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Marinela Crisan

Technical Marketing Manager, UPM Biochemicals, Germany
Founder, My Rubber Heart - YouTube Channel

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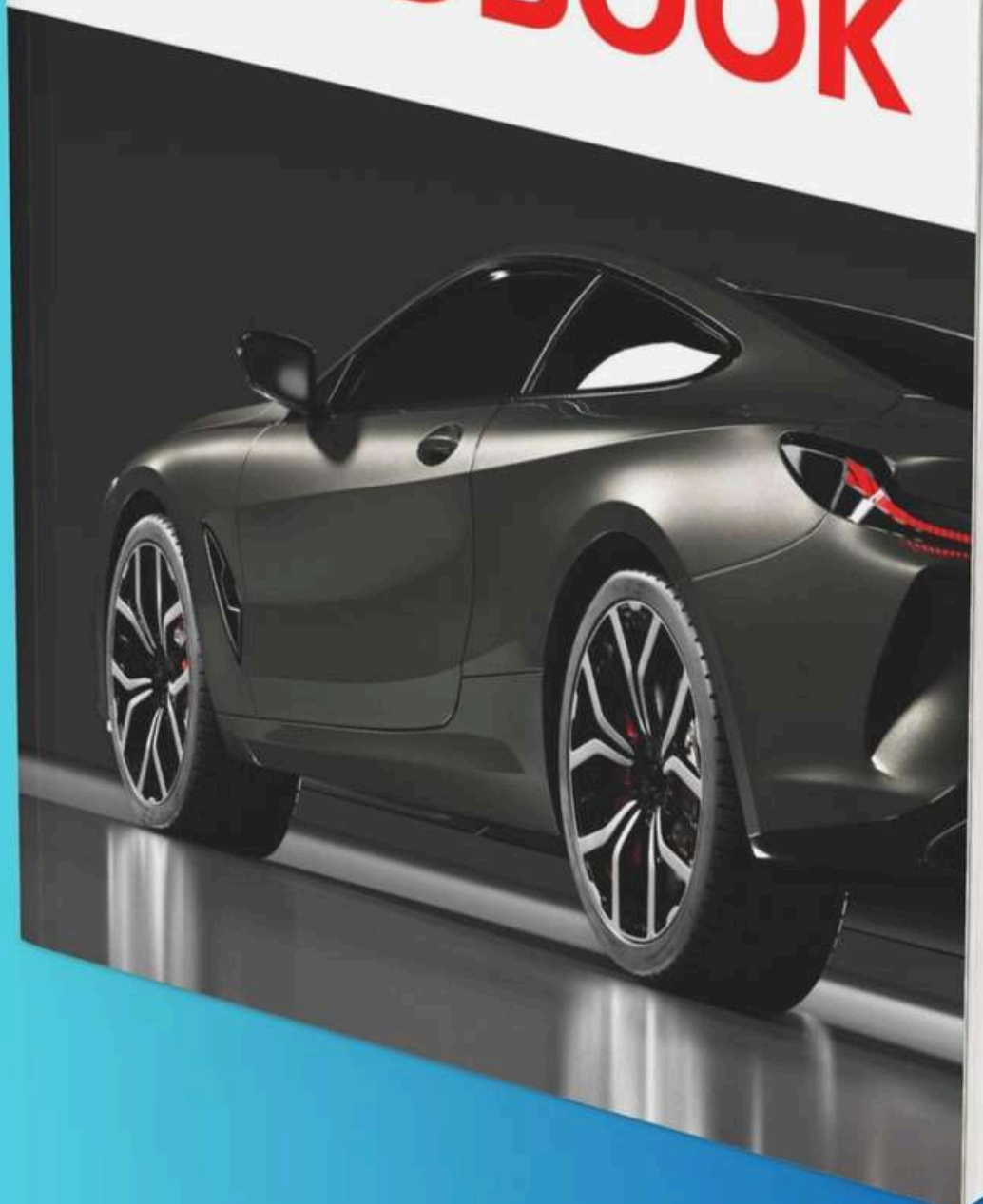

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COVER STORY

Conversation with ***Marinela Crisan***

Technical Marketing Manager
UPM Biochemicals, Germany
Founder, My Rubber Heart - YouTube Channel

Few professionals in the rubber and polymer industry embody the blend of technical expertise, market insight, and sustainability advocacy as seamlessly as Marinela Crisan. With a career path that has taken her from hands-on laboratory work in Italy to R&D leadership in Germany, and now to a global technical marketing role at UPM Biochemicals, Marinela has consistently pushed the boundaries of what's possible in rubber compounding and functional filler technology. Her work spans the development of advanced elastomer formulations, process optimization, and the introduction of renewable materials designed to meet the twin demands of performance and environmental responsibility.

Beyond her corporate achievements, Marinela is a passionate educator and communicator. Through her YouTube channel, My Rubber Heart, she translates complex technical concepts into accessible knowledge for industry professionals, students, and enthusiasts around the world. This commitment to sharing expertise reflects her belief that the future of the rubber industry will be shaped not just by innovation in materials, but also by the collaboration and informed decisions of the people within it.

In this exclusive Rubber Review cover story, Marinela opens up about her professional journey, the lessons she has learned from working across continents, her perspective on the most exciting developments in the industry, and her vision for a more sustainable and innovative future in rubber. Her insights offer both a technical deep dive and a personal reflection — making this an interview not to be missed.

Early Career and Personal Journey

Can you tell us about your journey into the rubber industry? What initially drew you to this field?

I didn't specifically choose the rubber industry, it was more of a fortunate accident. After completing my bachelor's degree, I moved to Italy in search of a practical laboratory role. That's how I found my first job as a lab technician at a company producing rubber-coated fabrics. That experience introduced me to the world of rubber and showed me just how fascinating and versatile these materials are. What began as a job quickly turned into a passion, and from there my career in rubber truly took shape.

You've worked in several countries and with global companies — how has this international exposure shaped your professional approach?

Working across different countries has made me much more adaptable and, at the same time, painfully aware of how different work cultures really are. I learned that communication isn't just about language, it's about meaning. The same words can mean very different things in different cultures, and being able to "translate" between those perspectives is a skill I'm still developing and refining.

This experience also taught me how easily we can all be misunderstood. That realization has made me approach people with more patience and curiosity. Instead of assuming, I try to listen carefully and bridge those gaps. It's not always easy, but it's one of the most valuable lessons I've taken from working internationally.

From quality control to R&D and technical marketing, your career spans diverse roles. Which transition was the most challenging, and why?

The most challenging transition for me was moving from practical work in the lab to a role that was mostly at a desk. I've always felt that I understand materials best when I can test them with my own hands and see their behavior directly. That hands-on connection makes everything clearer for me. Even today, I sometimes go back into the lab to run tests myself, because it's the most natural way for me to learn and make sense of new challenges. Adjusting to a role where that hands-on element wasn't part of the daily work was definitely the hardest shift.

What have been some of the most rewarding projects or milestones in your career so far?

One of the most rewarding milestones for me was also the most difficult, stepping out of the lab. It meant leaving my comfort zone, but it opened the door to a much richer experience. Suddenly I was able to interact with a diversity of people and a depth of knowledge that I would never have encountered if I had stayed only in the lab. I see this as a continuous gift, because my new role brought me into contact with people who know more than I do in their areas, and that gives me the chance to learn from them and grow alongside them.

"I didn't choose the rubber industry, it chose me. What began as a lab job turned into a passion and a lifelong journey of learning from people and cultures worldwide."


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What are the most critical factors to control in rubber compounding to ensure consistent product quality?

When people talk about consistency in rubber compounding, they often focus on equipment or curing systems, but the truth is the biggest source of variation is human error. If the wrong raw material is delivered, weighed incorrectly, or added in the wrong sequence, the compound is compromised before it even leaves the mixer. And it starts even earlier than that. Incoming materials need to be checked carefully, because if a supplier delivers the wrong grade, poor quality, or in the worst case a completely different material, the impact on quality and processing can be dramatic. Not every part of the production process is automated, which leaves room for mistakes that technology can't catch. If the wrong silo is used to load material into the knetter, or if the wrong oil line is connected, then the entire batch is at risk. These kinds of errors don't just waste material, they disrupt schedules, increase costs, and can even damage customer trust. That's why discipline, verification, and traceability at every step are just as important as the formulation itself. In rubber compounding, quality is built as much by people and processes as it is by chemistry.

How has the role of functional fillers evolved in recent years, and what challenges remain in their widespread adoption?

The role of functional fillers has grown significantly in recent years. Unlike non-functional fillers, which mainly act as extenders or cost reducers, functional fillers are designed to actively enhance properties such as reinforcement, thermal stability, or flame resistance. What's especially exciting right now is that the industry is shifting toward renewable and bio-based functional fillers. We are living through a reinvention of the industry, where performance and sustainability are no longer separate conversations but part of the same development path. These new materials bring fresh opportunities but also new challenges, from ensuring compatibility with different polymers to achieving consistent quality at industrial scale. Still, this is what makes the moment so dynamic, we're not only optimizing compounds, we're reshaping the material base of the rubber industry. It's a very exciting time, because the fillers we choose today will define not just how our products perform, but also how sustainable our industry becomes.

You've worked on both thermoplastic and elastomer compounds — how do the development challenges differ between these materials?

At first glance, thermoplastics and elastomers can look very similar, especially because they are often used in the same types of applications, like cable insulation or automotive parts, just under different working conditions. But once you step into the development side, you quickly realize how wildly different they really are. The differences show up not only in the compounding itself but also in everything upstream and downstream of it. For thermoplastics, you're dealing with melt processing, so the focus is on properties like flow behavior, crystallinity, and stabilizers. With elastomers, you add the whole complexity of crosslinking, which means curing systems, vulcanisation parameters and long-term durability. Even the equipment and testing setups that support each material can diverge completely, which makes development a constant balancing act. What I find most challenging, and also fascinating, is that while they can serve similar end-use functions, the paths to getting there are surprisingly different. It really forces you to think in two parallel ways, one about thermoplastic processability and the other about elastomer network chemistry, and then find where they overlap in performance.

When optimizing a rubber formulation for both performance and cost-effectiveness, what trade-offs are usually the hardest to balance?

One of the hardest trade-offs in rubber formulation is between cost and long-term performance. On paper, a cheaper version of the same chemical or a lower grade of a polymer might look almost identical to the higher-quality option. In the lab, the compound may even pass the usual tests and seem like a perfect cost-saving solution. But the risk is that these small differences can show up later as premature failures in the field, cracking, loss of properties, or reduced durability. And when that happens, the overall cost is far greater than the initial savings, because you're dealing with claims, replacements, and damaged trust. That's why these decisions are never straightforward. It's not just about the immediate price per kilo, it's about the total cost of ownership and the reputation of the product. The real challenge is convincing stakeholders that a short-term saving might come at the expense of long-term reliability, and that balance is something formulators always need to defend.

How do raw material variations affect long-term durability and mechanical properties of rubber products?

Raw material variations are among the silent saboteurs in rubber design. Even when a compound passes initial lab tests, subtle differences in polymer batches, filler quality, or additive purity can gradually undermine durability. For example, if a filler batch arrives with slightly different surface chemistry or a polymer's molecular weight distribution changes from one shipment to the next, those differences might not show up immediately. But over time, they can lead to uneven aging, reduced elongation, or unexpected cracks under real-world conditions. It's a bit like a hidden flaw that only becomes visible after months or years of service.

To guard against this, a formulation engineer must include margin, treat raw materials as evolving parameters, not rigid constants. Incoming verification, accelerated aging tests, and batch-to-batch tracking become essential. Even then, there's always residual risk, which is why field feedback and continuous improvement must be part of any serious product plan.

What are the most common performance failures you've seen in rubber applications, and how can they be prevented?

The most common performance failures in rubber applications usually begin with a loss of mechanical properties during aging, materials that once had good elasticity and strength can become brittle or lose elongation over time. Alongside that, we often see surface cracking from ozone or weather exposure, embrittlement or color loss from heat or UV, fatigue cracks in dynamic parts, excessive compression set in seals, swelling from chemical contact, abrasion or cut growth, adhesion loss in bonded systems. These issues are well-known across many sectors of the industry.

What's important to stress is that these failures rarely come from mistakes in design or formulation. By the time a compound is specified for an application, it has been carefully validated. The problems usually appear later, when raw materials are stored too long, used after expiration, or exposed to contamination. Filler or oil properties can shift during storage, moisture can sneak into ingredients, and sometimes even small lapses in worker handling can leave a lasting mark on performance. On the production floor, if instructions aren't followed to the letter, whether it's weighing, mixing, or curing, those deviations can build weaknesses that only show up after months or years in service.

The good news is that most of these failures can be prevented. It comes down to discipline: robust incoming checks for raw materials, traceability systems that track batch histories, and accelerated aging tests that reveal how a compound and the finished part will behave in the real world. Just as important are clear procedures and proper training for everyone involved in handling and compounding. With today's depth of knowledge in the rubber industry, it's rare for a part to fail because the compound was poorly designed. Much more often, it fails because somewhere along the line, the process wasn't respected as closely as it should have been.

In testing and quality control, which parameters do you consider the most reliable for predicting real-world performance?

The most reliable testing always starts before the material even becomes a finished part. For thermoplastics, that means checking the compound during production, making sure melt flow, viscosity, residual humidity and basic mechanical properties are stable before the material is shaped into its final form. For thermoset rubbers, it's about testing the uncured compound before it reaches the vulcanization step. Mooney viscosity, cure characteristics, and dispersion checks are essential, because they tell you whether the batch is suitable to continue into production.

Once the compound is in its final shape, the focus shifts to verifying mechanical properties like tensile strength, elongation, hardness, compression set, and then exposing the part to accelerated aging conditions. Aging tests, whether thermal, oxidative, or UV and the percentage of deviation from the fresh part, give valuable insight into how properties will change over time, which can sometimes be more important than the day-one numbers.

No single parameter can predict performance on its own, but when you combine process checks on the compound with mechanical and aging tests on the final part, you get a much clearer picture of real-world behavior. In practice, consistency across all these stages is the strongest predictor of how a product will perform in the field.

How do laboratory-scale trials compare with industrial-scale production in terms of reproducibility?

The reproducibility of laboratory trials compared to industrial production depends strongly on the equipment available and the expertise of the team. In facilities with modern, automated laboratory mixers, rheometers, and pilot-scale extruders, it is much easier to mirror the parameters of full-scale production. The lab results can be translated more directly, and the performance of the compound is usually consistent when scaled up.

But many laboratories in our industry still operate with very basic equipment, sometimes just a two-roll mill. Without a lab kneader or pilot-scale line, reproducing industrial conditions becomes far more challenging. In those cases, reproducibility depends heavily on the skill of the lab technicians and the process engineers, who must interpret lab results and carefully adapt them to production equipment.

It's a bit like creating a symphony. When you have experienced musicians who each know their part, they can make beautiful music together, even with fewer instruments. But if that expertise is missing, the same notes can sound disorganized and out of tune. The same principle applies here: with knowledge and discipline, even modest lab setups can lead to excellent industrial results.

"No single parameter can predict performance on its own, but consistency across compound checks, mechanical tests, and aging studies gives the clearest picture of real-world behavior."

In cable and insulation applications, what are the most pressing material challenges that still need solutions?

The real challenge in cable and insulation today is not only to develop materials that can last for decades, but to do so under increasingly harsh and demanding conditions. At the same time, many of the raw materials that were historically used to address those conditions, such as certain flame retardants or lead-based curing systems, are being banned or restricted due to toxicity and environmental concerns. This puts compounders in a very difficult position: they must deliver exponentially higher resilience, while having fewer "trusted tools" available from past decades. Balancing performance, safety, and regulatory compliance has become a major shift in how the industry approaches all materials. Nonetheless, the situation also opens up space for innovation, exploring non-toxic flame retardants, alternative curing technologies, and bio-based functional additives that meet both performance demands and safety standards.

How do you approach problem-solving when a formulation meets lab specs but underperforms in field applications?

When a formulation looks perfect in the lab but underperforms in the field, the only way to solve it is to go back and perform a deep root cause analysis in production. I focus on finding exactly where the mismatch between lab and industrial conditions occurs. Was the raw material handled differently? Did the mixing or curing parameters shift slightly at scale? Was the equipment introducing variations that the lab couldn't simulate? Once that point of divergence is identified, the intervention has to happen there, not by changing the formulation blindly, but by aligning the production reality with what was validated in the lab. Without that step, you're only chasing symptoms. The key is to be systematic: investigate step by step until the true cause is as clear as possible, and then act directly at that level.

How important is cross-disciplinary collaboration (chemists, engineers, marketers) in developing successful products?

Cross-disciplinary collaboration is absolutely essential in developing successful products. Chemists bring the understanding of formulations and material behavior, engineers translate those formulations into scalable processes, and marketers provide the link to what customers and markets actually need. If any of these voices is missing, the final product will almost certainly fall short, either it performs beautifully in the lab but can't be produced efficiently or it's technically sound but doesn't meet the market's expectations.

What really makes the difference is when these groups don't just work side by side but actually listen to each other. A chemist might adjust a formulation if an engineer explains a processing limitation, or a marketer might refine a product concept after hearing about new material capabilities. It's that back-and-forth that turns good ideas into products that are not only technically strong but also practical, affordable, and relevant to customers. In my experience, the most successful projects are always the ones where collaboration is treated as part of the process, not as an afterthought.

"When a formulation passes in the lab but fails in the field, the solution lies in finding where reality diverges from testing, not in changing the recipe blindly."

How do you foresee AI, data analytics, or digital tools transforming rubber R&D and testing in the near future?

AI, data analytics, and digital tools will definitely play an increasing role in rubber R&D and testing. They can speed up how we design materials, by identifying patterns in large datasets that would take much longer to uncover by hand. In quality control, predictive analytics can flag unusual trends in raw material properties or processing parameters before they lead to failures, and digital twins can simulate how a compound might behave in service without waiting months for aging tests. These tools open up new possibilities to make development faster, more efficient, and more reliable.

But at the same time, it's important to recognize that they are tools, not replacements for expertise. A simulation or an algorithm will only be as good as the data and assumptions behind it. Rubber is a very complex system, and without the experience of chemists and engineers to interpret the results, there's always a risk of being misled by a model that looks perfect on paper but misses reality. Like any other tool, AI and digital methods can be immensely useful when used properly and with common sense. They can extend our capabilities, but they don't replace the need for deep material knowledge and critical thinking.

Could you share an example where customer feedback directly influenced a significant technical improvement?

Without giving away confidential information, I can only say that most of the significant technical improvements I've seen have stemmed directly from client feedback or market demand. Customers are often the first to see how a product behaves in the field under real conditions, and their insights can highlight gaps that no amount of lab testing would fully reveal. What has made the difference throughout my career is that the companies I've worked for, especially my current one, have been very good at converting that feedback into tangible progress. Sometimes it meant adjusting a formulation, sometimes it meant improving processing, and other times it led to completely rethinking how a material was positioned for its application. In every case, the dialogue with customers was the spark for improvement, and I believe that ability to listen and adapt is what drives real innovation in our industry.

Sustainability & Innovation

You are a strong advocate for sustainability — how can the rubber industry balance innovation, performance, and environmental responsibility?

Balancing innovation, performance, and environmental responsibility is one of the hardest challenges in our industry. On the technical side, we already have options, renewable fillers, bio-based polymers, and cleaner processing routes, but achieving high sustainability levels is still very difficult. The reality is that many companies will not embrace these solutions unless regulation or customer demand makes it unavoidable.

That's why real progress depends on both innovation and external drivers. Innovation can deliver the materials, but regulations and market expectations are what push them into broad adoption. Every step, reducing carbon footprint, improving recyclability, removing hazardous ingredients, strengthens the industry's future. This is not just a challenge, it's also an opportunity. We are standing at a point where sustainability can drive the reinvention of the rubber industry, shaping a new balance between performance and responsibility.

What do you see as the most promising sustainable material innovations currently in development?

There are several promising directions for sustainable material innovations in our industry. One is the development of natural rubber from sources beyond *Hevea brasiliensis*, such as guayule or dandelion, which can diversify supply and reduce pressure on traditional plantations. Another exciting area is renewable functional fillers. These materials don't just replace traditional fillers, they bring real performance benefits while lowering environmental impact. For me, this is one of the most transformative opportunities, because fillers are such a fundamental part of every rubber formulation.

Part of the reason I joined UPM was to be directly involved in this shift and to see where this new era of the rubber industry will lead. We are at the beginning of a transformation where sustainability and performance can advance together, and I wanted to be part of that change.

Many companies are under pressure to decarbonize. What practical steps can rubber manufacturers take to reduce their carbon footprint without sacrificing quality?

Rubber manufacturers can cut their carbon footprint through energy-efficient production, sourcing renewable raw materials, recycling scrap, and designing with end-of-life in mind. These steps are already achievable with today's technology. But the bigger change must come from mindset. The industry needs to be more flexible in adopting sustainable materials, instead of rejecting them for not behaving exactly like traditional ones. With technical adaptation and openness, decarbonization can be reached without sacrificing performance.

Vision & Industry Development

Where do you see the biggest growth opportunities for the rubber industry over the next decade?

One of the biggest growth opportunities for the rubber industry in the next decade is electrification, both in infrastructure and in mobility. On the infrastructure side, expanding power grids and renewable energy systems are driving demand for advanced cable insulation, sheathing, and sealing materials that can withstand higher electrical and thermal stresses. In mobility, electric vehicles require new solutions for battery safety, thermal management, vibration control and especially tires. One of the biggest growth opportunities for the rubber industry in the next decade is electrification, both in infrastructure and in mobility. On the infrastructure side, expanding power grids and renewable energy systems are driving demand for advanced cable insulation, sheathing, and sealing materials that can withstand higher electrical and thermal stresses. In mobility, electric vehicles require new solutions for battery safety, thermal management, vibration control and especially tires. Electrification is reshaping where and how rubber is used, and it's creating space for materials that deliver both performance and sustainability. This transition is one of the most exciting opportunities for our industry in the coming decade.

"Renewable functional fillers are a true game-changer; they don't just lower environmental impact, they also bring performance benefits."

How do you think global supply chain challenges will shape the future of product development?

Global supply chain challenges are forcing the rubber industry to rethink how products are developed. In the past, compounds were often optimized mainly for performance and cost, but recent disruptions have shown how vulnerable the industry is when it relies too heavily on single sources. Sourcing locally is always more resilient, but it isn't always possible. Certain polymers are produced almost exclusively in China, and natural rubber is still harvested in only a few regions of the world.

That reality means manufacturers need more flexibility in their formulations and sourcing strategies, so they can adapt when materials become scarce or delayed. It's also pushing the industry toward innovation, from designing compounds that can tolerate variations in raw materials to developing alternatives like renewable fillers and new natural rubber sources. In the end, resilience is becoming just as important a design parameter as performance and cost.

If you could change one common misconception about the rubber industry, what would it be?

The common misconception I would change is that the rubber industry is harmless. People often don't realize that rubber is everywhere, from the obvious tires and seals to medical devices, electronics, cables, and countless everyday products. It's a fascinating and rich world of compounds and applications. But behind that diversity, the industry still relies on chemicals and materials that can be harmful to people and very taxing for the environment.

I believe it's important to sensitize people to this reality, not to paint the industry in a negative light, but to highlight the responsibility we all share in improving it. Acknowledging these challenges is what drives innovation, whether it's reducing toxic ingredients, developing renewable fillers, or finding safer alternatives. Rubber is indispensable in modern life, but that makes it even more important to ensure the way we make and use it becomes safer and more sustainable.

Knowledge Sharing & My Rubber Heart

What inspired you to start My Rubber Heart, and what do you hope to achieve with it?

My Rubber Heart actually started thanks to my partner's suggestion and I realized it was the chance to create what I wished I had at the beginning of my career. A place where someone explains everything in a way that's easy to digest, from the simplest concepts to the most complex. When I started in this field, there wasn't anything like that, and learning often felt like piecing things together alone.

There was also another, more personal reason. Growing up, I never saw an example of a woman with a technical career like mine. The world has changed since then, but I know that representation still matters. If through the channel I can help plant the seed of a STEM career in girls' minds, then all of it will have been worth it.

And it's not just for beginners. Many people who never had a formal rubber industry education but now work in the field can also benefit. The channel gives them a way to build knowledge step by step and feel more confident in their roles.

Which technical topics do you think are most misunderstood or overlooked in the industry?

There are a few technical topics in rubber that I find are more often misunderstood than truly overlooked. One of them is dispersion quality. People sometimes assume that as long as ingredients are added in the right amounts, the compound will perform as expected. But without proper dispersion, fillers or curatives can create weak points that only show up later as variability or premature failure.

Another area is aging behavior. Many compounds look perfect on day one, but long-term durability under heat, ozone, or fatigue is often less well understood. The misconception is that short-term lab results reveal enough of the story, when in fact it's the way properties change over time that matters most in real applications.

Finally, there's often misunderstanding when it comes to material changes in general. Whether it's moving to renewable and recycled content or simply switching suppliers or grades, it's never just a straightforward swap. Any change can influence processing, properties, and even long-term stability. With sustainable materials, these effects may be more visible because they're newer to the industry, but the truth is that every raw material substitution comes with a learning curve that has to be carefully managed.

Have you seen any direct impact of your educational work on industry engagement or collaboration?

The channel is still relatively young, so it's early to measure long-term impact. But what I can say is that it has already sparked engagement within the industry. People are starting conversations, asking questions, and showing interest in areas of rubber technology they might not have explored before. That in itself is a positive sign. And while I can't spoil anything yet, there are some very interesting things in the pipeline that I believe will show just how valuable this kind of knowledge-sharing can be for collaboration across the industry.

Personal Lessons & Advice

What important lessons have you learned from working across R&D, quality control, and marketing?

Working across R&D, quality control, and marketing has taught me that they are like different countries with their own cultures. Each speaks a different language, follows different rules, and measures success in different ways. In R&D, the focus is on innovation and possibilities. In quality control, it's about discipline and precision. And in marketing, it's about understanding people and markets.

At first, these differences can feel like barriers, but I've learned that everyone benefits when we work together to find common ground. Once the "languages" are translated, the strengths of each area complement one another. That's when projects move forward faster and with more impact, because innovation, reliability, and customer needs are aligned.

"Dispersion quality is often underestimated, without it, even the right formulation can hide weak points that only appear later as failures."

What advice would you give to young engineers or chemists entering the rubber and polymer sector today?

My advice to young engineers or chemists entering the rubber and polymer sector is simple: get your hands dirty. Whatever career you imagine for yourself, whether in research, management, or marketing, it's like a building. It will always be stronger if it's built on a solid practical foundation. Understanding what it really means to weigh materials, to mix them, to troubleshoot a batch, or to test a compound gives you a perspective that no textbook or software can replace. Once you've lived that reality, every decision you make later in your career will be grounded in experience, and that makes you not only more effective but also more relatable in the industry.

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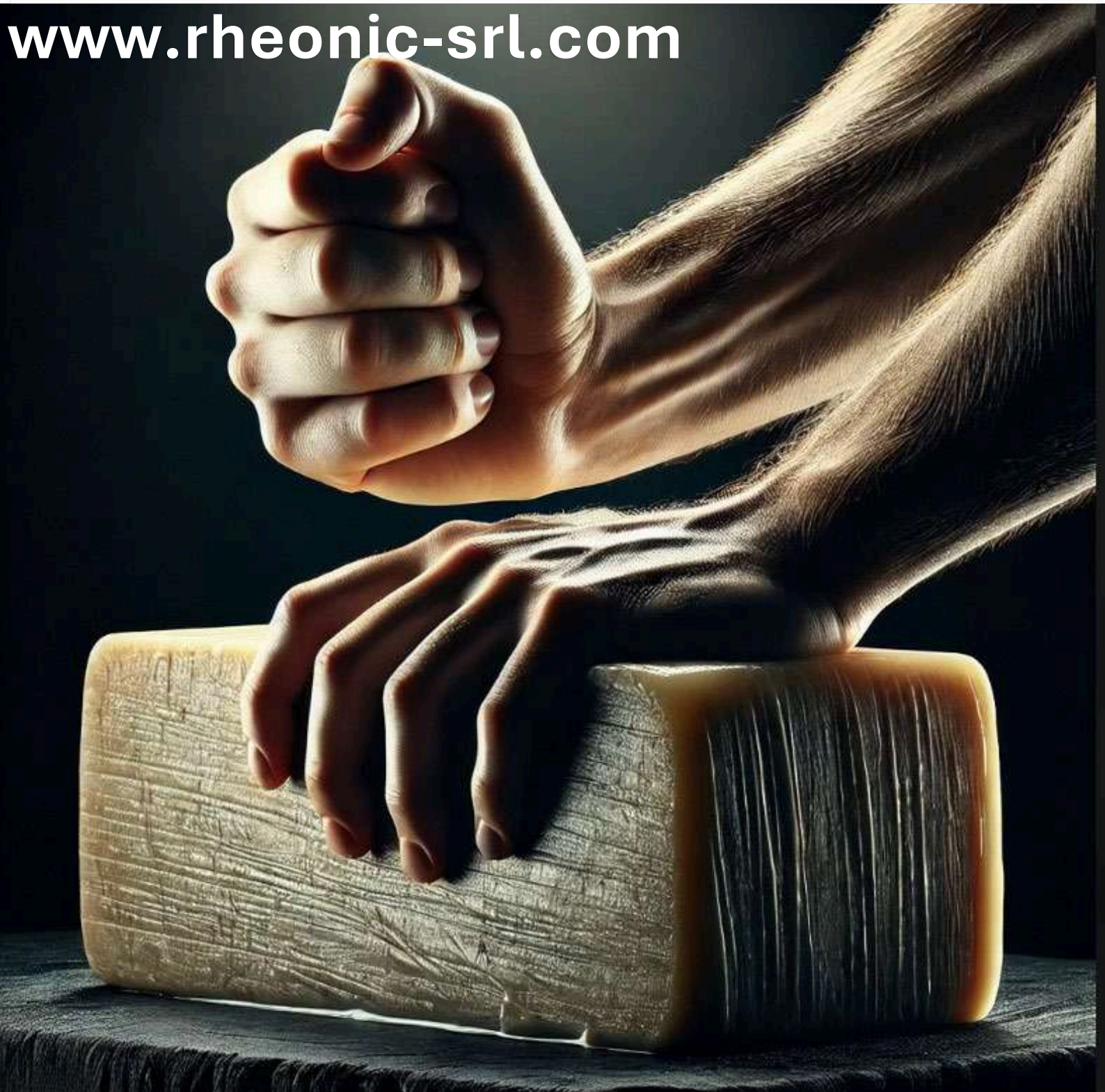
Formulation giving you headaches?

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 20 | 6-12 Oct 2025

IRMRI Spotlight

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly known as Indian Rubber Manufactures Research Association(IRMRA)

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

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

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

IRMRI Facilities Covers

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

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE REGIONAL CENTRE'S

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Sri City Trade Centre, Sri City (Dt.)
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Mob. No.: +91-8655095345

IRMRI - South Center 2 (Tamil Nadu)
Strategic Product Development Center
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Oragadam, Sriperumpudur (Tk.),
Kancheepuram (Dt.)
spdc1@irmra.org

IRMRI - East Center
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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
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Business Dev. Manager

Dr. T. Vinoth
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Sr. Scientific Officer

Dr. Mohammed Saleem
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Dr. Santosh Jagdale
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Ganapathi C
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Sachin Barve
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Chetan Deshmukh
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PROF. KINSUK NASKAR

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OCTOBER 30TH, THU, 2025

BISWA BANGLA MELA PRANGAN

FOR MORE DETAILS, CONTACT:
DR. DEBDIPTA BASU - 8197606600
Mrs. Reenu Mehra - 9810141681

MoU Signing between IRMRI and IPE Hyderabad

The Indian Rubber Materials Research Institute (IRMRI) is delighted to announce the signing of a Memorandum of Understanding (MoU) with the Institute of Public Enterprise (IPE), Hyderabad, on 25th September 2025. The MoU was signed in the esteemed presence of Prof. S. Sreenivasa Murthy, Director, IPE; Dr. Debdipta Basu, Deputy Director & Head – IRMRI East Centre; Dr. Rajkumar Kasilingam; and Dr. Santosh Jagadale, marking the beginning of a collaborative journey to promote academic excellence, applied research, and industry-oriented initiatives. This partnership aims to facilitate joint programs, research collaborations, training, and capacity-building initiatives, creating meaningful opportunities for students, professionals, and the wider polymer and rubber industry. IRMRI has previously entered into several MoUs with leading academic and research institutions to strengthen industry–academia linkages, reinforcing its mission to advance knowledge, innovation, and skill development in the rubber and polymer sectors.

IRMRI Announces Technical Seminar on "Strategic Rubber Products for Mining Applications" – 30 Oct 2025, Kolkata

The Indian Rubber Materials Research Institute (IRMRI) will host a one-day technical seminar on "Strategic Rubber Products for Mining Applications" on 30th October 2025 at Biswa Bangla Mela Prangan, Kolkata, alongside IME 2025. Organized in collaboration with the Rubber Technology Centre, IIT Kharagpur and TAFCON Projects (India) Pvt. Ltd., the seminar will bring together experts from the mining, rubber, and engineering sectors to discuss innovative rubber solutions enhancing performance and sustainability in mining operations.

ARISE - ASSOCIATION FOR RUBBER INNOVATION AND START-UP ENTREPRENEURSHIP

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

ARISE Incubation Centre:

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

Vision and Objectives

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

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

Support Ecosystem at ARISE

ARISE offers a comprehensive support system, which includes

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

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

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

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

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

ARISE - ASSOCIATION FOR RUBBER INNOVATION AND START-UP ENTREPRENEURSHIP

Promoted by INDIAN RUBBER MATERIALS RESEARCH INSTITUTE
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Email: arise@irmra.org Web: www.ariseindia.net.

ARISE Impact

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

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

ARISE - Future Outlook

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

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

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

For Details, Please Connect with
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9361324212, 7045086164.

Weatherometer

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

Standards and Their Purpose

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

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

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

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

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CHINA UNITED RUBBER CORPORATION

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

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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.

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公司介绍 Company introduction

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

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

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

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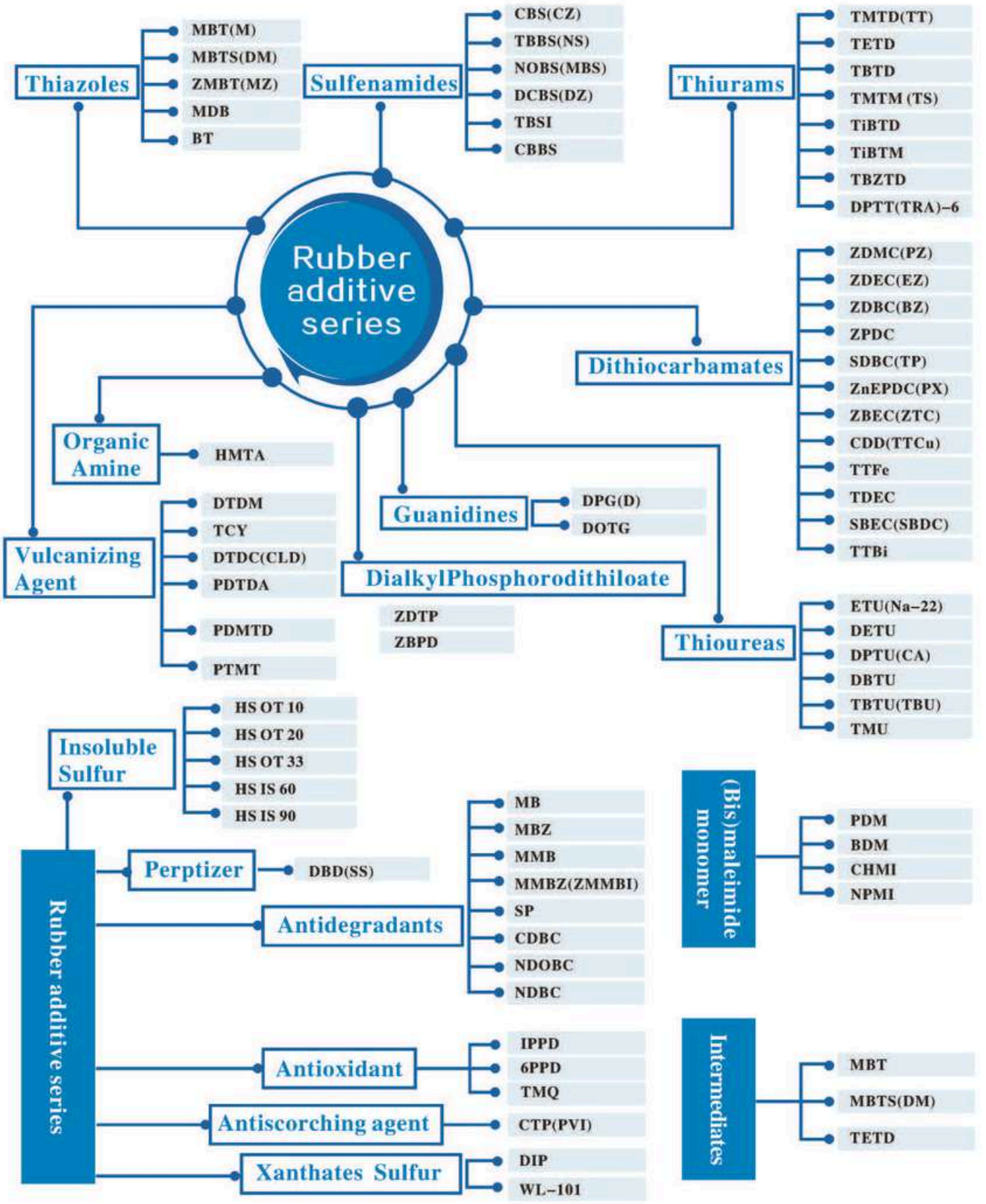

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MOB：+86 158 3936 2818
Email: walter@willingchem.com
Url: www.willingchem.com

QINGDAO XIANG RUN HAO IMPORT AND EXPORT CO.,LTD

XIANG RUN HAO

About Us

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

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

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

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

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

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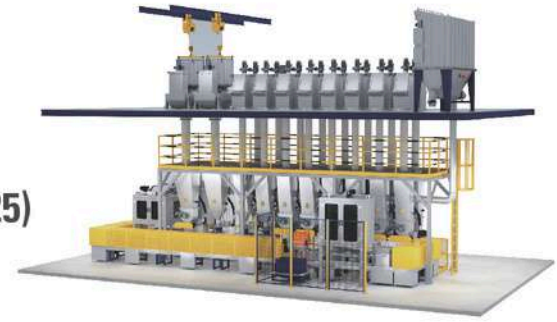

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E-mail: kitty@machtech.com.cn **Website**: www.bjmachtech.com

TechnoBiz

India Rubber

BUSINESS DIRECTORY

A Supplement of RUBBER Review

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
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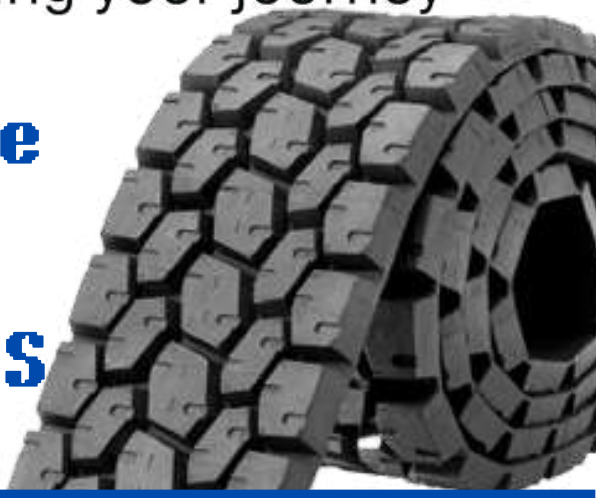

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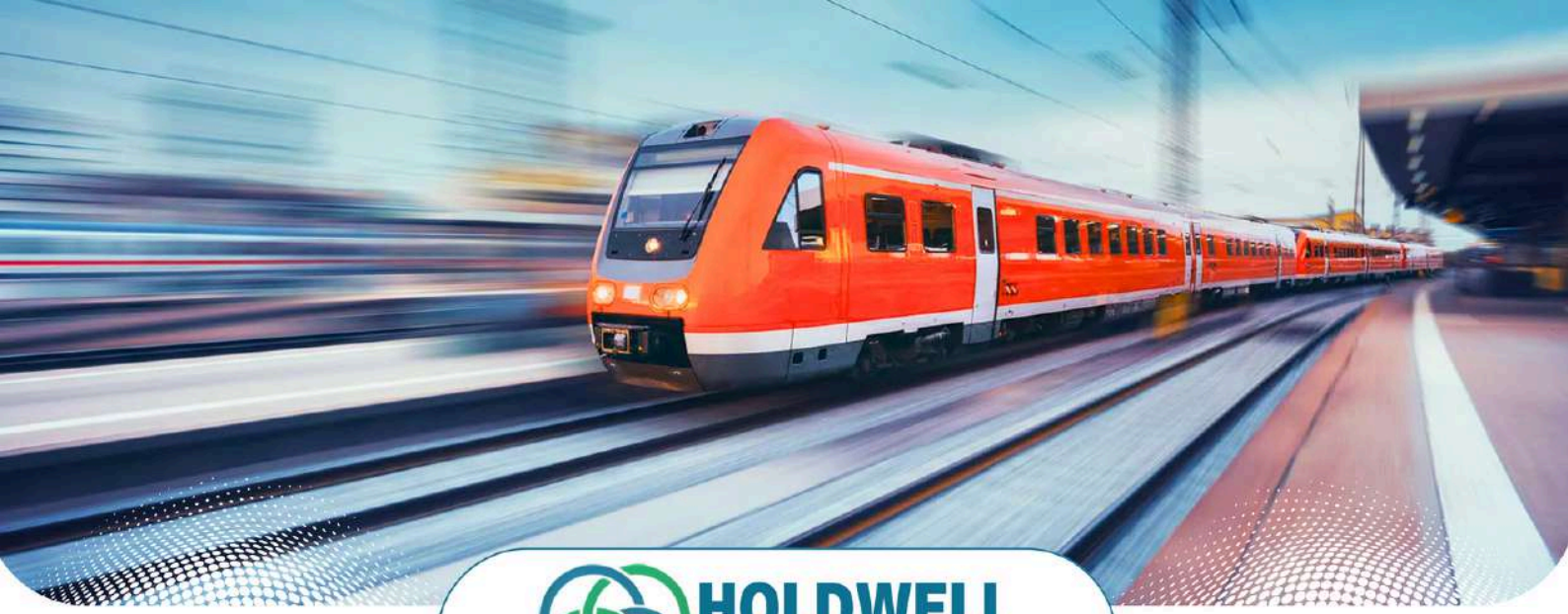

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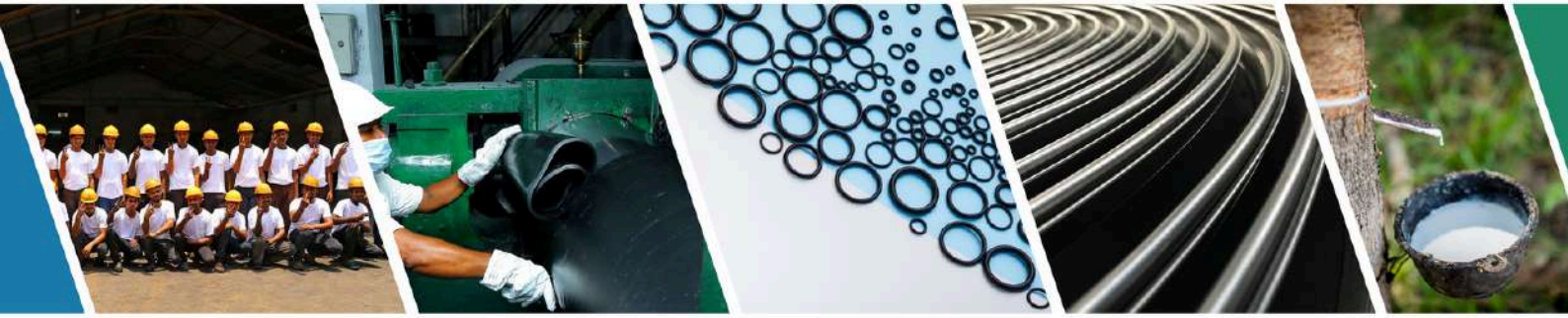

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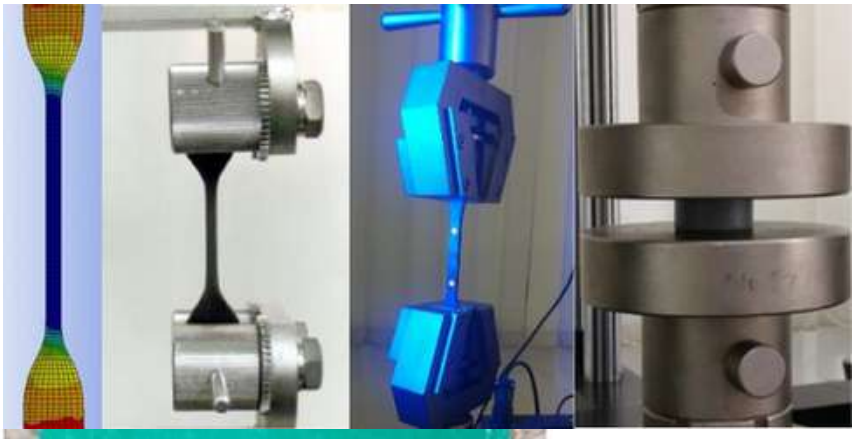

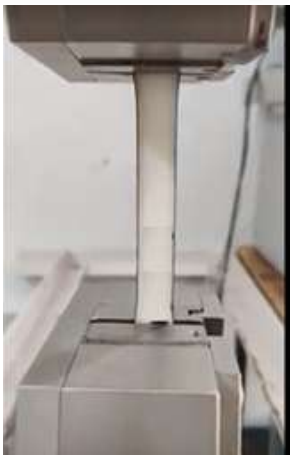

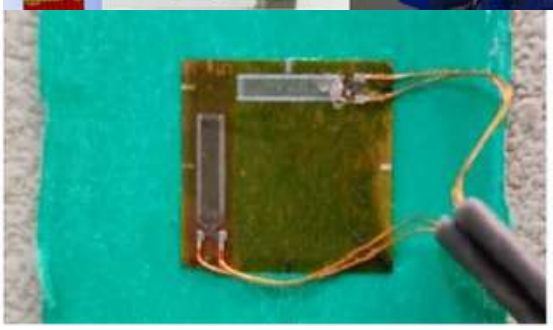

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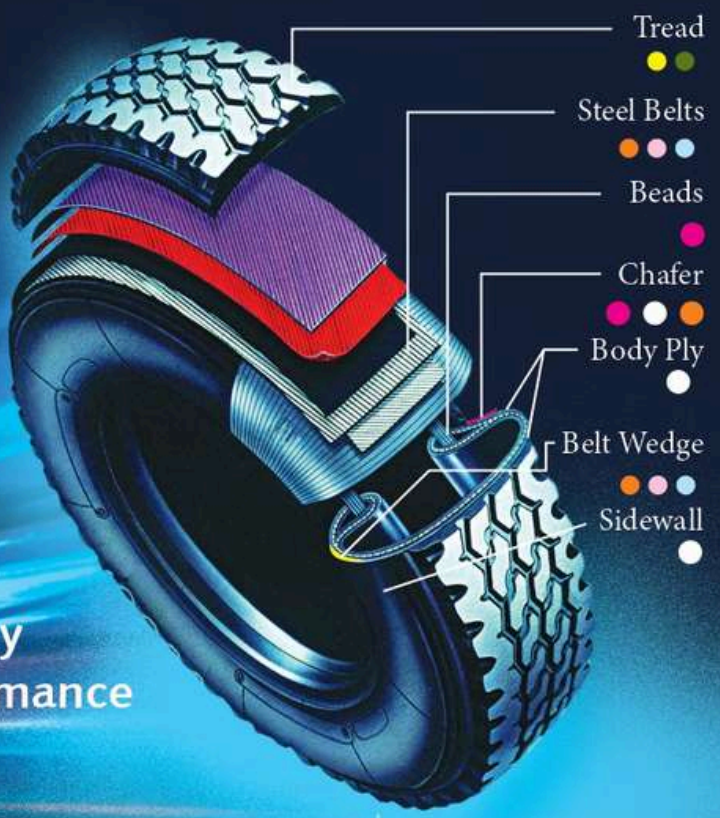

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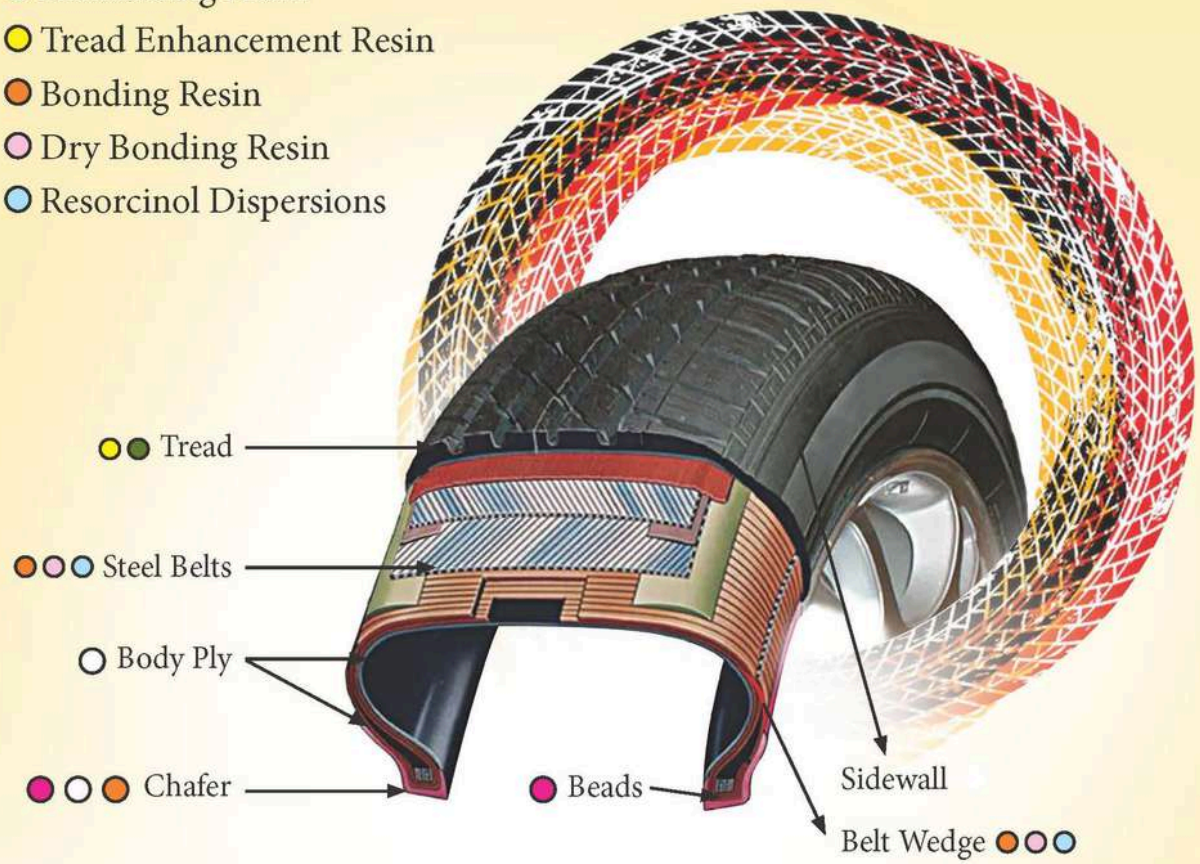

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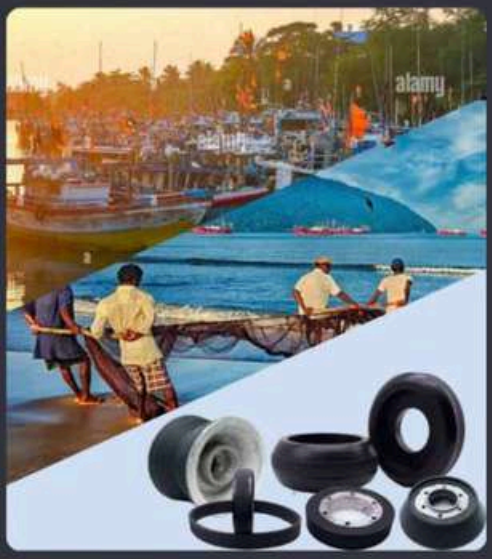

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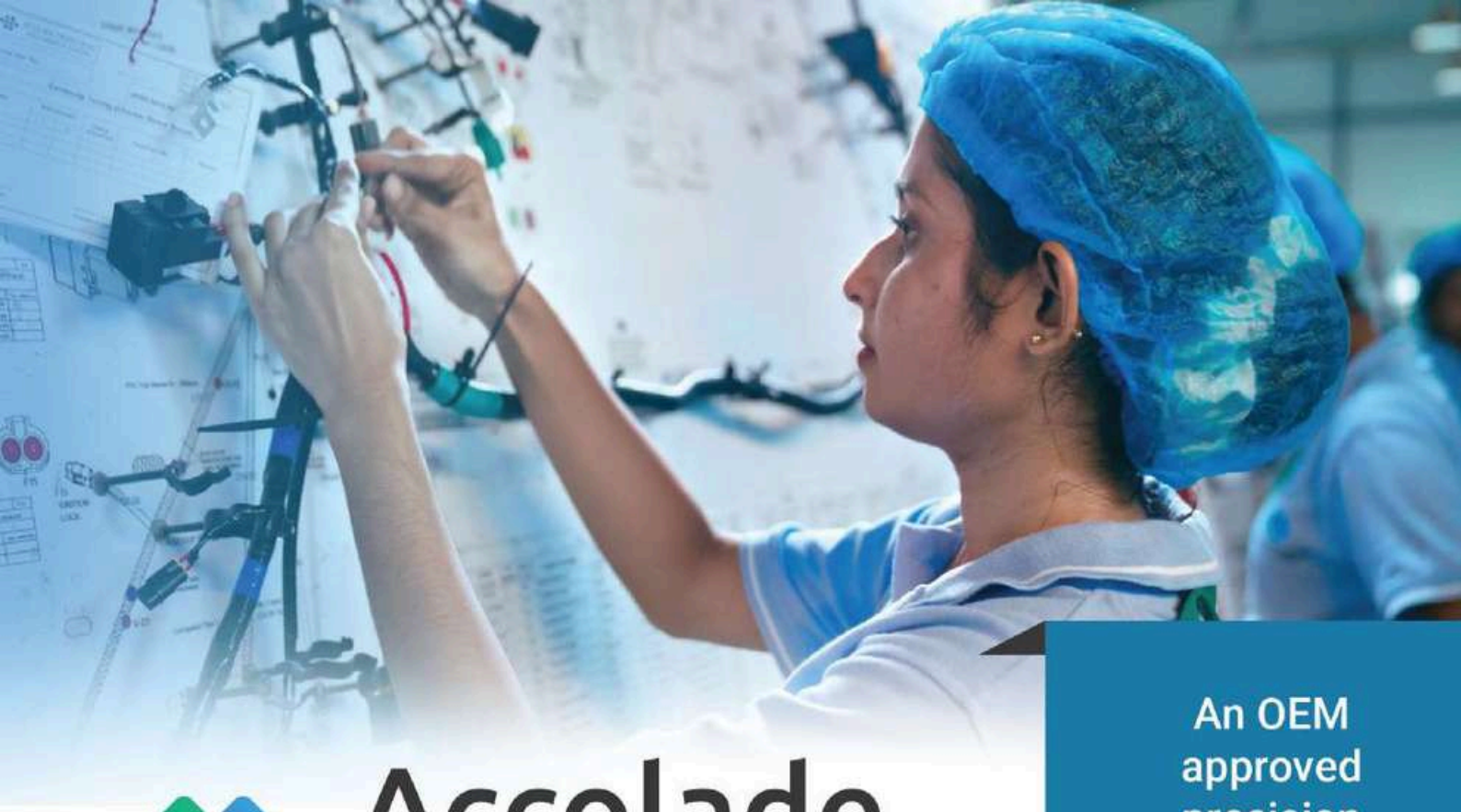

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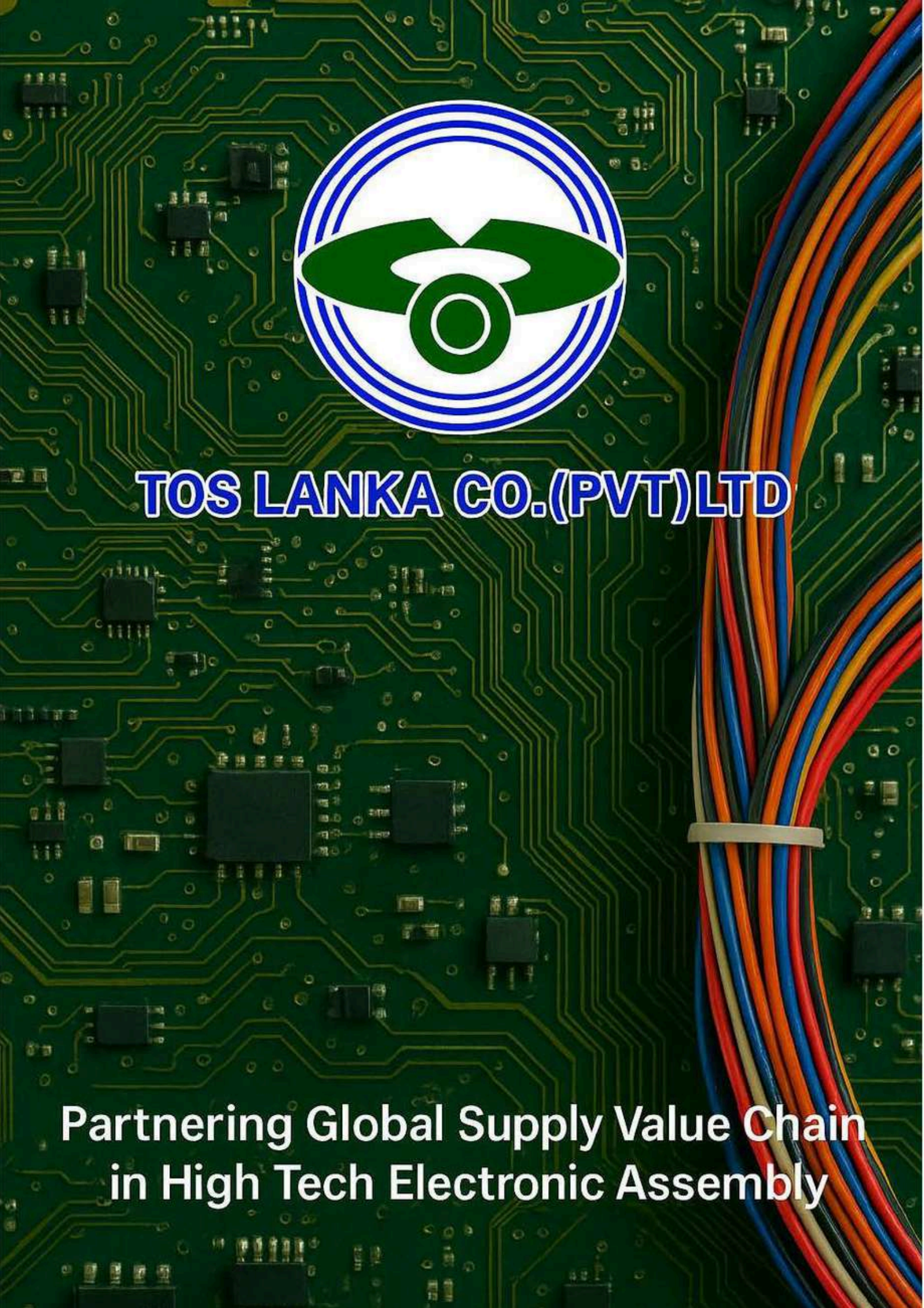
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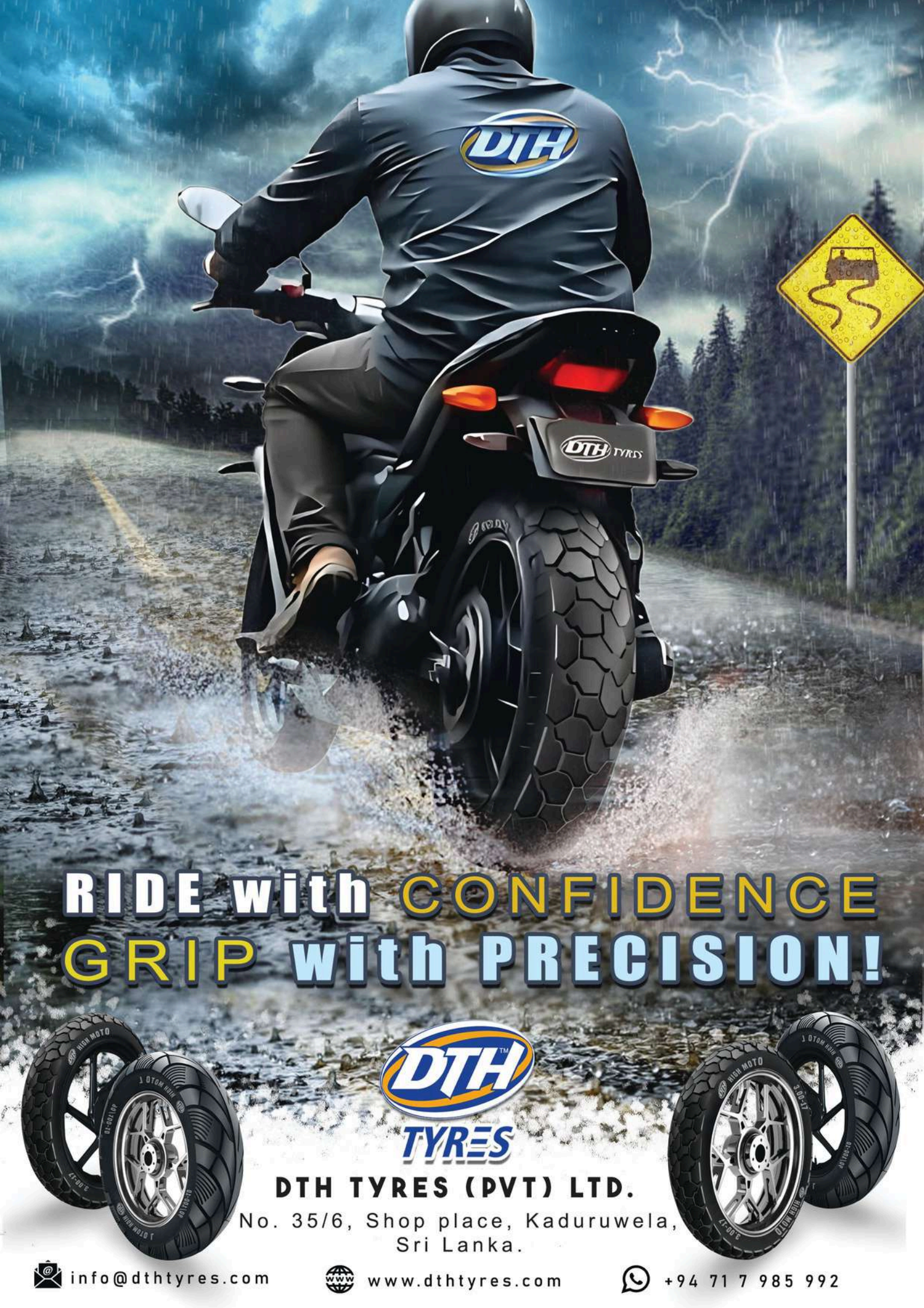
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Size- Multiple Size Options

RUBBER BUSINESS NEWS

RUBBER Review

ARLANXEO announces intention to close Port Jerome site

ARLANXEO Elastomères France S.A.S. announced its project to cease operations at the Port Jerome site in France. An information and consultation period was launched earlier today with the Works Council in Port Jerome. A final decision regarding the projected closure could be taken at the end of this mandatory consultation period and after obtaining validation/approval from the DREETS.

Stephan van Santbrink, ARLANXEO CEO, said: "*The European chemical industry continues to face persistent weak demand and declining competitiveness driven by rising costs, unbalanced global markets, and increased regulatory pressure. These conditions have generated a significant burden on the sector across the regional value chain. ARLANXEO has not been an exception to these challenges. The Port Jerome site has remained in a structurally loss-making position. Despite numerous improvement efforts, we do not foresee a viable path to a sustained structural improvement*.

"*We recognize the impact a potential closure may have on our employees, and we regret the need to consider these steps. We will continue to treat all employees with respect, and in the event of a decision to cease operations at the site, we will do our utmost to assist with finding alternative solutions for all impacted employees. In addition, we intend to provide impacted employees with a social plan which reflects their valued contribution to ARLANXEO*."

ARLANXEO intends to minimize the impact of the intended closure by working in close cooperation with all affected internal and external stakeholders.

ARLANXEO Sustainability Journey Continues: Baypren® Chloroprene Rubber receives ISCC PLUS Certification

The ARLANXEO Chloroprene Rubber (CR) plant in Dormagen, Germany, whose grades are marketed under the Baypren® brand name, has recently been awarded the prestigious International Sustainability and Carbon Certification (ISCC) PLUS standard. This makes it the company's sixth plant to receive this recognition.

ARLANXEO offers a rapidly expanding range of sustainable synthetic rubber products under its Eco label. This portfolio of bio-based, bio-circular and circular products helps customers reduce their carbon footprint. ISCC PLUS is a globally recognized sustainability certification scheme that enables ARLANXEO to incorporate sustainable feedstocks into existing production processes through the 'mass balance approach'. The ISCC PLUS methodology tracks raw materials through the supply chain, allowing ARLANXEO to demonstrate its environmental and sustainability compliance.

"The ISCC PLUS certification of our CR plant reaffirms ARLANXEO's ongoing commitment to providing our customers with high-performance rubber. To ensure that Baypren® meets both current and future requirements of our customers, this was therefore the next logical move for us to take. As an established partner, we want to continue playing an active role in shaping the future of a sustainable synthetic rubber market in order to ensure customer satisfaction. ARLANXEO therefore continues to invest in production, safety, and sustainability to remain a strong player in the market", says Edwin van Grootendorst, Global Head of Business Specialty Elastomers at ARLANXEO.

Michael Eßmann, Head of Category Management Chemicals at ARLANXEO, adds: "*Securing ISCC PLUS certification is a testament to our dedication to sourcing materials responsibly and sustainably. We have worked diligently to ensure that our supply chain aligns with the highest standards of environmental and social responsibility. This certification reflects our commitment to continuous improvement and sustainable growth*."

Baypren® CR also offers even more in terms of sustainability and responsible chemistry. ARLANXEO supplies a sulfur grade, Baypren® 616, which eliminates the hazard exposure to nitrosamines and its precursors such as thiurams and carbamates, typically used in the production process of chloroprene/sulfur copolymers. Baypren® 616 is completely free of nitrosamines and any substances that could form them and is not subject to changing regulations for ingredient classification according to EU REACH. Unlike standard sulfur grades Baypren® 616 is not classified as toxic to aquatic life and is not considered a dangerous good.

Alcoa conveys more recycling news

Alcoa Australia and recycling specialist Tyrecycle have taken another step in rubber recycling with the delivery of the first used conveyor belts from Alcoa's mining operations to Tyrecycle's East Rockingham facility. The first reel of used conveyor belt from Alcoa arrived at the recycling facility on Wednesday (24 September) where the steel wire used in the belts will be reclaimed and the rubber will be turned into crumb, suitable for a range of uses including as an additive for use in road construction.

It follows the 2024 launch of an ongoing off-the-road (OTR) tyre recycling contract between Alcoa and Tyrecycle, and is part of Alcoa's initiative to reduce, recycle and reuse waste from its mining and refining operations in WA. According to Alcoa Global Program Manager Water and Waste, Nicole King, about 32km of used conveyor belt will be delivered to the East Rockingham facility over the coming months.

"This new opportunity will allow us to recycle 80 reels of used conveyor belt in the initial program with Tyrecycle processing about 100 tonnes a week into crumb," Nicole said. "That's alongside more than 300 tonnes of our used OTR tyres a year."

Tyrecycle Head of Trading, Mining and Strategic Development Ashley Battilana said the company focused on circular recycling solutions to allow used rubber to be converted into new, value-added products. "*Initially we'll produce rubber crumb, like we do with tyres, that can be repurposed into a broad range of applications such as polymers for bitumen, granules used in sporting and playground surfaces, adhesives and moulded rubber products*," Ashley said.

"*Our vision is to continue driving innovation so we can integrate recycled material into new conveyor belt manufacturing in the future*." Ashley added that since its official opening in May last year, Tyrecycle's East Rockingham facility has continued to grow and provide solutions to assist WA mining operators to decarbonise their supply chains through recycling tyres and other rubber products, which are a major waste stream across the many industry sectors.

"*We're proud to work with Alcoa, jointly supporting jobs in the region and continuing to reduce impacts on the environment*," he said.

Siemens and rFpro Launch New Tyre-Road Simulation Solution

rFpro and Siemens Digital Industries Software (Siemens) have jointly developed a new simulation capability that integrates Siemens' Simcenter Tire software with rFpro's TerrainServer, which provides a millimetre-accurate digital model of the road surface.

The new interface allows the MF-Tyre and MF-Swift models in Simcenter Tire to directly interrogate rFpro's TerrainServer surface data and calculate tyre forces and moments for vehicle models. It enables highly-accurate simulations of how a tyre interacts with the road, a key requirement in virtual testing for both automotive and motorsport development. rFpro and Siemens collaborated closely on the integration to ensure reliable performance across a range of use cases, including desktop, cloud-based and real-time simulations. The partnership supports rFpro's agnostic approach of keeping its simulation platform open, giving users the flexibility and choice to work with their preferred models and systems.

By continuously integrating third-party solutions, rFpro ensures its customers can leverage best-in-class technologies from multiple vendors without being locked into proprietary ecosystems. This flexibility provides a greater return on investment as the assets can be leveraged across multiple departments and their varying vehicle and tyre modelling needs. "*We aim to be the most open simulation environment on the market and this integration is another key example of this,"* said Nick Harrison, Development Director at rFpro. "*Our platform-agnostic approach means engineers can pick and choose the best tools for the job. They have the ability to combine specialised technologies from different vendors to create the most effective simulation solution for their particular development challenge*."

rFpro's TerrainServer delivers high-resolution road surface data for digital models of real-world locations, such as public roads, proving grounds and testing circuits. When used in combination with Siemens' Simcenter Tire, it allows engineers to evaluate handling, ride and grip characteristics. Results can be assessed both objectively through data analysis and subjectively via driver-in-the-loop simulators. This provides a more informed assessment of tyre and vehicle dynamic performance before prototypes are manufactured, significantly saving time and cost.

"*Tyre behaviour depends heavily on the surface it's interacting with. By integrating our Simcenter Tire software with rFpro's TerrainServer, engineers can now simulate that interaction with a much higher level of detail*," said Willem Versteden, Senior Technical Product Manager at Siemens Digital Industries Software. "*It's a valuable step forward for users demanding greater accuracy in virtual vehicle development*." The new interface is now available to rFpro and Siemens customers, supporting a wide range of simulation use cases. The solution is already seeing strong uptake in automotive programmes focused on ride comfort and vehicle dynamics across OEM and Tier 1 in multiple countries.

SHIBAURA MACHINE Enters Memorandum of Understanding to Acquire LWB Steinl GmbH Shares, Paving Path for European Expansion

Japanese machine manufacturer SHIBAURA MACHINE has signed a Memorandum of Understanding to acquire 80 percent of the shares in LWB Steinl GmbH. By combining their expertise in injection molding machines and automation, both partners aim to strengthen their technology and system competencies for fully automated production cells. To this end, the mechanical engineering and automation divisions will be separated from the Steinl Group and integrated into the partnership. Their sales networks also complement each other: SHIBAURA MACHINE will gain access to LWB's European customer base, while LWB will benefit from SHIBAURA MACHINE's established network in Asia and the United States. This expanded market access is expected to lay a foundation for long-term growth. All LWB Steinl employees will be retained, and Altdorf site (Germany) will remain operational as the European headquarters and production hub. SHIBAURA MACHINE has also secured the option to acquire the remaining 20 percent shares from the Steinl family in three years. Upon completion, the newly formed entity SHIBAURA MACHINE LWB GmbH would become a wholly owned subsidiary. Both parties have agreed not to disclose the purchase price.

SHIBAURA MACHINE: Strategic expansion into Europe and expansion of the product portfolio: "*Our strong footprint in America and the Asia-Pacific region forms the foundation for our strategic expansion. Europe, especially Germany, plays a key role in our growth. To fulfill our strategy, we specifically sought out a German partner who shares our standards of precision and quality. We identified this partner in LWB Steinl. As a family-owned company, LWB Steinl embodies the values that also shape our Japanese corporate culture: trust, appreciation, and loyalty*," says Dr. Georg Holzinger, Managing Executive Officer of SHIBAURA MACHINE and future CEO and President of SHIBAURA MACHINE LWB GmbH.

By acquiring a majority stake of the mechanical engineering and automation division, the company aims to expand its product portfolio of all-electric and hydraulic injection molding machines to include vertical injection molding machines and automation solutions. This strategic step will enable the company to offer customers new applications in the future: in addition to thermoplastics, it will also process rubber, silicone, and elastomers.

"Our global production footprint allows us to meet the diverse needs of customers worldwide. We now plan to expand it to include the Altdorf site in Germany as our European headquarters and production hub. We will leverage LWB Steinl's State-of-the-Art technology, proven employee expertise, and wellstructured delivery processes. This will strengthen our technology and system competence for fully automated production cells and enable us to offer customers in Europe market-compliant delivery times and competitive production costs, and compliance with European standards such as OPC UA and Euromap 77 and 82," adds Holzinger.

Arkema and Movmenta announce strategic partnership to bring smart sensor innovation to running footwear

Arkema, a global leader in specialty materials, is proud to announce a strategic partnership with Movmenta, a cutting-edge sports-tech company developing tailored IoT solutions for the sport industry. As part of this collaboration, Arkema will be responsible for promoting Movmenta's SOLLO smart sensor technology, a battery-free solution seamlessly embedded into the soles of running shoes, offering real time performance insights for consumers.

Athletic footwear sales have grown sharply in recent years, as consumers increasingly prioritize their health and exercise. Building on this trend, Movmenta's SOLLO smart sensor technology now enables athletes and sports enthusiasts to measure sole absorption and wear evolution in real time, to optimize their training strategies and prevent injuries. The sensor works without battery, weighs just 1,5g and can be integrated seamlessly into the soles of running shoes offering a smooth experience for the runner.

The sensor is connected to an app, enabling a communication channel between the sports brand and the runner to provide advice, better understanding of athlete's behaviors, and guide footwear users to a suitable recycling option when it is time to replace them. Arkema has been working with sports brands for decades to make shoes lighter, more dynamic and more sustainable through its iconic products such as Pebax® elastomers and is excited to partner with Movmenta a cutting-edge sports tech company to help bring this new technology to market. The SOLLO smart sensor technology, which operates without a battery offers unprecedented visibility into product lifecycle and user experience. This aligns perfectly with Arkema's commitment to driving innovation and sustainability across high-performance materials. The SOLLO smart sensor technology will be available to leading sports brands through Arkema's global network, with first commercial deployment during summer 2026.

"*This partnership is a new step forward in our ambition to bring smart and innovative solutions to the sports and lifestyle markets. By combining Movmenta's sensor technology with Arkema's global reach and materials expertise, we are unlocking new possibilities for improving performance and circular design in footwear*."

Jerome Allanic, Global Market Director for Sports & Consumer High Performance Polymers at Arkema

"*The partnership marks a transformative moment for Movmenta and major leap forward in wearable sport technology. Movmenta's sensors technology coupled with Arkema's reach and expertise will open the door to a new era of real time performance insights and redefine how brands connect with their customers*."

Ofir Dagan, CEO and Co-founder of Movmenta

Trelleborg Launches Ground-Breaking Stefa® High-Performance Radial Shaft Seals

Trelleborg Sealing Solutions, a global leader in sealing technology, announces the launch of the innovative Stefa® High-Performance Radial Shaft Seal portfolio designed to redefine performance standards under extreme application conditions.

Built on cutting-edge innovation, the range has been created for modern industrial environments characterized by high-volume production, 24/7 manufacturing, rapid machinery movement and the necessity to minimize downtime and cost while maximizing operational efficiency.

Innovative Design Reduces Friction

Inderjeet Singh, Global Product Line Director Rotary Seals, says: "Meticulously engineered to reduce frictional torque, the new Stefa® High-Performance Radial Shaft Seals lower energy consumption and increase uptime, lowering costs. Breaking conventional design methodologies, these seals deliver more consistent sealing performance over a longer period of time.

"*The Stefa® High-Performance portfolio is proven to outperform conventional rotary seals, providing customers with efficient, durable solutions to the extreme duty cycles, higher speeds and challenging operating conditions of today's rotary sealing systems*."

Optimized Application-Specific Designs
Two new sealing profiles make up the range. The TRA type is designed without a dust lip for minimal frictional torque, making it ideal for clean environments where contamination isn't a significant concern and space is limited.

The TRE type features a dust lip for robust protection in contaminant-prone environments. It protects rotary applications even in environments that require high ingress prevention while maintaining operational efficiency.

Created from proprietary materials, the Stefa® High-Performance portfolio offers virtually leak-free sealing and wider chemical compatibility for today's challenging applications, proving their capability at faster rotary speeds, in harsh temperatures and across heavy-duty cycles.

Next-Generation Efficiency Gains
Consistent and durable, Stefa® High-Performance seals reduce wear, extending maintenance intervals and increasing operational efficiency. Reduced frictional torque across all shaft diameters, including smaller ones, means they outperform both conventional and competitor designs to lower energy costs and increase sustainability for customers and end-users.

Available now, they are stocked in common sizes with rapid global lead times for other dimensions and custom solutions to meet your specific requirements.

Stefa® High-Performance seals provide optimal solutions for customers' applications including gearboxes and speed reducers, motors including AC/DC, induction and servo, pumps and fans, conveyor systems, index tables, machine tools and robotics.

David Kaley, Global Segment Manager Industrial Automation, says: "The Stefa® High-Performance range was designed to excel in the increasingly tough applications environment for radial shaft seals across the wide range of industries where they are essential.

"The new TRE and TRA seals meet today's challenges while reducing frictional torque, wear and maintenance cycles. Up to 70 percent of electricity used in factories comes from electric motor systems. While seals might seem like a small, insignificant component, the Stefa® High-Performance range reduces power consumption attributable to the seal by 15 to 25 Watts, a direct result of reduced friction."

Arclin accelerates growth through acquisition of Polymer Solutions Group, unlocking new markets and complementary chemistries

Arclin, a leading material science company, announced that it has completed the purchase of Polymer Solutions Group (PSG), a manufacturer of proprietary and custom polymer additives, dispersions and release agents for the rubber, plastic and engineered wood industries.

"*We are excited about the addition of PSG and their trusted brands, teams and technologies*," said Bradley Bolduc, Arclin's president and CEO. "*They complement our current businesses well, specifically in the building, construction and transportation industries." said Bolduc. "Arclin and PSG manufacture complementary chemistries in engineered wood and rubber that will allow us to expand our reach in those markets*," said Bolduc.

The acquisition of PSG expands Arclin's capabilities in North America and is viewed as a key step in the company's strategy toward expanding its product presence into sectors that are adjacent to its core chemistries and business. Arclin will operate PSG's manufacturing facilities in Cleveland, OH and Albany, GA, as well as a research and development facility in Macon, GA. The acquisition will add approximately 200 new team members to Arclin's existing 1,000-person team.

"*Adding PSG to the Arclin team strengthens our industry-leading fire protection and transportation businesses with new technologies that will serve to expand our product offerings in these sectors*," Bolduc continued. "*This acquisition will also provide access to additional end markets, continuing Arclin's transformation into a protection focused material science company serving attractive, high growth markets and applications*."

"*The sale of PSG to Arclin was a logical next step for the business*," said Mike Ivany, PSG CEO. "Arclin's world class operations model will take our products and growth to the next level, and we'll benefit from their knowledge, breadth of technical expertise and rapid deployment of resources in support of the growth strategy. Arclin is an exciting home for our team, and we look forward to seeing the business thrive going forward," Ivany added.

Kraton Joins CERISEA Project to Advance Biobased Innovation

Kraton is proud to join the CERISEA Project, an initiative led by Michelin and its subsidiary to establish a manufacturing facility that will accelerate the development of 5-HMF (5-Hydroxymethylfurfural). Derived from sugar chemistry, 5-HMF is a biobased molecule that provides a renewable alternative to fossil-based ingredients used across various industries, including tires, coatings, adhesives, and surfactants. This project marks the first industrial-scale production of 5-HMF in Europe, with the new French facility expected to produce 3,000 tons annually. Scheduled for completion in March 2029, the project has received $20 million in funding from the European Union's Horizon Europe Research & Innovation Program and the Circular Bio-based Europe Joint Undertaking.

As one of just 12 selected to participate, Kraton has been awarded a share of the grant to support the project's research and development efforts focused on commercializing 5-HMF and converting it into high-performance, sustainable materials for new applications.

The collaboration reflects Kraton's ongoing commitment to advancing circular and biobased innovation. As the inventor of styrenic block copolymers (SBC) and the world's largest producer of pine chemicals, Kraton has a long-standing legacy of creating sustainable, high-performance products. Our portfolio features a diverse range of biobased solutions, including REvolution™ Technology, SYLVATRAXX™, and SYLVACOTE™, designed to enhance sustainability and performance across applications like adhesives, tires, coatings, and road markings. With deep expertise in renewable chemistry and a strong commitment to innovation, Kraton continues to support industries in their transition toward a more sustainable future.

Yokohama Rubber to introduce its comprehensive marine fender lineup at the World Ports Conference 2025

Hiratsuka, Japan—The Yokohama Rubber Co., Ltd., announces that it will participate in the World Ports Conference 2025, which will be held at Hotel Okura Kobe (Kobe City, Hyogo Prefecture) from October 7 (Tue) to October 9 (Thu). A comprehensive maker of marine fenders, Yokohama Rubber will introduce its expanded line-up of fender products at the conference.

The World Ports Conference is a global event organized by the International Association of Ports and Harbors (IAPH), the only international non-governmental organization (NGO) representing ports around the world. The World Ports Conference brings together professionals from across the global maritime supply chain to discuss the challenges facing ports, which play an essential role in global maritime trade. IAPH is headquartered in Tokyo and represents 194 major ports and 172 port-related organizations, companies and individuals in 86 countries.

Yokohama Rubber will exhibit at the conference showcasing its wide range of marine fenders, including pneumatic fenders and V-type, cell-type, and cone-type solid fenders. In addition to presenting the fenders' operational performance and many locations where its fenders are installed in ports in Japan and overseas, the company plans to show videos of its fender durability tests at its exhibit. Yokohama Rubber's marine fenders enhance the safety of ports, which are a crucial part of global logistics infrastructure and serve as a foundation for international logistics. Some 80% of global trade volume is transported by sea*, and Yokohama Rubber's marine fenders provide solutions for various important issues directly related to ensuring the safe and stable supply of food, resources, and energy. *Source: UN Trade and Development (UNCTAD)"Review of Maritime Transport 2024"

Fenders are cushioning materials used to protect a vessel's hull from impact with the quay during harbor moorings and during ship-to-ship operations at sea. Yokohama Rubber is a leading maker of these fenders, with a diverse product portfolio that includes pneumatic fenders and solid fenders. Since designing and developing the world's first pneumatic fenders in 1958, Yokohama Rubber has established a strong reputation for the high quality of its fenders with customers around the world and is established as the global leader in the fender market. Yokohama Rubber is currently implementing Yokohama Transformation 2026 (YX2026), its medium-term management plan for fiscal years 2024–2026. The plan includes a strategy for MB Segment growth driven by concentrating the segment's resources in its two strongest business domains—hose & couplings and industrial products. As part of this plan, Yokohama Rubber aims to steadily expand sales revenue from its industrial products by further strengthening its development of high-quality products and maintaining high market shares for fenders and other marine products.

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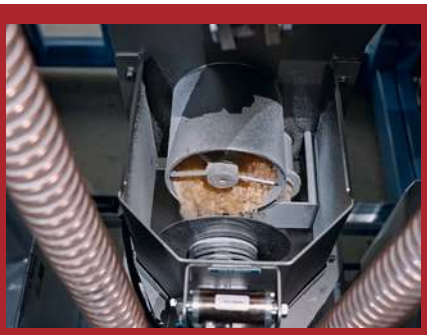

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Rubber Revolution : Balancing Nature and Innovation for a Sustainable Future

CONFERENCE FOCUS

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

KEY ACTIVITIES

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

VENUE

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CHAIRMAN

Dr. Krisda Suchiva

PROGRAM SCHEDULE

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

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

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Plenary Presentations

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

Keynote Presentations

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

Keynote Presentations

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

Invited Presentations

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

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Invited Presentations

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

Natural Rubber Symposium

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

Delegate Registration

Sponsor Registration

Exhibitor Registration

Contact Info

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Oral Presentations

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

Oral Presentations

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

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

Oral Presentations

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

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Oral Presentations

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

Poster Presentations

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

Poster Presentations

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

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Poster Presentations

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

Poster Presentations

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

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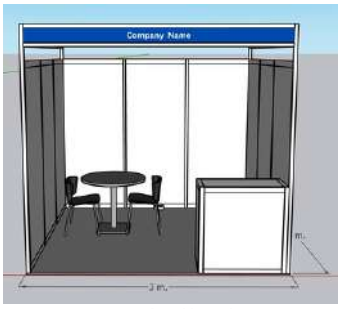
Trade Exhibition



9 SQM ShellScheme
Booth: 2800 US$

4 SQM ShellScheme
Booth: 1500 US$

Exhibitor Profile

Global Manufacturers & Suppliers of

- Natural & Synthetic Rubbers
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- 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.
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IRC2025 Secretariat
Polymer Society of Thailand
irc2025@thaipolymersociety.org
Contact : Dr. Taweechai Amornsakchai

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BANGKOK, THAILAND
International Rubber Conference

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International Rubber Conference Organisation

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Edition - 4 | Hybrid Event

TechnoBiz RUBBER WEEK

28-31 OCT 2025

COLOMBO, SRI LANKA

VENUE : MARINO BEACH HOTEL

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TechnoBiz RUBBER WEEK

28-31 OCT 2025
COLOMBO, SRI LANKA

Hybrid Event | Edition 4

A TechnoBiz Executive Forum on Rubber Industry & Technology

Training	**Conference**	**CEO FORUM**
Hall of Fame	**Rubber Clinic**	**Rubber Quiz**

About TechnoBiz Rubber Week 2025 – Sri Lanka

The 4th Edition of TechnoBiz Rubber Week 2025 will be held from 28–31 October 2025 at Marino Beach Hotel, Colombo, as a hybrid executive forum dedicated to the rubber industry and technology. This premier event provides a unique platform for professionals across plantations, manufacturing, academia, and business leadership to engage in knowledge exchange, skill development, and strategic dialogue with a strong focus on sustainability, innovation, and global market competitiveness.

The program begins with a specialized training course on Rubber Industry & Plantation Sustainability, covering ESG, carbon credits, life cycle thinking, EUDR compliance, and opportunities for smallholders and producers. Additional training sessions include Advanced Polymer Science: Structure, Analysis & Applications and Global Market Expansion: Marketing & Branding for the Rubber Sector, enabling participants to build both technical expertise and business capabilities.

At the core of the event is the Sri Lanka Rubber Conference (29–30 October), featuring five keynote lectures and over 25 technical presentations from leading experts on materials, processes, energy, sustainability, circular economy, and industry innovation. This is complemented by the CEO Forum (29 October, by invitation only), where top industry leaders gather to discuss strategic challenges, leadership, and the future vision for the Sri Lankan rubber sector.

Special highlights include the prestigious Rubber World – Hall of Fame Awards, the TechnoBiz Clinic (Rubber Doctor) for live technical troubleshooting, and the engaging Rubber Knowledge Quiz.

With its combination of training, technical sessions, recognition programs, and high-level networking opportunities, TechnoBiz Rubber Week 2025 offers a comprehensive and forward-looking forum to strengthen Sri Lanka's position in the global rubber industry while empowering professionals with the knowledge and connections to drive sustainable growth

Contact Person: Mrs. Yugantha Piyadasa | T: +94-77 317 5890 |E: yugantha.piyadasa@gmail.com

TechnoBiz
RUBBER WEEK

28-31 OCT 2025
COLOMBO, SRI LANKA

Hybrid Event | Edition 4

A TechnoBiz Executive Forum on Rubber Industry & Technology

Training | **Conference** | **CEO FORUM**

Hall of Fame | **TechnoBiz Clinic** | **Knowledge Test**

EVENT SCHEDULE

TRAINING

28 Oct 2025 | Tuesday | 9am-6pm
Rubber Industry & Plantation Sustainability: ESG, Carbon Credits & Life Cycle

31 Oct 2025 | Friday | 9am-12pm
Advanced Polymer Science: Structure, Analysis & Applications

31 Oct 2025 | Friday | 2pm-5pm
Marketing & Branding for Global Market Expansion

CONFERENCE

29-31 Oct 2025 | Wednesday - Friday
Sri Lanka Rubber Conference
- 5 Keynote Presentations | 25+ Oral Presentations

CEO FORUM

29 Oct 2025 | Wednesday | 7pm-11pm
- Rubber Industry CEO Forum *(by invitation only)*

AWARDS

29 Oct 2025 | Wednesday | 12pm-1pm
- Rubber World - Hall of Fame

CLINIC

29-30 Oct 2025 | 5pm-6pm
- TechnoBiz Clinic - Rubber Doctor

QUIZ

29-31 Oct 2025
TechnoBiz Knowledge Test - Rubber Technology

Chairman

Dr. Susantha Siriwardena

Project Manager

Yugantha Piyadasa

Founder

Peram Prasada Rao

Venue :
Marino Beach Hotel

TechnoBiz
RUBBER WEEK

28-31 OCT 2025 | COLOMBO, SRI LANKA


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Mridul Mathur

TechnoBiz

RUBBER WEEK

Hybrid Event | Edition 4

28-31 OCT 2025

COLOMBO, SRI LANKA

Marino Beach Hotel

Training Course | 28 October 2025 | 9am-5pm

Rubber Industry & Plantation Sustainability : ESG, Carbon Credits & Life Cycle Thinking

Course Content

- ESG Beyond Compliance: Creating Value under EU Rules
- Carbon Accounting & EUDR: Opportunities for Rubber Producers
- Life Cycle Thinking: Boosting Competitiveness in Rubber
- ESG & Smallholders: Social and Environmental Value in Supply Chains
- EUDR in Practice: Traceability Success of a Rubber Exporter
- Carbon Credits: Monetizing Sustainability in Rubber Plantations

Speakers

- Dr. Sampath Wahala, Senior Lecturer, University of Sabaragamuwa
- Dr. Pasan Dunuwila, Senior Lecturer, University of Sri Jayewardenepura
- Eranga Dilhan, General Manager Sustainable Business, MAS Holdings

Training Course | 31 October 2025 | 9am-1pm

Advanced Polymer Science: Structure, Analysis & Applications

Course Content

- Introduction to Advanced Materials
- Structure–Property Relationships: How structure dictates performance
- Analytical & Characterization Methods
- Smart and Functional Materials
- The impact of performance of products in applications

Speaker : *Dr. Suranga M. Rajapaksha*, Senior Lecturer, University of Sri Jayewardenepura | Head of R&D, Riley's PVT Ltd & Toyo Cushion.

Training Course | 31 October 2025 | 2pm-5pm

Global Market Expansion: Practical Marketing & Branding

Course Content

- Global Markets & Entry – understanding opportunities and strategies for expansion
- Cross-Border Branding – balancing global identity with local market adaptation
- Digital & Partnerships – leveraging online channels, distributors, and influencers
- Smart Storytelling – creating culturally sensitive and impactful brand messages
- Compliance & Risk – managing regulations, pricing, and brand protection
- Action Plans – learning from examples and building practical action plans

Speaker : Peram Prasada Rao, CEO/Founder, TechnoBiz

Contact Person: Mrs. Yugantha Piyadasa | T: +94-77 317 5890 |E: yugantha.piyadasa@gmail.com

TechnoBiz
RUBBER WEEK

Hybrid Event | Edition 4

28-31 OCT 2025

COLOMBO, SRI LANKA

Marino Beach Hotel

Sri Lanka Rubber Conference

29-30 October 2025 | Wed-Thu

29 October 2025 (Wednesday)

08:30-09:15	Delegate Registration
09:15-09:30	Program Introduction | *Peram Prasada Rao*
09:30-09:40	Welcome Remarks | *Dr. Susantha Siriwardena*
09:40-10:10	**Keynote Speech | Challenges in the Global Market and Necessity of Market Diversification** *Mohideen Cader, Group Managing Director, Sinwa Holdings Ltd., Sri Lanka*
10:10-10:30	**ESG in Action: Turning Sustainability into a Profit Engine** *Sakunthala Goonetilleke, Managing Director, Institute of Total Quality Solutions, Sri Lanka*
10:30-10:50	**TechnoBiz Services for Global Rubber Industries |** *Peram Prasada Rao, CEO/Founder, TechnoBiz*
10:50-11:10	**Coffee / Tea Networking Break**
11:10-11:30	**Data-Driven Rubber Processing: Turning Factory Data into Profit** Eng. Saman Gunathilaka, Head of Business Compliance, HITEC Sensor Developments Pvt Ltd
11:30-12:30	**Award Session | Rubber World - Hall of Fame**
12:30-13:30	Lunch Break

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28-31 OCT 2025

COLOMBO, SRI LANKA

Marino Beach Hotel

Sri Lanka Rubber Conference

29-30 October 2025 | Wed-Thu

13:30-14:00	**Keynote Speech | Shaping the Future of Sri Lanka's Glove Industry: Innovation, Market Demands and Industry Challenges |** *Dr. Upul Ratnayake, Director - Technical and R&D, Dipped Products PLC (Hayleys Group)*
14:00-14:20	**Global Solid Tire Industry: New Trends, Emerging Markets & Evolving Dynamics** *Ranil Abeysekara, Director – International Marketing & Sales , Rovince Industrial Tires (Pvt) Ltd., Sri Lanka*
14:20-14:40	***People, Process, and Product: Leveraging Systems Thinking in AI for Rubber Manufacturing*** *Don Merl, Director of Operations & IT, Clinco Rubber Mouldings (Pvt) Ltd., Sri Lanka*
14:40-15:00	**Life Cycle Assessment for Sustainable Rubber Products Manufacturing** *Umesh Hettiarachchi, Team Leader - Sustainability Assessment & Verification, Control Union Inspections (Pvt) Ltd.,*
15:00-15:30	**Coffee / Tea Networking Break**
15:30-15:50	**Chemical Modification of Natural Rubber Latex for New Materials** *Dr. Asangi Gannoruwa, Head-Department of Materials & Mechanical Technology* *Faculty of Technology, University of Sri Jayewardenepura, Sri Lanka*
15:50-16:10	**Green chemicals impacts in Rubber Chemistry and Technology** *Subir Sen, Managing Director, PMC Rubber Chemicals, India*
16:10-16:30	**Natural Rubber Films in Electromagnetic Radiation Shielding Applications.** *Dr. Dhammika Weerathunga, Senior Lecturer University of Sri Jayewardenepura*
16:30-16: 50	**Converting Effluent Treatment Plant Sludge from Glove Manufacturing into Organic Fertilizer** *Dr. Sunil Mendis, R & D Director, ATG Group of Companies*
16:50-17:10	**Nitrosamine-Safe Accelerators for Sustainable Rubber Product Manufacturing** *Dr. Hasara Samarasingha, Research Officer, Rubber Research Institute Sri Lanka*
17:10-18:00	**TechnoBiz Clinic : Rubber Doctor**

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COLOMBO, SRI LANKA

Marino Beach Hotel

Sri Lanka Rubber Conference

29-30 October 2025 | Wed-Thu

30 October 2025 (Thursday)

09:00-09:30	**Keynote Speech | Innovative Materials & Processes: Shaping the Future of the Rubber Industry |** *Prof. Shantha M Egodage, University of Moratuwa, Sri Lanka*
09:30-09:50	**Dry Natural Rubber Cellular Composites : Properties & Applications |** *Dr. W.D.M. Sampath , Senior Research Officer, Rubber Research Institute of Sri Lanka (RRISL)*
09:50-10:10	**Cost-Effective and Reliable Method for Latex Testing** *Mridul Mathur – Regional Sales Manager, Foss India Pvt. Ltd.*
10:10-10:30	**Sustainable Use of Energy in Rubber Industry in Sri Lanka** *K.S Kithsiri, Director (Industrial and Services Sectors), Sri Lanka Sustainable Energy Authority*
10:30-10:50	**Coffee / Tea Networking Break**
10:50-11:20	**Keynote Speech | Renewable Energy in Sri Lanka: Current Landscape & Future Trends Impacting Industry |** *Dr. Dinesh Attygalle | Senior Lecturer, University of Moratuwa, Sri Lanka*
11:20-11:40	**Measuring What Matters: Carbon Pool Assessment and Monitoring Protocols in Plantation Carbon Credit Projects |** *Prof. Hemanthi Ranasingha, University of Sri Jayawardenapura*
11:40-12:00	**Rubber Plantations as Climate Guardians: A Sustainable Perspective** *Dr. Mahinsasa Rathnayake, Senior Lecturer, University of Moratuwa*
12:00-12:20	**Effective Testing and Institutional Connectivity: A Framework for Reverse Engineering Rubber and Plastics in Sri Lanka |** *Dr Sudarshana Perera, Lecturer, Institute of Technology, University of Moratuwa*
12:20-12:40	**Practical Applications of the Rubber Process Analyser (RPA) in Production Floor Operations** *Shyanaka Shyamal Walgama, Polymer Technologist at Elastomeric Engineering Co. Ltd*
12:40-13:40	**Lunch Break**

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28-31 OCT 2025

COLOMBO, SRI LANKA

Marino Beach Hotel

Sri Lanka Rubber Conference

29-30 October 2025 | Wed-Thu

13:40-14:10	**Keynote Speech | EUDR Readiness of Sri Lankan Rubber Plantations** *Manoj Udugampola | Director, DR Industries Pvt Ltd, Damro Group, Sri Lanka, Agalawatte Plantations PLC, Sri Lanka*
14:10-14:30	**Computational Chemistry Approaches: Designing Sustainable, High Performance Rubber Products for a Circular Economy |** *Dr. Baggya Karunarathna, Senior Lecturer, Faculty of Science, Eastern University Sri Lanka*
14:30-14:50	***Unlocking Value through Intellectual Property: Driving Innovation and Competitiveness in Sri Lanka's Rubber Sector |*** *Vindya Wijesinghe, Senior Innovation Officer, National Innovation Agency, Sri Lanka*
14:50-15:10	**Diatomaceous Earth Incorporated Natural Rubber Latex Foams as Efficient Oil Sorbents** *Dr. M. A. Madhubhashini Maddumaarachchi Senior Lecturer, University of Sri Jayewardenepura*
15:10-15:30	**Coffee / Tea Networking Break**
15:30-15:50	**Total Quality Management (TQM) in the Rubber Industry |** *Dr.HPPS Somasiri , Add. Director General – Technical Services Industrial Technology Institute, Sri Lanka*
15:50-16:10	***Assuring Product Quality through Laboratory Accreditation and Analytical Test Results*** *Subadra Jayasinghe, Laboratory Quality Consultant for UNIDO*
16:10-16:30	**Driving Circular Economy Performance in the Rubber Sector through ISO 59020:2024** *Gayan Ranasinghe, Scheme Manager- Sustainability Assessment & Verification, Control Union Inspections (Pvt) Ltd.*
16:30-16:50	**Exploring the Role of Biochar in Strengthening Rubber Materials** Prof. Lalin Karunanayake, Department of Polymer Science, University of Sri Jayewardenepura
16:50-17:10	**A Novel Devulcanizable Rubber System Based on Organic Chemistry Principles** *Dr. Chandima J. Narangoda, Senior Lecturer University of Sri Jayewardenepura*
17:10-17:30	**Building a Resilient and Sustainable Natural Rubber Ecosystem** Arshad Iqbal General Manager, M/S Kamar & Sons Holding (Pvt) Ltd
17:30-17:50	**Eco-Incentives in Action: How Sri Lanka's Rubber Industry Supports Growers Through |** *Dr. Lakshman Rodrigo, Senior Scientist International Center for Research in Agroforestry (ICRAF)*
17:50-18:30	**TechnoBiz Clinic :** Rubber Doctor

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RUBBER WEEK

Hybrid Event | Edition 4

28-31 OCT 2025

COLOMBO, SRI LANKA

Marino Beach Hotel

CEO Forum | 29 Oct 2025 | 7pm-10pm

Sri Lanka Rubber Industry CEO Forum

19:00-19:20	***Welcome Remarks*** *Dr. Sisira Ranatunga, Director General* *Sri Lankan Association of Manufacturers and Exporters of Rubber Products (SLAMERP)* *Dimantha Jayawardena, Chairman* *Sri Lanka Automotive Component Manufacturers Association (SLACMA)*
19:20-19:40	**Keynote Speech | National SME Policy Framework and Entrepreneurship Development in Sri Lanka |** *Lakshman Abeysekera, Chairman and Director General National Enterprise Development Authority (NEDA), Sri Lanka*
19:40-20:00	**Keynote Speech | Visionary Leadership and Entrepreneurship Development** *KS Venkatesh, Managing Director, SRP Synthetic Rubber Products Pvt., Ltd., India*
20:00-20:30	**TechnoBiz RoundTable** | Rubber Sri Lanka 2030 - Leadership, Vision, Innovation & Growth
20:30-20:35	**Vote of Thanks** | *Yugantha Piyadayasa*
20:30-22:00	Networking Dinner

Delegate Registration Fee / Person

Sri Lanka Rubber Conference (29-30 Oct 2025)	30,000 LKR	300 US$
Training - Rubber Industry & Plantation Sustainability (28 Oct 2025)	20,000 LKR	200 US$
Training - Advanced Polymer Science (31 Oct 2025)	15,000 LKR	150 US$
Training - Global Market Expansion: Marketing & Branding (31 Oct 2025)	20,000 LKR	170 US$
Sri Lanka Rubber Industry CEO Forum (29 Oct 2025)	15,000 LKR	200 US$

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Peram Prasada Rao , Project Director / Founder
Tel/WhatsApp: +66-89-489 0525 Email: peram.technobiz@gmail.com

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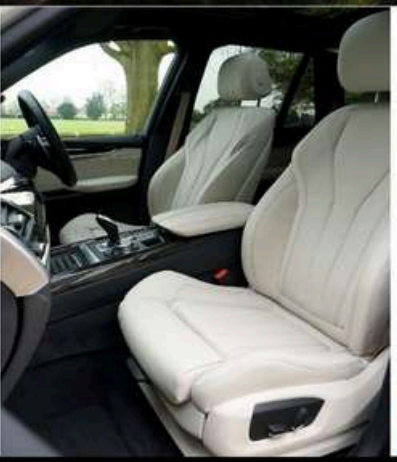

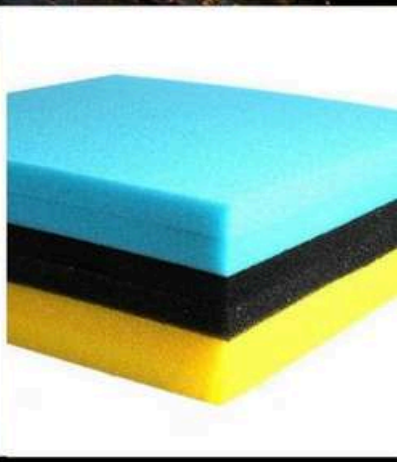

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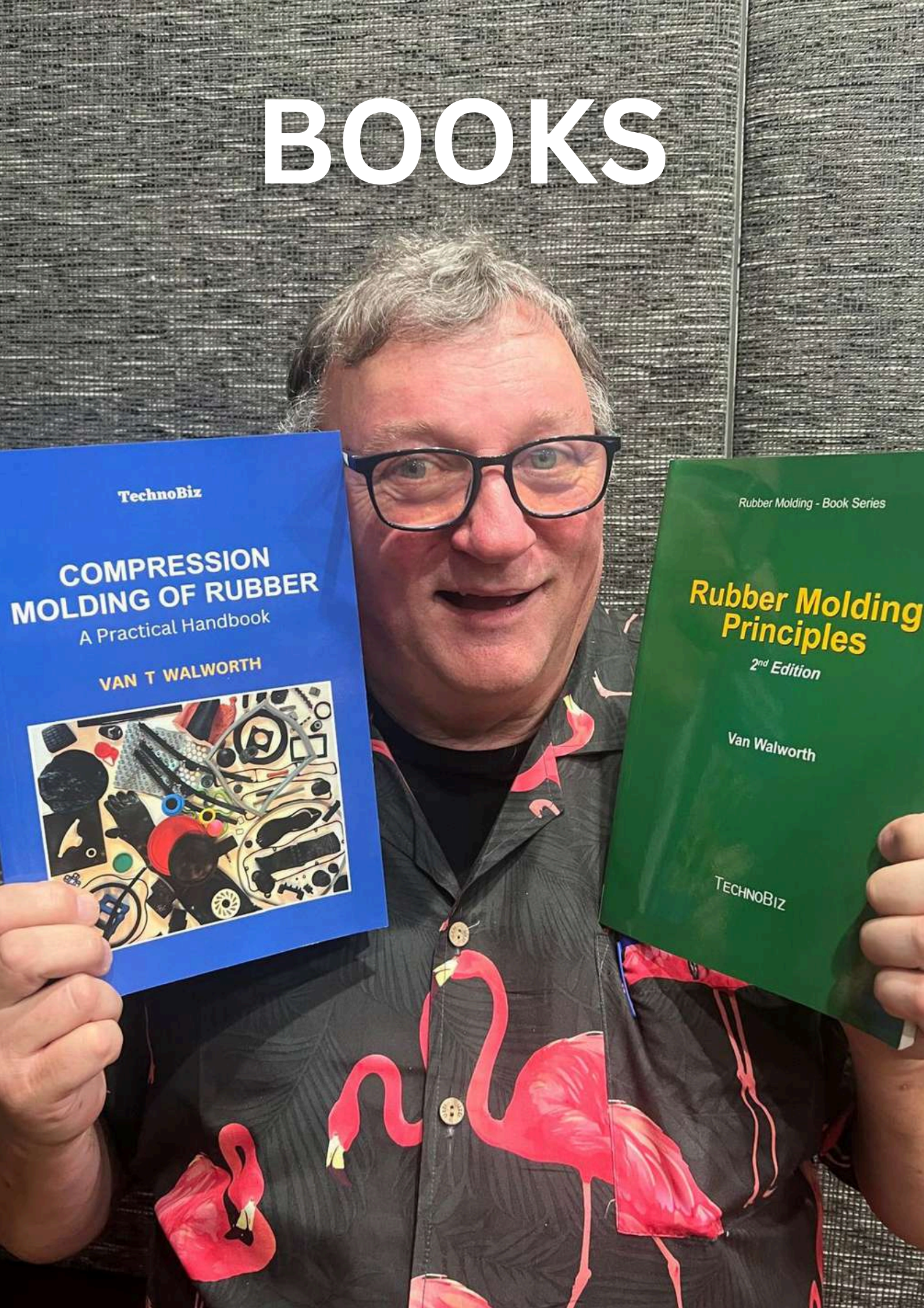
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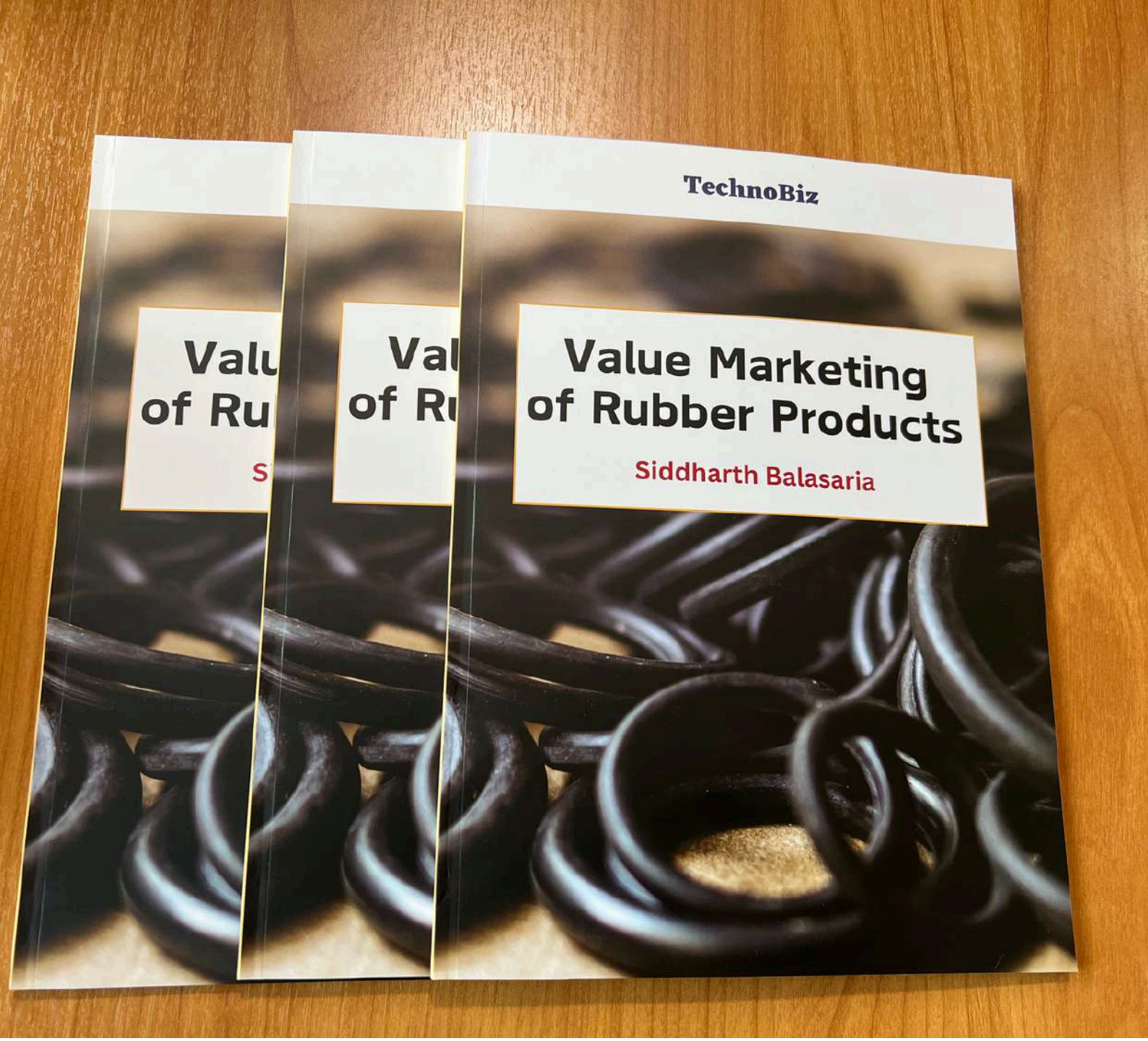

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Compression Molding of Rubber
A Practical Guide

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

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Chapter 3: Rubber Molding Presses Used in Compression Molding
Chapter 4: Compression Molding Parting Line Options
Chapter 5: Compression Mold Alignment & Registration
Chapter 6: Compression Molding Tear-Trims, Over-Flows, and Vents
Chapter 7: Compression Molding Preform Considerations
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Chapter 9: Basic Rubber Compression Mold Design
Chapter 10: Compression Molding Process Troubleshooting
Chapter 11: Compression Molding Process Considerations

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RubberWorld

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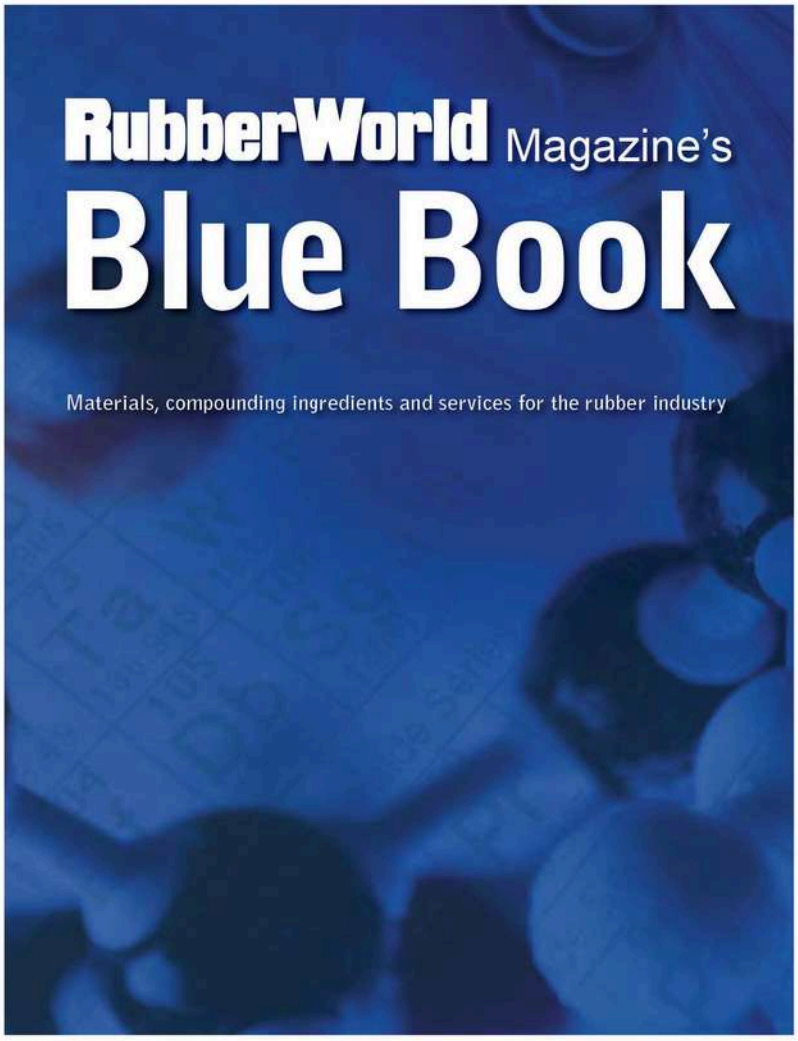

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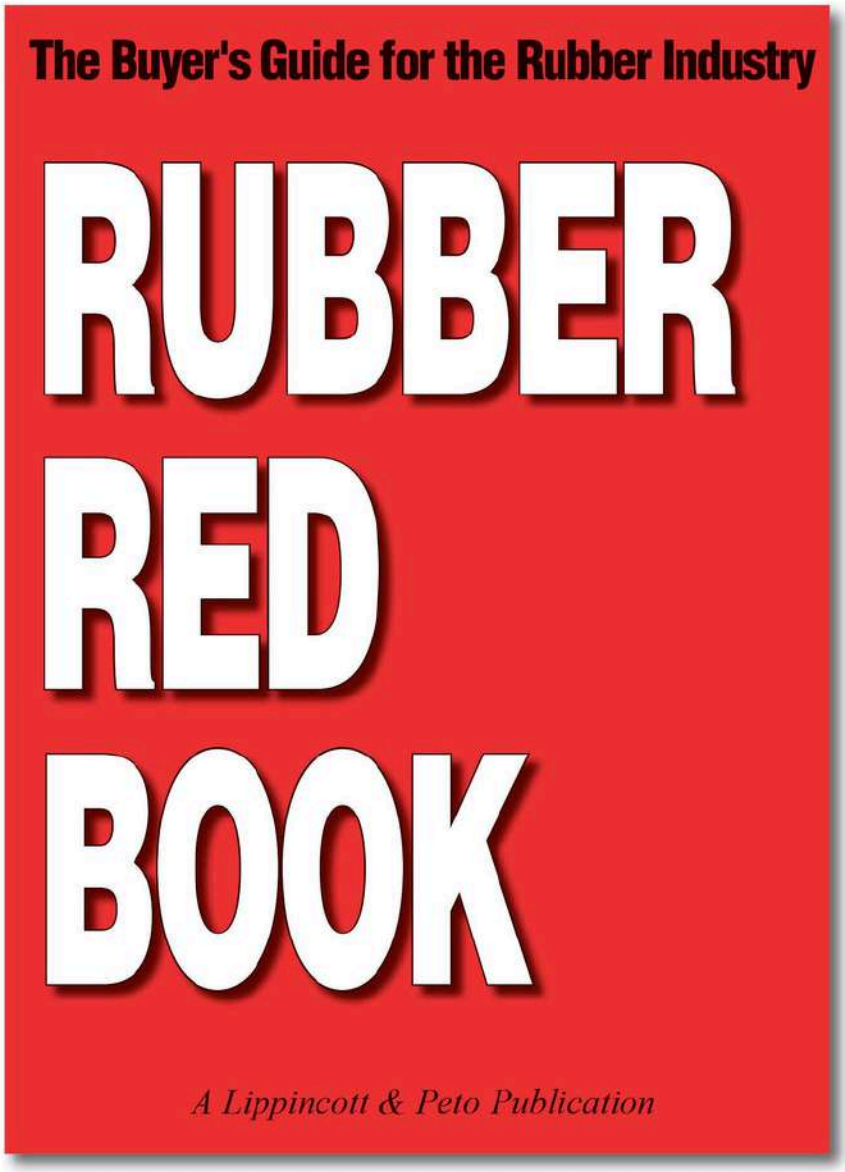

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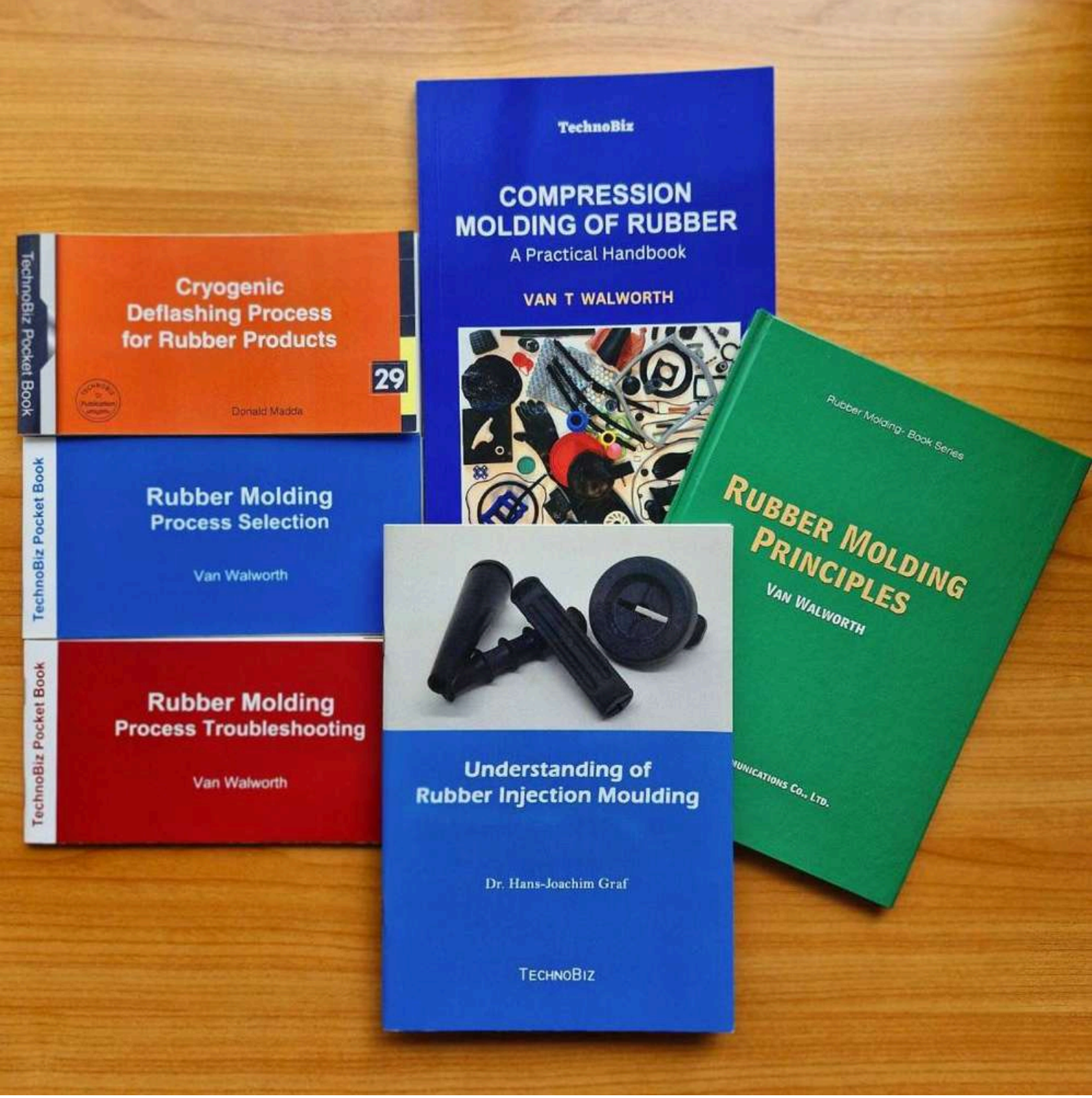

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UNIBOND

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

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