importantly, the number of patents a company owns reflects its innovative strength and distinguishes it as a serious, innovation-driven manufacturer. At DPL, our research and innovation strategy—especially in product and process development—is strongly aligned with an IP-focused approach.

In my view, fostering innovation within an R&D team begins with building a culture where team members feel free to explore, experiment, challenge assumptions, and even make mistakes. At the same time, we follow a well-defined stage-gate process, ensuring that new ideas do not remain as concepts but are progressively developed into value-added, protectable outcomes. This structure ensures that the time invested in each project delivers tangible results within strict timelines, as industrial research does not have the luxury of extended fundamental exploration.

I place strong emphasis on IP awareness, helping the team understand how their work can translate into patents or unique know-how. We also encourage cross-disciplinary collaboration, as many breakthrough ideas emerge from the convergence of different perspectives. Finally, we ensure that recognition and rewards are tied not only to new products but also to the generation of patents, reinforcing that innovation and protection must go hand in hand.

Most patents belonging to DPL are strategically important intellectual property assets. However, among them, the US Patent No. 11,877,612 B2—"***Latex dipped article with a modified polyvinyl alcohol layer resistant to water, solvents, and diluted solvents***"—is particularly significant and encouraging. It establishes a strong foundation upon which many protectable innovations can be built and strengthens DPL's position as a leading innovative solution provider in the hand-protection sector.

"Innovation without intellectual property protection is vulnerable. Patents safeguard technological value and define a company's true strength as an innovation-driven manufacturer."

"Powerful industrial innovation comes from a culture that encourages exploration and cross-disciplinary thinking, while transforming ideas into protectable, high-impact solutions through a disciplined stage-gate approach."


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30-31 January 2024, Pattani, Thailand
Dr. Upul Ratnayake, General Manager - R&D,
Dipped Products Plc., Sri Lanka
Rubber Technologist

Academia & Mentorship

As someone who has supervised MSc, MPhil, and PhD students and served as a visiting lecturer and examiner, how do you view your role in mentoring the next generation of researchers, what gaps do you see between academic research and industry needs in Sri Lanka and globally, and how do you ensure that graduates are prepared for real-world industrial challenges?

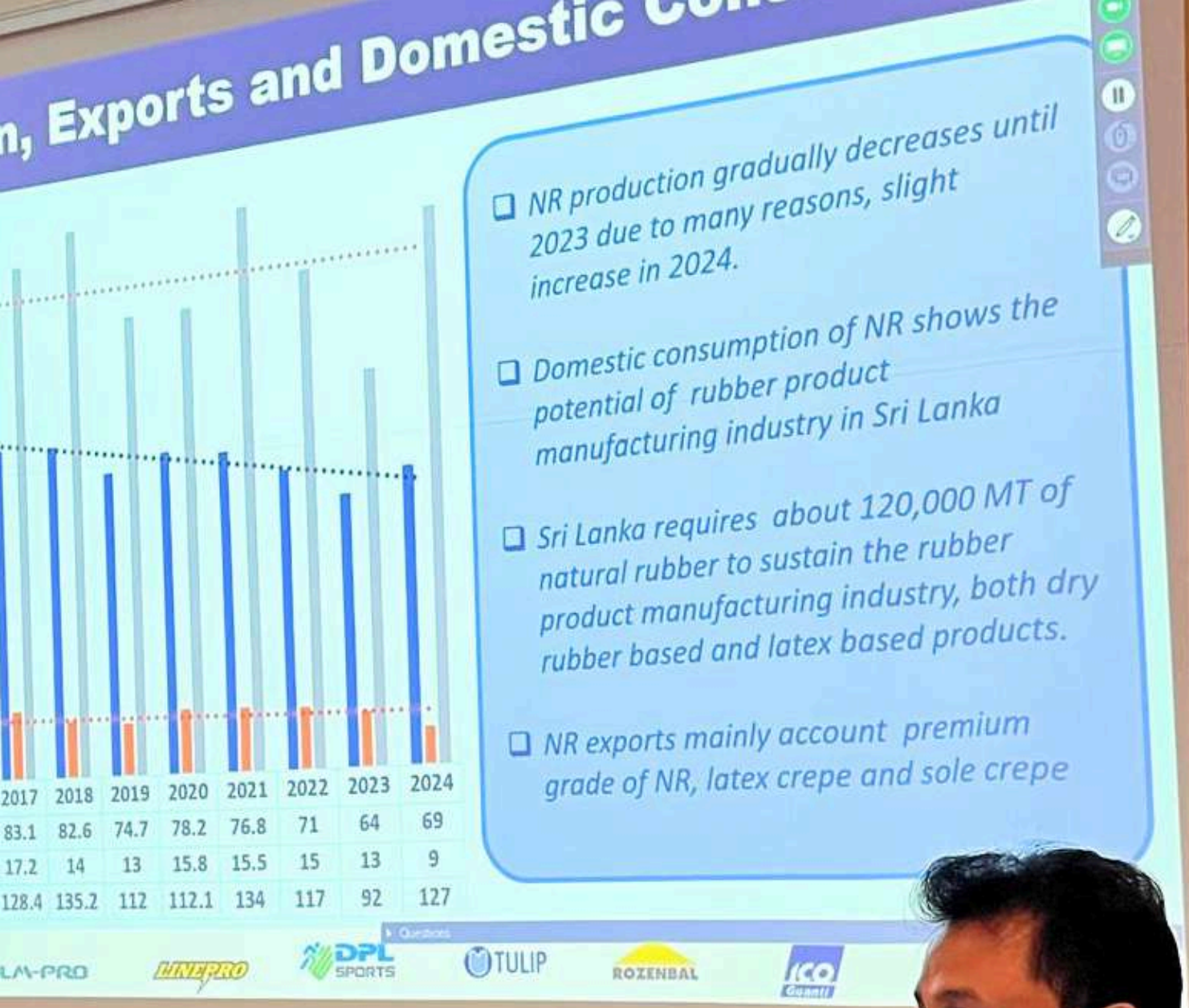
I began my academic activities and mentoring of research students even before joining DPL, viewing it as part of my social responsibility. Despite my demanding schedule at DPL, I continue this work with passion and strong commitment—and I genuinely enjoy it.

What differentiates my earlier and current academic engagement is the industry perspective I now bring. With extensive industrial experience and a deep understanding of rubber chemistry and technology, I focus on guiding young researchers to apply fundamental knowledge directly to real industry challenges. Instead of relying on trial-and-error methods—which are still common in the latex sector—I encourage them to pursue sustainable, knowledge-driven solutions that can create tangible value for the industry.

Traditionally, academia has been centred on fundamental research, often without translating this knowledge into product development or process improvements, mainly due to limited exposure to industrial realities. At the same time, Sri Lanka's industry has historically underestimated the value that academia can offer in solving practical problems. This misalignment has created a persistent gap, limiting the potential of academic research to drive meaningful industrial innovation.

Through my continued involvement in academia, I aim to bridge this gap by combining industrial insights with academic rigour. My goal is to ensure that research efforts are not only scientifically sound but also aligned with real-world needs, enabling students to contribute directly to the advancement of the rubber and polymer industry.

"My goal as a mentor is to bridge the gap between academia and industry by helping young researchers turn fundamental knowledge into real-world, value-creating solutions."


n, Exports and Domestic Co
NR production gradually decreases until 2023 due to many reasons, slight increase in 2024.
Domestic consumption of NR shows the potential of rubber product manufacturing industry in Sri Lanka
Sri Lanka requires about 120,000 MT of natural rubber to sustain the rubber product manufacturing industry, both dry rubber based and latex based products.
NR exports mainly account premium grade of NR, latex crepe and sole crepe
2017 2018 2019 2020 2021 2022 2023 2024
83.1 82.6 74.7 78.2 76.8 71 64 69
17.2 14 13 15.8 15.5 15 13 9
128.4 135.2 112 112.1 134 117 92 127
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National & Global Contributions

As a founding member of SLINTEC and an early contributor to Sri Lanka's National Nanotechnology Initiative, how do you assess its impact today, and what opportunities do you see for Sri Lanka to expand its global footprint in rubber and polymer technologies while balancing raw rubber exports with the development of value-added products?

When Sri Lanka identified nanotechnology as an emerging field with the potential to drive economic development, the Ministry of Science and Technology, together with the National Science Foundation (NSF), launched the National Nanotechnology Initiative (NNI). I was fortunate to be invited to join this programme, as I had just completed my PhD in Polymer Nanotechnology and was serving at the Rubber Research Institute (RRI) after returning to the country from my higher studies.

Subsequently, I was released from RRI to join the newly established Sri Lanka Institute of Nanotechnology (SLINTEC), which emerged directly from the NNI. As one of its founding members, I look back with pride at the foundations we built to strengthen national capability in nanotechnology research. We established critical infrastructure for nanomaterials research and applications, and created opportunities for local industries to collaborate through joint projects aimed at commercial outcomes. Most importantly, SLINTEC demonstrated that research must extend beyond academic publications and place strong emphasis on intellectual property, innovation, and the translation of science into market-ready solutions.

I also consider my involvement in advancing polymer education, along with my active engagement with industry through the Plastics and Rubber Institute of Sri Lanka (PRISL)—the country's leading professional body for the polymer sector—to be a meaningful contribution to the development of both the industry and its knowledge base.

I believe Sri Lanka has immense potential to expand its global footprint in rubber, given its access to high-quality raw materials, a well-trained and experienced workforce with strong subject expertise, and the availability of technologies developed over the past few decades. To fully realise this potential, the country must shift from volume-driven exports to value-added products, underpinned by innovation and sustainability.

"SLINTEC proved that research must go beyond publications, its true value lies in intellectual property, innovation, and transforming science into market-ready solutions."

"Sri Lanka's strength is not in volume but in knowledge, quality, and sustainability. By shifting from raw rubber exports to value-added innovations, we can build a powerful global footprint."


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Awards & Recognition

Among the awards you have received—such as the National Science Foundation Technology Award and the Hayleys Chairman's Award—which recognition has been most meaningful to you, and how do such awards and recognitions motivate teams and shape a culture of innovation within an organisation?

During my professional career, I have been honoured with several recognitions at different stages, each marking an important milestone in my journey. Among them, a few stand out as especially meaningful.

Receiving "**The Most Innovative Product of the Year 2024**" at the 26th Presidential Export Awards and being named the overall winner at the Hayleys Chairman's Awards 2022 for developing "**The Next Generation Innovative Solution for Hand Protection**" are particularly close to my heart. These achievements reflect my contribution to positioning DPL as one of the leading innovative glove manufacturers in the world.

In addition, the President's Award for Scientific Publication (2009) remains a landmark in my career, as it represents my commitment to advancing scientific knowledge and strengthening the academic foundation of the field.

Personal Reflections

Looking back on your three decades of research and leadership, what key lessons have you learned, who have been your biggest mentors, and what message would you share with young professionals entering the rubber and glove industry?

Over the past three decades, my journey—from Junior Chemist/Technologist to Corporate Leader—through research, team leadership, and mentoring has been both challenging and deeply rewarding. Looking back, I have learned that true innovation lies in connecting fundamental science with real-world needs and understanding how to transform research and ideas into commercial value.

Managing high-calibre and diverse teams has taught me the importance of trust, empowerment, clarity, and shared ownership. The most meaningful breakthroughs and powerful solutions have rarely come from individual brilliance alone, but from diverse minds working together, each contributing a unique perspective.

To young professionals entering the rubber or latex industry, I would say that the path is challenging but immensely rewarding. To thrive, you must master the subject and develop a strong understanding of fundamental material behaviour at every stage of the production cycle. Move away from trial-and-error practices and embrace a scientific, fundamentals-driven approach to problem-solving and innovation. Above all, believe in yourself, stay curious, enjoy the work, and remain committed to continuous learning. This combination will enable you to make a lasting contribution to the industry.

"True innovation happens when fundamental science is connected to real-world needs. Awards are meaningful not for the recognition itself, but for proving that research can be transformed into commercial value that strengthens an entire industry."

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Rubber & Tyre Consultants Spotlight

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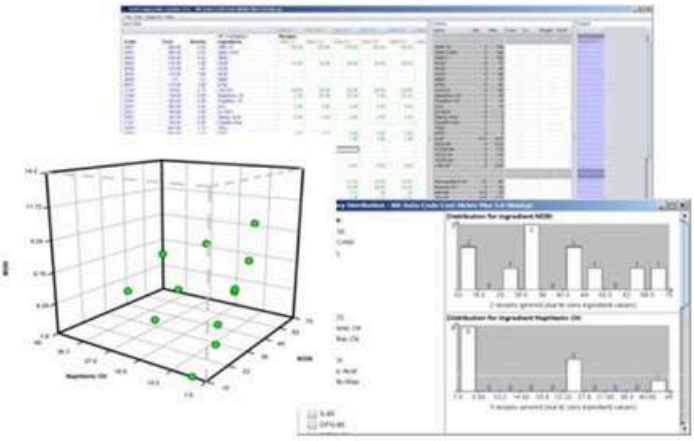
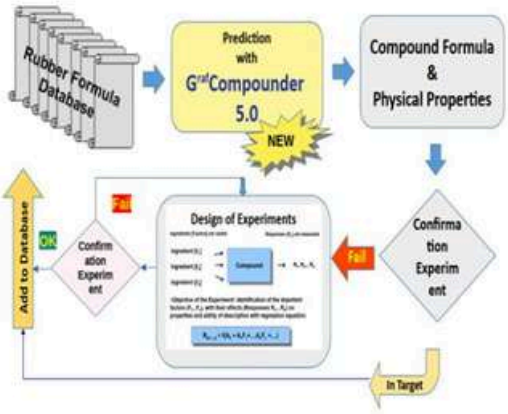
GrafCompounder 5.0

AI-Driven Innovation in Rubber Formulation



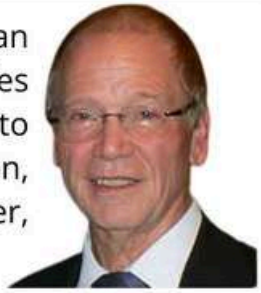


- AI-powered assistant for faster, more accurate compound development.
- Combines data intelligence and decades of formulation know-how.
- Reveals optimized recipes for tires, seals, hoses, and other applications.
- Reduces lab time, waste, and costs through predictive design.
- Supports collaboration and preserves valuable R&D insights.
- A true catalyst for smarter, data-driven innovation in rubber compounding.

Empowering Rubber Chemists for Intelligent Compound Design

"Adopted globally by hundreds of compounders and researchers."

GrafCompounder 5.0 has been developed by ***Dr. Hans-Joachim Graf***, an experienced rubber technologist and formulation expert with five decades of rubber industry and research experience. He has dedicated his career to advancing rubber compound design through data analytics, automation, and AI-based tools, helping chemists and engineers achieve faster, smarter, and more reliable formulation results.



www.grafcompounder.de

For a demonstration, please contact: ***Dr. Hans-Joachim Graf*** (h-jg_consulting@t-online.de)

ELL Technologies

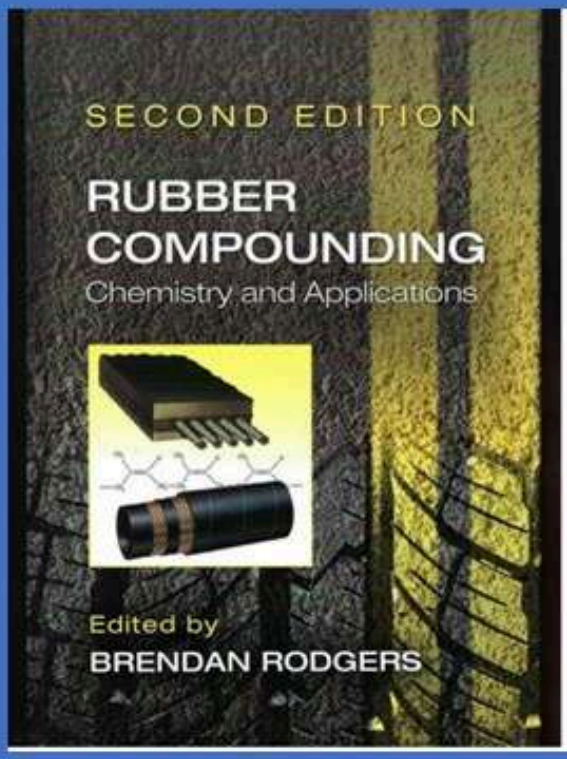
Austin, Texas

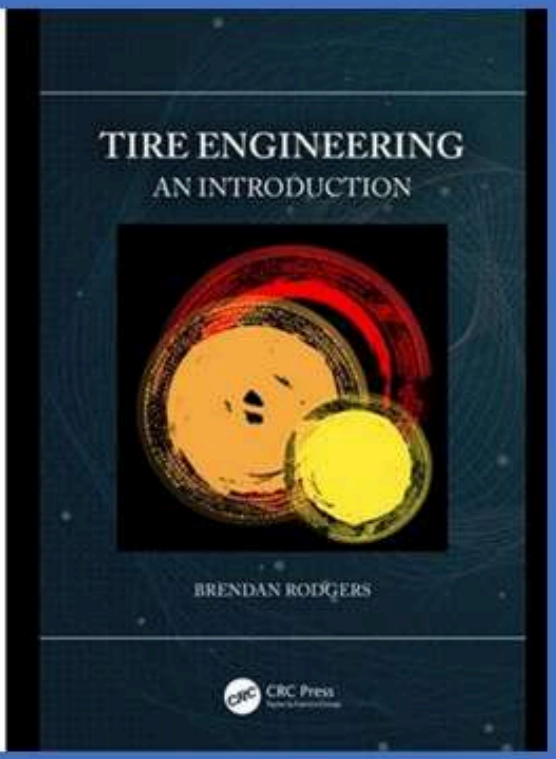
Innovating the Future in Tire Materials and Engineering

ELL Technologies guides the way in global tire and rubber compounding, tire engineering, and manufacturing

We deliver best in class technology, elastomer materials science and formulations, technology consulting, and team integration

Core Texts in Rubber Compounding and Tire Engineering
From ELL Technologies LLC





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Brendan.Rodgers@ELL-Technologies.com
+1 (281) 770 2861

Rheologix

Consulting, Training, & Sales services to get your elastomer business flowing

Sam Porter
Founder / Consultant

SamPorter@
RheologixServices.com
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- Molding Simulation
- Fatigue Simulation
- Quality Improvements
- Custom Training
- Project Management
- IP Support
- Failure Analysis
- Expert Witness
- Sourcing/Supplier Dev
- Technical Sales Rep
- Elastomers, Phenolics

WhatsApp

WeChat

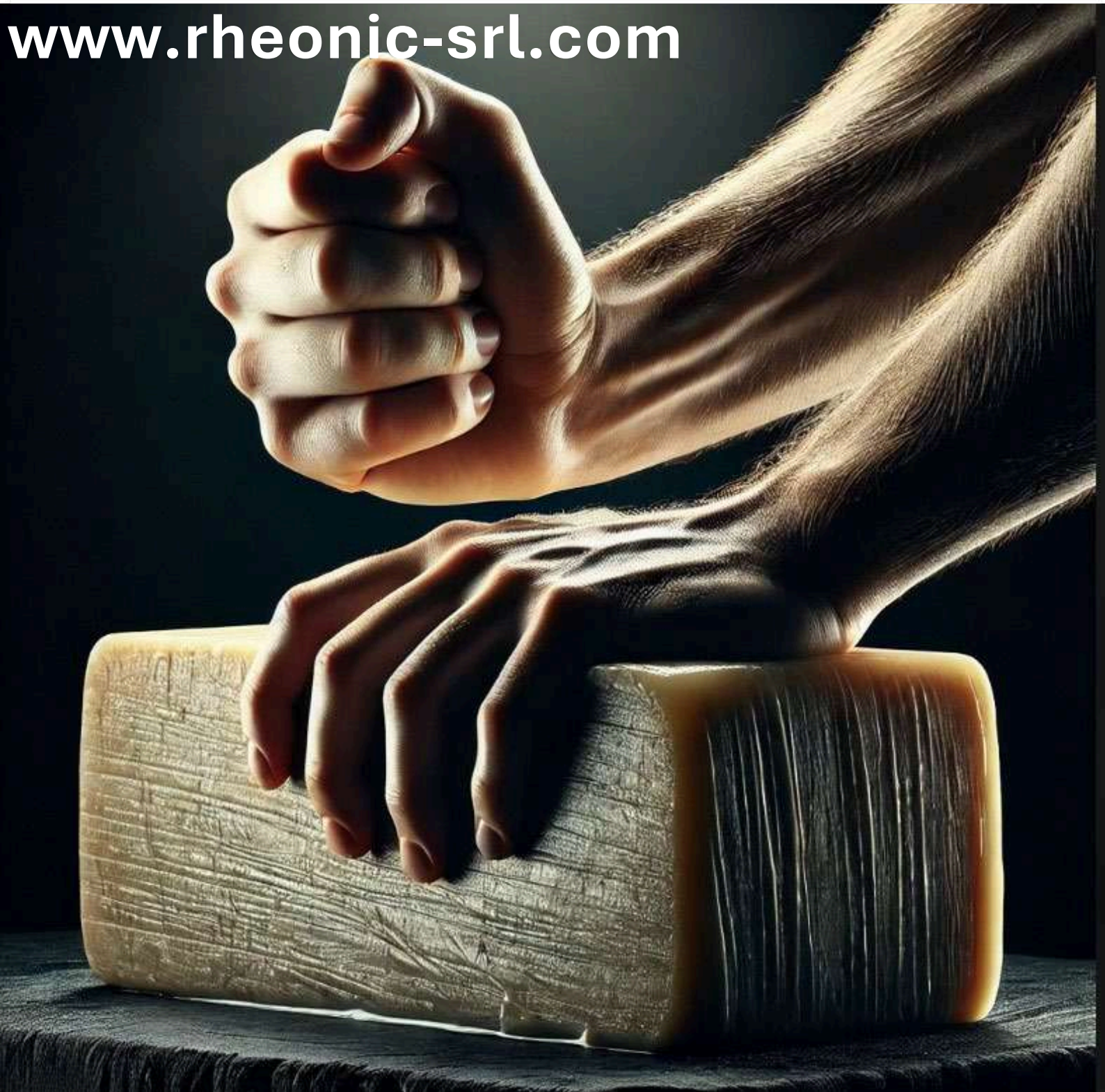
RheologixServices.com

Formulation giving you headaches?

Rheonic is an Italian engineering company founded in 2015 with a clear mission: to provide consulting services and technical partnerships to the rubber industry in the following areas:

It

- Rubber compound formulation
- P rocess optimization through numerical simulation techniques
- Vulcanization cycle development
- Rheology and viscoelastic characterization



RUBBER Review

Issue-26 | 24-30 November 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

1. Testing of Polymeric Matrials and Products
2. Research & Development on Rubber & Allied Products
3. Reverse Engineering & Failure Investigation
4. Academic & Sponsored Research
5. ARISE - Incubation Centre
6. Training & Skill Development
7. Industrial Consultancy
8. Third Party Inspection
9. Tyre Testing Facilities - Centre of Excellence

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE REGIONAL CENTRE'S

IRMRI - South Center 1 (Andhra Pradesh)
Sri City Trade Centre, Sri City (Dt.)
Contact: Mr. Paul Vannan,
Sr. Deputy Director
pv@irmra.org
info.south@irmra.org
Mob. No.: +91-8655095345

IRMRI - South Center 2 (Tamil Nadu)
Strategic Product Development Center
Plot B-26/2, SIPCOT Industrial Growth Centre
Oragadam, Sriperumpudur (Tk.),
Kancheepuram (Dt.)
spdc1@irmra.org

IRMRI - East Center
South Asian Rubber Park,
P.O-Sankrail, Howrah (Dt.),
Dulagarh, West Bengal - 711302
Contact: Dr. Basu,
Sr. Asst. Director & Centre Head
db@irmra.org
info.east@irmra.org
Mob. No.: +91-8197606600

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Vasant Kunj
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irmra.nc1@irmra.org
Mob No.:+91 9716230295

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly Known as INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA)
An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Government of India

IRMRI ANNOUNCES

04 DAYS TRAINING PROGRAM ON LABORATORY MANAGEMENT SYSTEM AS PER ISO / IEC 17025:2017 & INTERNAL AUDIT

DATE- 25th to 28th Nov 2025

Who We Are

Indian Rubber Materials Research Institute (IRMRI), formerly IRMRA, established in 1958 in Thane, Maharashtra, is a globally recognized Centre of Excellence for tyre and non-tyre rubber industries. Operating under the Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Govt. of India, IRMRI excels in testing, research, product development, training, and consultancy. With branches in Sri City (South Centre) and East Centre & North Centre, IRMRI serves the rubber and allied industries across India.

VENUE

Plot No. 254/1B, Road No. 16V, Wagle Industrial Estate, Thane West, Maharashtra

Faculty Expertise

Our faculty members are distinguished Lead Assessors accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL), Government of India, specializing in ISO/IEC 17025:2017 accreditation. With over 25 years of expertise, they have successfully conducted more than 600 audits, demonstrating unparalleled proficiency in laboratory quality management systems.

As highly skilled trainers certified by NABL, our faculty possess over a decade of experience delivering comprehensive training programs on ISO/IEC 17025:2017. Their extensive knowledge and practical insights ensure exceptional guidance for organizations seeking compliance with international standards.

Course Coverage

Requirements of ISO/IEC 17025:2017 Standard Basic Quality Concepts National / International relevance of Accreditation describe the process-based Approach of the Standard Explain new concepts such as:

1 ISO/IEC 17025:2017 Introduction
2. Evaluation of ISO/IEC:17025 and its global significance
3. Key concept and Terminology in ISO/IEC 17025
4. Understanding the requirement of ISO 17025
   - Element of ISO 17025 Std
   - The quality management system.
   - Management requirements
   - Technical requirement
   - Text /calibration method
5. Risk and opportunities
6. Implementing ISO/IEC :17025- Step by Step guide
7. Internal Audit in ISO/IEC :17025
8. Handling Non-Conformities.
9. Reporting Audit record in ISO/IEC :17025
10. Challenges in Implementation
11. Conclusion

Target Audience

- Quality managers ensuring laboratory accreditation
- Lab personnel managing testing, calibration, and operations
- Aspiring internal laboratory auditors
- Professionals conducting tests or calibrations

02 Days Awareness / Transition training
Candidates who have undergone the 04 days training on ISO /IEC 17025:2017 can attend this program for First two days @11,500/- for Residential candidate

DISCOUNT

2 CANDIDATES
&
3 CANDIDATES OR MORE CANDIDATES FROM THE SAME ORGANIZATION
DISCOUNT UPTO 10% -15%

More about our services

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

Registration Fee

- Non Residential : Rs 11,500/- For Non-Residential Candidate (Exclusive of GST) HIGHLY RECOMMENDED
- Residential : Rs 15,500 /- For Residential Candidate (Exclusive of GST

Payment to be made in advance by NEFT/DD/Cheque in favour of IRMRI, Payable at Thane

For more details contact us:

V. KARTHIKEYAN (BDM)
veerappan.karthikeyan@irmra.org
+91 7045086164/ 9361324212

Mr. AMOL TAMBE
Training Coordinator
infotrg@irmra.org

9969167262 / 8291404906.

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 7 working days prior to the scheduled date.

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

FORMERLY KNOWN AS INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA)
AN AUTONOMOUS INSTITUTE UNDER DPIIT, MINISTRY OF COMMERCE & INDUSTRY, GOVERNMENT OF INDIA
OFFICE - #2680, CENTRAL EXPRESSWAY, SRI CITY, TIRUPATI DISTRICT, ANDHRA PRADESH - 400604

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04 DAYS TRAINING PROGRAM ON

LABORATORY MANAGEMENT SYSTEM AS PER ISO / IEC 17025:2017 & INTERNAL AUDIT

DATE -25TH TO 28TH NOV 2025
VENUE- HOTEL VIJAY PARK, VADAPALANI, CHENNAI

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A discount o f 10% is applicable for 2 candidates and 15% for 3 or more candidates from the same Organization

REGISTRATION FEE

Non Residential : Rs 11,500/-
For Non- Residential Candidate
(Exclusive of GST)

Certification: All Participants will be awarded with a Certificate of Participation

Disclaimer: Please note, that the date and venue for the training program are subject to changes. In the event of any changes, we will notify you at least 7 working days prior to the scheduled date.

https://irmri.org/

CALL US FOR MORE INFO

Dr. Sheik Mohammed, Asst. Director & Center Head, 9003331713 / sheik.mohammed@irmra.org
Mr. V. Karthikeyan, Business Development Manager, 7045086164 / 9361324212/ veerappan.karthikeyan@irmra.org
Mr. Saravana Kumar, Sr. Engineer, 9361535780 / mktg@irmra.org

Payment to be made in advance by NEFT/DD/Cheque in favour of IRMRI, Payable at Thane

(PAYMENT QR CODE)

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

FORMERLY KNOWN AS INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA)
AN AUTONOMOUS INSTITUTE UNDER DPIIT, MINISTRY OF COMMERCE & INDUSTRY, GOVERNMENT OF INDIA

November 27, 2025

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

IRMRI-DELHI ANNOUNCES ONE DAY TRAINING PROGRAM ON

"FAILURE INVESTIGATIONS OF RUBBER PRODUCT"

TRAINING OVERVIEW

- Rubber products are typically designed using engineering models of loads and deflections applied to a certain volume of materials. The use of engineering principles in the development of rubber products provide an application envelope in which the products are expected to perform.
- Failures occurring under field services conditions are expensive and it becomes imperative to identify the cause and rectify it as soon as possible. The failure mode of polymers sets limits to the process of engineering design.
- Understanding the real reason of the failure of rubber products is critically important to avoid repeated recurrence in manpower, energy, time and above all cost. Failure hits cost cycle in a significant way and therefore absolutely undesired in competitive market.
- Failure investigations comprehensively involve individuals or machineries to find out how and why components fail under certain conditions.

WHO SHOULD ATTEND

- R&D scientists and engineers in rubber & polymers
- Quality control and testing personnel
- Production and process engineers
- Maintenance and reliability engineers
- Industry professionals (automotive, aerospace, healthcare, footwear, defence)
- Researchers, students, and start-ups in material innovation
- Failure investigations comprehensively involve individuals or machineries to find out how and why components fail under certain conditions.

LEARNING OBJECTIVES

There are three major requirements for failure analysis of rubber products:

- Correct observation of evidence and gathering of facts from experimental analyses
- A logical sequence of measuring, reasoning and deduction
- A knowledge of the material properties and behavior under service condition

REGISTRATION FEE

JOIN NOW

Rs. 4,000/- for Non - Residential Candidate
(Exclusive of 18% GST)

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 5 days prior to the scheduled date

Certification: All Participants will be awarded with a Certificate of Participation

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

https://irmri.org/

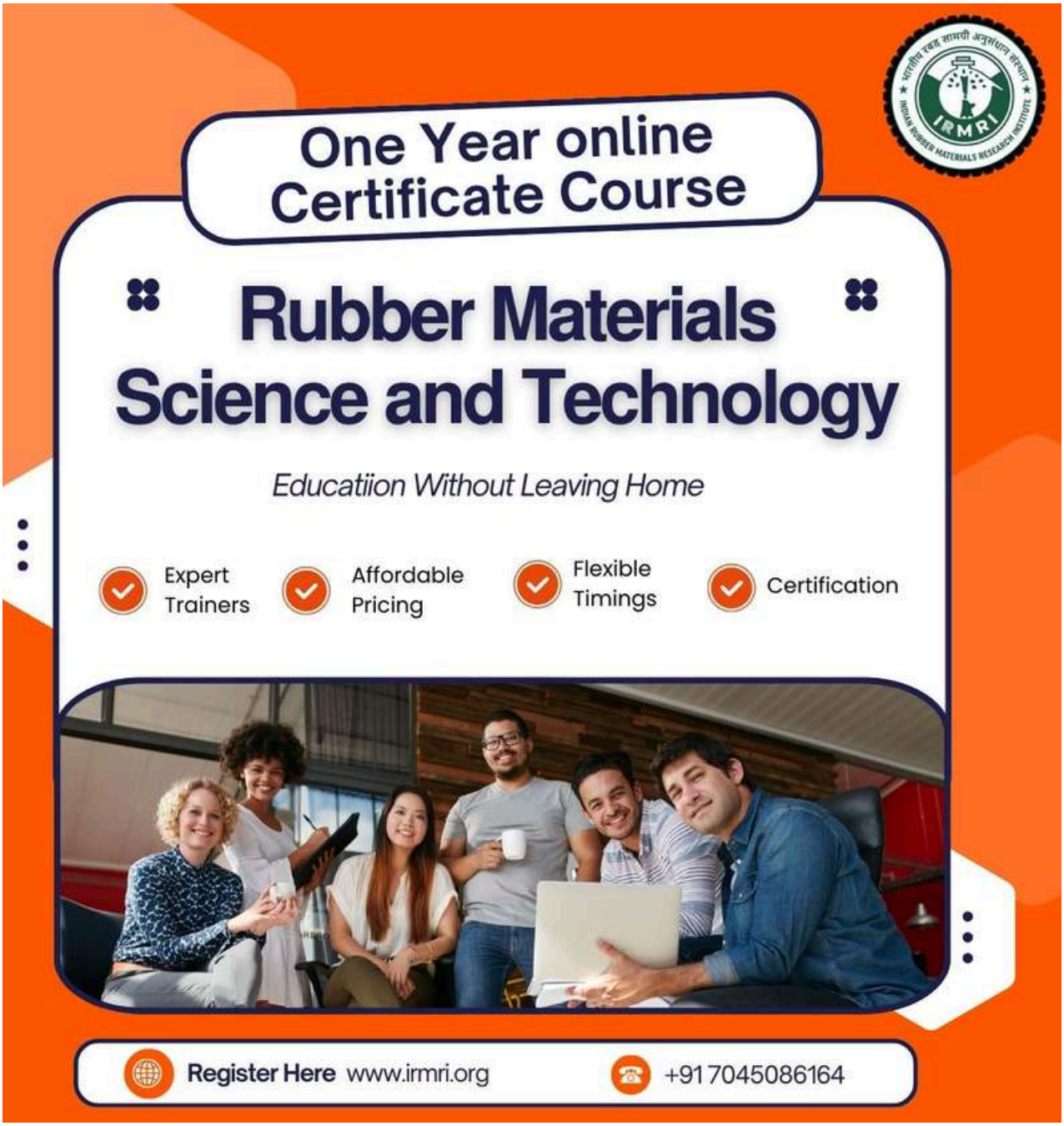
RAJEEV PANDEY (Office Manager)
irmri.nc1@irmra.org/ 8657019072

N SNEHA (Office-cum-Administrative Assistant)
irmri.nc2@irmra.org / 8657019073

V. KARTHIKEYAN (Business Development Manager)
veerappan.karthikeyan@irmra.org / 7045086164/ 9361324212

Registrations Open for IRMRI's One-Year Online Certificate Course in RMST

Registrations are now open for the One-Year Online Certificate Course in Rubber Materials Science & Technology (RMST) offered by the Indian Rubber Materials Research Institute (IRMRI), an autonomous institute under DPIIT, Government of India. This industry-focused program covers core areas such as rubber science, compounding, processing, product manufacturing, testing, latex technology and tyre technology. Designed for engineers, R&D professionals, QC teams, production supervisors, procurement staff, students and anyone wishing to build a strong foundation in the rubber industry, the course features live online classes every Tuesday and Thursday (4–5 PM) and offers flexible learning throughout the year. Eligibility: 10+2 with 1-year industry experience or Diploma/Degree in Science/Engineering. For details, contact: Mr. V. Karthikeyan (70450 86164 / 93613 24212) or Mr. Amol Tambe (99691 67262 / 82914 04906).



IRMRI Strengthens Industry Collaboration with Nashik Engineering Cluster

IRMRI's leadership team visited the Nashik Engineering Cluster (NEC) on 14th November 2025 to explore collaboration opportunities and strengthen technical support for member industries. The delegation, led by Mr. Paul Vannan and supported by senior officials including Dr. Bharat Kapgate, met with NEC Chairman Mr. Manish Kothari and the management team to discuss joint initiatives. The visit featured a technical lecture by Dr. Kapgate on improving processing, testing and quality management in rubber industries. The interaction opened doors for future partnerships, capacity-building programs, and industry-focused training. For workshops, seminars or customized technical programs in rubber and allied materials, please contact Mr. V. Karthikeyan at 9361324212 / 7045086164 or veerappan.karthikeyan@irmra.org.

IRMRI Advances Academic–Industry Partnership with KLE Society's Science & Commerce College

IRMRI was honoured to host the team from KLE Society's Science and Commerce College, Navi Mumbai on 12th November 2025 for productive discussions on a potential MoU and future academic–industry collaborations. The visiting delegation included Dr. Rani Patil, Dr. Prakash Badane, Dr. Richa Singh and Dr. Kumudini Lokhande-Aher, while the IRMRI team was led by Mr. Paul Vannan along with senior officials. The meeting focused on opportunities for joint research, internships, workshops, FDPs and short-term technical programs, marking a promising step toward a long-term partnership. For training programs, workshops, and academic initiatives in rubber and allied materials, please contact Mr. V. Karthikeyan at 9361324212 / 7045086164 or veerappan.karthikeyan@irmra.org..

Seminar on Standardisation for Sustainability & Circular Economy in the Rubber Industry – 19 December 2025

A one-day seminar on "Standardisation on Sustainability & Circular Economy for Rubber Industry" will be held on 19 December 2025 in Mumbai, jointly organised by BIS (PCD 13 & PCD 29) and ARISE, the incubation centre promoted by IRMRI. This seminar will bring together experts to discuss the standardisation needs of the rubber sector in the context of sustainability, green materials, recycling, life cycle assessment, ESG frameworks, and India's active role in ISO/TC 45. Industry and academic professionals are invited to submit technical presentation topics to support these discussions. The goal is to identify potential areas for new national and international standards, encourage green start-up initiatives, and develop a roadmap that will help MSMEs and large rubber industries adopt sustainable and circular-economy practices effectively.

This seminar is expected to play a pivotal role in aligning India's rubber industry with global sustainability benchmarks, fostering collaboration among BIS, ARISE, and stakeholders, and driving innovation through standardisation-led initiatives.

One-Day Seminar on "Standardisation on Sustainability & Circular Economy for Rubber Industry"

🗓️ **Date:** 19 December 2025
📍 **Venue:** Mumbai (TBC)
🕒 **Time:** 10:00 AM – 6:00 PM (followed by Cocktail & Dinner)

The **Bureau of Indian Standards (BIS),** through its committees **PCD 13** & **PCD 29**, in association with **ARISE – Association for Rubber Innovation and Start-up Entrepreneurship** (promoted by **IRMRI**), is organizing a one-day seminar focused on **standardisation for sustainability and circular economy in the rubber industry**.

🔍 **Key Themes:**
- Sustainable raw materials & green manufacturing
- Recycling, reuse, recovery & devulcanization
- Life Cycle Assessment (LCA) & carbon footprint
- ESG integration & circular economy in standards
- Opportunities for Indian participation in ISO/TC 45

🎤 **Call for Speakers/Experts:**
Industry professionals, academicians, and researchers are invited to contribute technical papers or lead discussions.
📩 **Send topics to**: arise@irmra.org / rk@irmra.org / pcd13@bis.gov.in / pcd29@bis.gov.in

💼 **Partnership & Sponsorship Opportunities Available!**
For collaboration and sponsorship details, contact:
📞 **Mr. Karthik Veerappan**, BDM IRMRI & Actg CEO (ARISE) + 91 70450 86164
✉️ **Dr. K. Rajkumar**, Director, ARISE – rk@irmra.org

Let's work together toward a **sustainable, circular, and globally aligned rubber industry!** ♻️

ARISE - ASSOCIATION FOR RUBBER INNOVATION AND START-UP ENTREPRENEURSHIP

Promoted by INDIAN RUBBER MATERIALS RESEARCH INSTITUTE
Formerly known as Indian Rubber Manufactures Research Association
An Autonomous Institute, Under DPIIT, Ministry of Commerce & Industry, Govt. of India
B-88, Road No 24U, Wagle Institute Estate, Thane West, Maharashtra
Email: arise@irmra.org Web: www.ariseindia.net.

ARISE Incubation Centre:

ARISE – Association for rubber Innovation and Start up Entrepreneurship Incubation Centre Promoted by Indian Rubber Materials Research Institute has swiftly developed as a pivotal platform for fostering innovation and entrepreneurship in the rubber and allied industries. With a mission to nurture start-up ecosystems, ARISE is helping aspiring entrepreneurs transform their innovative ideas into viable businesses, especially in the niche domain of rubber products and technologies.

Vision and Objectives

ARISE aims to be the breeding ground for future industrial leaders by providing startups and innovators with the resources, mentorship, and industry-specific expertise they need to succeed. The centre is particularly focused on promoting in rubber and allied industries, encouraging sustainable solutions, and fostering technological advancements that cater to both domestic and global markets.

The centre operates with the primary goal of bridging the gap between academia and industry, by enabling innovation-driven enterprises to evolve from ideation to commercialization. By aligning with national missions like 'Make in India' etc. ARISE plays an active role in building a self-reliant and globally competitive ecosystem.

Support Ecosystem at ARISE

ARISE offers a comprehensive support system, which includes

- *Mentorship and Networking*: The centre facilitates connections with industry experts, academicians, and business leaders, offering startups invaluable mentorship. Startups benefit from the extensive network IRMRI has built over the years, including collaborations with global companies, research institutions, and government agencies.

- *Access to Cutting-Edge Facilities*: ARISE - Promoted by IRMRI, startups at ARISE gain access to advanced R&D labs and testing facilities, enabling product development, innovation, and validation. This is a significant advantage, particularly for startups focusing on rubber technologies, which can quickly iterate and refine solutions.

- *Capacity Building through Training Programs*: ARISE offers a series of workshops and training programs covering diverse aspects of entrepreneurship such as financial management, legal compliances, intellectual property rights, business development, and marketing strategies. These programs will make ensure that entrepreneurs are well-equipped with the necessary skills to navigate the challenges of running a business.

- *Funding and Investment Opportunities*: Recognizing that financial backing is a critical component for the growth of startups, ARISE helps entrepreneurs connect with potential investors and funding agencies. The centre also advises startups on availing government schemes, grants, and subsidies designed for MSME's.

- *Industry Collaborations*: ARISE promotes partnerships between startups and established players in the rubber industry. These collaborations offer startups an opportunity to pilot their innovations, gain market insights, and even secure early customers.

ARISE - ASSOCIATION FOR RUBBER INNOVATION AND START-UP ENTREPRENEURSHIP

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Formerly known as Indian Rubber Manufactures Research Association
An Autonomous Institute, Under DPIIT, Ministry of Commerce & Industry, Govt. of India
B-88, Road No 24U, Wagle Institute Estate, Thane West, Maharashtra
Email: arise@irmra.org Web: www.ariseindia.net.

ARISE Impact

The centre has already started creating a tangible impact through its flagship Entrepreneurship Development Programme - Conducted from 20th August 2024 till 20th September 2024, the EDP has provided participants with critical insights on topics like HR compliances, funding opportunities, sales strategies, and legal frameworks. This structured training has enabled aspiring entrepreneurs to refine their business models and align their startups with market needs. Participants were motivated to take their ideas forward and register as incubatees under ARISE, thanks to the visionary leader Dr. K Rajkumar, Director, IRMRI, who has been a driving force behind this initiative.

Moreover, ARISE has succeeded in fostering a vibrant entrepreneurial spirit among its participants by regularly inviting experts from sectors such as MSME Mumbai, legal professionals, founders, and chartered accountants to offer personalized guidance and share their experiences. This multi-disciplinary engagement ensures that startups at ARISE are not only technically sound but also business-savvy, ready to scale up their innovations.

ARISE - Future Outlook

ARISE is poised to play a significant role in shaping the future of the Indian rubber industry. With a commitment to fostering innovation and sustainable business practices, ARISE incubation centre is expected to expand its reach by onboarding more startups and diversifying into other sectors allied to rubber.

As the world shifts towards greener technologies, ARISE is well-positioned to lead the way in promoting sustainable and eco-friendly rubber solutions. With its robust infrastructure, expert mentorship, and industry collaborations, ARISE is a beacon of hope for entrepreneurs looking to make a mark in the competitive world for the industries of rubber and allied materials.

In summary, ARISE represents more than just an incubation centre—it's a platform for empowerment, providing entrepreneurs with the tools, resources, and network they need to succeed. Through its visionary leadership and robust support ecosystem, ARISE is truly nurturing the next generation of innovators and business leaders in the rubber industry.

For Details, Please Connect with
V.Karthikeyan, Business Development Manager, IRMRI
Email: veerappan.karthikeyan@irmra.org
9361324212, 7045086164.

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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Madras Institute of Technology
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TechnoBiz

China Rubber

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CHINA UNITED RUBBER CORPORATION

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Qingdao Zhongyiweiye Machinery Manufacture Co., Ltd. was established in 1997 and is a professional equipment manufacturing enterprise that integrates research and development, manufacturing, and sales services.It has obtained multiple product patents and technical certificates, and has passed ISO9001 quality management system and ISO14001 environmental management system certifications in management. It has been awarded the title of "Qingdao Specialized, Refined, and New Technology" enterprise.

Yarn braiding machine

Wire braiding machine

Website: www.zhongyiweiye.cn

Phone	E-mail	Address
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Contact Us

ADD: Jiujiang, Jiangxi Province, China

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URL:www.dowellacm.com

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4)Rubber profile (co-extrusion) microwave curing
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6)Butyl rubber production line;
7)Rubber preformer
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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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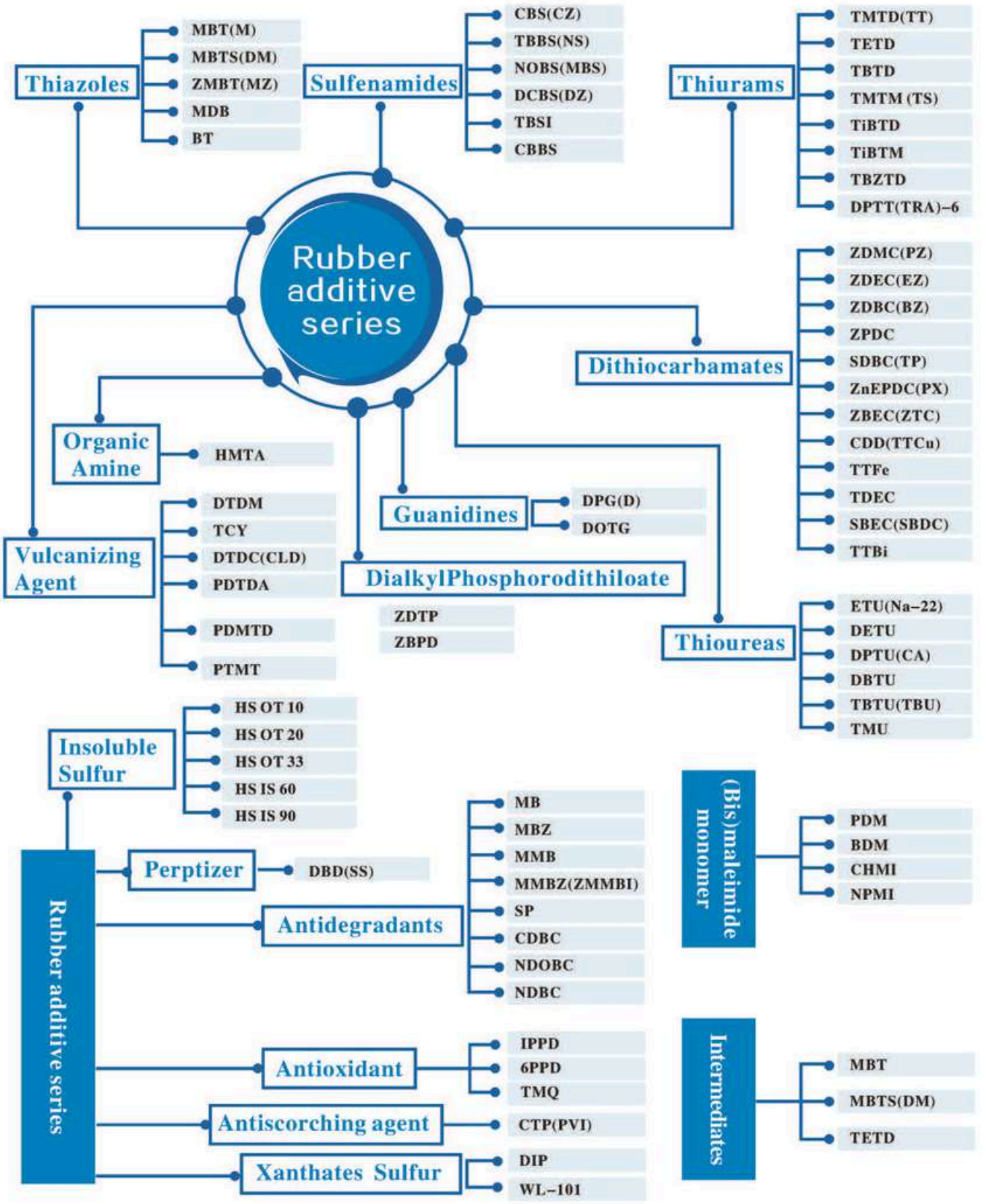

Address: Chemical Industry-Intensive Area, Puyang, Henan, China
MOB：+86 158 3936 2818
Email: walter@willingchem.com
Url: www.willingchem.com

QINGDAO XIANG RUN HAO IMPORT AND EXPORT CO.,LTD

XIANG RUN HAO

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.

Three years ago, we have manufactured a ultra large fully automatic plate vulcanizing press (2400T, 1600*3600) with a mould in and out for our loyal foreign customers in Chile, which is used to produce mining rubber machinery sapre parts.

We dispatch our technicians were on site to supervise installation and train their worker. The machine are received good remarks from our Chilean customers.

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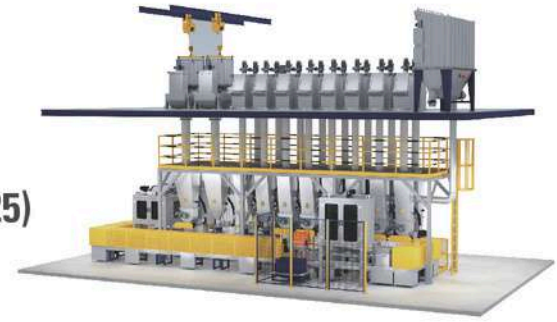

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A Supplement of RUBBER Review

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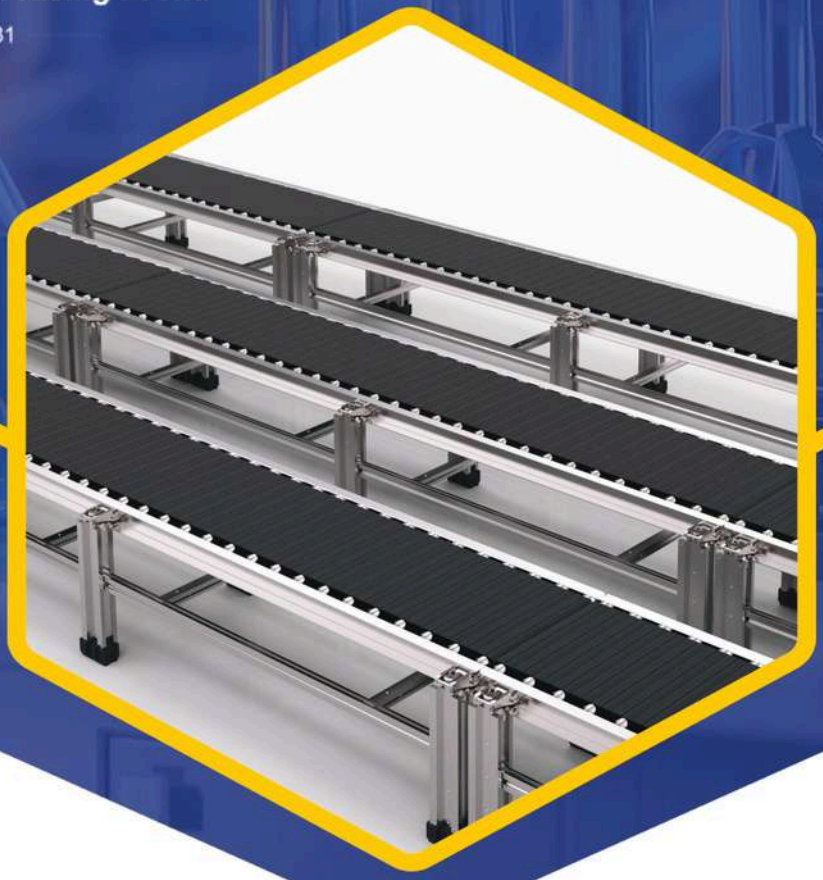

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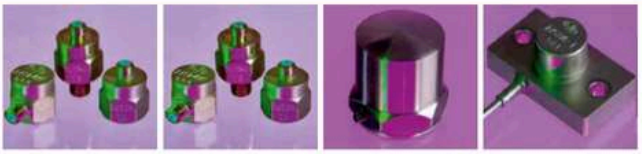

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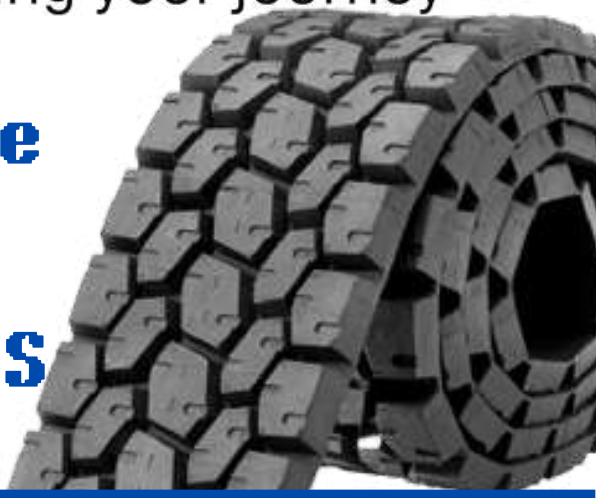

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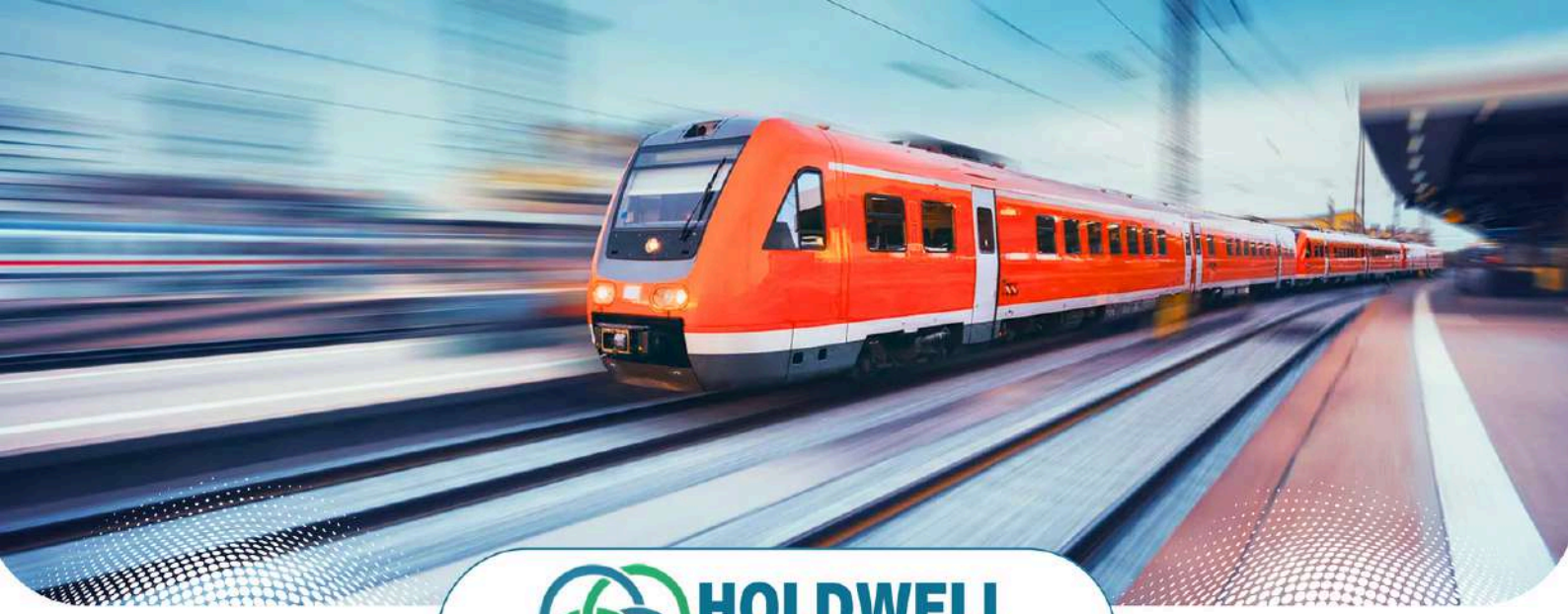

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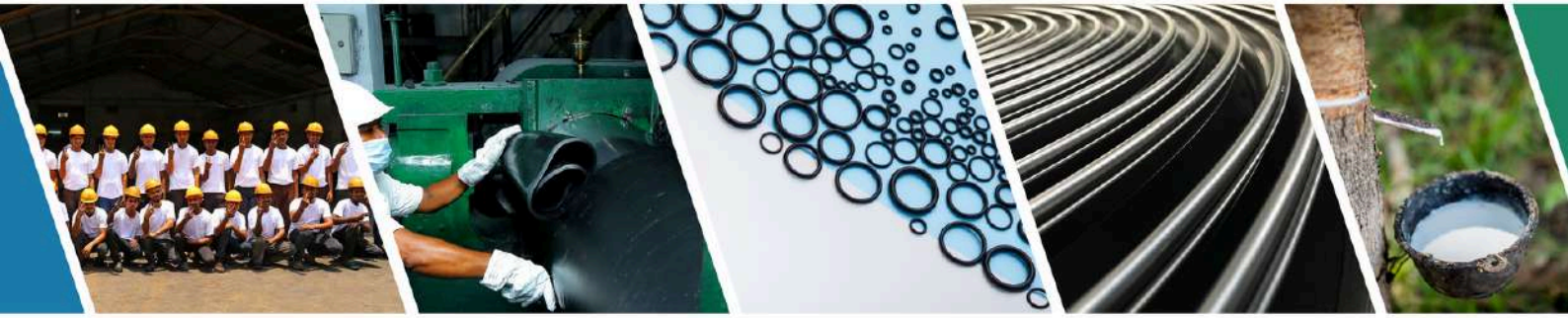

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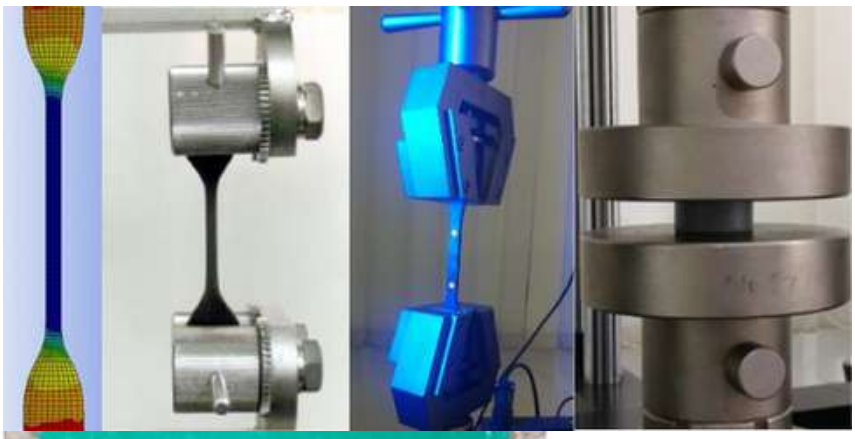

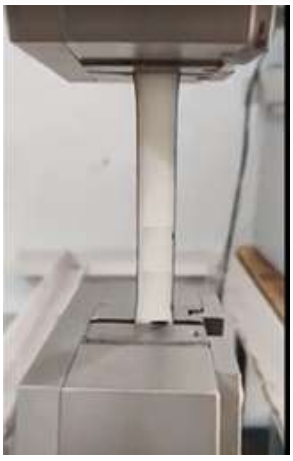

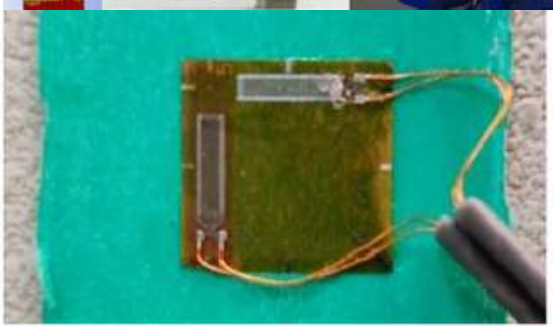

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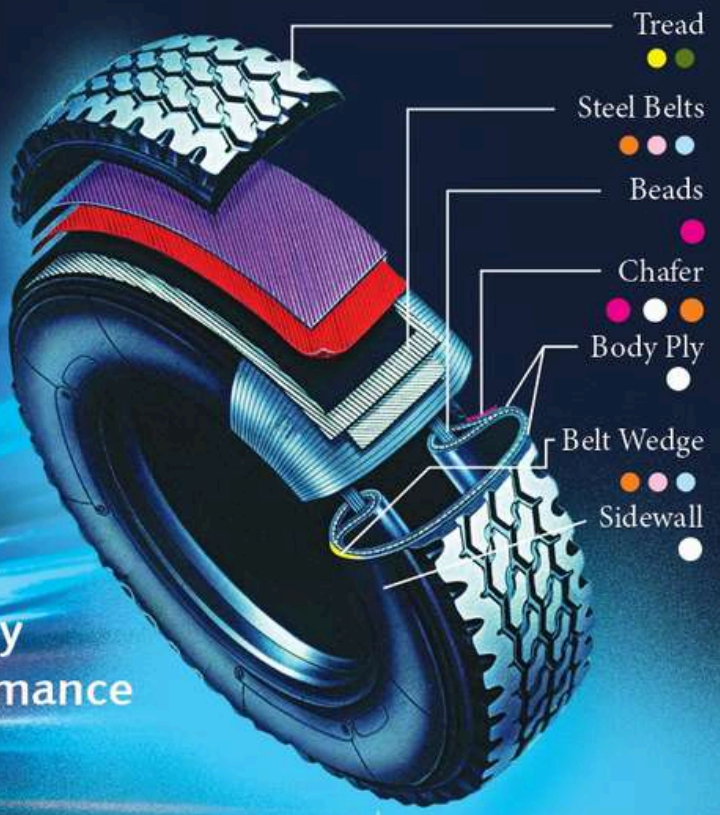

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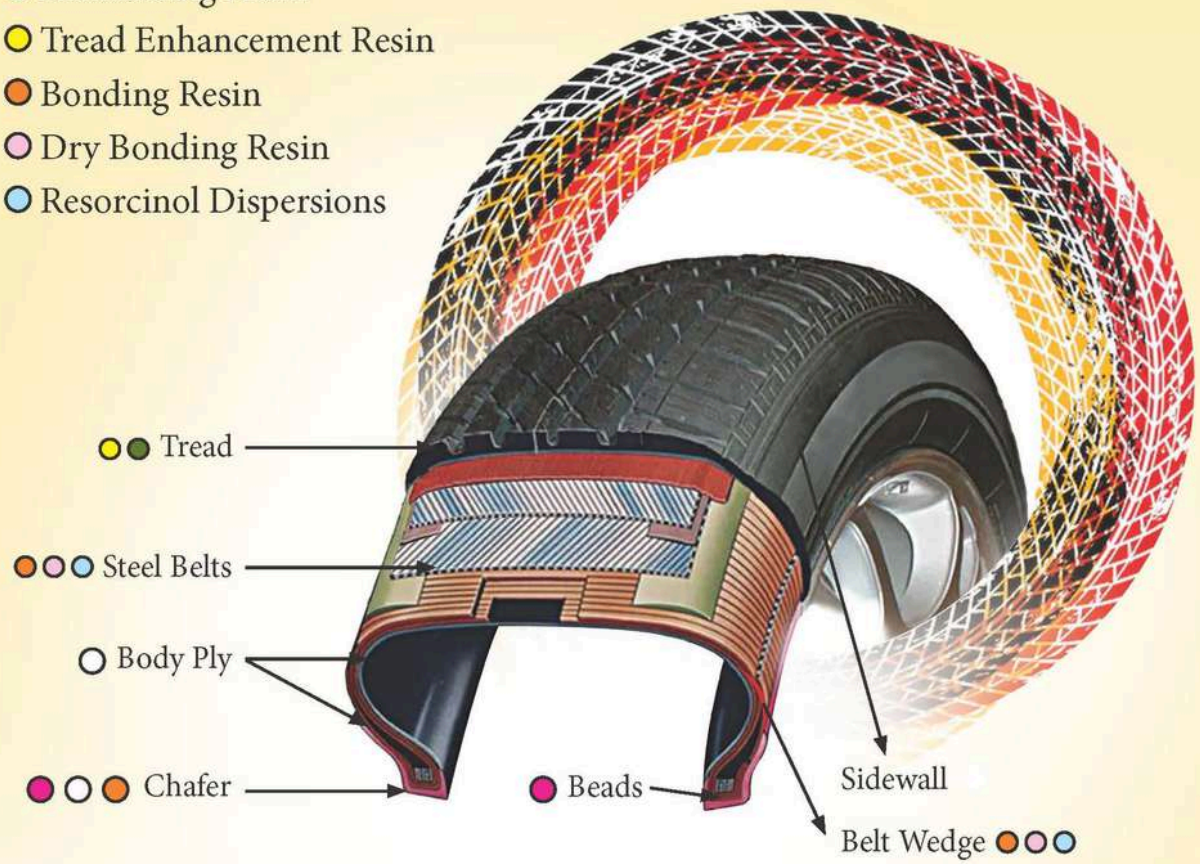

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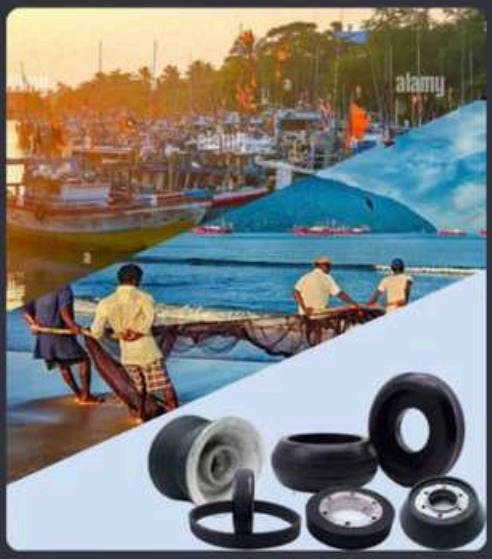

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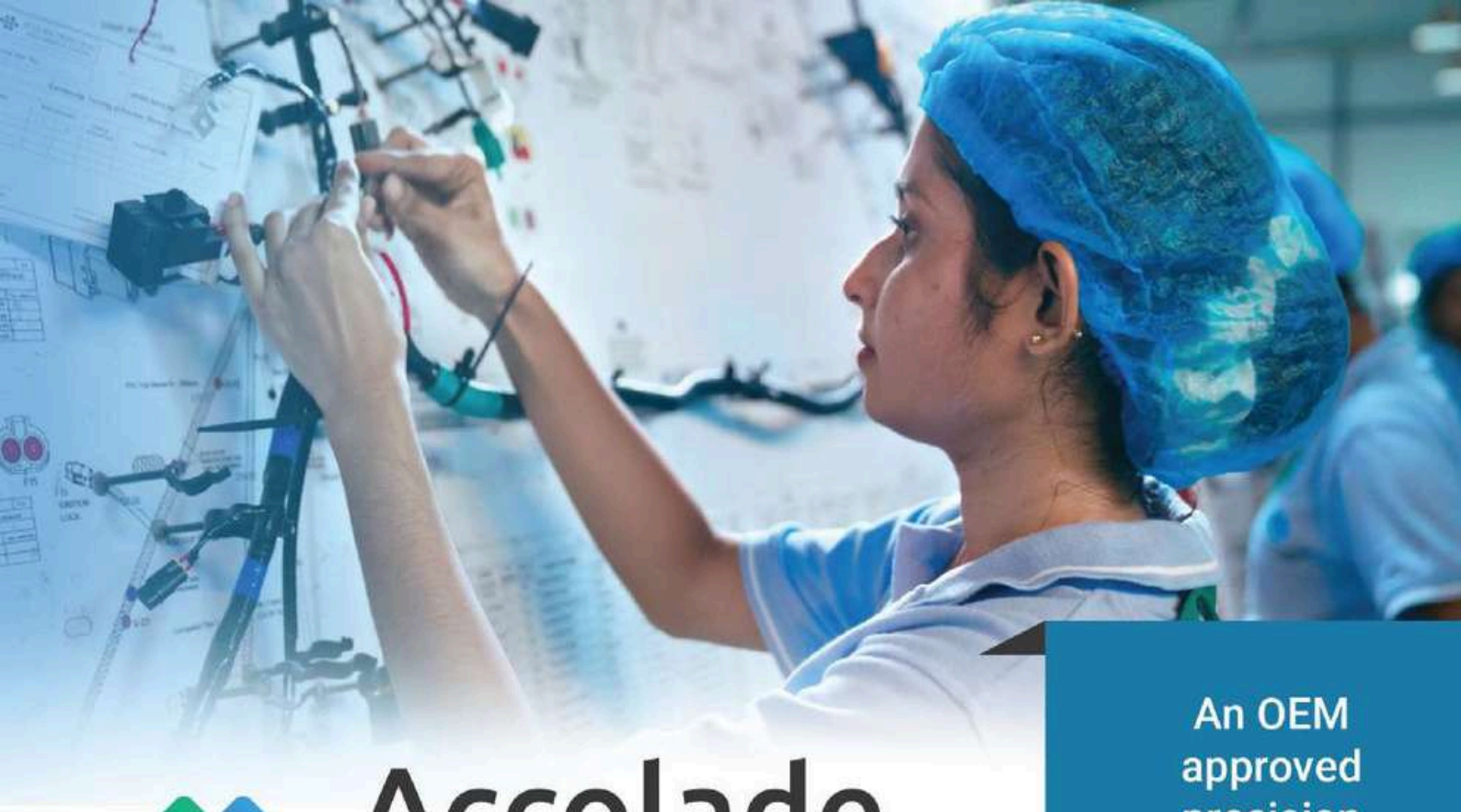

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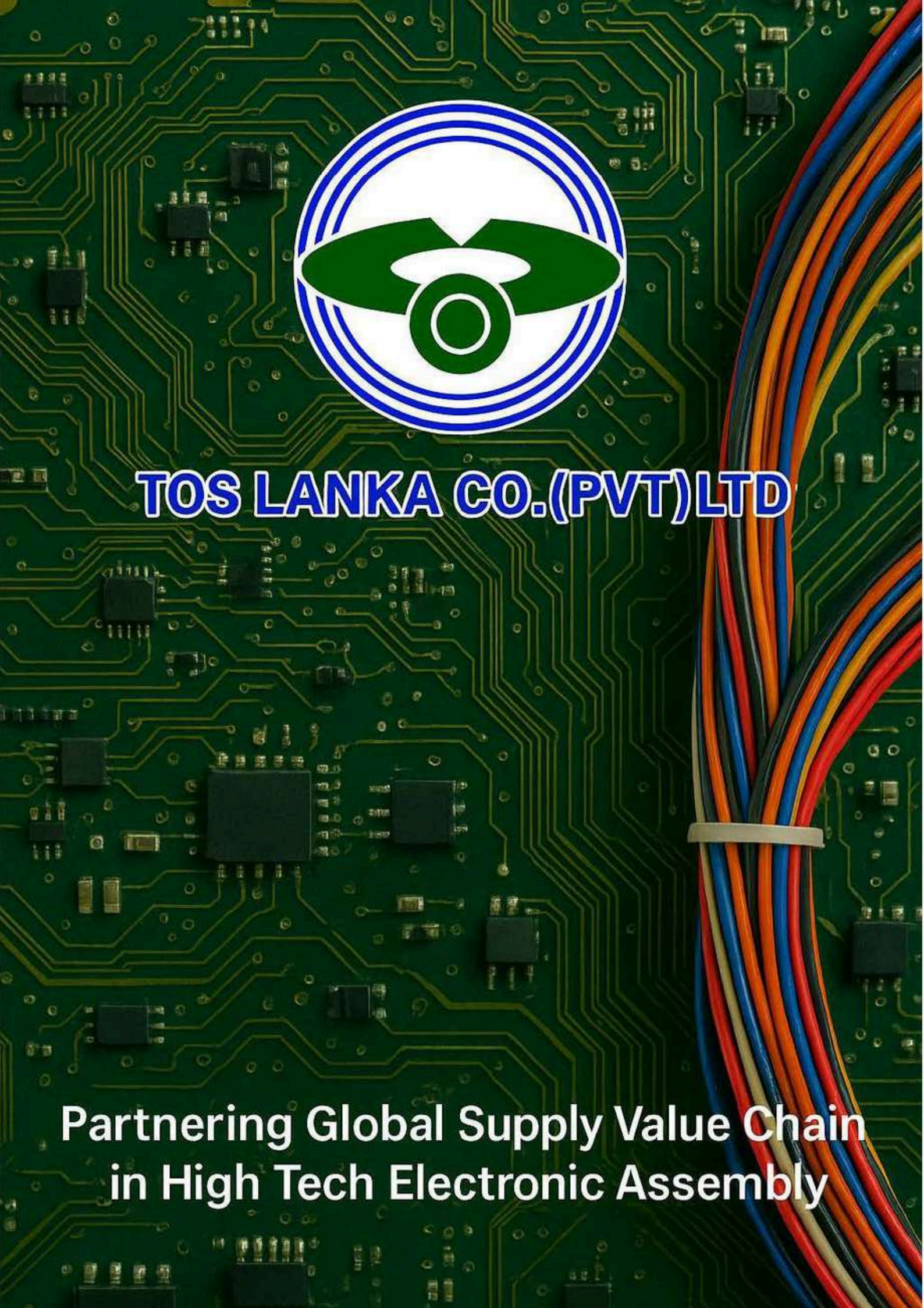
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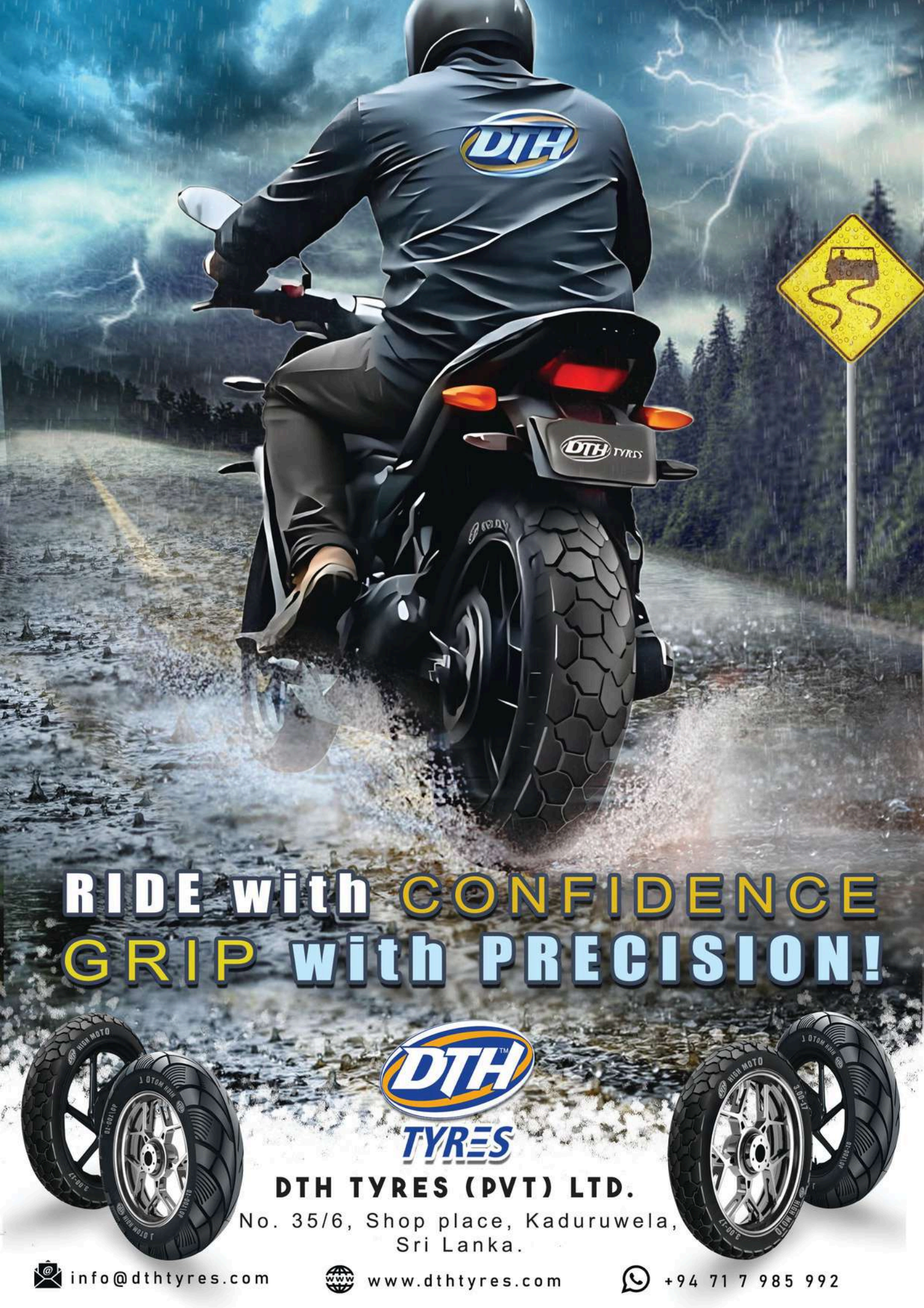
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Specialty Silicone Products strengthens EMI shielding portfolio with new extruded rubber profiles

Specialty Silicone Products (SSP) has expanded its lineup of extruded rubber profiles designed for electromagnetic interference (EMI) applications, including bonded O-rings, D-rings, and frame gaskets. The company's latest offerings support both standard and custom profile shapes, as well as multiple elastomer bases. These extrusions are available in silicone and fluorosilicone, filled with electrically conductive particles for robust EMI shielding. Many of these materials are certified to the MIL-DTL-83528 specification and listed on the Defense Logistics Agency's Qualified Products List.

SSP produces extrusions in a variety of geometries, including solid round cord, hollow round cord, hollow D-shapes, and U-channels. Their material selection includes silver-copper, silver-aluminum, and nickel-graphite fillers, each offering different balances of conductivity, volume resistivity, and cost. Silver-based materials offer very low resistivity, while nickel-graphite is more cost-effective. For applications requiring chemical or fuel resistance, SSP provides fluorosilicone-based extrusions filled with conductive particles, helping meet stringent environmental sealing and shielding demands. SSP can also bond cut lengths of the extruded profiles into closed-loop shapes like O-rings and D-rings, with the adhesive made from the same conductive elastomer to ensure electrical continuity and minimize EMI leakage at joints.

Beyond standard rings, the company manufactures frame gaskets using custom profiles, including solid D, hollow D, mushroom, and other geometries based on customer needs. These frames are particularly useful in electronic enclosures where EMI containment is critical. SSP's in-house toolroom supports this flexibility, enabling rapid die development for custom shapes and shorter lead times.

SSP's extruded materials provide traceability and certification for customers in defense and aerospace, with many on the MIL-DTL-83528 QPL. The company offers lower minimum order quantities and faster turnaround than some competitors, along with material options that allow customers to optimize performance versus cost. Fluorosilicone extrusions provide resilience against fuels and solvents, a major advantage for aerospace, automotive, or military systems.

The expansion of SSP's extruded EMI profiles comes amid broader growth of its EMI shielding elastomer business, which now includes a wide range of elastomers tailored for both military-grade and commercial applications. This development reinforces SSP's strategy of being a full-service partner, from base material formulation to extrusion, bonding, and fabrication of finished EMI gaskets. For engineers and procurement teams balancing performance, compliance, and cost in EMI shielding, SSP's new extruded rubber profiles offer certified materials, flexible manufacturing, and optimized production to meet both stringent defense requirements and cost-sensitive commercial needs.

Smithers Invests in Advanced Rolling Resistance Testing Capabilities in Suzhou

Smithers, a leading provider of testing, consulting, information, and compliance services, announces the addition of three specialized rolling resistance testing capabilities at its tire and wheel test center in Suzhou, China. These new capabilities offer more comprehensive insight into vehicle operating scenarios by recreating a wider range of real-world situations in a laboratory environment.

The new testing capabilities include:

- **Rolling resistance testing with slip/camber angle for passenger car (PCR) and light truck (LT) tires** : Traditional rolling resistance testing is conducted at 0° slip and camber angles. However, factors such as wheel alignment, steering operations, and changes in vehicle body attitude can cause small changes to slip and camber angles during real-world driving conditions. This new capability simulates a wider range of slip and camber angle scenarios and gives automotive OEMs deeper insight into vehicle energy loss due to wheel alignment parameters. Additionally, tire manufacturers can evaluate the impact of angle parameters on rolling resistance and leverage that data to optimize tire structure and tread design.

- **High- and low-temperature rolling resistance testing for truck and bus radial (TBR) tires**: Changes in rolling resistance are among the key factors affecting vehicle range in winter. Regulatory standards for rolling resistance are based on a narrow temperature range. In response to client feedback, Smithers invested in high- and low-temperature rolling resistance testing capabilities for PCR and LT tires in 2022 and has now added the ability to test a wider range of tires.

- **Rolling resistance testing with chassis components for PCR and LT tires**: The resistance of chassis components, such as half-shafts, and brake discs, can significantly affect vehicle range long term. However, there is a shortage of specialized indoor testing capabilities to independently measure such resistance. Thanks to a proprietary new design, Smithers can simultaneously mount chassis components during rolling resistance testing and obtain data on both tire-only resistance and the total resistance of tire and chassis components. The data is then used to calculate the resistance of chassis components, which OEMs can use to optimize vehicle energy loss.

All three capabilities are expected to be fully operational by December 1, 2025.

"*Smithers is seeing increased demand on a global scale for testing of tires and vehicles that more closely mimics real-world conditions," said Derek Read, Vice President of Asia Pacific / Global Development, Materials Science and Engineering, Smithers. "These new capabilities are strategic investments into the refined, scenario-based testing our clients require to improve both tire and tire-chassis-vehicle system performance*."

About Smithers: Founded in 1925 and headquartered in Akron, Ohio, Smithers is a multinational provider of testing, consulting, information, and compliance services. With laboratories and operations in North America, Europe, and Asia, Smithers supports customers in the transportation, life science, packaging, materials, components, consumer, cannabis, dry commodities, and energy industries. Smithers delivers accurate data, on time, with high touch, by integrating science, technology, and business expertise, so customers can innovate with confidence.

Keeping Things Moving: Continental Optimizes Tire Production with Autonomous Robots

- ***At Continental's ContiLifeCycle plant in Hanover-Stöcken, autonomous mobile robots (AMRs) have been handling in-plant transport of tires since March 2025***
- ***"Transport robots are a valuable addition to our daily operations and help create a safe, efficient and ergonomically optimized production environment," said Felix Hantelmann, head of the ContiLifeCycle plant***
- ***Intelligent automation supports the transition to Industry 4.0; robotic solutions are in use at Continental tire plants worldwide***

At Continental's ContiLifeCycle (CLC) retreading plant for truck and bus tires in Hanover-Stöcken, seven autonomous mobile robots (AMRs) have been keeping things moving since March 2025. Their job: transporting green tires around the plant, freeing up employees for more skilled tasks such as machine setup and quality control. By successfully integrating smart automation, Continental is making manual production processes more ergonomic while further boosting efficiency in tire manufacturing – a key step toward future-ready Industry 4.0.

"*Self-driving robots have been supporting our production workflow for six months now*," said Felix Hantelmann, head of the ContiLifeCycle plant. "*They handle simple, repetitive transport tasks such as moving a tire from one point to another. The robots are directly connected to our digital order system, so they know exactly where to go and how to coordinate with each other to get there. They are a valuable addition to our daily operations and help create a safe, efficient and ergonomically optimized production environment*."

More time for quality: autonomous robots streamline tire production

The robots navigate independently and safely through the production hall using advanced sensors, 360-degree camera systems and AI-based control technology. At speeds of up to two meters per second – roughly the pace of a brisk walk – they transport tires between stations in the retreading process: from the tire-building machine to the curing presses and on to quality control.

The new hot-retreading workflow is as follows:

- A handling robot transfers the buffed tire carcass to the tire-building machine, where – depending on tire size – it is fitted with up to 18 kilograms of fresh rubber heated to about 100°C for the tread and sidewalls.
- Once the tread and sidewall have been applied, the handling robot places the tire on a transport trolley. An autonomous mobile robot, connected to the digital order system, then moves the trolley either to the curing press or to an intermediate storage area, depending on capacity.
- In the curing press, the roughly 75-kilogram tire is vulcanized at 160°C, giving it its final shape and tread pattern. It is then transferred via a conveyor belt to quality control.

The advantages of mobile transport robots are clear: "Our employees no longer have to move tires across the hall, which means less physical strain for them. Instead, they can focus on more demanding tasks like machine operation and quality control," says Hantelmann. Before the robots were introduced, employees transported tires manually using cranes and trolleys that weighed up to 250 kilograms when loaded with two tires. This required multiple manual steps and trips between stations.

An autonomous mobile robot, directly connected to Continental's digital order system, transports a tire to the curing press using a trolley.

The use of AMRs gives employees at the CLC plant more time for demanding tasks, such as operating machinery within the vulcanization station.

Technology with team spirit: employees helping to drive change

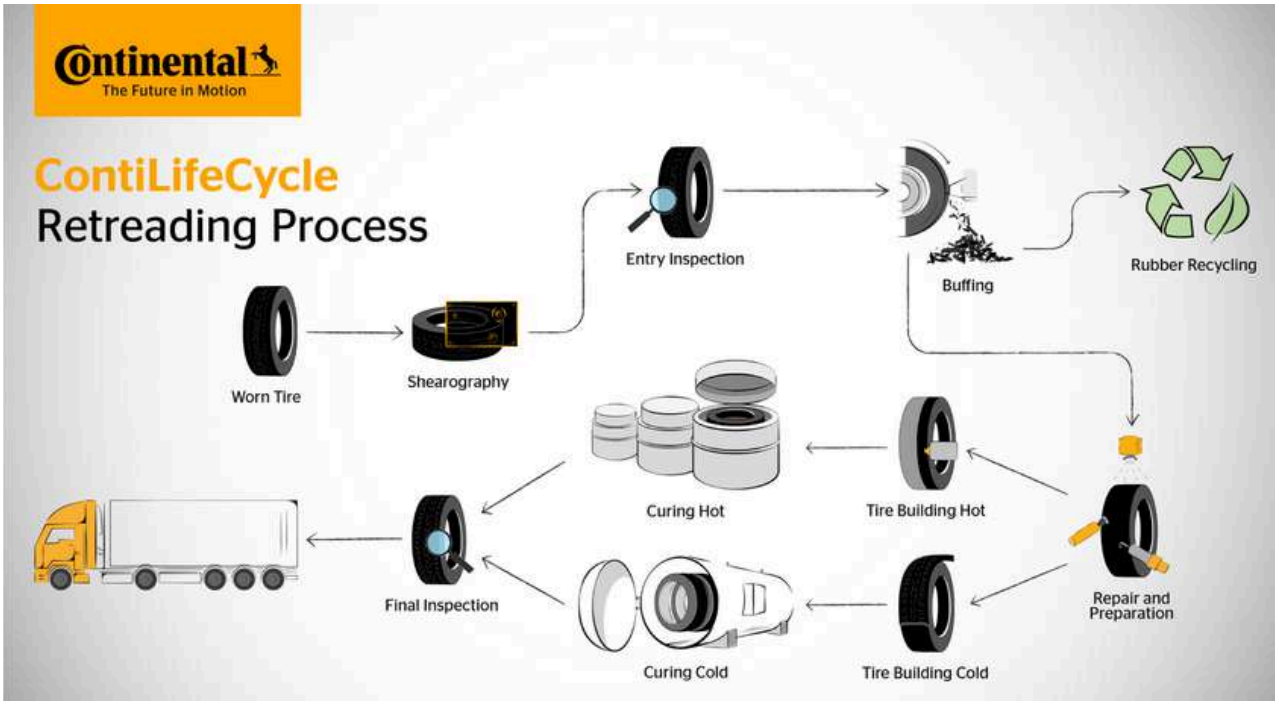
Continental supported the rollout with a comprehensive training program, which helped to boost acceptance among the workforce. Employees were even involved in choosing the robots' names like Cargo Knight, Rubber Ranger and LifeCycle Commander. Six months later, the robots are an integral part of the team.

The use of autonomous mobile robots is a prime example of how Continental is leveraging digitalization and automation to make tire production more efficient and sustainable. And the success speaks for itself: similar solutions have been introduced at other Continental tire plants worldwide. These include locations such as Mount Vernon and Clinton in North America, Púchov and Otrokovice in Europe, and Hefei and Rayong in Asia.

The team's strong acceptance of the technology is reflected in the creative names they chose for the robots, including Iron Tread, LifeCycle Commander and Captain Cargo.

More than one million retreaded tires from the ContiLifeCycle plant in Hanover

The CLC plant has been retreading worn truck and bus tires since 2013. The used tires are first thoroughly inspected and stripped of their old tread. They then receive a new tread, are vulcanized to give them a new profile and finally undergo quality and safety checks. This process allows up to 70 percent of the original tire to be reused. The result is a product that matches a new tire in terms of safety and performance – while using significantly fewer resources. Since the plant in Hanover opened, Continental has retreaded more than one million tires there. Including other retreading plants worldwide, the company has produced around eight million retreaded truck and bus tires.



Continental has retreaded more than one million tires since the plant in Hanover was opened. This is how the end-to-end retreading process for truck and bus tires works.

New LSR systems for textile coatings and sealing

WEVO-CHEMIE GmbH introduces WEVOSIL 23010 and WEVOSIL 23030, two new liquid silicone rubbers (LSRs) specially developed for silicone textile coatings and sealing applications (CIPG/FIPG). Both systems combine excellent processability with high elasticity, temperature resistance and adhesion. They open up new possibilities for precise and automated manufacturing processes using dispensing on textiles, plastics and metals.

Designed for use under a wide range of environmental conditions, these two new liquid silicone rubbers from Wevo offer a temperature range from –60 to +200 °C and also demonstrate excellent behaviour in thermal shock tests. The mechanical properties optimised for these applications further contribute to the materials' high durability.
WEVOSIL 23010: self-adhesive, extra-soft LSR for textiles

WEVOSIL 23010 – a very soft LSR silicone (Shore A 10) – combines high elasticity with robustness, offering an elongation at break of over 900 per cent and a tensile strength of 5.5 N/mm². It also provides good initial adhesion on textiles or polymer surfaces without the need for primers.

The material is suitable, for example, as a silicone textile coating to reinforce technical textiles. It can also be used for permanently bonding textile layers and embedded electronics. These properties enable the manufacturing of smart textiles, such as protective clothing for firefighters or military applications as well as sportswear with extended functionalities.

WEVOSIL 23030: classic LSR for fuel cells and electronics
With WEVOSIL 23030, Wevo is expanding its portfolio to include a classic LSR silicone (Shore A 30) offering slightly higher strength and excellent mechanical properties, including an elongation at break of over 500 per cent and a tensile strength of 5.0 N/mm². After post-curing, the material exhibits good adhesion to substrates such as metals and plastics, making it particularly suitable for applications with demanding requirements in terms of long-term stability and temperature resistance.

Dispensing opens up numerous fields of application. A key focus is sealing as Cured- or Formed-in-Place Gaskets (CIPG or FIPG) in stacks and bipolar plates for fuel cells and electrolysers, as well as the attachment of electronic components to clothing for extended functionalities.

Efficient processing via dispensing
Their uniform cross-linking without abrasive fillers means both of these liquid silicones can be precisely and reliably applied in fully or partially automated production processes. In addition, processing parameters such as flow behaviour, pot life and curing speed can be accurately adapted to suit individual customer requirements on request. This enables seamless integration into existing production lines or the use of alternative application methods alongside dispensing.

The new LSR materials from Wevo thus provide flexible solutions for precise sealing and functional coatings across a wide range of industries.

By direct application onto bipolar plates, Wevo's LSR systems ensure reliable sealing of fuel cell stacks.

Key insights on WEVOSIL LSR Systems:

- Wevo introduces two new liquid silicone rubbers (LSRs).
- Material properties: high elasticity, temperature resistance (–60 to +200 °C), reliable adhesion, excellent processability.
- Applications: textile coatings (e.g. smart textiles) and CIPG/FIPG gaskets (e.g. for hydrogen fuel cells).

Hankook Tire Signs MOU with ROTOBOOST to Jointly Develop Turquoise Hydrogen-Based Carbon Materials

Global leading tire company Hankook Tire & Technology (hereafter Hankook Tire) signed a Memorandum of Understanding (MOU) in Shanghai, China, with ROTOBOOST, a Finnish innovative company specializing in thermocatalytic decomposition of methane gas on November 20 to jointly develop a low-carbon footprint carbon material for tire applications, aligning with global net-zero emissions and circular economy sustainability goals.

Hankook Tire entered into this agreement with ROTOBOOST to collaboratively develop technologies aimed at reducing CO2 emissions during the raw material acquisition phase, supporting its long-term management strategy to achieve "2050 Net-Zero (greenhouse gas neutrality)." The signing ceremony was attended by Hyuncheol Kim, COO of Hankook Tire China, and ROTOBOOST CEO Kaisa Nikulainen, who reaffirmed their commitment to strengthening sustainable materials value chain.

One of the core materials used in tires, carbon black is a fossil-based feedstock raw material with high carbon dioxide emissions. To reduce CO2 emissions generated during tire manufacturing processes, Hankook Tire has been actively conducting research on the development of sustainable carbon black materials, including recycled carbon black and certified carbon black.

In particular, the “turquoise hydrogen carbon materials” to be jointly developed through this MOU is a carbon material manufactured during the process of producing hydrogen by decomposing methane gas in a high-temperature reactor. As a circular material that generates lower CO2 emissions, it has recently gained attention, especially within the automotive and tire industries, which require lower CO2 emissions.

Through this collaboration, Hankook Tire will pursue joint objectives that include optimizing the material properties of turquoise hydrogen–based carbon material, validating its performance in tire composite materials, and reducing greenhouse gas emission intensity by more than 50% without compromising product performance. In addition, the company plans to establish a quantitative verification framework based on Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD) to transparently validate carbon-reduction effects across the entire lifecycle—ranging from raw material sourcing to manufacturing.

Hankook Tire is contributing to the establishment of a circular economy within the tire industry by accelerating the development of sustainable raw materials through strategic partnerships with major domestic and global institutions and companies. Prior to this MOU, the company began participating in May as a beneficiary company in the government-funded national research project on “large-scale turquoise hydrogen production technology,” and in January, it initiated a joint development project with Solvay Silica to produce circular silica using industrial waste sand and mine waste.

Last year, through the “Tire-to-Tire Circular Economy Model” consortium, the company successfully achieved its first mass production application of three ISCC PLUS–certified carbon blacks derived from pyrolysis oil made from end-of-life tires. Hankook Tire also commercialized the industry’s first chemically recycled PET tire cord in Korea by jointly developing the EV-dedicated “iON” tire with SK Chemicals and Hyosung Advanced Materials.

Hankook Tire plans to continue enhancing sustainability of the tire industry by reducing its dependence on petroleum resources, preventing the depletion of natural resources, and consistently lowering carbon emissions through strategic partnerships with global companies.

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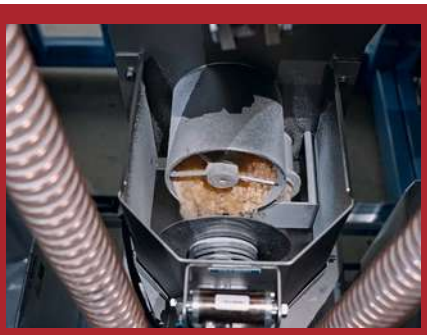

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Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

IRC2025 Secretariat : Polymer Society of Thailand
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- 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

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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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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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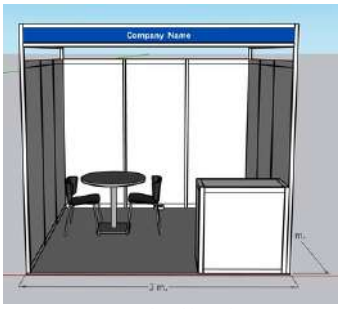

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4 SQM ShellScheme
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Exhibitor Profile

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)

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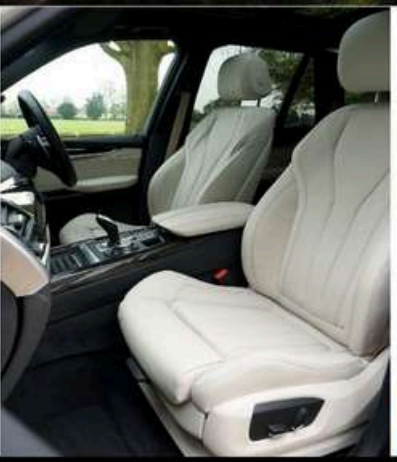

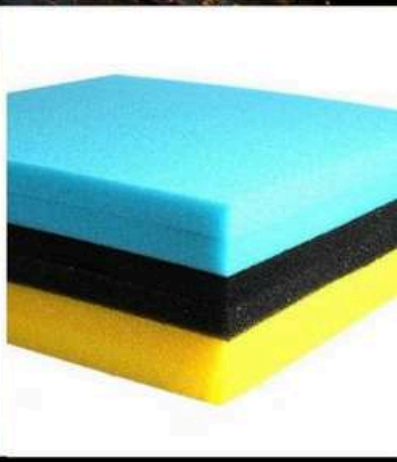

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A TechnoBiz Executive Forum
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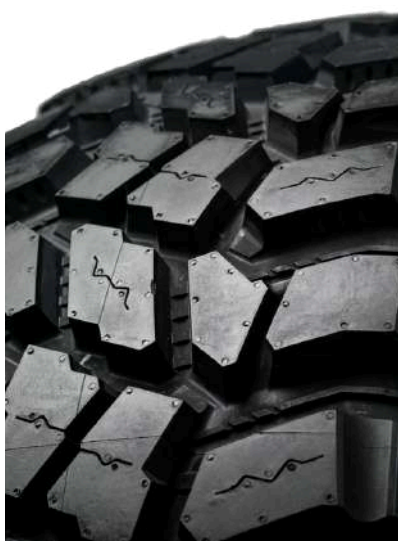
TechnoBiz Tyre Tech WEEK

10-12 FEB 2026

CHENNAI, INDIA | GREEN PARK HOTEL

Edition - 2 | Hybrid Event

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About the Event

The tyre industry is undergoing rapid transformation driven by electric mobility, rising sustainability expectations, advanced materials, and digital manufacturing technologies. Tyre Tech Week 2026 provides a dedicated platform for professionals across the entire tyre value chain—spanning materials, design, testing, manufacturing, and recycling—to share knowledge, discover innovations, and explore emerging opportunities. This Executive Forum brings together leading experts, technologists, researchers, and business leaders for technical presentations, leadership insights, and focused educational sessions designed for both technical and non-technical participants. A Table-Top Expo on Tyre Technology will run alongside the forum, showcasing the latest materials, machinery, testing systems, and service solutions from top suppliers and technology providers.

Event Focus

- Advances in tyre materials, compounding, and green polymers
- Tyre moulds, design, and tread pattern development
- EV tyre design, rolling resistance, and wear optimization
- Tyre machinery, automation, and process innovation
- Manufacturing control, process optimization, and quality assurance
- Process troubleshooting and quality control in tyre production
- Tyre testing, simulation, and performance analytics
- Leadership talks on innovation, sustainability, and business transformation
- Tyre failure analysis and performance improvement
- Circular economy and sustainable tyre manufacturing
- Recycling, pyrolysis, and end-of-life tyre management
- Retreading technologies and market outlook
- Solid tyre technologies and industrial applications
- Specialty tyre markets – OTR, agricultural, PCR, and 2/3-wheelers
- AI, digitalization, and Industry 4.0 in tyre production
- Supply chain resilience and policy challenges in Asia
- Asian tyre markets, investment trends, and future opportunities

Call for Speakers / Papers

TechnoBiz invites tyre industry professionals, researchers, and business leaders to share their expertise at Tyre Tech Week 2026. Presentation proposals on technical innovations, manufacturing advancements, sustainability practices, leadership insights, and market trends are welcome. Please send your presentation title, short abstract (150 words), and brief biography (100 words) to *peram.technobiz@gmail.com* by 25 November 2025. Selected speakers will receive complimentary registration, while travel and accommodation arrangements will be the responsibility of the speakers.

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Key Components of Tyre Tech Week 2026

- Technical Presentations on materials, design, EV tyres, manufacturing, and sustainability.
- Leadership Sessions offering strategic insights and industry perspectives.
- Educational Sessions or both technical and non-technical participants.
- Panel Discussions/ Round Table on EV tyres, sustainability, and Indian regulations.
- Tyre Manufacturing Clinic for practical troubleshooting and Q&A.
- Research Poster Fair showcasing new tyre science and innovations.
- Table-Top Expo featuring advanced materials, machinery, and testing systems.
- Networking Opportunities with industry leaders and solution providers.

Why You Should Attend Tyre Tech Week 2026

- Stay updated on the latest tyre technologies, EV trends, and sustainability innovations.
- Learn from global experts sharing high-impact technical and leadership insights.
- Gain knowledge across the full tyre value chain—from materials to manufacturing to recycling.
- Join interactive sessions like panel discussions, the Tyre Clinic, and the Research Poster Fair.
- Network with industry leaders, researchers, suppliers, and decision-makers.

TechnoBiz RoundTable | Panel Discussions:

The panel discussions at Tyre Tech Week 2026 will bring together experts from across the tyre value chain to address key priorities for the Indian tyre industry, focusing on:

- EV Tyres for India: Design, Materials & Performance Challenges
- Sustainable Materials, Circularity & Tyre Recycling: Roadmap for India
- Evolving Indian Tyre Regulations: BIS Standards, Rolling Resistance, Wet Grip & Labelling

These focused sessions foster practical insights, policy dialogue, and collaboration to support the industry's technological advancement, sustainability goals, and global competitiveness.

TechnoBiz Clinic - Tyre Manufacturing

As part of Tyre Tech Week 2026, TechnoBiz will host a special Clinic Session on Tyre Manufacturing, offering an open platform for interactive discussion and problem-solving. Participants can ask questions related to any aspect of tyre manufacturing—from materials and processes to quality control and technology. Expert speakers and industry professionals will engage in practical, experience-based discussions to share insights and workable solutions.

To guide the conversation, the Clinic will focus on three key areas of tyre manufacturing:

1. **Tyre Compounding & Materials** – Mixing practices, raw material selection, dispersion challenges, batch consistency, and rheological behavior.
2. **Component Preparation & Tyre Building** – Extrusion, calendering, bead and ply preparation, splicing, and green tyre building challenges.
3. **Curing, Quality Control & Troubleshooting** – Vulcanization issues, mold performance, defect analysis, uniformity testing, and field-return investigations.

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TechnoBiz reserves the right to make changes to Speaker Lineup due to unavoidable circumstances

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CONFIRMED TOPICS

- **Bangladesh Tyre Industry: Market Trends, Investments, and Future Outlook** | *Md. Miraj Rahman , Director, Rupsha Tyres & Chemicals Ltd, Bangladesh*
- **Covering agents for Silica Reinforcement of NR/SBR** | *Prof. B. Kothandaraman, Emeritus Professor, Department of Rubber & Plastics Technology, Madras Institute of Technology, Anna University, India*
- **Low Rolling Resistance & EV-Optimized Tyres** | *Madan Saini, CEO, NIROM Inc., India*
- **Reverse Engineering of Tyre Compounding Formulations Using Advanced Analytical and Field Evaluation Techniques** | *Sabarinadha Prasad, Managing Director, Revotech Treads Pvt., Ltd., India*
- **Thermal Management of Tyres to Improve Heat Resistance and Prevent Premature Wear** | *C. Jayachandran, Business Development Manager - Asia, Akron Rubber Development Laboratory, Inc (ARDL)*
- **Latest Developments in Green TMQ and 6PPD Replacement for Rubber & Tyre Industries** | *Dr. Mahaveer Singh Chouhan, R&D Manager (RheinChemie), LANXESS India Pvt. Ltd.*
- **Development of Silica–Ceramic Reinforced Liquid Silicone Rubber Composites for Advanced Tyre Applications** | *Prof. Pulla Sammaiah, SR University, India*
- **Recent Advances in Organic Fiber Tyre Reinforcements** |*KS Loganathan, Rubber & Tyre Industry Consultant*
- **Driving Sustainability in Synthetic Rubber: Pathways to a Greener Tyre Industry** | *Marjolein Groeneweg, Global Marketing & Sustainability Director, Synthos Group*
- **Functionalized Emulsion-SBR for Better Silica Dispersion and Tyre Performance** |*Atif Ansari, Research Scholar, Rubber Technology Centre, IIT Kharagpur, India*
- **Exploring Agro-Waste in Tyre Tread: Waste-to-Wealth Approach** |*Dibyendu Dey, Research Scholar, Rubber Technology Centre, IIT Kharagpur, India*
- **Building a Sustainable Tyre Industry: Learnings from FLEXIBILITY - the Innate Trait of a Tyre. Lessons from 50 Years in the Rubber Industry** | *V Srinivasan, Partner, 6T Services*
- **Responsible Tyre and Rubber Industry: Driving Standards for a Sustainable Future** | *Dr. K. Rajkumar, Expert Member, ISO TC 45 Committee; Former Director, IRMRI*
- **Cured Tyre Defects: Causes, Diagnosis, and Control Strategies** | *N Srikrishnan, Tyre Industry Consultant*
- **Graphene in Tyre Engineering: Real-World Lessons from Innerliners, Bladders, and Tread Compounds** | *Dr. Brendan Rodgers, ELL Technologies, USA*
- **Advanced Extrusion Head Design for Multi-Compound Tyre Treads** |*Dr. Gerard Nijman, KraussMaffei Extrusion GmbH, Germany*
- **Process Stability and Variation Control in Tyre Component Extrusion** |*Dr. Gerard Nijman, KraussMaffei Extrusion GmbH, Germany*
- **How data mining can help you solving tyre component extrusion issues** | *Dr. Gerard Nijman,KraussMaffei Extrusion GmbH, Germany*
- **DMA, Life-Prediction, and Time-Temperature Superposition for Tyre Performance Predictor Analysis** |*Toby Samples, President & CTO, Akron Rubber Development Laboratory (ARDL), USA*
- **High-speed, Large-FOV 3D Surface Scanner for Tyre–Road Interaction and Bitumen Mapping** |*Francesco Laus, Director, Laus Engineering Ltd., UK*
- ***Upgrading Reclaimed Carbon from Tyre Pyrolysis for Tyre Rubber Applications*** |*Tanumoy Das, Manager Technical Services, CABOT India Pvt., Ltd.*
- **The Balance between Tire Rolling Resistance and Tire Durability** | *Dr. Brendan Rodgers, ELL Technologies, USA*

TechnoBiz reserves the right to make changes to presentation topics due to unavoidable circumstances

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10-12 FEB 2026

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CONFIRMED TOPICS

- **Engineering EV Tyres for Load, Noise, and Energy Efficiency: Design Innovations and Challenges** | *Dr. Brendan Rodgers, ELL Technologies, USA*
- **Electrical Curing: The Next Frontier in Sustainable Tyre Manufacturing** | *Anil Nair, Director of Business Development, HF GROUP , Germany*
- **Nano ZnO-Based Bead Filler Compounds: Heat Reduction and Performance Prediction via FEA** |*Prof. Abhijit Bandyopadhyay, Department of Polymer Science & Technology, University of Calcutta, India*
- **Innovations in Carbon Black and Nano-Carbons for Tyre Performance Enhancement** | *Dr. Amit Chakrabarti, General Manager (R&D), PCBL Chemical Ltd, India*
- **Material Innovations & Testing Regulations Shaping Next-Generation Tyres** | *Dr. Bharat Kapgate, Deputy Director, Indian Rubber Materials Research Institute (IRMRI)*
- **Balancing Performance and Environmental Impact - Holistic Validation of 6PPD Replacements for Tyres** |*Pravin Kumar, Independent Consultant, Smithers*
- **The Science of Tyre Wear: Chemical and Physical Mechanisms Driving Tread Degradation** | *Nick Molden, Founder & CEO, EMISSIONS ANALYTICS,*
- **Ultra–Low Rolling Resistance Tread Formulation for PCR Tyres: Materials and Design Strategies** | *Yu Xueyong, Material & Compound Consultant, Jining Junhong Rubber Technology Co., Ltd., China*
- **Cost-Effective Tyre Compounding Using Modified Kaolin Technology** | *Yu Xueyong, Material & Compound Consultant, Jining Junhong Rubber Technology Co., Ltd., China*
- **Effect of Thermal and Thermo-Oxidative Aging on Tyre Rubber Compounds** | *Aruna Aravindakshan, Associate Manager - Compound Development, Apollo Tyres Global R&D Centre Asia*
- **AI as critical enabler of added value across the tire lifecycle** | *Arthur Mayer, Zephyr Research Partners LLC, USA*
- **Process Additives – overcoming the stick to slip challenges "Managing polymer interface interaction** | *Colin Clarke, Director Technical Sales, Schill+Seilacher "Struktol" GmbH, Germany*
- **Peptiser Selection & Mixing Strategies for High-Performance Natural Rubber Compounds** | *Colin Clarke, Director Technical Sales, Schill+Seilacher "Struktol" GmbH, Germany*
- ***Recent Advances in Rubber Devulcanization: Technologies, Challenges, and Future Outlook.*** | *Dr. Vaishak Nambiathodi, Mahatma Gandhi University, India*
- **Epoxidized Palm Oil as a Performance Modifier in Green Tyre Tread Compounds for Improved Wear, Skid, and Rolling Resistance** |*Dr. Nur Raihan Mohamed, Universiti Teknologi MARA (Perlis Branch), Malaysia*

More talks will be added

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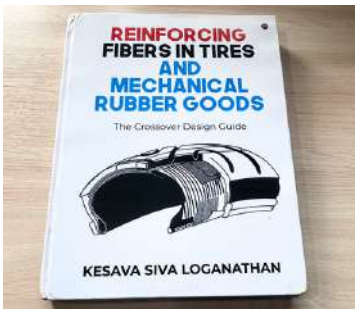
Tyre Research Poster Fair

TechnoBiz is pleased to introduce the "**Tyre Research Poster Fair**" as part of Tyre Tech Week 2026, offering researchers a platform to showcase their latest work in tyre science and technology. Interested researchers are invited to submit proposals including the poster topic and a brief summary by email to Peram Prasada Rao (peram.technobiz@gmail.com) by 20 December 2025. Each researcher may submit up to two proposals based on their recent research. TechnoBiz will handle printing and display arrangements for all confirmed posters. Final posters must be prepared in high-resolution PDF format (size: 95 cm (W) × 120 cm (H)). Researchers who wish to attend the event in person can register with a nominal fee of USD 200 / ₹10,000, which includes lunch, refreshments, and access to all oral presentations.

Free Reference Book

Delegates who register for Tyre Tech Week 2026 before 31 December 2025 will receive a complimentary copy of the book "*Reinforcing Fibers in Tires and Mechanical Rubber Goods – The Crossover Design Guide*" by Kesava Siva Loganathan. This valuable reference offers deep insights into tire reinforcement design and applications. Limited copies available—register early to secure yours!



TechnoBiz Clinic : Tyres Mfg

As part of Tyre Tech Week 2026, TechnoBiz will host a special Clinic Session on Tyre Manufacturing, offering an open platform for interactive discussion and problem-solving. Participants can ask questions related to any aspect of tyre manufacturing — from materials and processes to quality control and technology. Expert speakers and industry professionals will engage in practical, experience-based discussions to share insights and solutions.

TechnoBiz Knowledge Test

All participants of Tyre Tech Week 2026 are invited to join the TechnoBiz Knowledge Test on "***Advanced Tyre Technology***," which will be conducted on the second day of the event. This one-hour test evaluates participants' understanding of tyre materials, design, compounding, and performance technologies. The top scorer will receive a ₹10,000 cash prize and a Certificate of Excellence from TechnoBiz. A great chance to test your knowledge and gain recognition among tyre professionals!

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DELEGATE REGISTRATION

Registration Fee / Person

In-Person Participation

- Indian Delegates: Rs. 30,000
- Overseas Delegates: US$ 700

Online Participation

- Indian Delegates: Rs. 50,000
- Overseas Delegates: US$ 1200

Remarks: GST 18% applies on above fees . Discount is Available for Group and Early-Bird Registrations from the same organization . Delegate Registration Fee subjected to increase one week before schedule

Delegate Registration Form

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Sponsorship Options

Option 1: Corporate Sponsor (Rs. 200,000 | US$ 2500)

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Event Venue

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Contact Person : Peram Prasada Rao, Project Manager
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ASIA POLYURETHANE & ADHESIVE EXPO

30-31 March 2026
Kuala Lumpur
Malaysia

Putra World Trade Centre
10am-6pm

APBA CONFERENCE

30-31 March 2026
Kuala Lumpur, Malaysia
World Trade Centre, 10am-6pm

Sustainable PU Industry FORUM

1 April 2026
Kuala Lumpur, Malaysia
Seri Pacfic Hotel | 9am-5pm

Polyurethane Executive Dinner

30 March 2026
Kuala Lumpur, Malaysia
Seri Pacific Hotel, 7pm-10pm

POLYURETHANE TRAINING

1-2 April 2026
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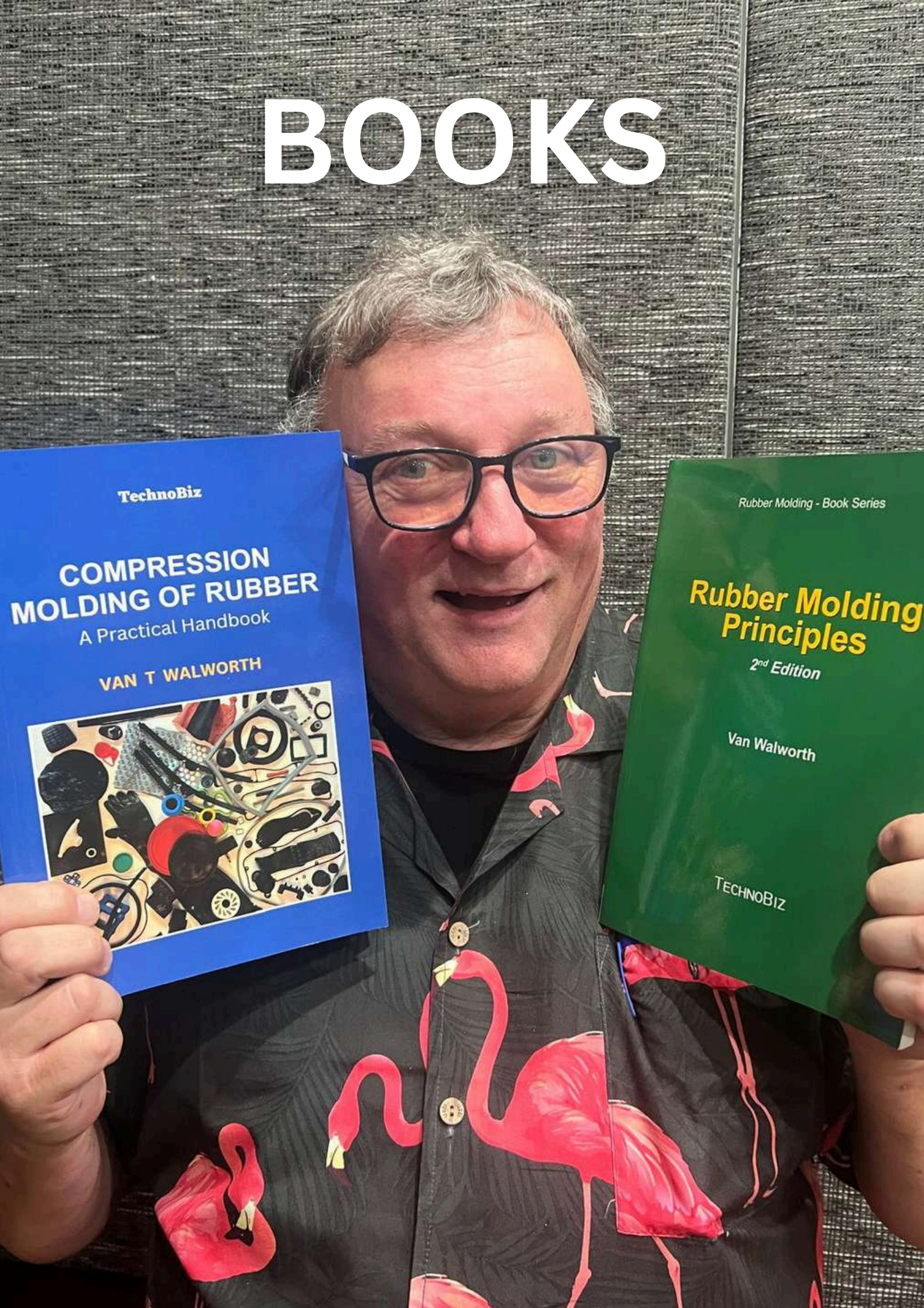
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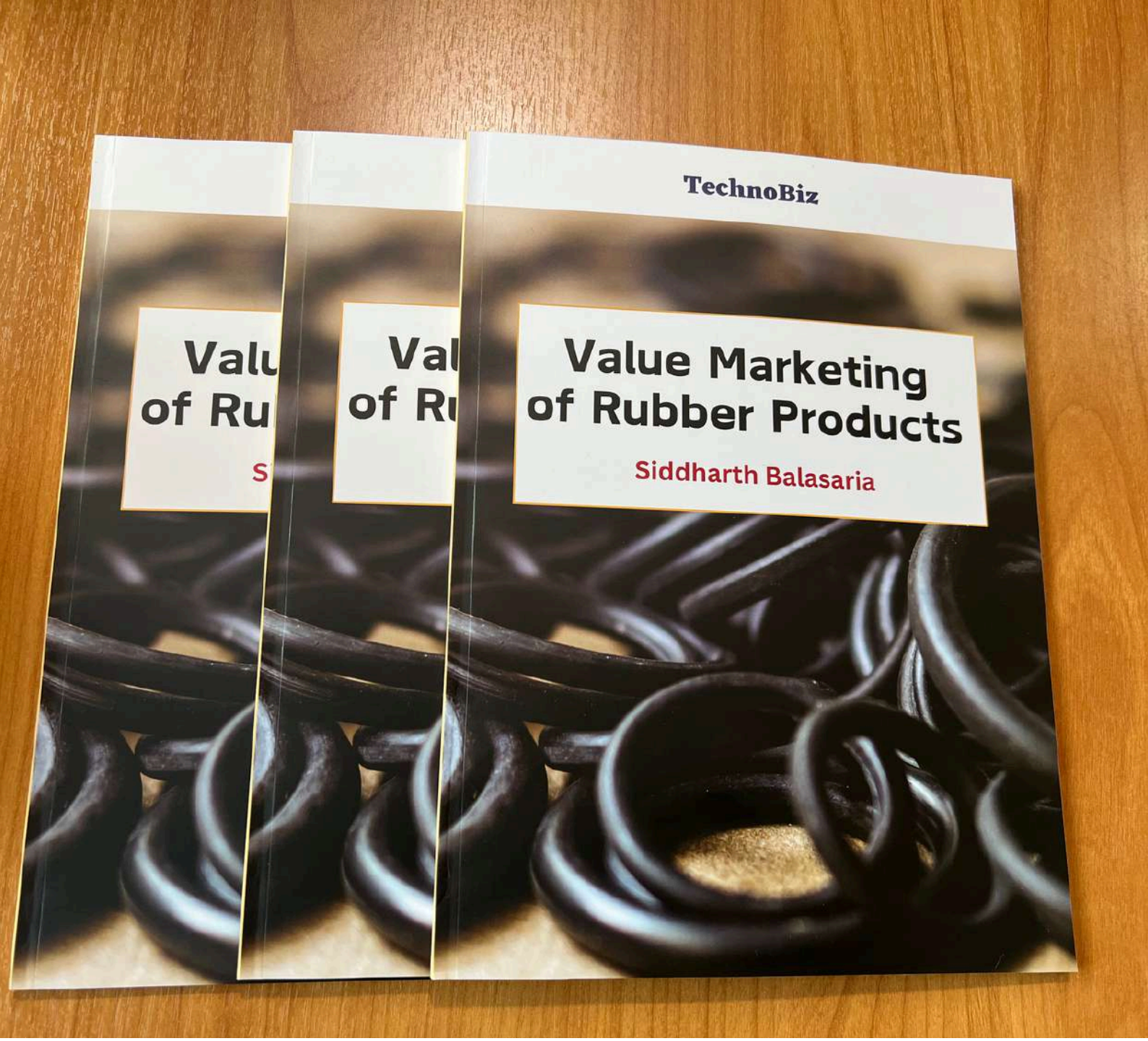

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ISBN : 978-616-92264-44 | **Publisher** : TechnoBiz | Year : 2024
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RubberWorld

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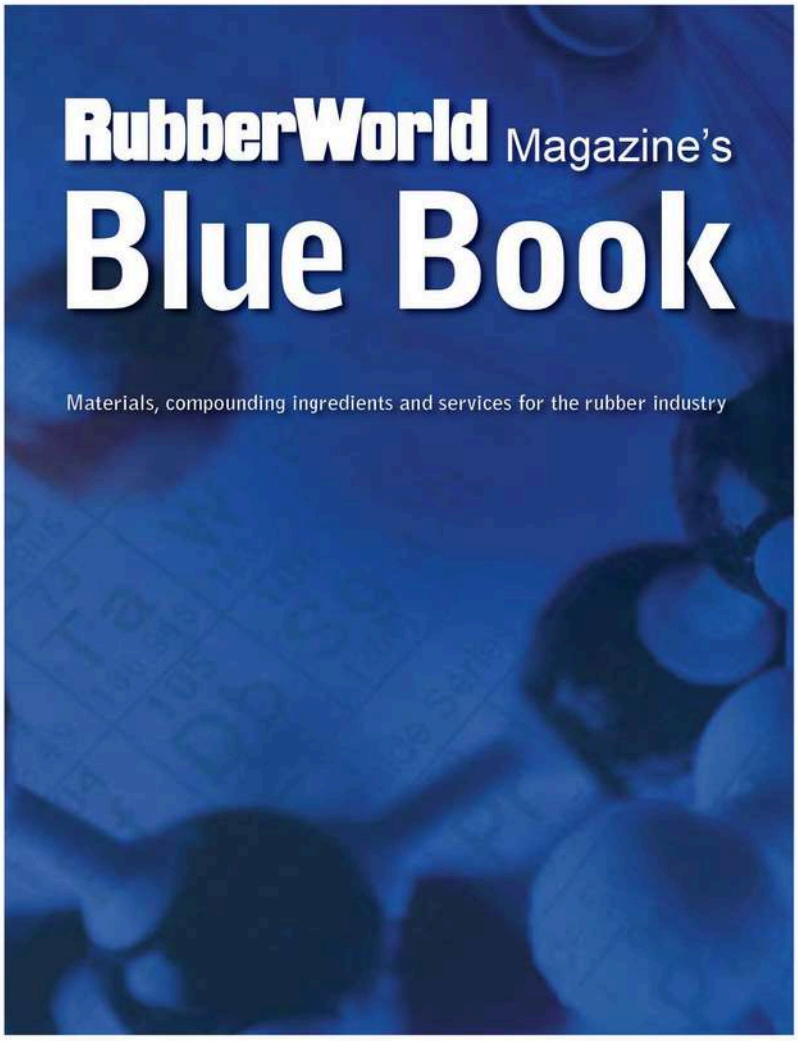

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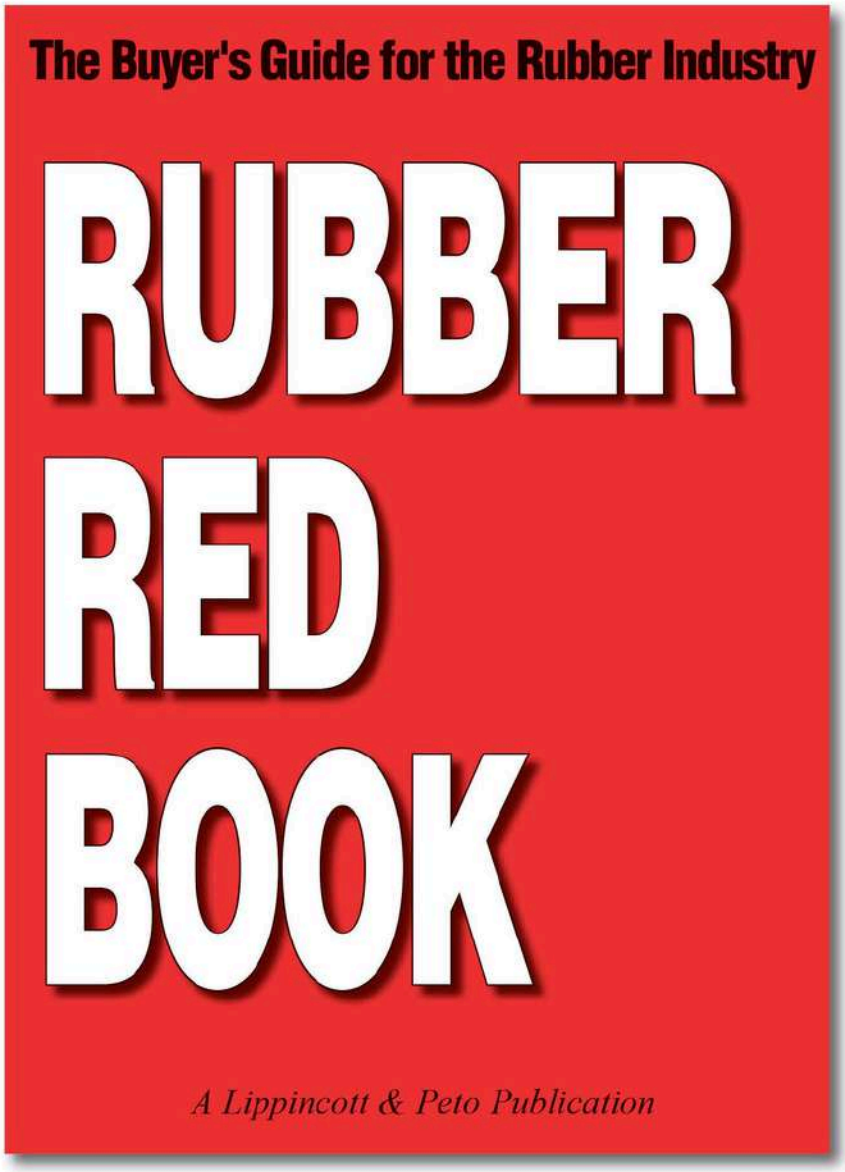

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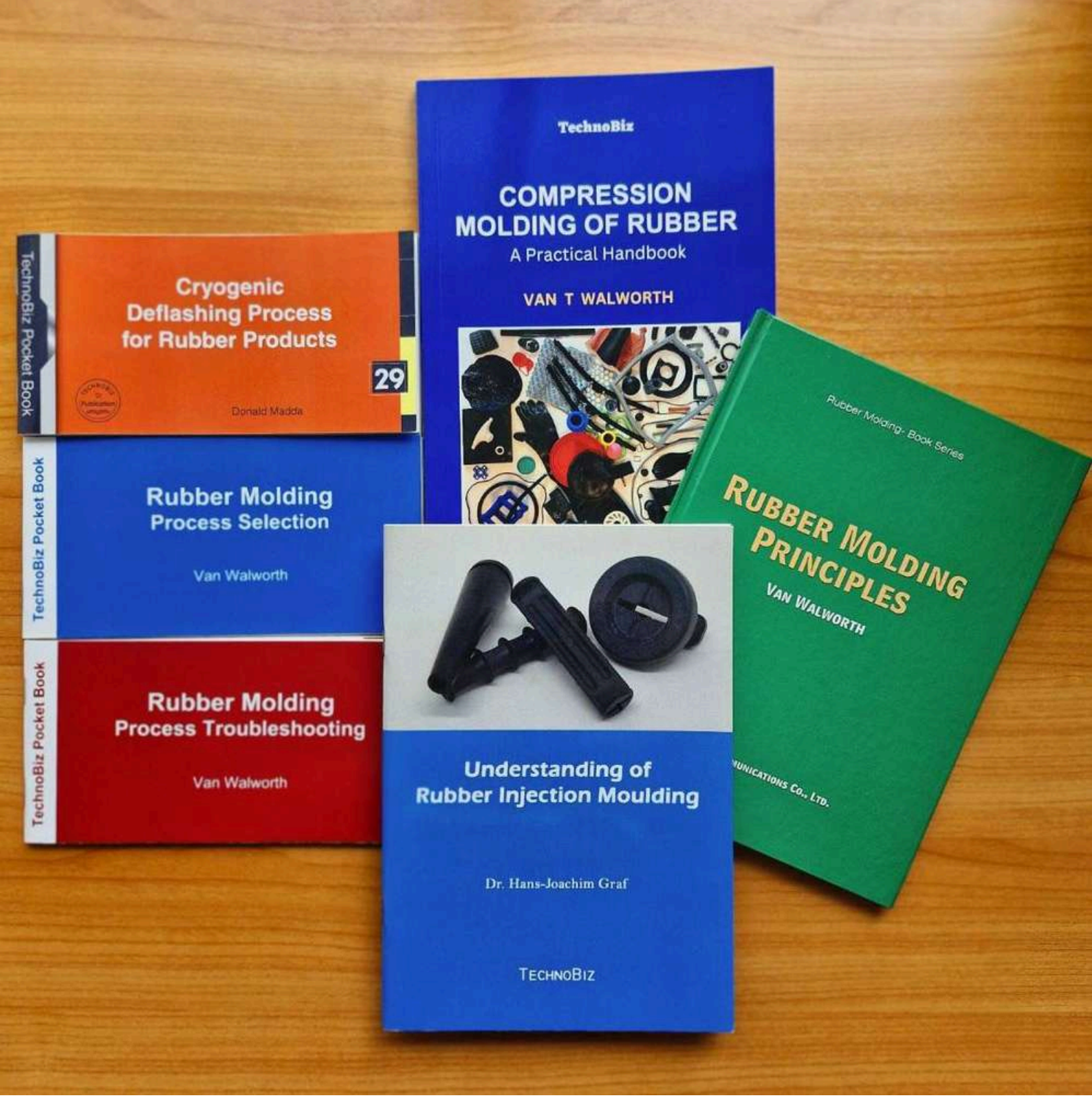

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DAP : Diammoniumphosphate

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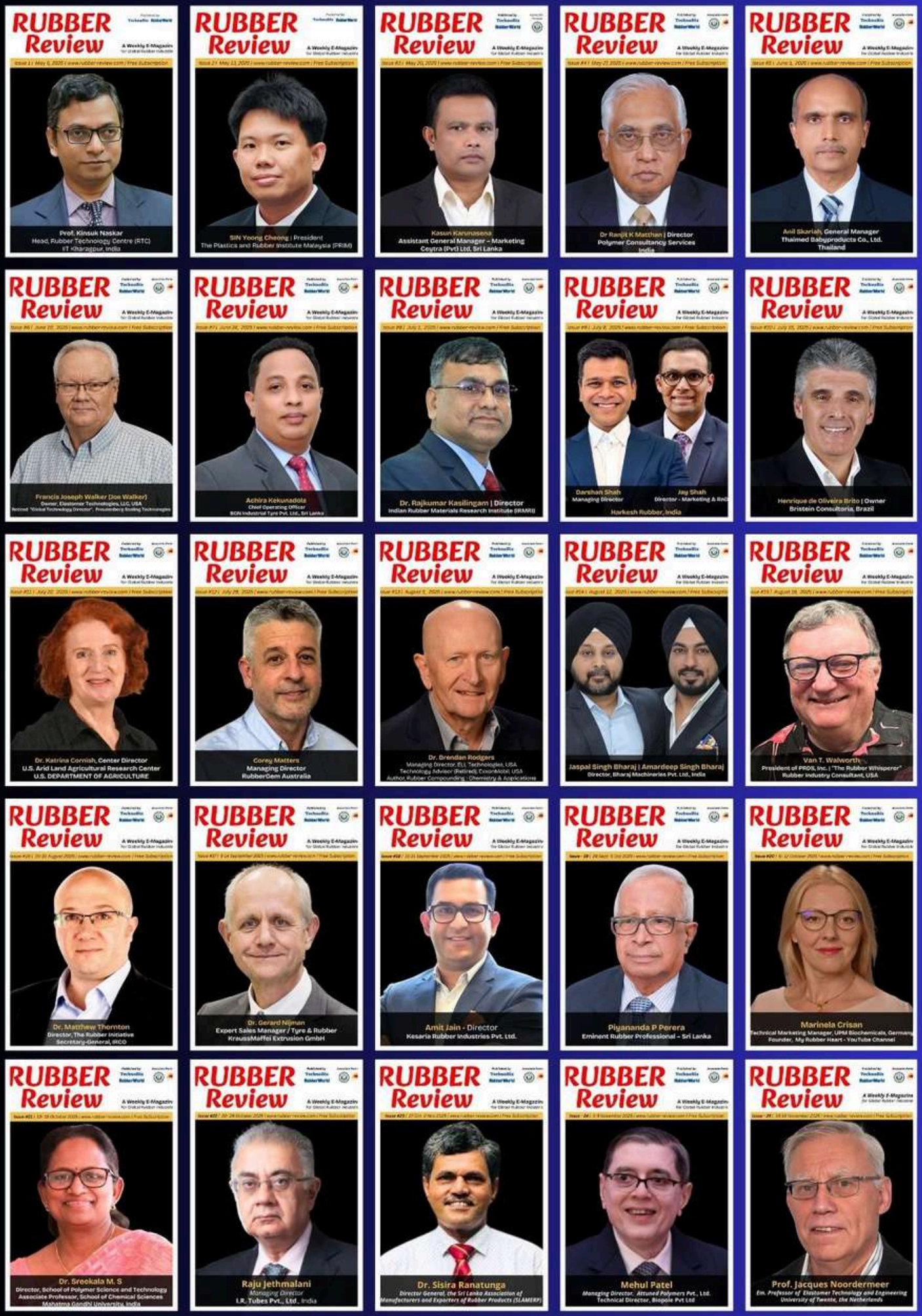

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