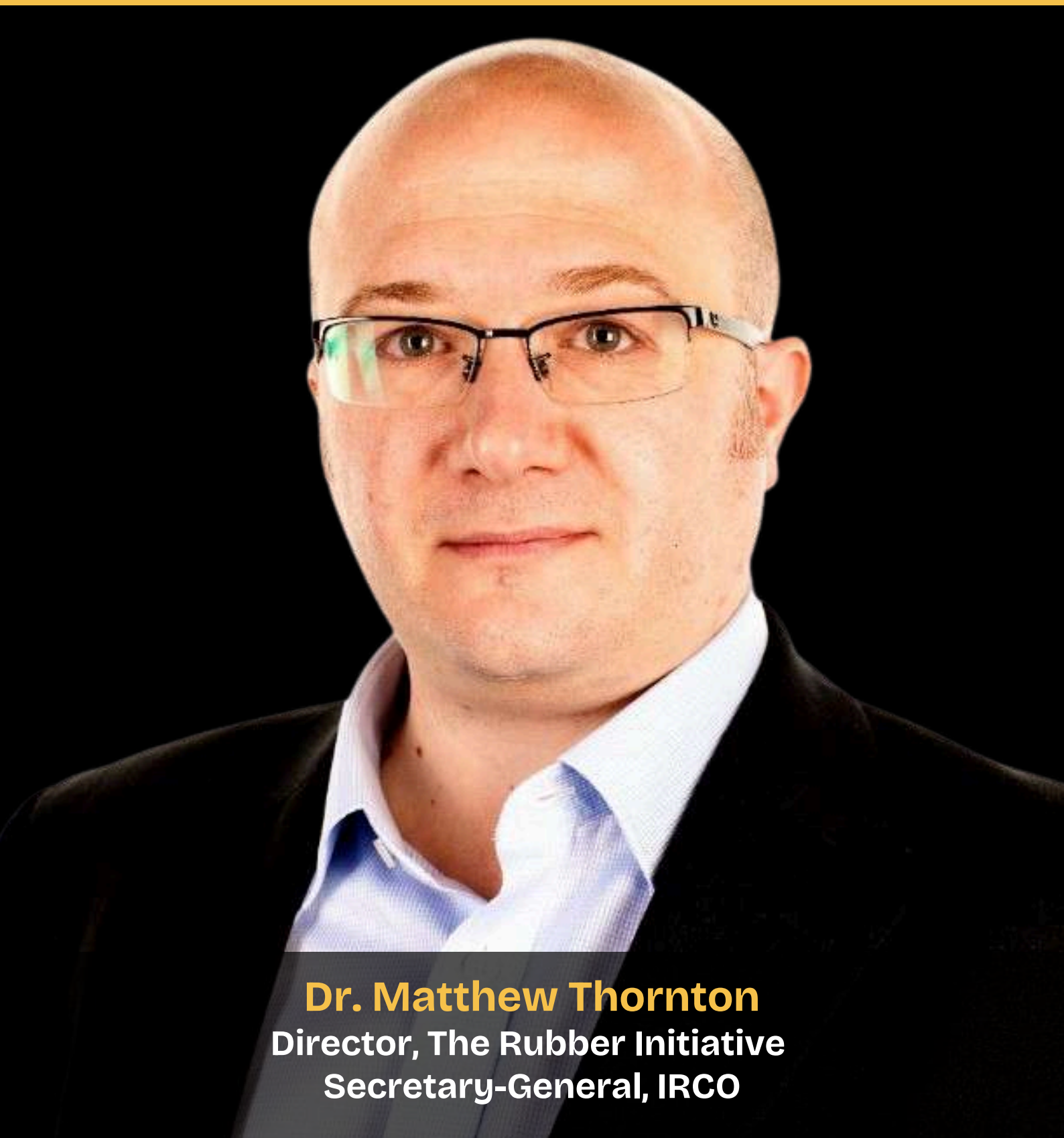
RUBBER Review

Published by
TechnoBiz
RubberWorld

Associate Partners

A Weekly E-Magazine
for Global Rubber Industries

Issue #16 | 25-31 August 2025 | www.rubber-review.com | Free Subscription



Dr. Matthew Thornton
Director, The Rubber Initiative
Secretary-General, IRCO

Edition # 2 | Hybrid Event

TechnoBiz LATEX WEEK

24-26 SEPT 2025 | CHENNAI, INDIA

GREEN PARK HOTEL

Main Sponsor

RACHANA Aqueous Dispersions Latex Chemicals

Supporter

FOSS

A TechnoBiz Executive Forum on Latex Industry & Technology

https://conference.technobiz.org

Training Course | Hybrid Event

TechnoBiz

EPDM Seals : Process Troubleshooting

23 September 2025, CHENNAI

GREEN PARK HOTEL | 10am-5pm

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

Course Content

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

Course Instructor

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

Registration Fee / Person

In-Person Participation

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

Online Participation

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

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

PKR CONSULTANTS

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

Delegate Registration

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

Contact Information
Peram Prasada Rao, TechnoBiz
Email : peram.technobiz@gmail.com
WhatsApp: +66-89 489 0525 /+91-6300 544 718
Web: https://training.technobiz.org

TechnoBiz

TPV CONFERENCE

5 FEBRUARY 2026

BENGALURU, INDIA

All about Thermoplastic Vulcanizates

HYBRID EVENT

https://conference.technoiz.org

CHINA PETROLEUM & CHEMICAL INDUSTRY WEEK
SHANGHAI

ufi Approved International Event

RubberTech China 2025
September 17-18-19

The 23rd International Exhibition on Rubber Technology

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

visitor registration

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

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

Organizer
ufi 中联橡胶股份有限公司 CHINA UNITED RUBBER CORPORATION

Global Partner
RIA 中国橡胶工业协会 China Rubber Industry Association

Sponsors
MESNAC 恒力橡塑 HENGLI Actmix

SHANGHAI · CHINA
www.rubbertech-expo.com

NUM RUBBER & LATEX CO., LTD.

WE PRODUCE HIGH QUALITY NATURAL RUBBER LATEX

Quality Assurance

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

ISO 9001 : 2000

About Our Company

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

Our Story

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

Concentrated Latex

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

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

Skim Block

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

Corporate Sustainability

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

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

EUDR Latex

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

www.numrubberandlatex.com +662-591-5148 (Auto) contact@numrubber.com

AFLatex technologies

REINVENTING RUBBER - AMMONIA FREE-

Our **environmentally friendly** natural rubber and latex **eliminate the need for toxic additives**—offering **high performance** and **reduced allergenic proteins.**

- Odorless and non-toxic
- Superior mechanical properties
- No water treatment facilities required
- Eliminates health risks to rubber industry workes

SELLO NEGOCIOS VERDES CO COLOMBIA

TO LICENSE OUR TECHNOLOGY PLEASE CONTACT.

info@aflatextechnologies.com

www.aflatextechnologies.com

GRTE

7TH Global Rubber Latex & Tyre Expo

10-12 MARCH 2027

BANGKOK, THAILAND

HALL 100, BITEC

The *Gateway*
to Global Markets & Knowledge-Hub
for Rubber, Latex & Tyre Industries

TechnoBiz

中联橡胶股份有限公司
CHINA UNITED RUBBER CORPORATION




To book a booth, Please contact : Peram Prasada Rao, TechnoBiz
Email: peram.technobiz@gmail.com | Tel/WhatsApp: +66-89-489 0525

COVER STORY

Conversation with
Dr. Matthew Thornton
Director, The Rubber Initiative
Secretary-General, IRCO

For over two decades, Dr. Matthew Thornton has been a driving force at the intersection of advanced materials science, industrial innovation, and strategic leadership. Holding a PhD in Materials Science and Engineering, and an MBA, Dr. Thornton's career spans influential roles in high-growth SMEs, government-backed knowledge networks, and global research collaborations. His early work in nanomaterial-enhanced polymers and composites evolved into leadership positions at pioneering firms such as Haydale and Polymateria, where he oversaw transformative projects in sustainable product development.

Today, as Co-Founder of The Rubber Initiative, he helps organizations not only think strategically but execute with precision, translating ideas into measurable impact. In parallel, his longstanding role as Secretary-General of the International Rubber Conference Organization (IRCO) positions him as a key orchestrator of global dialogue in the rubber sector. From fostering innovation in Greater Lincolnshire through the Bridge at the University of Lincoln to shaping biodegradability standards across the world, Dr. Thornton's multifaceted contributions continue to shape the materials landscape for a more sustainable future.

In this wide-ranging conversation, we delve into the arc of his professional journey, the evolving dynamics of the rubber industry, and his vision for fostering innovation across both academia and enterprise.

PERSONAL JOURNEY AND CAREER MILESTONES

What initially drew you to materials science and, specifically, the world of polymers and rubber?

My fascination with materials science began with a desire to create tangible things that could solve real-world problems. The world of polymers and rubber particularly captivated me because of its immense potential. These materials are everywhere, but I saw an opportunity to make them not just functional but also sustainable. I was drawn to the challenge of re-engineering them to deliver benefits for both people and the planet, moving beyond the traditional linear model of "take, make, dispose."

You've held diverse roles across research, startups, and strategic leadership. How did each stage of your career shape your current approach to innovation?

Each step of my career has been a building block for my current approach to innovation.

- My early research roles taught me the fundamentals and the discipline of scientific inquiry. I learned how to ask the right questions, test hypotheses rigorously, and understand the core properties of materials.
- Working with SMEs and start-ups like the Institute of Materials, Minerals and Mining and the *Materials Knowledge Transfer Network, NetComposites, Haydale, and Polymateria* was a crash course in speed, agility, and market validation. I learned to pivot quickly, embrace uncertainty, and connect scientific breakthroughs to commercial viability. This is where I truly honed my ability to turn a great idea into a marketable product.
- My strategic leadership roles gave me a bird's-eye view. I learned how to build and lead teams, develop long-term strategies, and navigate the complex landscape of intellectual property and business development. This experience was crucial for understanding how to scale innovation beyond a single product.

This diverse background has shaped my approach: I now see innovation as a holistic process that combines deep scientific understanding with market-driven strategy, all executed with entrepreneurial speed.

Reflecting on your time at Haydale and Polymateria, what lessons did you carry forward into The Rubber Initiative?

My time at Haydale and Polymateria was formative, and the lessons I learned there are at the core of my work with The Rubber Initiative.

At Haydale, I was part of a team pushing the boundaries of graphene technology. The key takeaway was the importance of translating a novel material into a clear, compelling value proposition. Graphene is a "wonder material," but without a specific application and a story that resonates with customers, it's just an expensive powder.

At Polymateria, we focused on creating a new standard for biodegradability in plastics. This experience taught me the critical importance of a robust, evidence-based approach to sustainability. We had to prove, with rigorous scientific data, that our technology truly delivered on its promise. This instilled in me the belief that genuine innovation in sustainability must be backed by transparent, verifiable results. I carry these lessons forward by focusing on two things: developing technologies with a clear, demonstrable benefit and ensuring that our sustainability claims are scientifically defensible and transparent.

What motivated you to co-found The Rubber Initiative, and what vision do you and your team have for its long-term impact?

I co-founded The Rubber Initiative out of a deep-seated desire to see these lessons applied on a wider scale. I believe that many companies have incredible ideas and technologies but lack the strategic guidance to bring them to market effectively. The vision is to work as a fractional executive, providing strategic innovation and implementation support to a range of businesses.

Our goal is to help these companies accelerate their journey, we want to be the catalyst that transforms their good ideas into great products. Ultimately, our long-term impact will be measured not by our own products, but by the collective success of the businesses we support, creating a ripple effect of innovation that makes the entire industry more sustainable and responsible.

SCIENCE, TECHNOLOGY & COMMERCIALIZATION

How do you balance scientific innovation with the commercial realities of product development?

Balancing scientific innovation with the commercial realities of product development is a central challenge in my work. My approach is to bridge the gap between the lab and the market by focusing on two key areas. First, I employ a "market-pull" strategy rather than a "tech-push." This means we start by identifying a clear market need or pain point and then work backward to develop a scientific solution. This ensures our innovation is not just novel but also valuable. Second, I advocate for agile product development. By creating minimum viable products and testing them with potential customers early and often, we can get rapid feedback and iterate quickly. This minimizes the risk of spending years developing a product that no one wants to buy.

Could you elaborate on how your work with nanomaterials has influenced your approach to sustainable rubber and elastomer solutions?

My work with nanomaterials has profoundly influenced my approach to sustainable rubber and elastomer solutions. Nanomaterials, such as graphene and carbon nanotubes, offer a powerful way to enhance the properties of polymers without relying on traditional additives like carbon black. By incorporating these nanomaterials, we can create products that are stronger, lighter, and more durable, which in turn extends their lifecycle. This allows us to develop next-generation rubber compounds that meet performance requirements while also reducing the need for virgin materials and improving circularity. For instance, using nanomaterials can enable the use of recycled rubber and recovered carbon black, providing a sustainable pathway to high-performance products.

What role does The Bridge at the University of Lincoln play in accelerating material science innovation?

The Bridge at the University of Lincoln is a crucial hub for accelerating material science innovation. It acts as a nexus connecting academic research with industry needs. By providing businesses with access to state-of-the-art facilities, leading researchers, and a collaborative environment, The Bridge helps to de-risk the initial stages of product development. This partnership model allows companies to test new ideas and scale up production without significant capital investment, significantly shortening the time from concept to commercialization. This is particularly valuable for startups and SMEs, enabling them to compete with larger players by leveraging academic expertise and resources.

You've been closely involved with biodegradability and additive technologies — where do you see the most promising breakthroughs?

In the fields of biodegradability and additive technologies, I see the most promising breakthroughs in two key areas. The first is in additives which are designed to make materials digestible by microorganisms at the end of their life. Unlike traditional biodegradable plastics that require specific industrial composting conditions, these new additives can facilitate breakdown in a wider range of environments, offering a more practical solution to plastic pollution.

The second area is the development of smart additives that can be activated on demand. For example, an additive could be engineered to trigger a specific change in a material's properties, such as increased durability or a shift toward biodegradability, only when a certain environmental condition is met. This offers unprecedented control over a product's lifecycle, paving the way for truly circular material solutions.

In addition, adding content on bio-derived materials is a perfect complement to the focus on sustainability. This is a critical and rapidly evolving area of innovation.

The shift toward bio-derived materials represents a fundamental change in how we source our raw materials. Instead of relying on fossil fuels, we can now create polymers and additives from renewable resources like plants, microbes, and agricultural waste. This not only reduces our carbon footprint but also introduces new functionality. For example, bio-based monomers can be used to produce bio-based polymers, like polyisoprene, which directly replaces synthetic versions made from petroleum. This helps create a circular economy where materials can be renewed, reused, or responsibly biodegraded. For me, the future of sustainable rubber and elastomers lies in a hybrid approach: combining the best of bio-derived materials with advanced additive technologies and smart design to create products that are not only high-performing and commercially viable but also genuinely beneficial for the planet.

GLOBAL RUBBER INDUSTRY & REGIONAL ECOSYSTEMS

As Secretary-General of IRCO, what are the most urgent topics facing the international rubber community today?

As Secretary-General of the International Rubber Conference Organization (IRCO) since 2010, the most pressing issues facing the international rubber community are fundamentally linked to sustainability, supply chain resilience, and innovation. The industry is grappling with the environmental impact of natural rubber production, including deforestation and biodiversity loss, as well as the carbon footprint of synthetic rubber manufacturing. At the same time, the volatile prices and geopolitical factors that threaten the stability of the global supply chain, particularly for natural rubber, are a constant concern. Finally, there's the urgent need for innovation to develop more sustainable materials and production methods that can meet the dual demands of performance and environmental responsibility.

How do initiatives like IRC and RubberCon help advance collaboration and standards across borders?

Initiatives like the International Rubber Conference (IRC) and RubberCon are vital for fostering collaboration and advancing standards and knowledge exchange globally. These platforms serve as a crucial forum for knowledge transfer, bringing together academics, researchers, and industry professionals from around the world. By showcasing cutting-edge research and new technologies, they help to accelerate the adoption of sustainable practices and drive innovation. This cross-border dialogue is essential for developing global standards and best practices, ensuring that the entire industry can move forward together on issues like material sustainability, circularity, and product safety.

In your view, what are the unique strengths and challenges of the UK and Greater Lincolnshire region in terms of rubber and materials manufacturing?

The UK, and specifically the Greater Lincolnshire region, has unique strengths and challenges in rubber and materials manufacturing. A key strength is the area's rich manufacturing and engineering heritage, which provides a highly skilled workforce and a legacy of industrial expertise. This is complemented by strong academic institutions, like the University of Lincoln, which are focused on innovation and provide a fresh talent pipeline. However, challenges include the need to address an aging infrastructure, skill gaps in emerging high-tech areas, and the high level of competition from global players.

How can networks like GLEAM help smaller companies thrive in high-tech sectors?

Networks like the Greater Lincolnshire Engineering and Manufacturing (GLEAM) initiative are essential for helping smaller companies thrive in high-tech sectors. These local networks act as a bridge between small businesses, larger corporations, and academic institutions, facilitating knowledge transfer and collaborative projects. They help smaller companies access critical resources, such as advanced R&D facilities and specialist expertise, that would otherwise be out of reach. GLEAM, for instance, can help small firms in the materials and engineering sector to navigate the complexities of new technology adoption and market entry. These local networks and global initiatives like IRC are complementary: local networks foster a strong foundation of expertise and collaboration, while international forums provide access to the latest global trends and standards, ensuring local businesses remain competitive on the world stage.

LEADERSHIP, MENTORSHIP & ECOSYSTEM BUILDING

You've often spoken about mentoring and enabling others. What makes a good innovation leader today?

A good innovation leader today is not a traditional top-down manager, but a catalyst and a mentor. They foster a culture of psychological safety where team members feel empowered to take risks and challenge the status quo without fear of failure. Modern leadership is about enabling others, providing the resources and guidance necessary for a diverse team to succeed. This means a shift from giving orders to asking powerful questions, and from controlling outcomes to celebrating a team's collective intelligence. The focus is on building a resilient and adaptable team that can navigate the constant change inherent in innovation.

What qualities do you look for when building cross-functional teams in complex technical fields?

When building teams in complex technical fields, I prioritize diversity, not just in terms of background, but also in thought and skillset. The most successful teams are multidisciplinary, bringing together experts from a variety if disciplines, i.e. material science, engineering, marketing, and business development. I look for individuals with a blend of qualities:

- *Curiosity and a Growth Mindset*: They must be willing to learn and adapt to new ideas.
- *Collaborative Spirit*: The ability to listen, communicate effectively, and build on others' ideas is paramount.
- *Grit:* The resilience to persevere through setbacks and the inevitable failures that come with innovation.
- *T-shaped skills*: Individuals with deep expertise in one area, but also a broad understanding of other disciplines.

This diversity of perspective is what drives truly novel solutions, as it allows us to see problems from multiple angles to deliver transformative commercial solutions and new products.

How do you stay connected with both academic and industrial trends, and what advice would you offer emerging professionals trying to do the same?

Staying connected with both academic and industrial trends requires a proactive and multi-faceted approach. I maintain a robust network by regularly attending international conferences and workshops, like IRC and RubberCon, which are key for academic insights. For industrial trends, I engage with local networks like GLEAM and the IOM3 Technical Communities, participating in their committee meetings and events, and maintain active relationships with key industry players and clients through social media, primarily LinkedIn. For emerging professionals, I'd offer this advice:

- *Be a lifelong learner*: Read academic journals, industry reports, and blogs.
- *Network actively*: Go to conferences, webinars, and meetups. Don't be afraid to reach out to people on platforms like LinkedIn.
- *Seek out mentors*: Find experienced professionals who can offer guidance and insights.

How has your MBA influenced your leadership philosophy and execution strategy?

My MBA has been a transformative influence on my leadership philosophy. It provided a framework for connecting scientific and technical innovation with strategic business execution. Before my MBA, I viewed innovation primarily through a technical lens; now, I see it as a comprehensive process that must be aligned with market needs, financial viability, and a clear go-to-market strategy. The MBA taught me the importance of a holistic approach to leadership, where decisions are guided not just by what's technically possible, but also by what's commercially sound. This has enabled me to lead with a stronger focus on value creation, risk management, and building a sustainable business model around innovative ideas and their implementation.

THE FUTURE OF RUBBER, MATERIALS & CIRCULARITY

What future trends in rubber and polymer science are you most excited about?

I'm excited about several future trends in rubber and polymer science. One of the most promising is the development of bio-derived elastomers from renewable feedstocks, which directly tackles our reliance on fossil fuels. I'm also fascinated by smart materials, such as self-healing rubber, which can significantly extend product lifespan. Finally, the use of nanotechnology to enhance material properties is opening up new frontiers for creating high-performance, sustainable elastomers, polymers and composites. These trends align with my passion for creating solutions that are both technically and environmentally superior.

How do you see the role of circular economy principles evolving in mainstream rubber manufacturing?

The principles of the circular economy are moving from a theoretical concept to a practical necessity in the rubber industry. While the industry has historically been very linear ("take-make-dispose"), there's a growing push to close the loop. This shift is happening on a few fronts:

- *Enhanced Recycling*: New technologies are making it easier to recycle end-of-life rubber products, especially tires. Techniques like devulcanization are moving closer to commercial viability, allowing us to reclaim valuable materials and reintroduce them into the supply chain.
- *Product Design*: Manufacturers are increasingly designing products for disassembly and recyclability. This means using fewer materials, avoiding incompatible blends, and creating products that can be easily broken down and remanufactured.
- *New Business Models*: We're seeing the rise of service-based models, such as tire-as-a-service, which incentivize manufacturers to make more durable and repairable products.

This evolution is driven by both consumer demand and legislative pressure, making it a key component of future growth and profitability.

Are there particular emerging technologies or policy shifts you believe the industry isn't preparing for adequately?

The rubber industry, particularly in some parts of the world, isn't adequately preparing for two major shifts:

- E*merging Policy*: Extended Producer Responsibility (EPR) legislation is gaining momentum globally. This will force companies to take financial and operational responsibility for their products' entire lifecycle, including waste management and recycling. Many companies are not ready for this fundamental change to their business model.
- *Next-Generation Technologies*: While some are adopting it, the widespread implementation of chemical recycling remains a challenge. This technology can break down polymers into their original monomers, creating a truly circular material flow. However, the high cost and complexity of these processes mean that many businesses are still hesitant to invest, which could put them at a disadvantage as regulations tighten.

The industry needs to move beyond incremental changes and prepare for these transformative shifts to remain competitive.

How can industry and academia better collaborate to meet the evolving expectations of environmental sustainability?

To meet the evolving expectations for environmental sustainability, a closer, more strategic collaboration between industry and academia is essential. The traditional model of isolated research is no longer sufficient. We need to build a symbiotic relationship where:

- Academia provides the fundamental, long-term research on new materials and processes. They can explore high-risk, high-reward ideas without the immediate pressure of commercialization.
- Industry provides a clear "market-pull" signal, giving researchers real-world problems to solve. By sharing data and providing feedback, they can help focus academic research on what's most needed.

This can be achieved through joint research programs, shared labs (like The Bridge at the University of Lincoln), and talent exchange programs where students and professionals can work on collaborative projects. This approach ensures that scientific breakthroughs are not just interesting, but also commercially viable and impactful.

CONSULTING SERVICES

Van T. Walworth

Product Design &
Development Specialist

Rubber Industry Expert

- Molds & Processes
- Troubleshooting
- Virtual Training
- Product Design
- Project Management
- Intellectual Property
- Expert Witness

Consulting Fees and/or Travel Cost Assessed Case-by-Case

For More Information, Contact:

van@prdsteam.com

+1.615.337.2977

Rheologix

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

Sam Porter
Founder / Consultant

SamPorter@
RheologixServices.com
+1 (832) 302-9841

- Compound Development
- Mold Design
- Process Optimization
- Design Strategies
- Df Manufacturability
- Cost Reductions
- 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

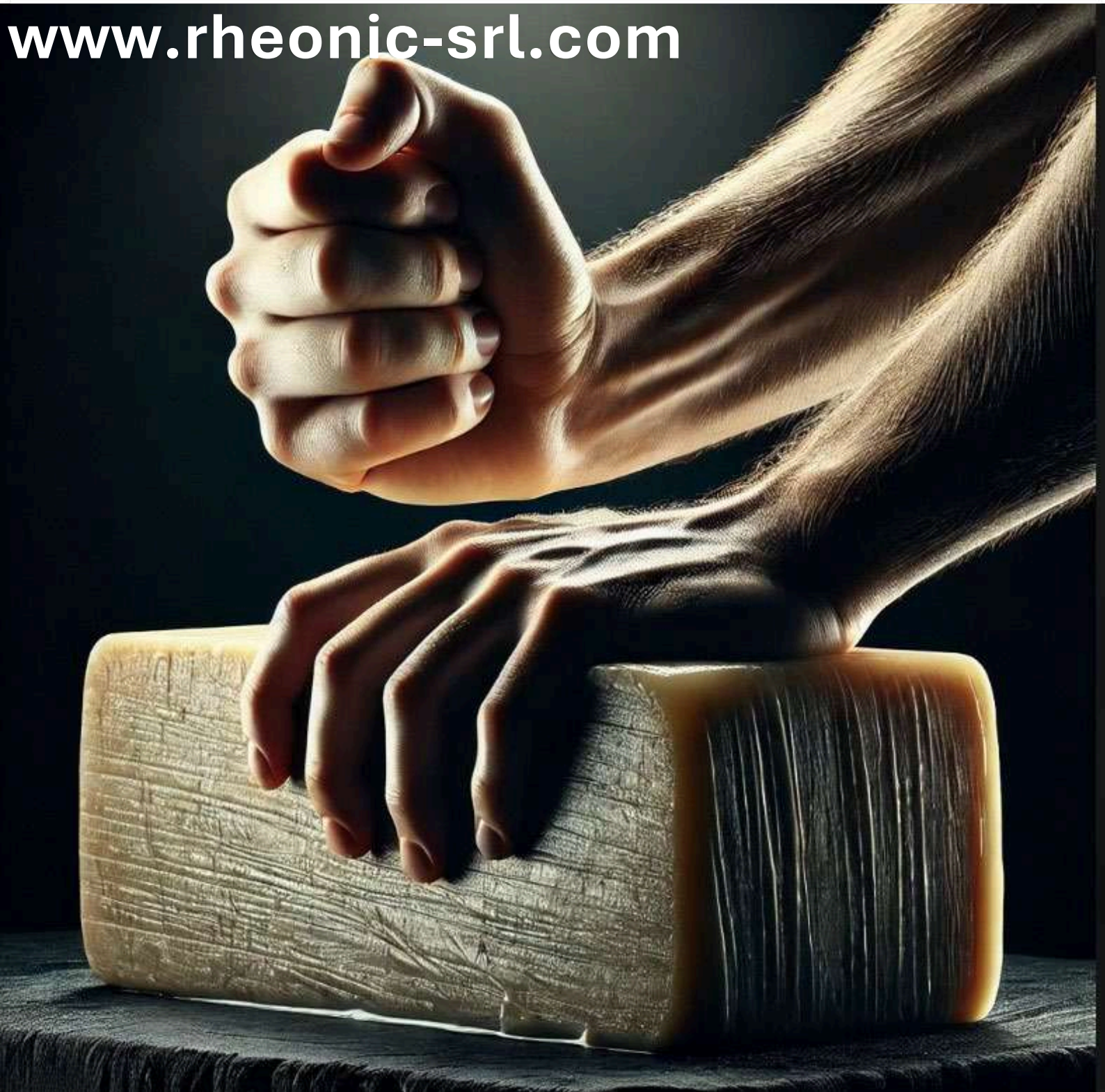
RheologixServices.com

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 16 | 25-31 August 2025

IRMRI Spotlight

भारतीय रबड़ सामग्री अनुसंधान संस्थान

IRMRI

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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

IRMRI - North Center
111/9, 3rd Floor, Kishangarh,
Vasant Kunj
New Delhi - 110 070
irmra.nc1@irmra.org
Mob No.:+91 9716230295

IRMRI Team

Dr. K Rajkumar
Director

Paul Vannan
Sr. Deputy Director
South Centre Head

TV Sethumadhavan
Deputy Director

Dr. Debdipta Basu
Sr. Assistant Director
East Centre Head

Dr. Bharat Kapgate
Sr. Assistant Director

Dr. Utpal Basuli
Sr. Assistant Director

Dr. Shibulal Sathi
Assistant Director

Dr. Sheik Mohammed
Assistant Director

V. Karthikeyan
Business Dev. Manager

Dr. T. Vinoth
Sr. Scientific Officer (QMS)

Dr. Amrita Roy
Sr. Scientific Officer

Dr. Mohammed Saleem
Sr. Scientific Officer

Dr. Santosh Jagdale
Sr. Scientific Officer

Ganapathi C
Sr. Scientific Officer

Sachin Barve
Sr. Scientific Officer

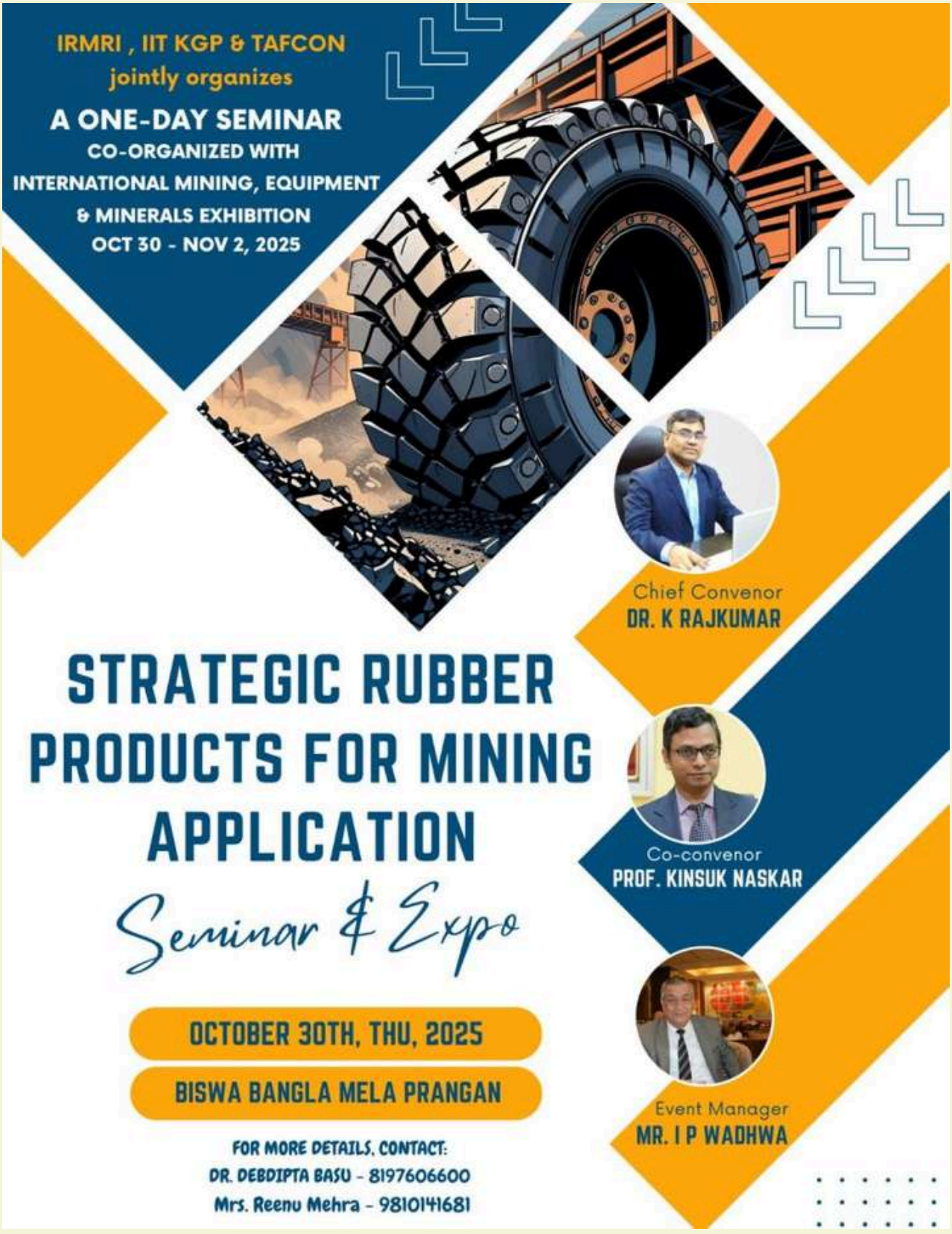
Prasant Bankar
Sr. Officer - Safety

Chetan Deshmukh
Sr. Officer (Maintenance & Safety)

Kiran Shetty
Jr. Officer (ESTT)

Hemant Khairnar
Asst. Finance Officer

Anil Bhujbal
Jr. Officer


IRMRI , IIT KGP & TAFCON
jointly organizes
A ONE-DAY SEMINAR
CO-ORGANIZED WITH
INTERNATIONAL MINING, EQUIPMENT
& MINERALS EXHIBITION
OCT 30 - NOV 2, 2025
Chief Convenor
DR. K RAJKUMAR
STRATEGIC RUBBER PRODUCTS FOR MINING APPLICATION
Seminar & Expo
Co-convenor
PROF. KINSUK NASKAR
OCTOBER 30TH, THU, 2025
BISWA BANGLA MELA PRANGAN
Event Manager
MR. I P WADHWA
FOR MORE DETAILS, CONTACT:
DR. DEBDIPTA BASU - 8197606600
Mrs. Reenu Mehra - 9810141681

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly as IRMRA (INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION)
An Autonomous Institute Under DPIIT, Ministry of Commerce & Industry, Government of India
254/1 B, Rd Number 16U, Nehru Nagar, Wagle Industrial Estate, Thane West, Thane, Maharashtra-400604.
Email: info@irmra.org/www.irmri.org/Helpline / Enquiry Number +91-22-67873200/+91-22-6787-3225

IRMRI Announces

Two Days Training on

MeasurementUncertainty: Chemical & Mechanical Measurements

Training Schedule:

Date: 15th&16thSeptember, 2025

Timing: 10.00-17.00 hrs

Venue: 254/1B, Road No. 16 V, Wagle Industrial Estate, ThaneWest,Maharashtra -400604Landmark: Next to Hawkins Ltd

Scope of 2-days Training Program

- **Fundamentals of Measurements.**
- **Concept of Measurement Uncertainty.**
- **Basics of Statistics as applicable to estimate Measurement Uncertainty.**
- **Explanation on estimation of Type-A & Type-B evaluations.**
- **Case studies involving Calibration situations.**
- **Model for estimation of measurement uncertainty in Testing & Calibration.**
- **Application of Measurement Uncertainty in Testing & Calibration.**

Registration Fee:
Rs. 8,000/- + 18% GST
(For Non-residential Candidates)
Rs. 10,000/-+18% GST
(For Residential candidates)

Payment gateway for online payment: https://eazypay.icicibank.com/homepage

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

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

For Registrations:

Mr. Veerappan Karthikeyan (Business Development Manager) +91 7045086164 / 9361324212
Mr. Amol Tambe Training Coordinator - 9969167262
Email: veerappan.karthikeyan@irmra.org, info@irmra.org / trg@ irmra.org

IRMRI Conducts 4-Day Corporate Training at Hindustan Colas, Navi Mumbai

IRMRI conducted a 4-Day Corporate Training Programme at Hindustan Colas, Navi Mumbai (19–22 August 2025) on Laboratory Management Systems – ISO/IEC 17025:2017 & Internal Audit. Over 20 professionals from Hindustan Colas participated. The program was inaugurated by *Mr. Paul Vannan* and *Mr. V. Karthikeyan*, with expert sessions delivered by *Ms. Bhavana Trivedi*, NABL Lead Assessor. Special thanks were extended to *Dr. Susheel Gulati* for supporting this initiative. The training reflects IRMRI's commitment to strengthening laboratory quality management, accreditation readiness, and building competencies through practical, interactive learning.

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

CHINA RUBBER & TYRE *SPOTLIGHT*

中联橡胶股份有限公司

CHINA UNITED RUBBER CORPORATION

Qingdao Zhongyi Weiye Machinery Manufacture Co., Ltd.

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
+86 133 8532 8008	zhongyiweiye@qd-zhongyi.cn	No. 3 Xinghai Road, Chengyang District, Qingdao City, Shandong Province, China

Jiujiang DoWell Rubber Technology Co., Ltd.

DoWell Tech is dedicated to the R&D, production and sales of chemical raw materials, and provides expert advice on their application solutions for our global customers.

Our core products are primarily divided into **acrylic rubber (ACM)** and modified acrylic water-based adhesives. ACM products are classified into four major types of rubber products: i. e. active chlorine, carboxyl, double cross-linking and epoxy types, while the and water-based emulsion adhesive types are available in five different categories which are broadly used in industries such as automobile, new energy technology, electric power , and related electronics, and environmental protection.

We are committed to product R&D and continuously manufacturing products which are consistently reliable, stable, and environmentally friendly, to meet our customers' evolving needs. This commitment is reflected in our corporate motto or mission of becoming a:

"Leading innovative material manufacturer and innovation through cutting edge technology, to ensure serving a sustainable development of society."

We pledge to be a model corporate citizen, a trusted partner, and an honest, reliable enterpriser that fosters long-term relationships with our customers worldwide while helping our customers to create value.

Contact Us

ADD: Jiujiang, Jiangxi Province, China

Phone & Whatsapp & Wechat: 0086-18664973679

URL:www.dowellacm.com

E-mail: steven.yang@dowellacm.com

Baoding Julong Microwave Energy Equipment Co., Ltd.

Sealing strips

Rubber hose

Engineering rubber

EQUIPMENT FOR RUBBER CONTINUOUS EXTRUSION & VULCANIZATION PROCESS

Address: No. 555 Huaguang Road, Baoding, Hebei Province, China

Tel: +86-312-5920028 /5920023 Fax: +86-312-5883170

E-mail:sales@bdjulong.com.cn WhatsApp: +86 15933448192

Website: http://jl-rubbermachine.com http://www.cnjulong.com

EastRichon®

EastRichon Rubber Additives

20000 TONS ANNUAL PRODUCTION

CHINA CREDIT ENTERPRISE

TIANJIN EASTRICHON RUBBER ADDITIVES CO., LTD

EASTRICHON RUBBER ADDITIVES

FOCUSING ON THE RUBBER CHEMICALS RESEARCHING, PRODUCTION, MARKETING AND THEIR TECHNOLOGY IMPROVEMENTS.

CERTIFICATION	COUNTRY	CAPACITY	TYPES	SPECIES
ISO9001:2000	50	20000	10	100
we get certificate	Export to more than fifty countries and regions	annual production ability of 20,000MTS on rubber additives	divided into 10 categories	with more than 100 items

According to the customer requests, we could prepare our products in POWDER, in OILED POWDER, in GRANULE or in SUPER FINE POWDER,
we become one of the most successful suppliers both on variety and quantity available for rubber additives in China.

Our lustration production technology, the new technical know-how ensure our products of topquality and human cares on natural environment to make us distinguished from other suppliers.

SERVICE FOR GLOBAL RUBBER INDUSTRY

CHINA CHINESE SUPPLIERS 东方瑞创

TEL:+86-22-58613696 E-mail: info@eastrichon.com FAX:+86-22-58613677 http://www.eastrichon.com

Company Address: Gangda Rd., Lilou Industrial Park, Tianjin China

19FI Building B,Gangji Center,Wanggang Road,Jinnan Economic Developed Zone (Western Zone),Tianjin,China

台州汇鑫橡塑设备有限公司
TAIZHOU HUIXIN RUBBER&PLASTIC MACHINERY CO.,LTD

OUR PRODUCTS

1)Rubber cold feed extruder;
2)Knitting/Spiraling/Braiding Hose production line;
3)Strainer and batch off line
4)Rubber profile (co-extrusion) microwave curing
5)NBR&PVC foam line (pipe/sheet);
6)Butyl rubber production line;
7)Rubber preformer
8)Salt-bath curing line;
9)Silicone production line;
10)Waste gas treatment system, etc.

MICROWAVE & HOT AIR CURING LINE

USAGE

The production line is used to produce rubber sealing strip,hose,profile,water,stop and other products,widely used in automotive doors and windows,aluminum doors and windows,building curtain walls, container doors, ships, high-speed rail,roads and bridges and other fields.

FEATURES

1.German technology
2.High efficiency, energy conservation, environmental protrction, good stability.
3.The product vulcanize evenly and the vulcanization speed is quick.
4.Controlled by PLC,variable frequency speed regulation, stable operation , reduce manpower.

WhatsApp

WeChat

Web: www.rubberextruder.com

无锡双象橡塑机械有限公司
Wuxi Double Elephant Rubber & Plastics Machinery Co., Ltd

双象集团
DOUBLE ELEPHANT GROUP

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.

我们的客户 Our customers

BRIDGESTONE · TOYO TIRES · YOKOHAMA · DUNLOP · GOODYEAR
Continental · PIRELLI · TRELLEBORG · MICHELIN · CAMSO
apollo TYRES · MRF · ATG · KUMHO TIRES · Giti
CST 正新轮胎 · KENDA · LINGLONG TIRE · TRIANGLE · GS 通用股份
BT 宝通科技 · DOUBLEARROW · SANLUX 三力士 · WANLI · WANDA TYRE

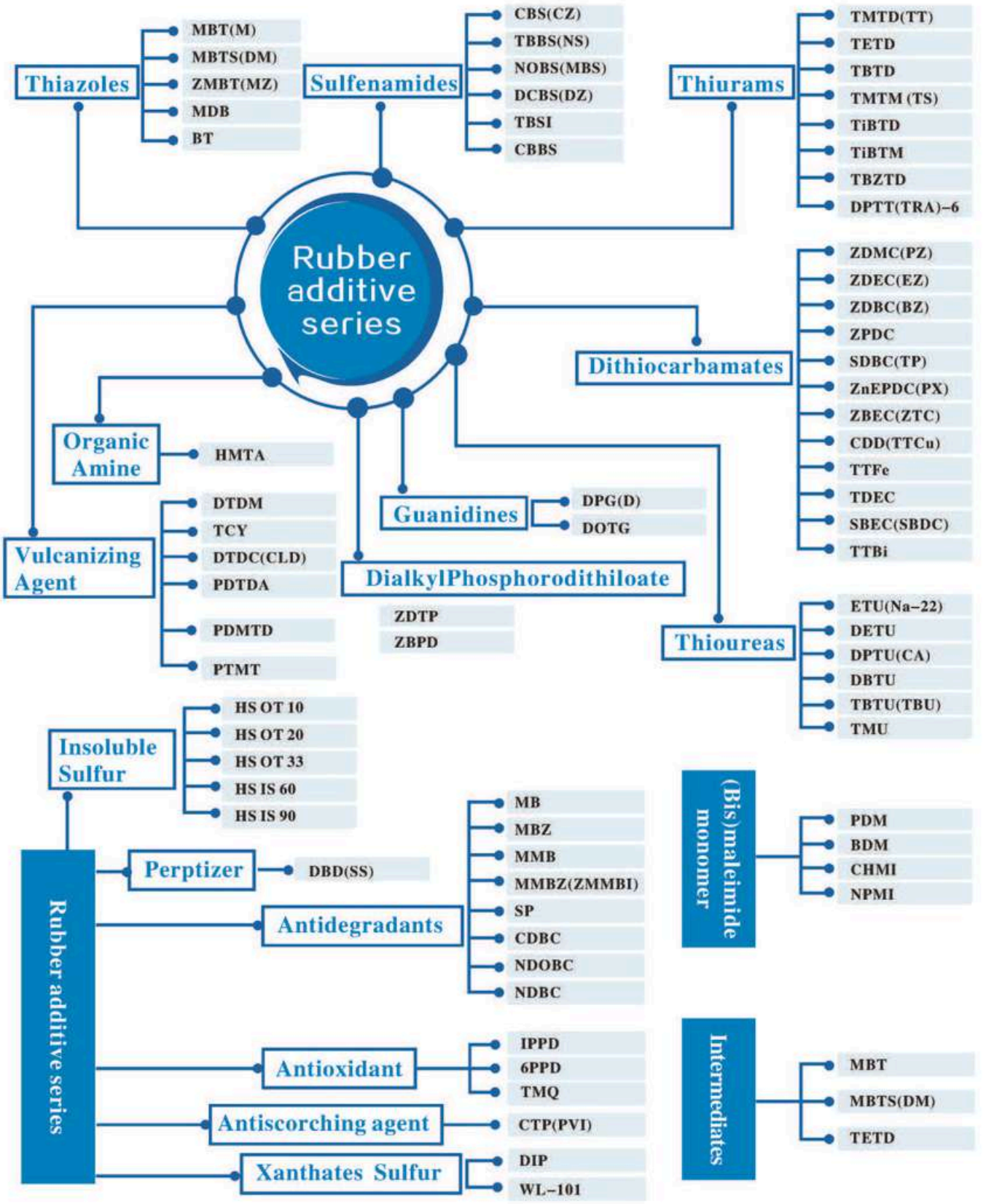
Contact:Cloud Feng

Phone Number(Whatsapp):+86 13338106611

WILLING

蔚林新材料科技股份有限公司
WILLING NEW MATERIALS TECHNOLOGY CO., LTD.

Stock code：831866



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.

Web1: www.xiangrunhao.com **Web2: https://rubbermachineryltd.com** **Email1: ruitongfafa888@163.com**

Email2: sr07505@126.com **Phone1: +86 13608968028** **Phone2: +86 13553080267**

马 赫 科 技®
SINCE 1996

Creating a Customized Dark Factory for the Rubber and Plastic Industry

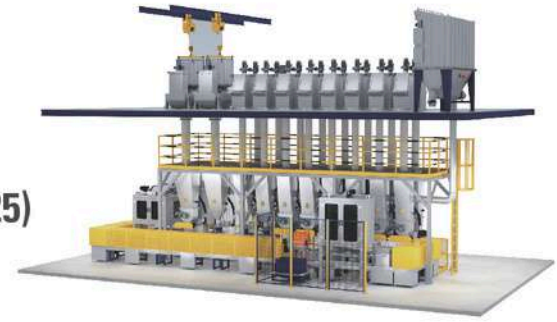
Providing a More Stable and Flexible Material Handling System

Specializing in R&D and manufacturing for the tire and rubber industry:

- Material pneumatic conveying system
- Mixer upstream equipment system
- High precision fully automatic chemical weighing machine
- Industrial information management and control software
- MES
- Green environmental protection equipment

BOOTH NO: H8

Middle East Rubber & Tyre Expo 2025 (MRTE 2025)
17-19 June 2025, Sharjah, UAE



Beijing Mach Tiancheng Technology Co., Ltd.

Office Add.: 12th Floor, Block B, Yuhui Building, No. 73, Fucheng Road, Haidian District, Beijing, China-100142

Plant 1 Add.: No. 1, Tianxiang Road, Baodi Economic Development Zone, Tianjin, China

Plant 2 Add.: No. 5, Ziwu Road, Shangxing, Liyang, Jiangsu province, China

Contact: Kitty Zhou Sales Manager(Overseas)

Mobile: +86-18254222311

Tel.: +86-10-88145185 **Fax**: +86-10-88133042

Wechat ID: kittymaochina **Whatsapp**: +8618254222311

E-mail: kitty@machtech.com.cn **Website**: www.bjmachtech.com

INDIA RUBBER & TYRE *SPOTLIGHT*

MITSUFUKU
COMPOUND PRIVATE LIMITED

Manufacturers of

MASTER BATCHES OF BLACK / COLOR COMPOUNDS

to enable our customers to maintain a clean manufacturing environment & focus their resources on post compounding operations without compromising on their formulations.

- General Purpose Polymer Based Compounds : NBR, EPDM, SBR, IIR, CR, NR, Etc.
- Specialty Polymer Based Compounds : FKM, FFKM, ECO, ACM, AEM, HNBR, AFLAS.
- Made to order rubber compounds catering to Industries like : ENGINEERING, AUTOMOTIVE, AEROSPACE, RAILWAYS, OIL & GAS ETC.

Regd. Office :
201, Darvesh Chambers, 2nd Floor,
743 P. D. Hinduja Marg, Khar West, Mumbai 400052, India

Factory :
Plot No. 1227 & 1228, Sarigam G.I.D.C., Near Lalji Mulji Transport Company, Taluka - Umbergam, District - Valsad Gujarat - 396 155, India

C : +91 96876 90740 / 41
C : +91 7359122201 (Sudip Prajapati)

Email : admin@mitsufuku.co.in

AT THE FOREFRONT OF

RUBBER MACHINERY

TECHNOLOGY & INNOVATION

Bharaj®

RUBBER PROCESSING MACHINERY

An ISO 9001-2015 Company

- Heavy duty rubber mixing mills in Anti friction bearings 6"x13" upto 26"x84"
- Rubber dispersion kneaders from 5ltrs -150ltrs
- Conveyers/stock blenders
- Hot feed rubber extruders 25mm - 50mm
- Cold feed rubber extruders in plain/ vent Type/ pin barrel type /co-extrusion type Special trainers 45mm-250mm
- Vacuum/compression type rubber moulding machine
- Silicon rubber extruders / mills Strainers/ gear pump strainers (Specialised Silicon Machinery)
- Refiner mill, cracker mills, grinder mills
- Calendars with complete lines, Available in 2,3,4 rolls
- Mixing line, Calendar line on turnkey Basis
- Bale cutters

INDIA'S LARGEST

RUBBER MACHINERY MANUFACTURER

GEARED RUBBER PUMP STRAINER

HIGHEST QUAUTY STRAINING OPTIMIZED AT HIGHER MESH & LOWER TEMPERATURE ONLY WITH BHARAJ GEARED RUBBER PUMPS STRAINING AT 150 MESH SIZE.

RUBBER MIXING TECHNOLOGY

22"X 60" RUBBER MIXING MILL VARIABLE FRICTION VARIABLE RATIO HYD NIPS CE CERTIFIED

150L FULLY AUTOMATIC HYDRAULIC RAM RUBBER DISPERSION KNEADER

KNEADERS
MILLS
GEAR PUMPS

INDUSTRY LEADER IN CALENDAR MANUFACTURING

RUBBER CALENDARING TECHNOLOGY

4 ROLL 24X72 OPEN "Z" TYPE RUBBER CALENDAR

2 ROLL
3 ROLL
4 ROLL

RUBBER EXTRUSION TECHNOLOGY

250 MM COLD FEED RUBBER EXTRUDER

PLAIN
VENT
PINTYPE

RUBBER MOULDING TECHNOLOGY

1200X1200 FULLY AUTOMATIC HYDRAULIC VACUUM COMPRESSION PRESS

PROUDLY MADE IN INDIA

BHARAJ MACHINERIES PVT. LTD.
LEADING MANUFACTURER & EXPORTER
PLOT NO. 12 & 13, SURVEY NO. 66 HISSA NO. 1/1,
NAIK PADA, VILLAGE WALIV TALUKA VASAI
DIST PALGHAR 401 208. MAHARASHTRA

+91 7028244443/8007666123
sales@bharajmachineries.com
mktg@bharajmachineries.com

RUBBER RAW MATERIALS SUPPLER

- Synthetic Rubbers
- Natural Rubbers
- Reclaim Rubbers
- Carbon Blacks
- Silicas
- Plasticizers
- Accelerators
- Peroxides & Coagents
- Bonding Agents
- Process Additives
- Stearetes
- Activators
- Pigments
- Antioxidants & Antiozonants
- Flame Retardants
- Specialty Rubber Compounds
- Waxes & Blowing Agents
- Resin & Rosin
- Specialty Chemicals

HIND ELASTOMERS PVT. LTD.

702/703 Prasad Chambers, Tata Road No.2, Swadeshi Mills Compound, Opera House, Mumbai-400004, INDIA.

H. N. 2921, Godown No. D-1/D-2/D-3 & C-1, Ventura Logistics, Survey No.42, Post Elkunde Village, Mumbai-Nashik Road, Bhiwandi-421302

+91-22-23612222/23632222 mail@hindelastomers.com www.hindelastomers.com

MUMBAI : 88280 00777 | NEW DELHI : 73045 59392 | PUNE : 93711 57070 | HYDERABAD : 98857 90009 | AHMEDABAD : 93270 12469

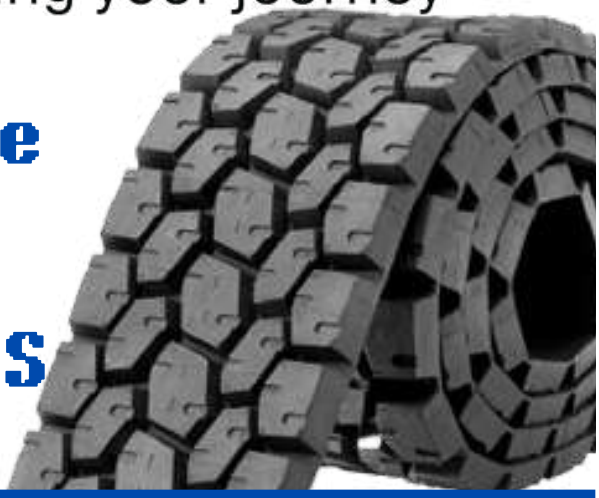
32 ANNIVERSARY 1992-2024

ISO 9001:2015 Certified Company

CÖBBER

Redefining your journey

EXTRA | Mileage GRIP SAVINGS

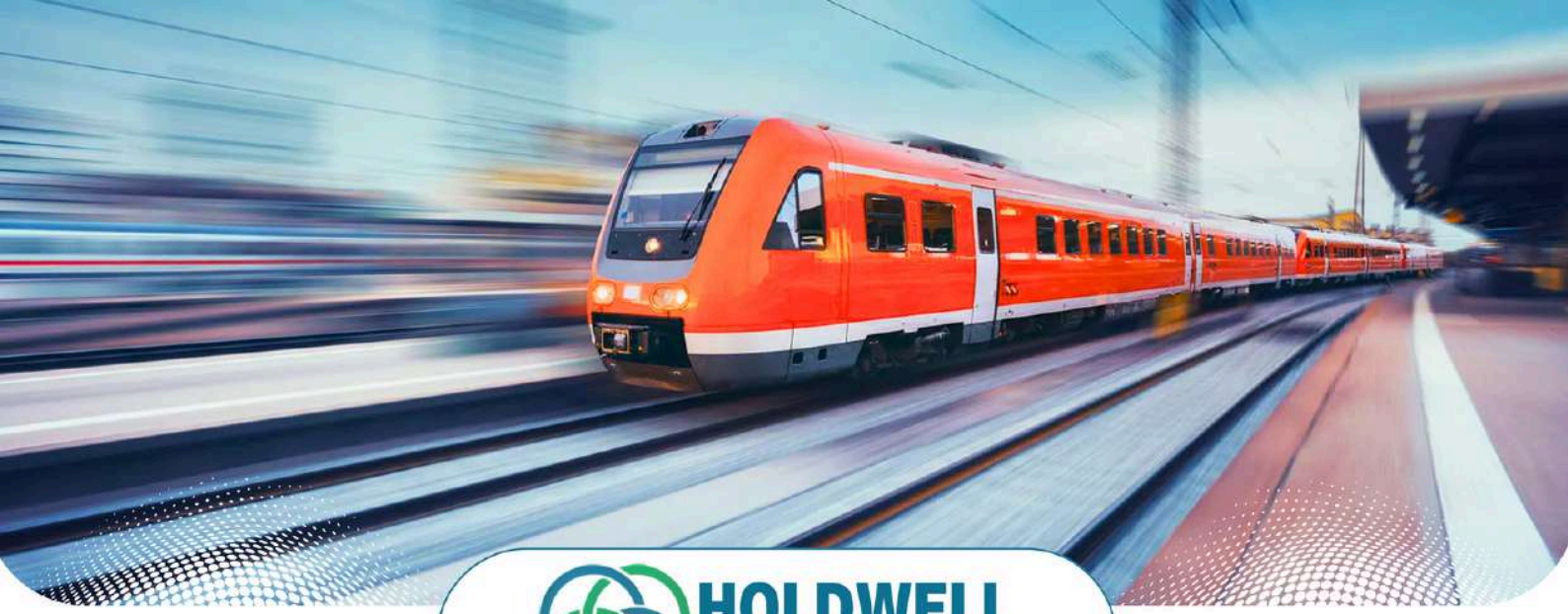


World's Leading Tyre Retreading Materials Manufacturer

06235 771 774 | 06235 771 773

sales@cochinrubbers.com

www.cochinrubbers.com

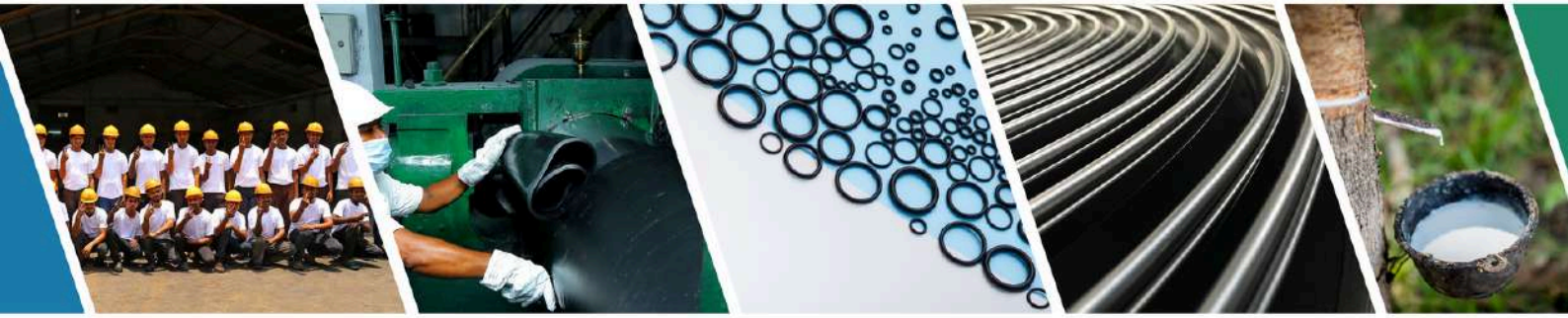


HOLDWELL COMPONENTS

31 YEARS OF EXCELLENCE

CATERING TO

Railway Track Fastenings & Infrastructure,
Rubber Sealings Solutions, Advanced Rubber Technical Products,
Conveyor Belting Solutions ...



CONTACT US

+91 33-4061 9006
info@holdwellcomponents.com
18, R.N. Mukherjee Road, 8th Floor, Kolkata-700001,
West Bengal, India.

HOLDWELL COMPONENTS

Aarti Steel International Ltd.

- **Tire Bead Wire – 42000 MT PA (0.80 mm – 2.40 mm)**
- **Spring Steel Wire & Galvanized Wire – 36000 MT PA (0.25 mm – 6 mm)**

Aarti Steel International Ltd. is a flagship company of Aarti Group of industries having business interest in producing steel products like high carbon steel wires and textile. The total turnover of the group is around Rs. 3000 Cr. The company was established in 1979 in Ludhiana which steadily emerged as one of the leading manufacturer of carbon and alloy steel with state-of-the-art technology plant located in Punjab.

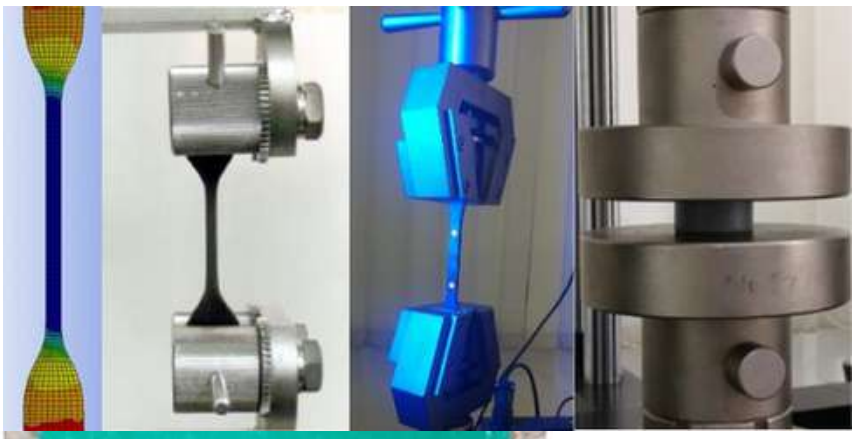
In 1992, the company put up its steel wire drawing unit in Ludhiana which later on emerged as one of the leading manufacturer of high carbon steel wire in India with capacity of 78000 MT per annum.

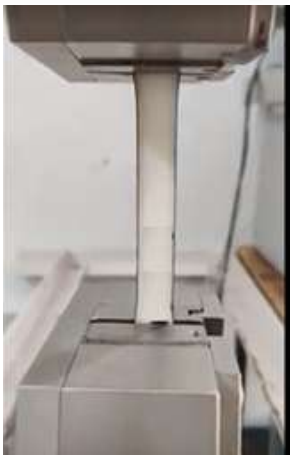
Aarti International Ltd.
G.T. Road, Miller Ganj, Ludhiana - 141 003, (Punjab) India
EMail: info@aartisteelintl.com | aarti@aartisteelintl.com
Tel: +91-161-5244100, +91-161-5244200

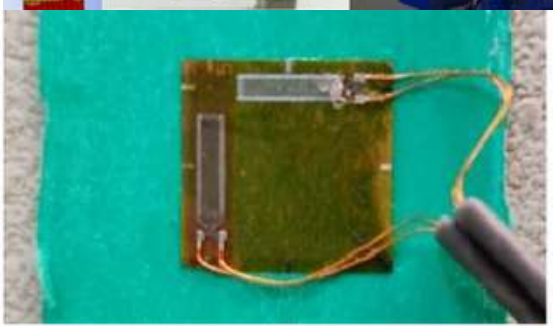
ENGINEERING SERVICES

Advanced Scientific and Engineering Services
ADVANSES®
Advanses Laboratory K2S LLP

MATERIAL TESTING







- STATIC TESTING
- DYNAMIC TESTING
- FAILURE ANALYSIS
- FATIGUE TESTING
- FINITE ELEMENT ANALYSIS
- DESIGN OF POLYMER PARTS & COMPONENTS
- CREEP, AGING, & STRESS RELAXATION TESTS
- CUSTOM TEST SETUPS

+91 9624447567
info@advanses.com
Advanses Laboratory K2S LLP
Plot # 49, Mother Industrial Park, Near Zak GIDC, Off Naroda-Dehgam Road, Kadadara, Gujarat 382305. India.

ELASTOCON

CONVEYING CONTINUOUSLY

Belting division of ROYAL ELASTOMERS

ELASTOCON CONVEYOR BELTS

Engineered for Excellence.
Trusted for Performance.

Precision Engineering

Heat, oil, fire, and abrasion-resistant grades for specific industrial need.

Performance That Lasts

Built with reinforced fabric for ultimate durability

Uncompromised Strength

Designed for heavy-duty construction environments.

ELASTOCON

CONVEYING CONTINUOUSLY

Sales@elastoconbelts.com

+91 93031 41006/ +91 90074 77904
+91 98361 49059

WORK ADDRESS
Khasra No, 550, 549/1, 534/3 Vill: Kandarka, Ahiwara Road, Kumhari Durg-490042, Chhattisgarh, India

OFFICE ADDRESS
18, R.N. Mukherjee Road, 8th Floor, Kolkata- 700001 West Bengal, India

BEDROCK®

TUFF TYRES *for* RUFF ROADS

BETTER HANDLING AT HIGH SPEED

DUE TO RICH & SOFT COMPOUND

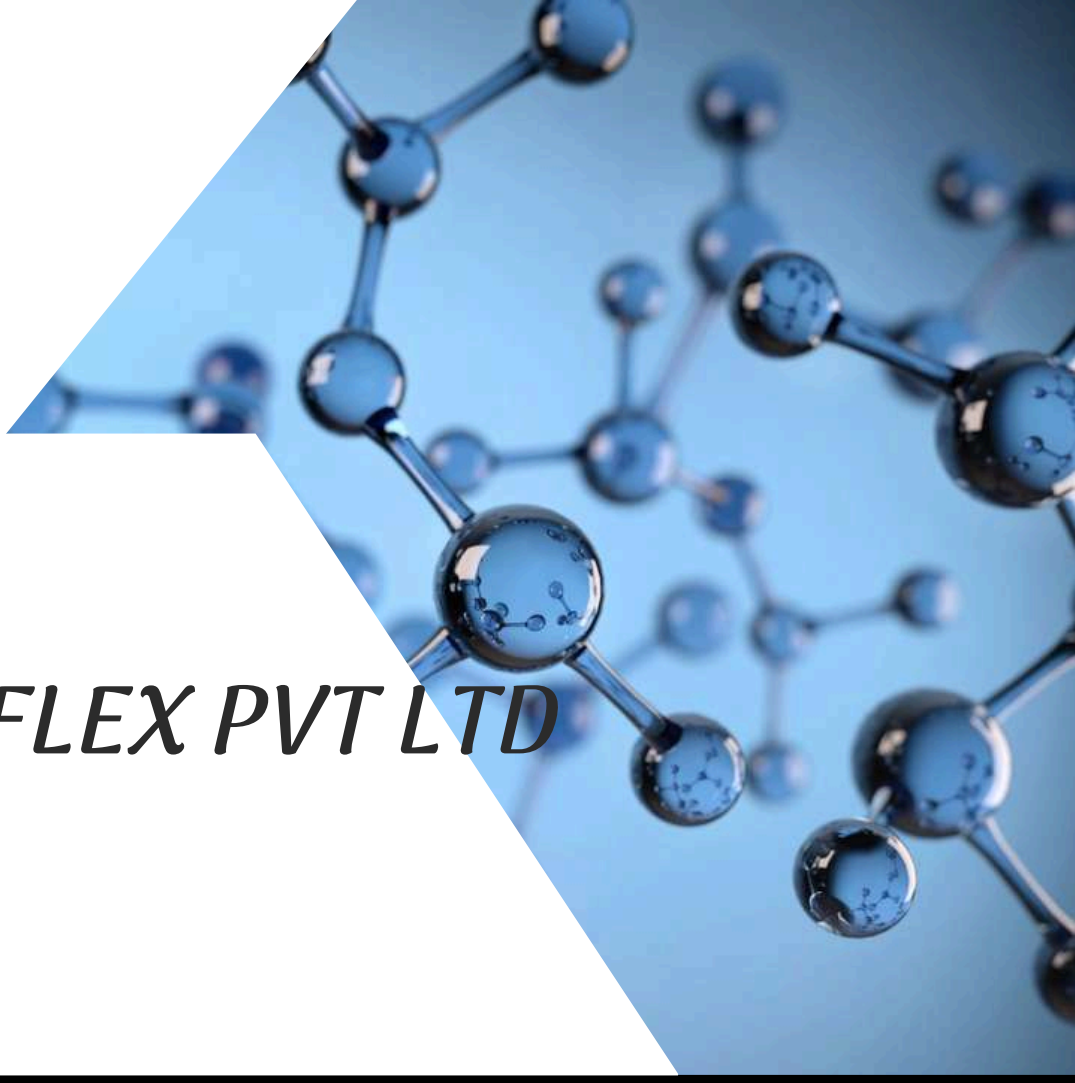
GSO APPROVED
GSO
GCC Standardization Organization

BEDROCK TYRES GIVES YOUR 2/3 WHEELER MAXIMUM MILEAGE, CONTROL AND GRIP THROUGH THE DIVERSE ROAD SURFACES AND VARIED WEATHER CONDITION.

PODDAR TYRES LIMITED
AN ISO 9001:2015 CERTIFIED COMPANY

H.O.:- 5-D, COURT CHAMBERS, 35 NEW MARINE LINES, MUMBAI-400 020, INDIA
PH.: (+91-22) 2200 6554, 2200 6553, 2200 4812 • E-MAIL: PTL.MUMBAI@BEDROCKTYRES.COM
WORKS:- PODDAR NAGAR, G.T. ROAD, JUGIANA, LUDHIANA- 141 014 (PUNJAB), INDIA
PH.: (+91-161) 2511 556-560 • E-MAIL: PTL.LUDHIANA@BEDROCKTYRES.COM
FOR ENQUIRY (WHATSAPP): +91-99587-45554 • E-MAIL: EXPORT@BEDROCKTYRES.COM

www.bedrocktyres.com



SRM EXOFLEX PVT LTD

MANUFACTURER OF

Rubber Expansion joints, Bellows, Rubber Lined Pipes, Tanks & Vessels;
Injection & Compression Moulded Rubber Components

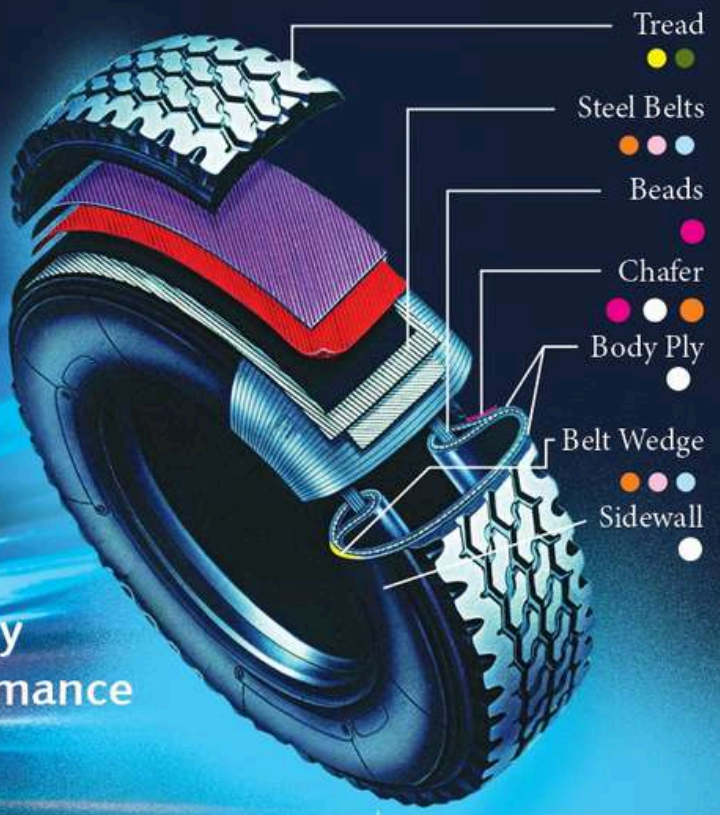
179/ 40, Badu Road, Bright Wire Industrial Complex, Near BSF Camp, Madhyamgram, Kolkata 700 128. West Bengal

CONTACT US:

Email : sales@srmexoflex.com / rakeshdugar@live.com
Call / Whatsapp : +91 93310 18626

FINORCHEM
BREATHING CHEMISTRY

- Tackifier Resin
- Super Tackifier Resin
- Reinforcing Resin
- Tread Enhancement Resin
- Bonding Resin
- Dry Bonding Resin
- Resorcinol Dispersions



Uncompromising Quality with Unmatched Performance

TACKIFIER RESINS
- FINOREX 1068
- FINOREX 1068H
- COLOFIN NS
- FINOREX CP-90

SUPER TACKIFIER RESINS
- FINOREX KR 140
- FINOREX TR 140

REINFORCING RESINS
- FINOREX PN 160B
- FINOREX RR 90 & 90H
- FINOREX RR 95 & 95H
- FINOREX RR 110

TREAD ENHANCEMENT RESIN (TEA)
PAMS RESIN
- FINOREX AMS 85 &100

TERPENE PHENOL RESIN
- FINOREX CP-90

POLYTERPENE RESIN
- FINOREX PT

CUT & CHIP RESISTANT RESIN
- FINOREX CCR 120

BONDING RESIN
RF RESIN
- FINOREX B18S
- FINOREX B19S

RF STYRENE RESIN
- FINOREX B20S

PRF RESIN
- FINOREX BPRF

DRY BONDING AGENT
- ACMEBOND HMMM 65%
- ACMEBOND HMMM 72%
- ACMEBOND HMT

RESORCINOL DISPERSION
RESORCINOL - SILICA BLEND
- FINOREX RS

RESORCINOL - STEARIC BLEND
- FINOREX RSA

FLAGSHIP BRANDS

Acmecure/Mercure (Accelerators), Acmenox / Mernox (Antidegradants), Peptizol (Peptizers)
Acmetol (Processing Aids), Acmebond (Dry Bonding Agent), Acmeantistick (Antitack Batch of Powder)
Finorex (Resins), Finolink (Anti-reversion Agents), Finosil (Coupling Agents)

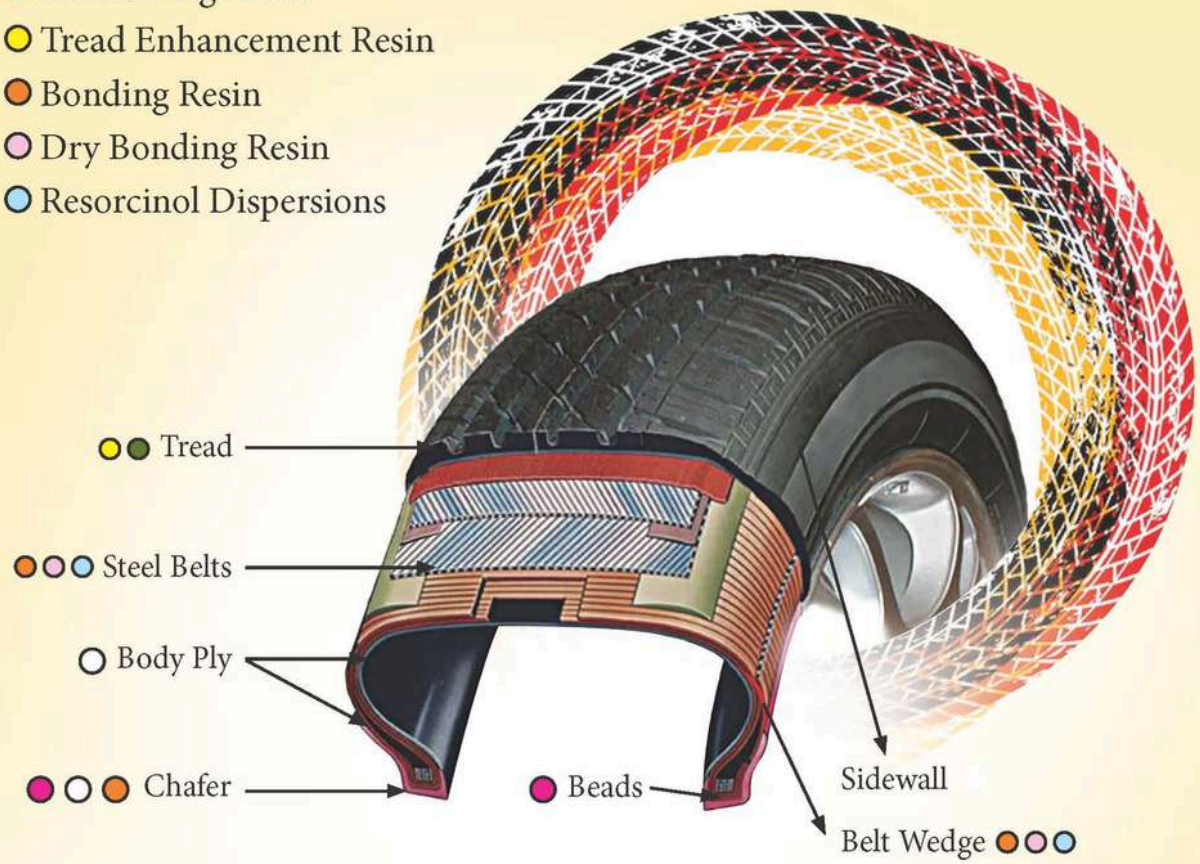
FINORCHEM LIMITED
9E, Saket Apartment, 2 Ho Chi Minh Sarani, 9th Floor, Kolkata - 700 071
+91 033 33228 26195 • corporate@finorchem.com • www.finorchem.com

Scan QR Code and see Brochure

FINORCHEM
BREATHING CHEMISTRY

UNRIVALLED QUALITY AND PERFORMANCE

- Tackifier Resin
- Super Tackifier Resin
- Reinforcing Resin
- Tread Enhancement Resin
- Bonding Resin
- Dry Bonding Resin
- Resorcinol Dispersions



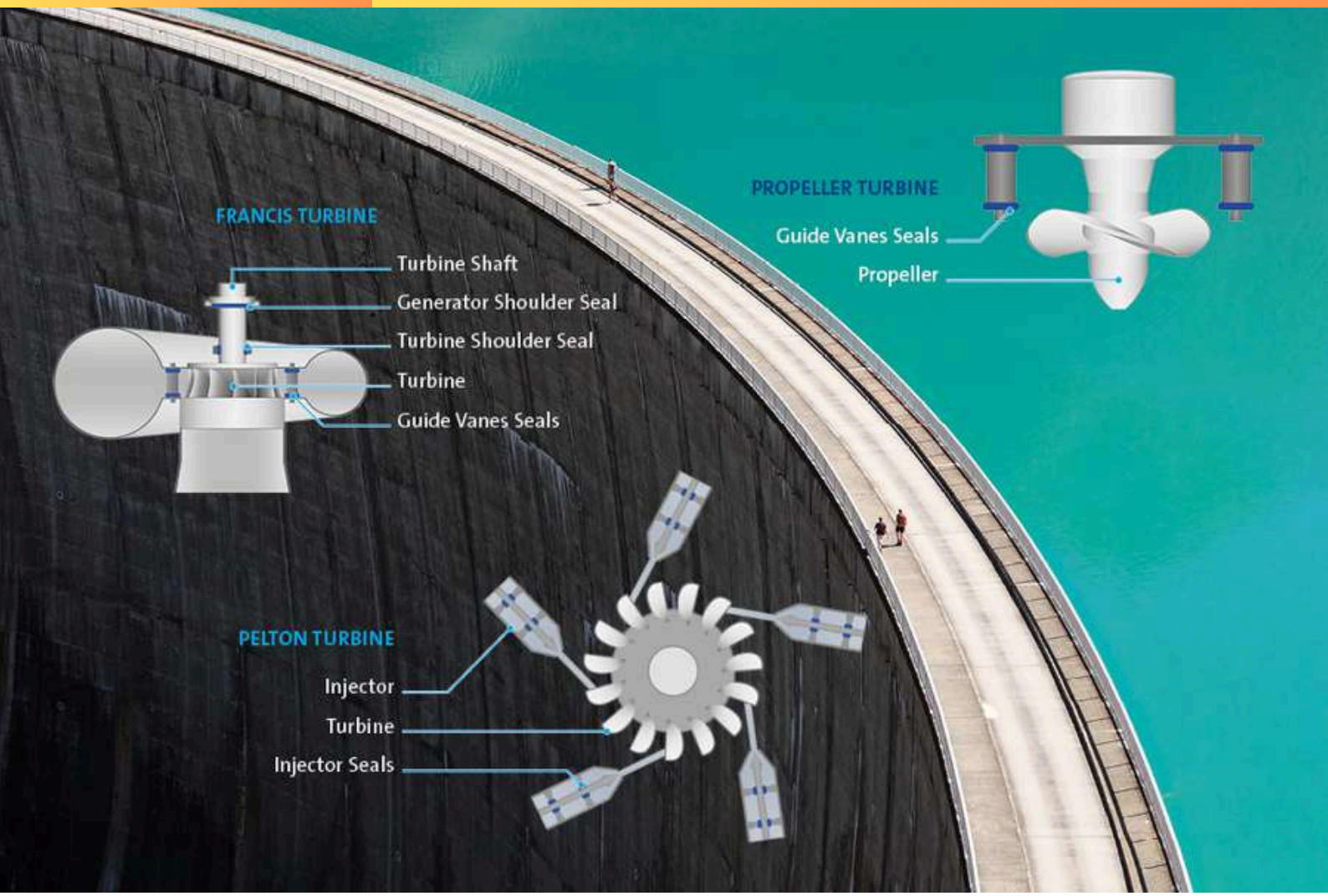
FLAGSHIP BRANDS

Acmecure/Mercure (Accelerators), Acmenox / Mernox (Antidegradants), Peptizol (Peptizers) Acmetol (Processing Aids), Acmebond (Dry Bonding Agent), Acmeantistick (Antitack Batch off Powder) Finorex (Resins), Finolink (Anti-reversion Agents), Finosil (Coupling Agents)

FINORCHEM LIMITED
9E, Saket Apartment, 2 Ho Chi Minh Sarani, 9th Floor, Kolkata - 700 071
+91 033 33228 26195 • corporate@finorchem.com • www.finorchem.com

RUBBER BUSINESS NEWS

RUBBER Review



Hydropower Plants: Achieving Maximum Output

The safe, stable and efficient operation of hydropower plants is a cornerstone of the future net-zero energy mix. Depending on regional and climatic conditions, hydropower generated from flow energy can account for more than 80 percent of the electrical energy produced in a given country. In this area, Norway currently leads with 89 percent, followed by Canada with 62%, Brazil with 60% and Switzerland with 55%. Freudenberg Sealing Technologies understands the challenges of operating energy systems that must deliver reliable, round-the-clock performance. Avoiding downtime is critical and one thing is certain: Neither turbines nor valves can function without precision-fit seals. The sealing materials from Freudenberg Sealing Technologies form seamless connections between the systems' mechanical components. They can withstand freezing water and fluctuating pressures as well as saltwater while retaining their shape.

Types of hydropower plant: an overview : Humans have harnessed and used the immense energy of flowing water for thousands of years – to irrigate fields and drive millstones, for example. In the past, swollen wood or leather straps served as makeshift seals. Today, far more efficient sealing materials are available for converting the power of water into usable energy. Each type of hydropower plant has specific requirements that must be considered when choosing the proper material. On land, we distinguish between run-of-river power plants and diversion power plants, which are installed in streams and on rivers. Pumped storage and cavern power plants, in contrast, are primarily used as energy reservoirs. And to capture the endless energy of the oceans, tidal power plants along coastlines have now reached market maturity. To get a sense of the extreme environments in which sealing materials must function with top efficiency, it is essential to take a closer look at the turbines that are powered by the masses of water.

Turbines: The heart of hydropower utilization | At what angle and from what drop height will the water strike the turbine? At which volume and average flow pressure? These are the key variables when determining which turbine will deliver the highest efficiency for the hydropower plants. A basic distinction is made between equal pressure turbines and overpressure turbines. Equal pressure turbines are designed so that the flow pressure upstream and downstream of the turbine remains constant. They are ideal for high drop heights and low water volumes. A Pelton turbine is an example. In contrast, overpressure turbines use the pressure differences before and after passing through the turbine to generate energy. They work efficiently across a wide range of drop heights and water volumes. Kaplan, Francis and propeller turbines have proven effective in this area. Together, these four types of turbines account for up to 80 percent of the global market. All turbine models have one thing in common: they can only withstand harsh environmental conditions if they are equipped with sealing materials that have been perfectly selected.

Fact check: Focus on seals | Considerable expertise is required when selecting the right sealing materials, as the different flow angles and velocities, the expected pressure distribution and water properties all need to be taken into account. This is exactly the kind of materials know-how that Freudenberg Sealing Technologies has been developing and refining for decades. Octavia Ohr, Head of R&D, Freudenberg Xpress® Customized Solutions, explains: “It’s fascinating to see how these relatively small seals play such a crucial role in maximizing the energy output from hydropower. Each seal has a specific shape and not every material works in every application. But I welcome each new request. When we combine our materials expertise with the Freudenberg Xpress® product line, we can match the right compound to each environment and manufacture customer-specific profiles.”

Sealing properties: High-performance materials for turbulent environments

Every hydropower plant site has its own set of environmental conditions that place high demands on all components – so there is a lot to consider. At dynamic sealing points exposed to fresh water, materials must offer high adaptability and deliver a well-balanced combination of water compatibility, wear resistance, and sealing performance. Commonly used materials include polytetrafluoroethylene (PTFE), polyurethane (PU) and nitrile rubber (NBR). These material groups have stood the test even under high flow velocities. In extremely turbulent environments, however, the priorities for the required material properties shift to high mechanical strength and vibration resistance. For these conditions, high-performance thermoplastics such as polyetheretherketone (PEEK) are ideal. In icy environments, materials must primarily offer excellent cold resistance and withstand increased ozone exposure. This is where ethylene propylene diene monomer (EPDM) is the material of choice – these seals remain flexible even after long periods in frosty conditions. Wave or tidal power stations present a different challenge: saltwater is highly corrosive, which makes chemically inert and corrosion-resistant materials absolutely essential. In such cases, EPDM can be used, for example. This group of materials can withstand saltwater and unprotected exposure to sunlight over a long period of time. The bottom line: Only perfectly selected materials and custom-engineered seals can reduce wear in hydropower systems and enable low-maintenance and long-lasting operation.

Maintenance: Global modernization of hydropower plants | The development of new hydropower plants is currently focused on Asia, Africa and South America. Among these, Brazil stands out. For decades, its existing hydropower plants have relied on particularly large turbines to generate energy. This means that large-format, high-performance seals are also required as part of the maintenance cycles.

This is where material and manufacturing expertise counts, which is exactly what Freudenberg Sealing Technologies provides. Thanks to its international production and logistics network, it can quickly produce and deliver custom-fit seals.

If we look at hydropower in Europe, we see that the majority of power plant potential has already been tapped. This is due to strict environmental regulations and to widespread existing infrastructure already installed along European rivers and streams. As a result, Europeans are currently focusing on modernizing existing systems, some of which have been in operation for more than 100 years. The same is true for North America. In both Canada and the U.S., large-scale modernization programs are currently creating a new wave of hydropower development. Even in the absence of political planning certainty, there is an acknowledged need to bring hydropower plants to the state of the art, which is resulting in a growing number of maintenance contracts.

Energy strategies: Diversifying the energy mix | In the coming years, the global hydropower sector is expected to see a surge in wave and tidal power plant installations, as well as the development and expansion of pumped power plants as energy storage systems. On June 25, 2025, the International Hydropower Association (IHA) published its annual "2025 World Hydropower Outlook" in London. The press release states: "Pumped storage hydropower plants (PSH), the world's most proven technology for large-scale electricity storage, are drawing increased attention from policy makers and investors in times of market volatility and system stress. With major policy reforms and over 60 GW of PSH projects in the pipeline, Europe has a clear opportunity to use this momentum for the implementation." Scott Sharpless, Global Key Account Manager, Power/Energy at Freudenberg Sealing Technologies, observes: "Hydropower is one of the oldest and most sustainable forms of renewable energy. It doesn't produce direct emissions and helps to reduce our environmental footprint while securing our energy supply. With our competent materials expertise, we can shape the perfect material into customized seals for every environmental requirement, which takes us one step closer to carbon neutrality."

ContiTech launches production at new hydraulic hose plant in Aguascalientes, Mexico

Fairlawn, OH – Continental's group sector ContiTech has officially started production at its new hydraulics manufacturing facility in Aguascalientes, Mexico. The $90 million investment represents a major step in the company's strategy to strengthen local supply chains, increase regional production capacity and bring innovative fluid power solutions closer to customers in the region. The new 900,000 square feet site will manufacture high-performance hydraulic hoses for a wide range of industrial and mobile applications, including construction, agriculture, mining and energy sectors.

"*The start of production in Aguascalientes marks a key milestone in ContiTech's journey toward being a more agile, regionalized partner to our customers*," said Philip Nelles, Member of the Continental Executive Board and CEO of the ContiTech group sector. "At ContiTech, we build on 150 years of materials expertise. While our portfolio is broad and diverse, all our solutions are grounded in the same strength: high-performance materials that are mission critical, innovative, and engineered to perform. Whether they connect, convey, or cover, our products play essential roles across industries and applications."

Consistent with Continental's global manufacturing approach of building "in the region, for the region," the Aguascalientes facility will serve regional markets with products engineered and produced locally to meet the specific demands of regional customers. Nelles added, "Innovation has been at our core from the very beginning, and this new plant demonstrates our ongoing commitment to delivering smarter, faster, and more resilient solutions. By expanding our manufacturing footprint in the Americas, we are not only strengthening supply chain resilience and reducing lead times, but we are also reinforcing our role as a trusted, responsive partner for our customers throughout the region."

"*We are ready to lead in this segment. This new plant reflects our commitment to both innovation and proximity,*" said Andreas Gerstenberger, CEO of ContiTech USA and Head of Business Area Industrial Solutions Americas. "With our customers increasingly looking for responsive and innovative solutions, we are proud to deliver with local production, advanced technology, and a skilled workforce. More than just expanding our footprint, this investment is about creating mutual value with our customers, partnering closely to help them succeed in their own markets. By placing customer needs at the center of everything we do, we aim to be their first choice for material-driven solutions, now and in the future."

The Aguascalientes plant will work in close alignment with ContiTech's existing manufacturing facility in Norfolk, Nebraska, offering production flexibility, increased responsiveness and operational efficiency. Together, the two locations will help ContiTech meet the ever-changing needs of customers by balancing volume, technology, and lead time across a coordinated regional network. The plant opening reinforces ContiTech's long-term focus on growth in key markets through investment in local infrastructure, talent and technology. The company plans to ramp up production gradually, with customer deliveries expected to begin in Q4 2025.

WACKER presents resource-saving liquid silicone rubber for food applications

WACKER has developed a series of temper-free liquid silicone rubber grades that are particularly suitable for food and sensitive applications. One of these new grades is a biomethanol-based variant. Molded parts made from ELASTOSIL® eco LR 5003 are resource-saving and meet the guidelines for food contact products even without thermal post-treatment. Lifestyle products, drinking straws, baking tins, dough scrapers and other items can be produced very efficiently and in large quantities with the new grade. The silicone rubber will be showcased at the K 2025 trade fair for plastics and rubber, which takes place in Düsseldorf, Germany, from October 8 to 15. In Hall 6, Stand A10, WACKER will use the material to produce mouthpieces for innovative water bottles.

The key to air up® water bottles is the innovative mouthpiece made of silicone rubber from WACKER. At its booth at the K 2025 International Trade Fair for Plastics and Rubber, the Group will demonstrate live how ELASTOSIL® eco LR 5003 is used to manufacture the component. (Photo: WACKER)

Drinking bottles designed by air up®, a Munich-based company, are equipped with a special flavor pod that creates a sensory perception. It transforms plain drinking water into different flavors – without any sugar or other additives. The ring-shaped flavor pod is attached to the mouthpiece of the bottle which supports the unique drinking experience known as retronasal perception.

At the K 2025 trade show, WACKER will use its ELASTOSIL® eco LR 5003 grade to demonstrate the production of the mouthpiece. The non-postcure liquid silicone rubber is particularly suitable for large-scale manufacture of products in the food industry and other sensitive areas. As far as their volatiles content is concerned, molded parts made from such silicones comply with the limits stipulated by the German Federal Institute for Risk Assessment (BfR) even without postcuring. They also meet the requirements of the U.S. Food and Drug Administration (FDA) for food contact products. As a result, production of mouthpieces for air up® bottles as well as drinking straws, baking tins, dough scrapers and other items is made very efficient. ELASTOSIL® eco LR 5003 may be additionally postcured in order to achieve even greater strengths.

ELASTOSIL® eco silicone rubber grades are produced in a resource-efficient manner and stem from plant-based methanol derived from non-fossil sources. The production is certified in accordance with the REDcert2 standard, thereby ensuring the traceability of renewable raw materials along the entire production process.

Drink water, let the aroma pod take care of the flavor: water bottles from air up® are popular among young and old alike. The aroma pod is fitted on top of the mouthpiece before use. It is designed to encourage people to drink more water. (Photo: WACKER)

Short supply chains "made in Europe"

Together with its project partners, WACKER will also demonstrate a special supply chain: the entire production of the air up® bottles takes place within a radius of 140 km. Production is carried out with a four-cavity mold using cold runner nozzle technology.

WACKER produces the silicones needed for the mouthpiece in Burghausen, Germany; RICO manufactures the mouthpieces and tools in Thalheim/Wels, Austria; and Greiner AG in Kremsmünster, Austria, takes care of the final assembly. Apart from promoting sustainability and guaranteeing a high level of quality, this partnership offers all the advantages of a short, stable supply chain. Indeed a conscious decision by air up®, considering that it focuses on marketing its products across the globe – including on social media and with the participation of well-known influencers.

Visit WACKER at K 2025 in Hall 6, Booth A10, from October 8 to 15.

LANXESS
Energizing Chemistry

Lanxess implements strategic measures to navigate weak market conditions

LANXESS has announced a series of decisive actions to counteract a challenging global market environment that has significantly impacted its financial performance in the second quarter of 2025.

The company reported a 12.6% decline in sales year-over-year, totaling €1.47 billion, while EBITDA pre exceptionals fell by 17.1% to €150 million. These results reflect subdued demand across all business segments, reduced sales volumes, and the divestment of its Urethane Systems business unit, which was sold to Japan's UBE Corporation in April. This sale marks the final step in LANXESS's strategic exit from the polymer sector, reinforcing its focus on specialty chemicals.

Despite the downturn, LANXESS managed to generate a positive free cash flow of €31 million and reduced its net financial debt by 18%, aided by proceeds from the Urethane Systems sale, which were used to redeem a €500 million bond.

CEO Matthias Zachert emphasized the company's readiness for future recovery, stating, "We remain fully focused on achieving the best possible positioning. When the economy picks up again, we will be ready."

In light of continued market weakness and geopolitical uncertainties, including potential U.S. tariffs, LANXESS has revised its full-year EBITDA guidance to between €520 million and €580 million, down from the previous forecast of €600 million to €650 million.

To improve efficiency and reduce costs, LANXESS is optimizing its global production network. The company has accelerated the closure of its hexane oxidation facility in Krefeld-Uerdingen and plans to shut down its Widnes aroma chemicals site in the UK by 2026. Additionally, efficiency upgrades at the El Dorado bromine site in the U.S. are expected to yield annual savings of €50 million by the end of 2027.

Segment performance varied: the Consumer Protection division saw a decline in sales but an 8.8% increase in EBITDA due to a stronger product mix and cost savings. Meanwhile, Specialty Additives and Advanced Intermediates experienced drops in both sales and earnings, driven by weak demand and higher energy costs.

Kuwait Turns Tire Waste into Economic Opportunity

Kuwait is rolling out a major initiative to turn its vast stockpiles of waste tyres from an environmental burden into an engine of economic growth. Millions of used tyres are being moved from dumpsites like Rahiya to specialised recycling plants, with plans underway to expand capacity in Salmi.

Currently, three facilities are in operation, but with nearly two million tyres discarded annually, new factories are needed to meet demand. The government sees strong economic potential, inspired by international models where tyre recycling generates billions.

Recycled materials will serve local industries in road construction, sports flooring, insulation, and fuel. At a recent meeting chaired by Prime Minister Sheikh Ahmad Al-Abdullah Al-Sabah, officials stressed the twin goals of protecting the environment and creating fresh investment and job opportunities.

Safic-Alcan continues its expansion in Asia Pacific with the acquisition of Ingredients Plus in Malaysia and Singapore

Safic-Alcan, a major distributor of specialty chemicals, announces that it has acquired Ingredients Plus, a leading specialty chemicals distributor with a strong historical presence in personal care, in Malaysia and Singapore.

Created in 2007 and 2010, respectively, the Malaysian and Singaporean entities were established by Mr. Graeme Love and Mr. Chai Sien Theng. Headquartered in Shah Alam, Selangor, the company promotes ingredients for personal and home care, as well as coatings, rubber latex and industrial applications, food and flavor & fragrance.

Following our expansion into India about 6 months ago, it shows our commitment to further investing in the region. While Safic-Alcan has had a modest presence in Malaysia since 2012, joining forces with Ingredients Plus will create an even stronger platform to capture future growth in the region.

“Ingredients Plus has exceptional technical capabilities, boasting 3 labs for personal care, coatings and fragrances, making it a very strong match for the Safic-Alcan culture. We look forward to onboarding Chai and his team into our company” added Laurent Natal, Managing Director of Mergers and Acquisitions.

“*We are very proud to be joining the Safic-Alcan family. Their international network, technical focus, and entrepreneurial mindset make them a natural fit. We are excited about the new opportunities this will bring to our partners and customers across the region*” said Mr. Chai Sien Theng, co-founder of Ingredients Plus.

Ingredients Plus is a leading distributor of raw materials for the Personal and Home Care, Industrial and Institutional Cleaning, Coatings and lnl‹s, Rubber latex, Food ingredients and Pharmaceutical in the Asia Pacific Region. Established in 2005 in Sydney, Australia, the company has experienced significant growth. The success of the Ingredients Plus Group, derives from its fostering of long-term relationships with its Customers and Principals underpinned by a passion and commitment to delivering a high quality service for all its stakeholders.

NEXEN TIRE Introduces Cutting-Edge High Dynamic Driving Simulator to Accelerate Tire Development

NEXEN TIRE, a leading global tire manufacturer, today announced that it has established a state-of-the-art High Dynamic Driving Simulator at its central research institute, THE NEXEN UniverCity, in Magok, Seoul, and held an opening ceremony to mark its official launch. This is the first time a High Dynamic Driving Simulator has been introduced in the Korean tire industry and represents a key turning point in advancing tire research and development with VR and AI technologies.

The High Dynamic Driving Simulator is an advanced system that simulates real-world conditions in a virtual environment. By applying vehicle specifications and parameters as if operating on actual roads, the system enables testing of acceleration, steering response, braking, and other performance metrics in a variety of driving conditions.

With the adoption of this simulator, NEXEN TIRE expects to minimize unnecessary trial-and-error, reduce prototype production and real vehicle testing, and accelerate innovation while cutting costs. By replacing costly and time-intensive physical road tests with virtual evaluations, engineers can conduct more precise tire development within limited space and in various conditions.

The simulator will also allow NEXEN TIRE to more swiftly and accurately meet original equipment (OE) performance requirements from global automakers. In particular, it is expected to strengthen collaboration in developing tires for new concept and high-performance vehicles. Furthermore, reduced reliance on prototypes and physical testing will contribute to lowering fossil fuel use and support the company's ESG commitments.

Global automakers are rapidly transitioning to virtual development processes to shorten development cycles and improve cost efficiency. Major European premium brands already apply driving simulators in their virtual test and development (VTD) processes, while Korean automakers are also advancing their virtual vehicle development capabilities. Industry experts forecast that most leading automakers will soon institutionalize virtual development processes and significantly reduce the frequency of physical tests.

Building on this milestone, NEXEN TIRE plans to gradually establish a Full Virtual Development Process that integrates finite element method (FEM) analysis and AI technologies, with the long-term goal of replacing all tests with simulation-based validation.

“Ahead of the industry trend toward virtual development of vehicles and tires, the establishment of our High Dynamic Driving Simulator is a strategic investment to lead the future mobility sector,” said John Bosco (Hyeon Suk) Kim, CEO of NEXEN TIRE. “By combining VR and AI technologies, we will enhance both the efficiency and precision of our R&D while contributing to ESG management, thereby strengthening our global competitiveness.”

Sand Stone Tire Launches Saudi Arabia's First High-Tech Tire Plant in Yanbu

Sand Stone Tire, under the leadership of Saudi Green Sea Co., is establishing a state-of-the-art tire manufacturing plant in Yanbu Industrial City—the first of its kind under a Saudi brand. Spread across 362,000 m² and backed by an investment exceeding SAR 5.5 million, this project represents a landmark industrial development for the Kingdom. Construction is set to commence in 2025, with a 30-month timeline leading to production by the end of 2028.

At full capacity, the Yanbu facility will produce up to 5 million tires annually, catering to a diverse range of applications. This includes 2.5 million tires for passenger and medium vehicles, 2.5 million for military and heavy-duty vehicles, and 500,000 tires designed for electric vehicles (EVs). Additionally, the plant will manufacture around 150,000 specialized tires for warplanes and small aircraft. Looking ahead, the company has plans to expand production even further, with the potential to add nearly 3 million additional units per year.

The project is being developed in strategic partnership with leading Chinese technology experts, ensuring the transfer of proven expertise and cutting-edge processes into Saudi Arabia. This collaboration is central to enhancing technological innovation and operational efficiency, while also positioning Sand Stone Tire as a benchmark for quality and performance in the regional market.

Aligned closely with Saudi Arabia's Vision 2030, this venture is designed to reduce dependence on imported tires, boost domestic manufacturing capabilities, and create sustainable employment opportunities. Beyond meeting local market needs, the project strengthens supply chain resilience, contributes to economic diversification, and paves the way for Saudi Arabia to emerge as a key tire production hub in the Middle East.

AUTOMATIC WEIGHING SYSTEMS

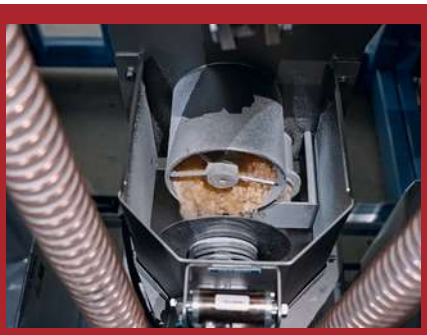
LAWER®
dosing & dispensing systems

SUPERSINCRO

Lawer S.p.A. Cossato (Biella) Italy | **sales@lawer.com** | **www.lawer.com**

LAWER®

Automatic weighing systems



ACCURACY

REPEATABILITY

TRACEABILITY

MONETARY SAVINGS

Lawer S.p.A. - Cossato (Biella) Italy
sales@lawer.com | www.lawer.com

RUBBER & TYRE EVENT

TechnoBiz

RUBBER BONDING CONFERENCE

8 NOVEMBER 2025

PUNE, INDIA

All about Rubber Bonding

https://conference.technobiz.org

TechnoBiz

EPDM CONFERENCE

22 SEPT 2025

CHENNAI, INDIA

GREEN PARK HOTEL

HYBRID EVENT

peram.technobiz@gmail.com

https://conference.technobiz.org

TechnoBiz

EPDM CONFERENCE

HYBRID EVENT

22 SEPT 2025

CHENNAI, INDIA

GREEN PARK HOTEL

https://conference.technobiz.org

PROGRAM AGENDA

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

TechnoBiz

EPDM CONFERENCE

HYBRID EVENT

22 SEPT 2025

CHENNAI, INDIA

GREEN PARK HOTEL

https://conference.technobiz.org

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

INVITED SPEAKERS

Dr. P. Thavamani

Binu Thankappan

Prof. Kinsuk Naskar

Karthik Raghupathy

Kalyan Das

Dr. Mohammed Saleem

Barkat Aziz

Dr. Siby Varghese

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

TechnoBiz

EPDM CONFERENCE

HYBRID EVENT

22 SEPT 2025

CHENNAI, INDIA

GREEN PARK HOTEL

https://conference.technobiz.org

DELEGATE REGISTRATION

Delegate Registration Form

Registration Fee / Person

In-Person Participation

Indian Delegates: Rs. 15,000

Overseas Delegates: US$ 300

Online Participation

Indian Delegates: Rs. 25,000

Overseas Delegates: US$ 500

Remarks:

- GST 18% applies on above fees
- Discount is Available for Group and Early-Bird Registrations
- Delegate Registration Fee subjected to increase one week before schedule

SPONSOR REGISTRATION

Sponsor Registration Form

Sponsorship Options

Option 1: Corporate Sponsor (Rs. 100,000 | US$ 1500)

- Recognition as a Sponsor in all signage / promotional materials
- Display of Company Brochures at Display Zone
- 5 Delegate Passes - Complimentary
- Table-Top Booth in the Conference Area
- Full Page Advert in the "Rubber Review" E-Magazine for 2 Months
- Social Media Promotion of Company Advert & Videos
- 30% OFF on the Registration Fee for Additional Delegates

Option 2 : Supporter (Rs. 50,000 | US$ 1000)

- Recognition as a Supporter in all signage / promotional materials
- Display of Company Brochures at Display Zone
- 2 Delegate Passes - Complimentary
- Social Media Promotion of Company Advert & Videos

Remarks: GST 18% applies on above fees

PKR CONSULTANTS

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

Training Course | Hybrid Event

TechnoBiz

EPDM Seals : Process Troubleshooting

23 September 2025, CHENNAI

GREEN PARK HOTEL | 10am-5pm

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

Course Content

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

Course Instructor

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

Registration Fee / Person

In-Person Participation

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

Online Participation

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

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

PKR CONSULTANTS

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

Delegate Registration

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

Contact Information
Peram Prasada Rao, TechnoBiz
Email : peram.technobiz@gmail.com
WhatsApp: +66-89 489 0525 /+91-6300 544 718
Web: https://training.technobiz.org

CHINA PETROLEUM & CHEMICAL INDUSTRY WEEK
SHANGHAI

ufi Approved International Event

RubberTech China 2025
September 17-18-19

The 23rd International Exhibition on Rubber Technology

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

visitor registration

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

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

Organizer
ufi 中联橡胶股份有限公司 CHINA UNITED RUBBER CORPORATION

Global Partner
RIA 中国橡胶工业协会 China Rubber Industry Association

Sponsors
MESNAC 恒力橡塑 HENGLI Actmix

SHANGHAI · CHINA
www.rubbertech-expo.com

GRTE

7TH Global Rubber Latex & Tyre Expo

10-12 MARCH 2027

BANGKOK, THAILAND

HALL 100, BITEC

The *Gateway*
to Global Markets & Knowledge-Hub
for Rubber, Latex & Tyre Industries

TechnoBiz

中联橡胶股份有限公司
CHINA UNITED RUBBER CORPORATION




To book a booth, Please contact : Peram Prasada Rao, TechnoBiz
Email: peram.technobiz@gmail.com | Tel/WhatsApp: +66-89-489 0525

IRC 2025
BANGKOK, THAILAND

1-3 DEC 2025
BITEC - BANGKOK

International Rubber Conference

สมาคมโพลิเมอร์แห่งประเทศไทย
POLYMER SOCIETY OF THAILAND

IRC
International Rubber Conference Organisation

WWW.IRC2025.COM

Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

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

WWW.IRC2025.COM

IRC 2025
BANGKOK, THAILAND

1-3 DEC 2025 | BITEC- BANGKOK
International Rubber Conference

WWW.IRC2025.COM

Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

ORGANIZERS

IRC International Rubber Conference Organisation

POLYMER SOCIETY OF THAILAND

CO-ORGANIZERS

MTEC a member of NSTDA

FTI Rubber Industry Club

NRGT

HUB NR HUB OF TALENTS IN NATURAL RUBBER

TechnoBiz

PLATINUM SPONSOR

MTEC a member of NSTDA

GOLD SPONSOR

SUMITOMO RUBBER INDUSTRIES

SILVER SPONSOR

struktol®

BRONZE SPONSOR

OTANI DRIVING CONFIDENCE

KOKOKU INNOVATIVE TECHNOLOGY Ltd.

SAENG THAI RUBBER
บริษัท แสงไทยผลิตยาง จำกัด

SUPPORTER

bm BEHN MEYER Since 1840

SINGHA CORPORATION

IRC 2025
BANGKOK, THAILAND

1-3 DEC 2025 | BITEC- BANGKOK
International Rubber Conference

WWW.IRC2025.COM

Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

CONFERENCE FOCUS

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

KEY ACTIVITIES

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

VENUE

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

CHAIRMAN

Dr. Krisda Suchiva

PROGRAM SCHEDULE

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

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

IRC 2025
BANGKOK, THAILAND

1-3 DEC 2025 | BITEC- BANGKOK

International Rubber Conference

International Rubber Conference Organisation

WWW.IRC2025.COM















































IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

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*

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*
- **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*

IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

Invited Presentations

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

Natural Rubber Symposium

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

Delegate Registration

Sponsor Registration

Exhibitor Registration

Contact Info

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

IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

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*

IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

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*

IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

IRC International Rubber Conference Organisation

WWW.IRC2025.COM

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*

IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

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*

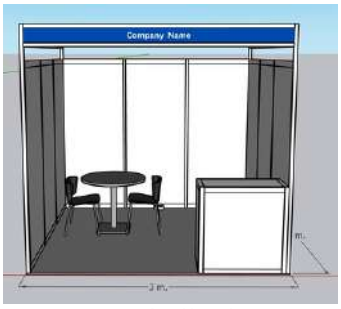
IRC 2025
BANGKOK, THAILAND
International Rubber Conference

1-3 DEC 2025 | BITEC - BANGKOK

International Rubber Conference Organisation

WWW.IRC2025.COM

Trade Exhibition



9 SQM ShellScheme
Booth: 2800 US$

4 SQM ShellScheme
Booth: 1500 US$

Exhibitor Profile

Global Manufacturers & Suppliers of

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

Participating Exhibitors

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

Booth Booking Form

Limited space is available.
First come first serve

สมาคมโพลิเมอร์แห่งประเทศไทย
POLYMER SOCIETY OF THAILAND

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

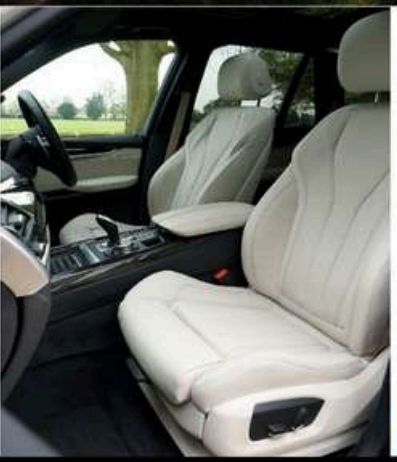
International Rubber Conference Organisation

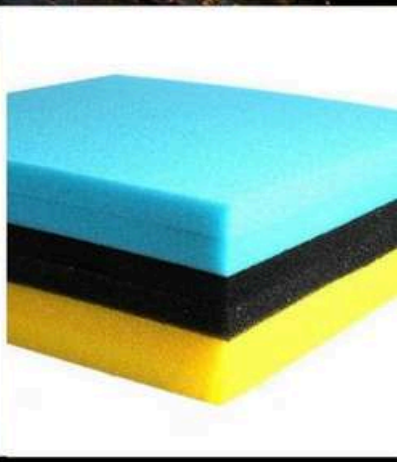
ASIA POLYURETHANE & ADHESIVE EXPO

30-31 MARCH 2026, KUALA LUMPUR

Putra World Trade Centre

A TechnoBiz Trade Exhibition for Polyurethane & Adhesive Companies in Asia





https://expo.technobiz.org

Edition #3 | Hybrid Event

TechnoBiz

RUBBER WEEK

A TechnoBiz Executive Forum
on Rubber Industry and Technology

1-4 SEPTEMBER 2025
BOGOR, INDONESIA
SWISS-BELHOTEL

In Partnership with

Perkebunan Nusantara

RISET PERKEBUNAN NUSANTARA INNOVATOR

PT. Riset Perkebunan Nusantara

Supported by

Danantara Indonesia

Speaker Spotlight

Agus Sarsito

Dr. Tri Utomo Wiganarto

Dr. Kannika Sahakaro

Dr. Nadras Othman

Dr. Dody Andi Winarto

Dr. Lydia Anggraini

Dr. Laksmi Dewi Kasmiarno

Ismail Saleh

Dr. Ahmad Basshofi Habieb

Ahmad Hidayat

Mardani Nugraha

Dr. Mochamad Chalid

Dr. Mili Purbaya

Baharuddin Salim

Contact Information: *Dr. Irfan Fathurrohman* (Email: irfanirri@gmail.com | Tel: +62-812 1702 527)
Peram Prasada Rao (Email: peram.technobiz@gmail.com | Tel: +66-89 489 0525)

Edition #3 | Hybrid Event

TechnoBiz

RUBBER WEEK

A TechnoBiz Executive Forum
on Rubber Technology and Industry

1-4 SEPTEMBER 2025
BOGOR, INDONESIA
SWISS-BELHOTEL

In Partnership with

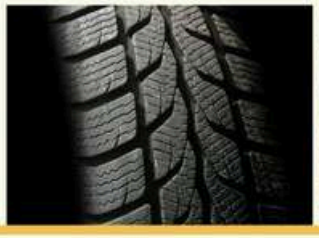
Perkebunan Nusantara

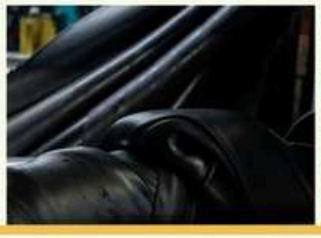
RISET PERKEBUNAN NUSANTARA INNOVATOR

PT. Riset Perkebunan Nusantara

Supported by

Danantara Indonesia




Training Course

Rubber Reinforcement with Silica

Schedule: 1 Sept 2025 (9am-5pm)

Venue: Swiss-BelHotel, Bogor, Indonesia

Trainer: Dr. Kannika Sahakaro**,** Associate Professor, Prince of Songkla University, Thailand

Program Content

- Introduction to Rubber Reinforcement
- Mixing of Silica and Silane Coupling Agent into Rubber
- Compound Formulation Design for Silica-Reinforced Rubber
- Advancements in Silica–Silane Technology for Rubber Applications

Who Should Attend?

Rubber & Tyre Technologists, Chemists, Compounding Team, Technical Management Team





To Register, Please Contact

Dr. Irfan Fathurrohman (Email: irfanirri@gmail.com | Tel: +62-812 1702 527)
Peram Prasada Rao (Email: peram.technobiz@gmail.com | Tel: +66-89 489 0525)

https://conference.technobiz.org

A Customised Program for Every Participant

Universal .. Unique .. Online .. Industry Oriented

AVAILABLE PROGRAMS

Rubber Industry - Technology & Management
Time Length: 3 Months to 12 Months

Rubber Compound - Technology & Management
Time Length: 2 Months to 12 Months

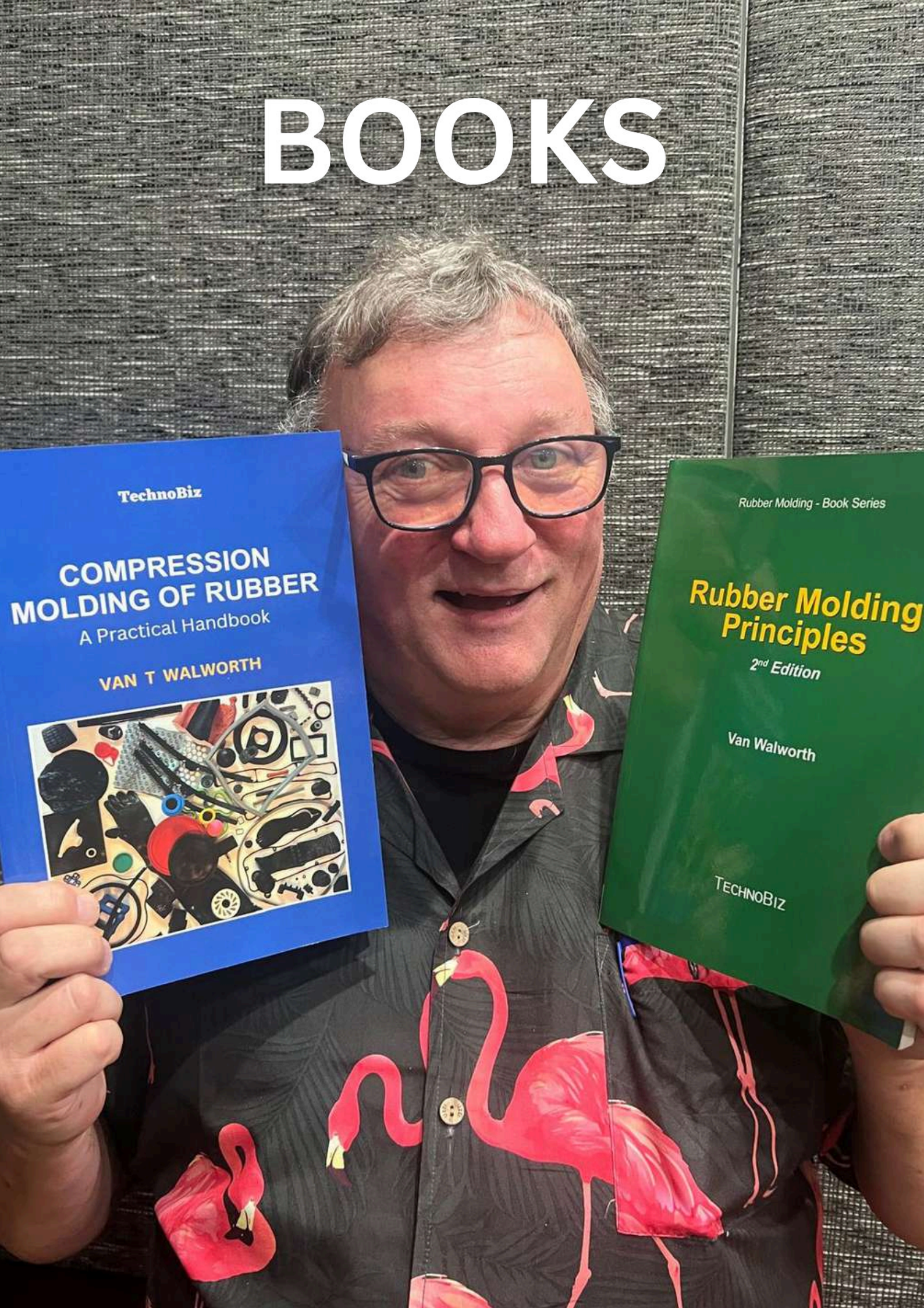
Who can Apply?
Professionals with a minimum of 3 years experience in the rubber industry | Candidate must be currently working in the rubber company and must complete the TechnoBiz Pre-Assessment Test with a score of min. 60% | Candidate must be sponsored by the company | Company can nominate only one person per year

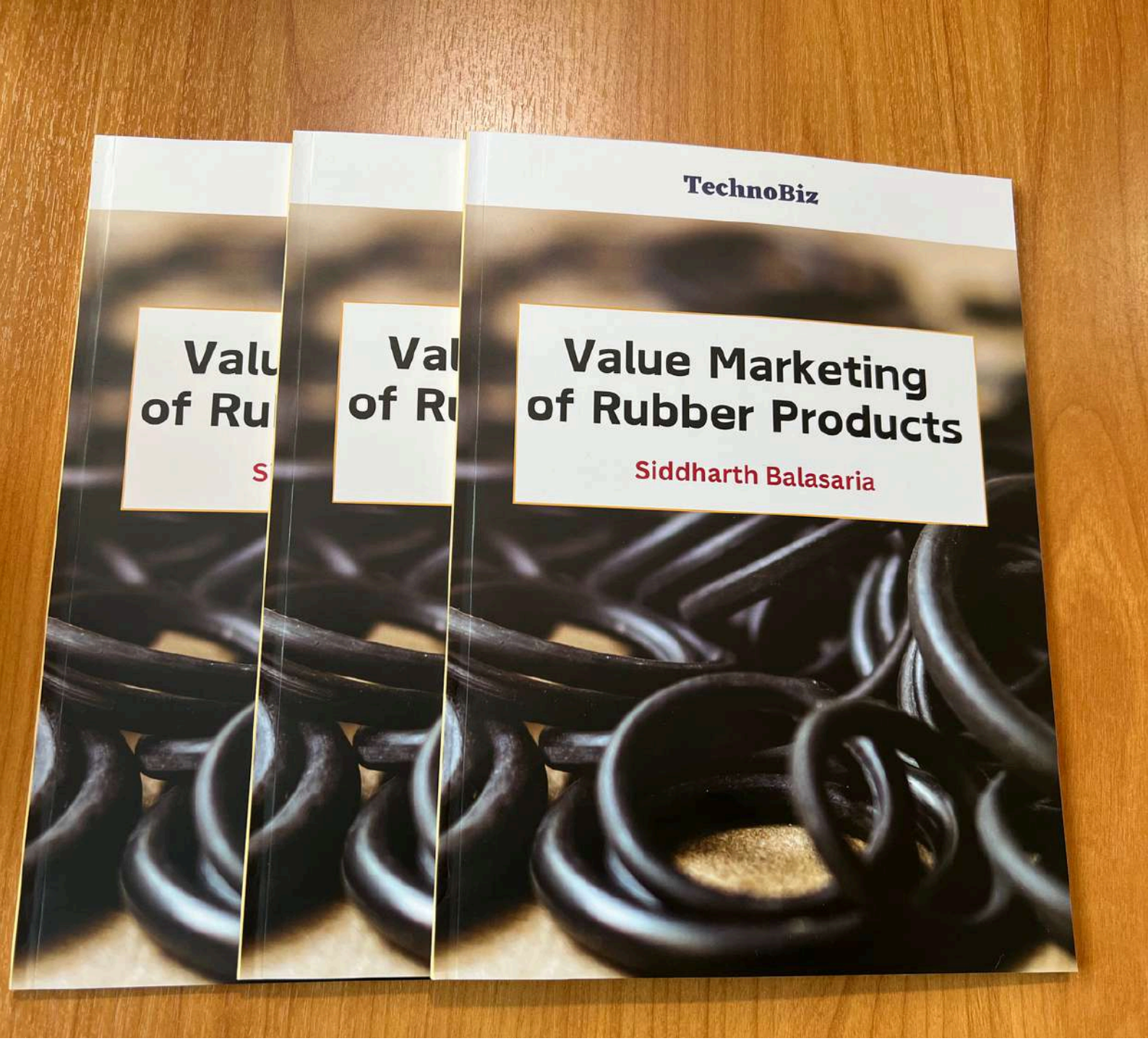
Registration Fee Discounts
Candidates who score over 85% in the TechnoBiz Pre-Assessment Test will receive 50% off on the registration fee.

A Unique Program designed for Rubber Industry Overall Performance Improvement

To apply, please contact
Peram Prasada Rao
Program Director
E: peram.technobiz@gmail.com
WhatsApp: +66-89-489 0525

BOOKS


TechnoBiz
COMPRESSION MOLDING OF RUBBER
A Practical Handbook
VAN T WALWORTH
Rubber Molding - Book Series
Rubber Molding Principles
2nd Edition
Van Walworth
TECHNOBIZ



TechnoBiz
STORE

How to Order? https://store.technobiz.org

Compression Molding of Rubber
A Practical Guide

Author : Van Walworth | **Pages** : 180 | Soft Bound
ISBN : 978-616-92264-44 | **Publisher** : TechnoBiz | Year : 2024
Book Price : 159 US$ + Shipping

AVAILABLE NOW

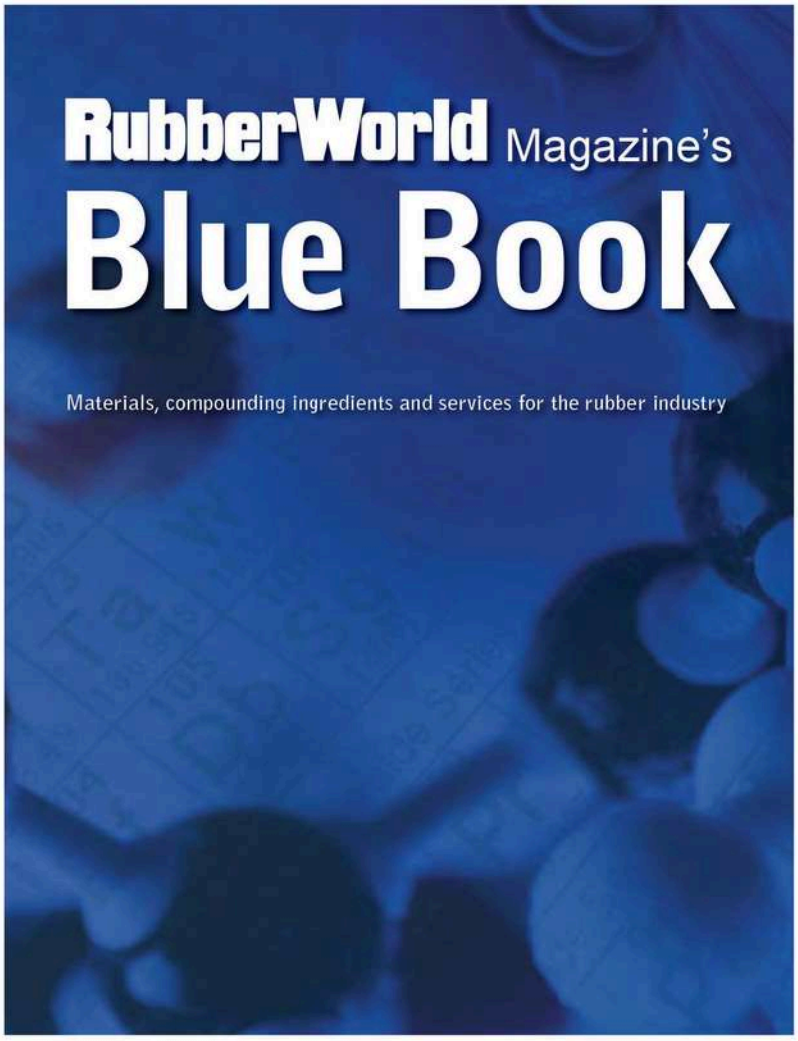
Book Contents

Order Form

Contact : Peram Prasada Rao
E: peram.technobiz@gmail.com
Tel/WhatsApp: +66-89-489 0525
Web: https://store.technobiz.org

RubberWorld

PRINT EDITION AND ONLINE
Long regarded as the industry's single most important reference for technical information, the Blue Book contains detailed information on every raw material used by the rubber industry-including chemical additives, extenders, elastomers and latexes, fillers and reinforcing materials, carbon black and coloring materials, to name a few.



The latest, most current information on more than 10,000 materials and ingredients is listed. And, to help you locate the best materials at the lowest possible cost, more ingredients are listed by chemical name as well as trade name.

Additionally, services for the rubber industry included in the Blue Book:

- Custom Mixing and Services directory
- Independent Testing Laboratories
- Instrumentation and Testing Equipment Suppliers
- Material and Ingredient Suppliers

We will again be producing a limited number of the 121st print edition, so to guarantee your copy, please visit our website or call 330.864.2122

ORDER NOW

For the Fastest and Easiest Ordering use our secure website:
www.rubberworld.com/bookstore
Or call 330-864-2122

ORDER NOW

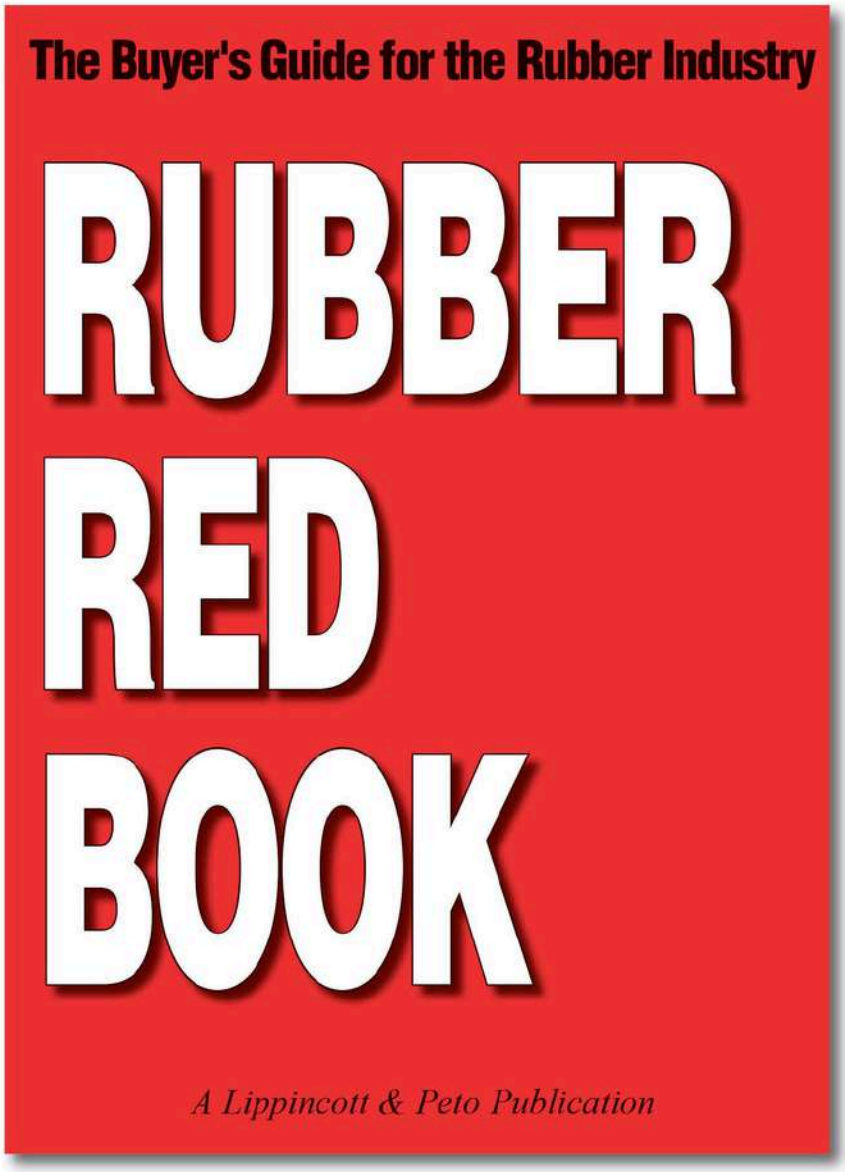
From RUBBER WORLD

RUBBER RED BOOK, The industry's oldest and most comprehensive buyers guide has served the industry for over 60 years with industry professionals relying on it to locate a wealth of sources and services when making important purchasing decisions.

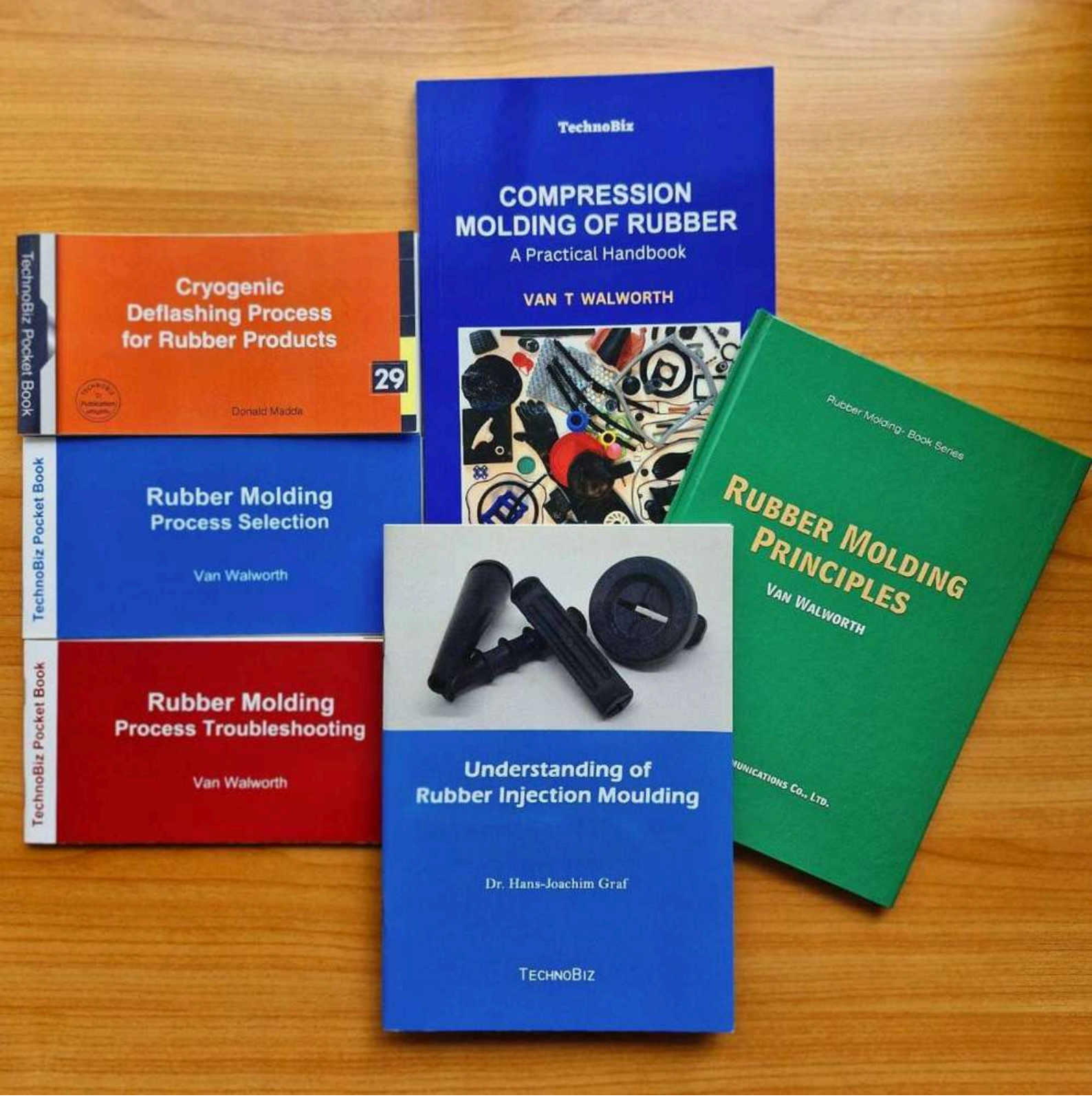
RUBBER RED BOOK is a must for industry professionals who need comprehensive up-to-date purchasing information on the many products and services available to the rubber industry.

- Rubber Machinery & Equipment
- Laboratory & Testing Equipment
- Accessories and Fittings
- Rubber Reclaimers & Recyclers
- Rubber Chemicals & Compounding Materials
- Synthetic Rubber
- Fabrics and Textiles
- Latex and Related Materials
- Educational Courses in Rubber Chemistry and Technology
- Technical and Trade Journals

RUBBER RED BOOK listings for more than 1,200 rubber product manufacturers grouped by location and products.



Order the RUBBER RED BOOK from our online bookstore at:
www.rubberworld.com/bookstore
or call 330.864.2122



Rubber Molding 6-Books Pack

TechnoBiz STORE

How to Order? https://store.technobiz.org

RubberWorld 136 years

FREE Digital Subscription to Rubber World Magazine

Rubber World Magazine, first published in October 1889, has chronicled the events and technological changes in the rubber industry since its inception. Now, over one hundred and thirty years later, Rubber World is published twelve times a year providing the most up-to-date technical service information available to today's rubber chemists and formulators. It gives research and development personnel the most current technical know-how and provides plant engineering personnel with the latest equipment and production technology to produce the high-quality and high performance products demanded by today's industry.

RW 136 years Rubber World

Subscribe for FREE at https://bit.ly/3Iy9Lk2
or use the QR code above.

Double A Plus Intertrade Co., Ltd.

We mainly supply on high quality of products in order to meet customer's requirements.
We are a leading chemicals importer and distributor to supply latex industry.

HELPING TO SHAPE THE LATEX INDUSTRY THROUGH TECHNOLOGY

SI Group
The Substance Inside

SI Group

- LOWINOX® CPL : Highly effective,polymeric, non-discoloring phenolic antioxidant.
- HEPTEEN BASE® : It is widely used in molded and steam cured natural rubber and pure gum compounds.
- TRIMENE BASE® : It is a latex foam stabilizer which prevents foam collapse by causing gelling to take place at a higher pH

UNIBOND

Unibond

- BUTAZATE® : Zinc Dibutyl Dithiocarbamate. (ZDBC)
- ETHAZATE® : Zinc Diethyl Dithiocarbamate. (ZDEC)
- OXAF® : Zinc-2- Mercaptobenzothiazole. (ZMBT)
- TUEX® : Tetramethyl Thiuram Disulfide. (TMTD)
- DPG® : Diphenyl Guanidine. (DPG)
- BENTAZATE® : Zinc Dibenzyl Dithiocarbamate. (ZBEC)

CLARIANT

Clariant

- EMULSOGEN LAT : Surfactant for rubber latex. Good wetting properties & less foaming performance

DAP : Diammoniumphosphate

392 Anamaingamcharoen Road,
Thakham, Bangkhuntian, Bangkok 10150 Thailand
Tel: +662 451 9678 Fax: +662 117 3394
Email : info@aachemical.com | erawan@aachemical.com

www.aachemical.com


Join the Journey of TechnoBiz
TechnoBiz