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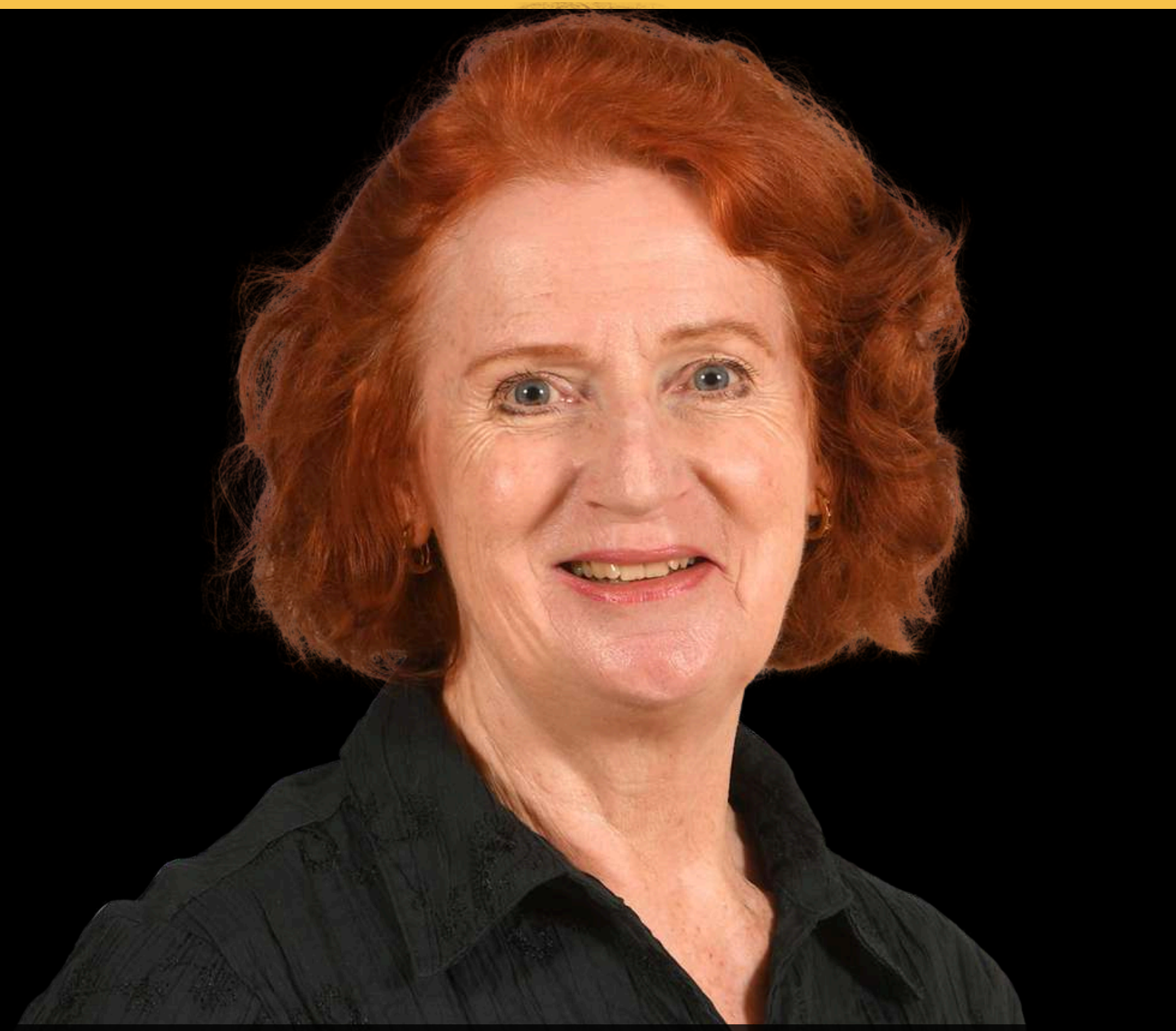

Dr. Katrina Cornish, Center Director
U.S. Arid Land Agricultural Research Center
U.S. DEPARTMENT OF AGRICULTURE

TechnoBiz

LATEX WEEK

24-26 SEPTEMBER 2025

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A TechnoBiz Executive Forum on Latex Industry & Technology





CHINA PETROLEUM & CHEMICAL INDUSTRY WEEK
SHANGHAI

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visitor registration

Sept.17-19, 2025
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Hall W4,W5|N1,N2,N3

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COVER STORY

Conversation with
Dr. Katrina Cornish, Center Director
U.S. Arid Land Agricultural Research Center
U.S. DEPARTMENT OF AGRICULTURE

Few individuals have left such a lasting mark on the global rubber industry as Dr. Katrina Cornish. A trailblazer in alternative natural rubber sources, she has spent decades working across government, academia, and industry to reduce America's dependence on imported Hevea rubber. Her work with guayule and other temperate-climate rubber crops has not only opened new possibilities for bio-based materials but has also positioned the U.S. to reclaim strategic control over a critical raw material.

Dr. Cornish's career reflects a rare blend of scientific brilliance, entrepreneurial grit, and policy advocacy. From her early days at the USDA to founding EnergyEne and multiple other startup companies, and leading research at Ohio State University, she has consistently turned bold ideas into scalable innovations. Her mentorship of the next generation of scientists and her leadership in interdisciplinary research are helping to build a sustainable, resilient future for the rubber industry.

In this interview, we explore the journey of a visionary. From her motivations and major milestones to the challenges of commercialization and the evolving policy landscape, Dr. Cornish shares insights that are not only timely but vital for anyone invested in the future of materials science, agriculture, and sustainable industry.

What initially drew you to the world of rubber science, especially alternative rubber sources?

It was rather fortuitous. I was working at the USDA Western Cotton Research Laboratory in Phoenix as a post-doc when I heard about a guayule post-doc position available at Arizona State University. So, I took up that opportunity and the rest is history. I quickly became aware of how critical natural rubber is and how tenuous and fragile is its supply, and how little we knew, at that time, about how it is made and how molecular weight is regulated. It is a fantastic system to work in – lots of basic research questions with strongly applied goals from plant to product– exactly what I like, so I stayed with it.

Growing up, did you envision a career in science or agriculture, or was this something you discovered along the way?

I have always been drawn towards science. I was in elementary school (about 8 years old) when a teacher discussed the similarities among living organisms – especially between animals and plants. I was very struck by plants' ability to do everything we do except that they can't run away when things get tough. So, I felt they were much cleverer than animals and humans and became very interested in how they adapt, in place, to adverse conditions. Also, I grew up in a small market town in a rural area in eastern England, had farm kids as friends, and my paternal uncle ran the Cornish family farm when I was a child, so I was always close to agriculture.

Can you recall a moment early in your career that confirmed this was the right path for you?

My senior undergraduate year was heavily loaded with independent research projects which contributed about 40% of my final grade. I really enjoyed these and when I got a first class honors degree in Biological Sciences (one of only two awarded in my class) while still 20 years old, I was stunned, but felt it was a real validation that I could do this type of work.

Your work has led to over 330 papers and numerous patents. Which breakthroughs are you most proud of?

In my early career, I was the first person to prove that plant roots make the stress hormone abscisic acid (ABA) and that the stomata in leaves shut at the onset of drought stress to conserve water due to a redistribution of previously synthesized ABA before the guard cells make enough of their own to keep the stomata closed.

With respect to rubber research, I proved that guayule could be used as a source of latex and that the latex products could be used safely by people with Type I latex allergy because guayule latex is free of those allergenic proteins. This was followed by proving that the methods I used to purify small amounts of enzymatically-active rubber particles (essentially a form of latex) could be scaled up to make much larger amounts of guayule latex. Until this development, because guayule doesn't have laticifers, it had only been considered as a source of solvent-extracted solid rubber for products like tires. If you slice into a guayule stem you do not see latex bleeding out. This new process was my first introduction of the patent landscape too – and how different it is to writing scientific papers. Guayule rubber does make great tires but commercial tires need commodity volumes and commodity process – impossible on a small scale.

The next breakthrough was publishing my first investigations of the biochemical regulation of molecular weight and biosynthetic rate, and how these are similar and different among rubber-producing species. Very briefly, enzymatically active rubber particles can be purified from different rubber-producing species. So far, all polymerize rubber in similar biochemical processes from an allylic pyrophosphate initiator (usually the C-15 farnesyl pyrophosphate (FPP) in vivo) and the non-allylic isopentenyl pyrophosphate (IPP) monomer, with divalent magnesium ions (Mg^{2+}) as an essential activator. Initiation rate of new molecules and their polymerization from IPP and the resultant molecular weight are both strongly dependent upon substrate and activator concentration. Only the guayule rubber transferase appears able to directly exert some control over polymer length – in laticiferous species it seems that the laticifer machinery itself exerts this control. The right amount of Mg^{2+} is of critical importance.

What was the turning point that made guayule a commercially viable source of natural rubber?

There are actually multiple turning points, and although I firmly believe that guayule is already commercially-viable, it is still not commercially produced and sold in the marketplace.

The key turning point was the widespread development of Type I latex allergy, especially in the United States. Type I latex allergy indirectly arose because of the AIDS epidemic which began in the US in 1981. In 1985, the Centers for Disease Control and Prevention (CDC) introduced universal precautions, which included the widespread use of gloves to prevent the spread of bloodborne pathogens such as HIV. This action by the CDC jumped glove demand from 2 to 30 billion/year. In response, many inexperienced glove manufacturers sprang up in southeast Asia and the far east who omitted the inline leaching process. Many people were sensitized to high levels of proteins left in these gloves and, once sensitized, people died from anaphylactic reactions triggered by even tiny amounts of latex protein. Guayule latex was proved to not contain any cross-reactive proteins, and its products could be handled safely by people with full-blown clinical Type I latex allergy. In addition, guayule latex is very low protein and most that the protein it does have is not immunogenic in humans. I also helped develop ASTM standards to ensure that guayule latex is always properly purified and uncontaminated with potentially allergenic latices. Since then, I have also optimized the xanthate-based accelerator curing system developed by Robinson Brothers, Bromwich, UK, so that guayule latex products can be truly circumallergenic - avoiding both systemic (protein) and contact (chemical) rubber-related allergies and reactions.

Tell us about your most challenging R&D phase and how you overcame it.

It would be getting guayule latex production to where it could be commercialized by licensing to a company. I have described this in some detail in a review article associated with my Goodyear Medal address, which was published in the journal Rubber Chemistry and Technology in July 2025. It was quite the palaver: every time I addressed or resolved an industrial need or barrier to entry, potential industrial partners came up with another one! It took about 5 years before licensing became a real possibility. Of the 100+ companies I had talked to, five eventually competed for an exclusive license. Then one company appealed the USDA's decision to license to a different company and the USDA then changed its mind. Even after the processing patent was licensed, I was then faced with securing the stronger product-by-process patent. The US Patent examiner required that I extract guayule rubber using half a dozen previously issued patents dating back to the 1930's and then prove that the rubber from my process was distinctly different to that produced by those earlier processes. I think the examiner was quite surprised that I actually did accomplish this over the next 6 months – but I got the product by process patent. Overall, 23 different labs, both national and international, contributed to this success.

Can you walk us through one of your patents and its real-world impact?

Yes, I will tell you about one that is perhaps less obvious than my plant, processing and product patents. This came about when I met *Dr. Yael Vodovotz*, shortly after joining OSU, and found that she was facing significant challenges with her research on biodegradable plastic food packaging made from bacteria-produced poly-hydroxy-butyrate co-valerate (PHBV). PHBV was too brittle, had a narrow processing window, and had unacceptable rates of oxygen and water permeation. All of these property deficiencies could potentially be fixed by adding natural rubber – if we could marry together a nonpolar rubber with a polar bioplastic.

Our successful R&D effort resulted in Patent US 2022/0025174 A1: Bio-Based Polymer Compositions and Methods of Making and Using Thereof. This patent discloses a significant advancement in biodegradable polymer technology through peroxide-crosslinked PHBV/natural rubber blends that address the fundamental brittleness and permeation limitations of pure PHBV. The invention utilizes organic peroxide-initiated reactive extrusion to incorporate 2-25 wt% natural rubber into the PHBV matrix, creating covalently bonded interfaces with uniformly dispersed rubber particles (20-30 μm) that prevent coalescence while improving interfacial adhesion between the inherently incompatible phases. The patent demonstrates substantial mechanical improvements in the blends: tensile strengths of 12-33 MPa, flexural modulus spanning 750-3250 MPa, and impact strength of 28-35 J/m. Thermal analysis showed melting temperatures decreasing from 172°C to 168-171°C, broadening the processing window, while crystallinity was reduced from 74.7% to 57.2-70.3% depending on rubber loading. Thus, PHBV crystal formation was disrupted and flexibility was enhanced. The technology maintains complete biodegradability with gel fraction measurements confirming successful crosslink formation proportional to rubber content.

The invention provides compositional flexibility across multiple rubber grades (Standard Malaysian Rubber-L, Standard Indonesian Rubber-20, Standard Vietnamese Rubber constant viscosity), various peroxide loadings (0.5-2 parts per hundred rubber), and optimized twin-screw extrusion conditions. Food contact validation and real-world testing demonstrated commercial viability, with manufactured trays exhibiting water vapor permeability and heat-sealability equivalent to polypropylene. The technological significance lies in creating biodegradable polymer blends that achieve petroleum-plastic performance without environmental persistence, addressing the critical gap between sustainability requirements and mechanical property demands in packaging applications while enabling widespread replacement of conventional plastics across food service, agricultural, and consumer sectors.

The ongoing R&D team at the Ohio State University, led by Dr. Vodovotz, has further improved this rubbery bioplastic material by creating an amazingly effective compatibilizer from oil extracted from used coffee grounds and then epoxidized. When incorporated into PHBV/natural rubber blends at just 0.3% by weight, the coffee oil epoxide delivers remarkable performance improvements, including barrier properties able to directly compete with conventional packaging materials like low-density polyethylene while maintaining full biodegradability. Of course, these materials contain no PFAS, phthalates or synthetic plasticizers.

How do you balance deep scientific research with the need for practical, scalable solutions?

This is exactly what I like the best. I am not an ivory tower sort of scientist. I want my research to matter in the real world. One of the ways to do this is to look at the desired outcome first. For example, why do so many patients contract life threatening ventilator associated pneumonia (VAP) and how can we fix that problem? Before Type I latex allergy, the intubation tube was held in place in the trachea by a gently inflated natural latex balloon. This had to be replaced by a synthetic polymer, polyvinyl chloride, because of the dangerous allergy. However, inflating a plastic bag does not form a perfect seal with the tracheal wall and pleats remain. Bacteria-laden saliva leaks through the pleats in the lungs and causes VAP.

We proved that the plastic balloon can be replaced with a guayule latex balloon and, in the meantime, the plastic balloon can be covered with a guayule latex outer cuff that forms a perfect seal when the interior plastic balloon is inflated. It turns out that 10 – 12 drums of guayule latex a year could prevent VAP in the US, save around $100 billion in associated health care costs, and many unnecessary deaths. This type of application also makes the cost of the raw material irrelevant. I am always looking out for un-met needs and performance enhancements that the alternative latex and rubber materials can address. These can only be identified by a deep understanding of the material composition, behavior and performance.

At the Ohio State University, you led a major research program. What were the most rewarding parts of your work there?

Building the research program, recruiting more faculty into the program, and training the students. I got the reputation that if a professor visited me in my office he/she would become a collaborator before leaving. When I was recruited by OSU, the initial program had been running for several years but without any publications or students. By the time I left in 2024, I had graduated 26 post-graduate students, submitted around 60 inventions disclosures, filed over 25 patents, and published 180 papers on different aspects of rubber dandelion and guayule.

How do you mentor PhD students to think both scientifically and entrepreneurially?

I emphasize the research questions and the quality of the science but also stay on the lookout for IP. Then I discuss the IP potential with the student; not just if it unique and patentable but if anyone would be interested in the invention. This is where the university and I would sometimes disagree. Many of my invention disclosures and patents have student inventors, which I think really helped me win the 2018 OSU Inventor of the Year Award.

Have any of your students gone on to launch companies or lead innovation in rubber science?

Launching companies is very difficult if you still have to pay the household bills. So, although some of my students would have loved to try, it just wasn't practical for them. Several did participate in the NSF I-Corp program. However, several of my graduates are working in the rubber and materials industries, or agribusiness, while others have academic positions.

How do you approach interdisciplinary teaching, especially between agriculture, chemistry, and engineering?

They are all interrelated and I try to teach students to understand that larger picture. What are the parameters of the crop that need to be controlled to maximize extraction efficiency and latex and rubber quality. What are the key engineering parameters that affect extraction efficiency and can they inform improvement targets to plant breeders, molecular biologists or growers? What about post harvest logistics and how do these change because of the product you are after?

What inspired you to co-found EnergyEne, and what gap were you trying to fill?

I founded EnergyEne after Yulex went bankrupt. Guayule latex is just far too good a material to abandon. Yulex's failure was nothing to do with guayule itself – the company basically lost control of their extraction process, I believe. Also, EnergyEne and American Sustainable Rubber (another rubber company I cofounded based on hydroponic rubber dandelion production) merged in January 2025 to form CRT (Cornish Rubber Technology), as I divested all my commercial interests as required by USDA, my current employer. The freedom to found start-ups was a key reason that I went to academia after resigning from Yulex rather than returning to federal service at that time.

How does CRT's circumallergenic guayule latex differ from traditional sources?

Guayule latex, as publicly acknowledged by the Food and Drug Administration, contains no proteins that cross-react with antibodies raised against the allergenic proteins in tropical (Hevea) latex in humans, rabbits or mice. Thus, it cannot trigger an allergenic reaction in a person suffering from life-threatening Type I latex allergy. Also, guayule latex contains about 1% of the protein concentration in Hevea latex and 90% of that tiny fraction belongs to a class of proteins that has never been implicated in human allergies. ASTM has standards that can be followed to ensure that guayule latex is always low protein and uncontaminated by other latices. Guayule latex can be very effectively compounded with the xanthate-based accelerators developed by Robinson Brothers. One of these is consumed in the curing reaction while the other is so large that it cannot bloom to the surface of a rubber product and come into skin contact as can happen with traditional accelerators. This is why I coined the term "circumallergenic" – guayule latex compounded with xanthates avoids, or circumvents, both systemic (Type I) and contact reactions (Type IV, contact dermatitis, etc.) Films made from guayule latex are softer, stronger and stretchier that those made from other latex sources and can contain much higher filler levels – a property also apparent in compression-molded samples of solid guayule rubber.

What were the biggest hurdles in bringing an agricultural biotech startup to life?

Funding, funding, funding. Processing infrastructure has to be built and paid for. However, agricultural biotech startups of this kind are particularly challenging because most investors want a rapid return on investment. Two years to grow the crop to processing size, while concomitantly building the first commercial processing plant is hard for them to swallow, even though some low volume, high margin, markets are extremely profitable (tracheal tube balloons and cuffs, radiation attenuation medical gloves, etc.). Also, few companies are truly "soup to nuts" – they don't often traverse an entire value chain as must be accomplished here. Most manufacturing companies want to buy their feedstocks, not grow them!

What's your vision for the future of natural rubber in the US and globally?

There are no insurmountable technical barriers preventing diversification of the natural rubber supply. It is truly remarkable that only a single species is used for commercial production of such a critical agricultural material – essential in ~50,000 different products. All other agricultural materials, such as protein, starch, oil and fiber have multiple sources. The consequences of relying on a single clonal tree species for this critical material could be unimaginably bad if the rubber tree crop collapses, as have several non-clonal tree species. Fortunately, at least 2,500 plant species make NR, and several have been proven as viable replacements or substitutes for tropical NR. It is imperative that at least one or two of these are established to meet projected increased demand and at a rapidly scalable level, before any new significant collapse of the Hevea rubber tree crop. We must not forget that it only took 6 months in the second half of 2019 for the Neofusicoccus and Pestalotiopsis leaf blights, thought to have jumped to Hevea from palm oil trees in Thailand, to spread across seven countries and over 500,000 ha of Hevea trees. I think the COVID-19 pandemic control measures halted the further spread of these diseases, and the 10% drop on production was not much felt because so many tire factories temporarily closed in 2020.

The world can't afford to keep clear cutting rain forests to plant more rubber trees, but demand will not stabilize until the whole world is fully developed – probably requiring at least double the natural rubber used today. A global moratorium on clear cutting is respected by most nations and companies and the Europeans have instituted a certification process to safeguard against this practice. Thus, increasing demand must be met by alternative natural rubber sources. Just 10% of US demand being supplied by alternative sources would be enough to protect supplies and stabilize prices and could be rapidly scaled up in response to a serious supply shortfall. I would love to drive down any freeway in the US past the rubber crops while seeing the occasional processing plant looming in the distance. I just really hope that we achieve this before Hevea is hit with the next infectious disease and that the fatal South American Leaf Blight (SALB) doesn't become established in southeastern Asia now that direct flights are permitted from Brazil.

How do you see synthetic biology or biotech shaping rubber production over the next decade?

Synthetic biology is developing at an extremely rapid rate. During the next decade, I expect to see a complete understanding of the rubber transferase complex and how to improve biosynthetic rates, how to make this happen in plants, and the first microbial platforms that could allow rubber to be made in bioreactors. I also expect to see much larger concentrations of rubber produced in alternate crops than is currently the case because the plants can contain much more. I personally have seen 24% in guayule (defoliated stem dry weight basis) and 22.8% in dry rubber dandelion roots but our crops don't contain anywhere near that. I also expect to see rubber variants being made by different cultivars – diversifying rubber properties and product opportunities.

What do you believe are the top 3 barriers still holding back adoption of alternative rubber sources?

- Funding – for extraction plants.
- Committed customers – of the "if you make it we will buy at this price point" kind. This feeds back into (1) if looking at investment
- Multiple markets for farmers.

All three of these are interdependent.

Looking back on your career, what personal qualities have helped you grow in your career?

Vision and perseverance. I am a "dot connector" – I see how different findings, facts and needs can come together to further my own research and development goals. Also, I have never been stopped by not knowing how to overcome the next hurdle. There have always been people willing to help and provide guidance. Scientific principles remain the same even if the technical knowledge is initially lacking. Many of my peer-reviewed papers and patents are in fields in which I have no formal training.

What lessons would you most want your students or young scientists in generalto remember?

1. Don't accept dogma. I have been told many times that one approach or another could not work because it was scientifically impossible. This is quite common in natural rubber research because, for over a century of rubber chemists worked with a single material. The alternatives are similar but not the same. I have not yet found problems to be truly insurmountable if you look at the problem and think outside the box. What do you need to have happen to accomplish what you are trying to achieve? Then brainstorm ways to make it happen, try it, then fix what went wrong.

2. Know yourself – really have a think about who you are and what you want out of your career. Are you doing it because of you or because of the expectations of someone else? My father, for example, wanted me to be a medical doctor.

3. Then, do you enjoy your work? Do you find your subject area interesting? Is it meaningful to you, i.e. do you care about it in a fundamental way? If it is, and you do, you will be successful. However, if you do not, change fields or careers as soon as possible.

4. Think about the level of education you need to achieve your goals and ambitions. Do you really want or need to be the boss so that your own ideas are implemented, or would you prefer to be a valued key team member of a larger group? If the former, do your Ph.D., if the latter, don't go beyond your M.S..

5. Always take the high road – inevitably you will come across people who don't, but you don't have to allow yourself to be sucked down to their level. A reputation for ethical science and ethical behavior will stand you in excellent stead throughout your career.

6. Learn from those who know more than you, and mentor those who know less. Also, hire team members who know what you don't – after all, you already know what you know – and generously share the credit.

7. Don't let your ego get in the way of your achievements and success. Arrogance and hubris will just impede your progress: science matters a lot more than you do.

How do you want to be remembered in the field of rubber science?

I would like to be remembered as one of the scientists and engineers that allowed, or even caused, the biological and geographical diversification of the global natural rubber supply; that I made a difference, that I did my best, and that what I did was as accurate and real as I could make it. I want my publications and patents to be solid enough that the next generation of rubber scientists can reliably base their efforts on what has been done before and that the occasional inevitable error causes few difficulties.

Finally, what keeps you motivated today?

The elephant in the room. Reliance solely on clonal Hevea rubber trees is a recipe for disaster. Look what happened in the Irish potato famine – caused by one disease of clonal potatoes. I want to see commercially-viable alternative rubber crops and processing facilities established in my life-time. Think about it. How would a world without natural rubber work? How would we feed people in urban centers without trucks?

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:

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- Rubber compound formulation
- P rocess optimization through numerical simulation techniques
- Vulcanization cycle development
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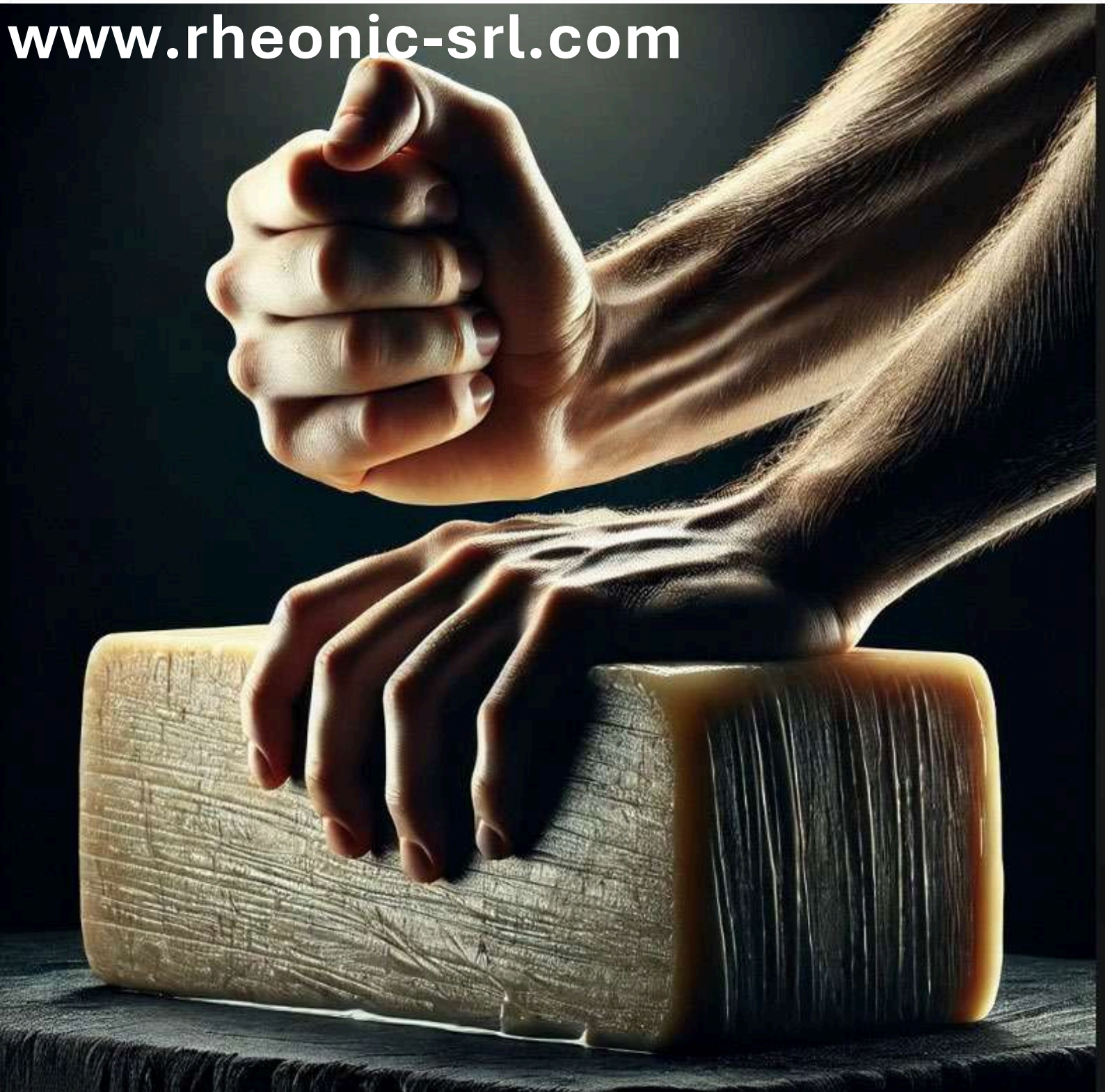

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On

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1st Session: 10.00 - 11.30 hrs., 2nd Session: 11.45 - 13.15 hrs.,
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(Four sessions in a day)

Course Fee: Registration fee of the course for each participant is Rs.12,000/-(Exclusive GST) in case of International the fee will be 200 $ each participants (inclusive GST) for 2 days

Days	10.00 - 11.30	11.45 - 13.15	14.15 - 15.45	16.00 - 17.30
25th July '25	Introduction to Rubber Science and Rubber & Rubber like Material	Rubber Compounding Ingredients: General, Special and Specialty Rubbers	Rubber Compounding Ingredients: Reinforcing Materials	Rubber Compounding Ingredients: Rubber Chemicals & Process Aids
26th July '25	Rubber Compounding Technology	Rubber Processing Technology: Mixing, Extrusion, Calendaring & Molding	Testing & It's Significance	Quality Control in Rubber Industries

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26 - 28 AUG 2025
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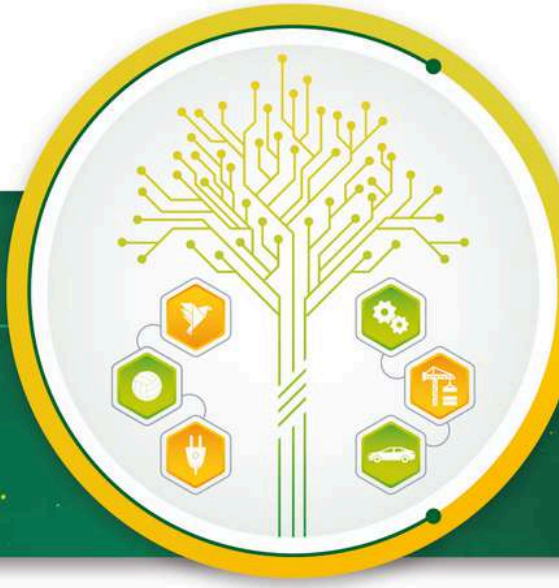

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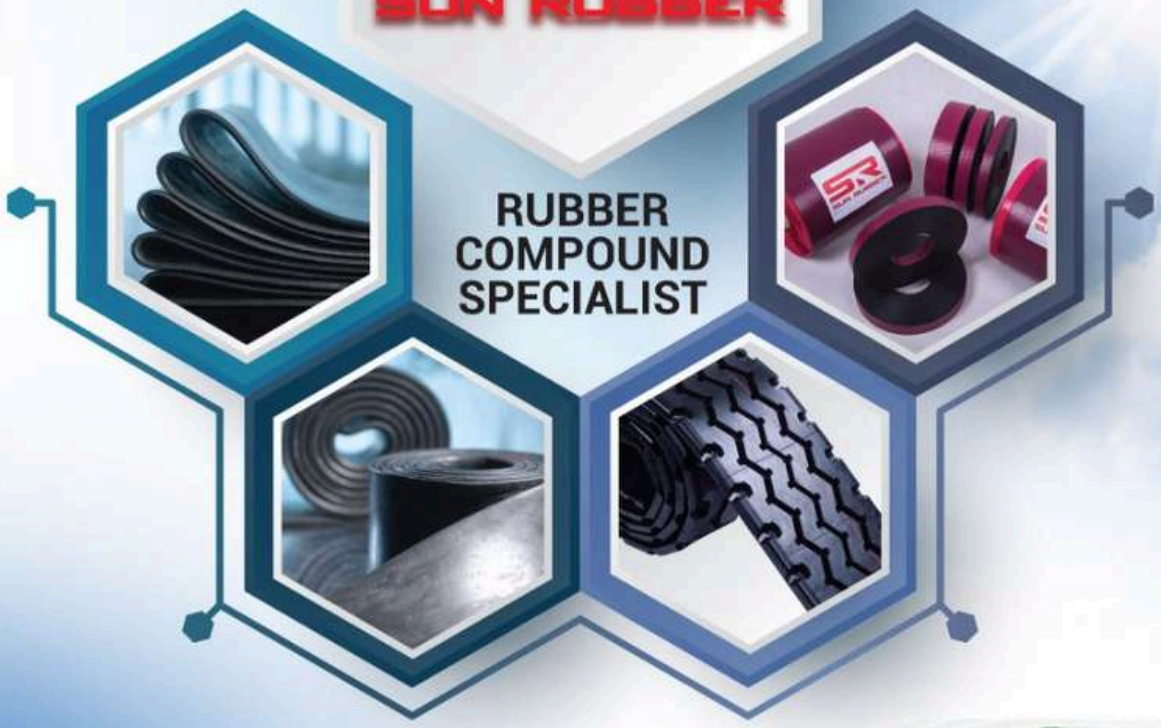

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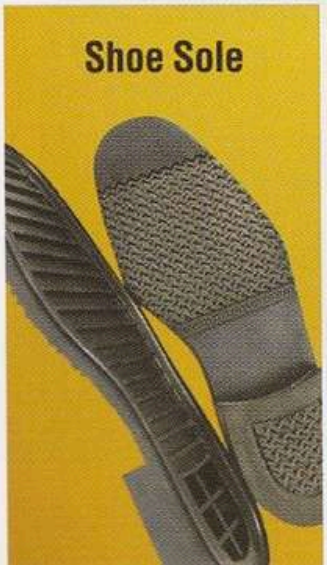

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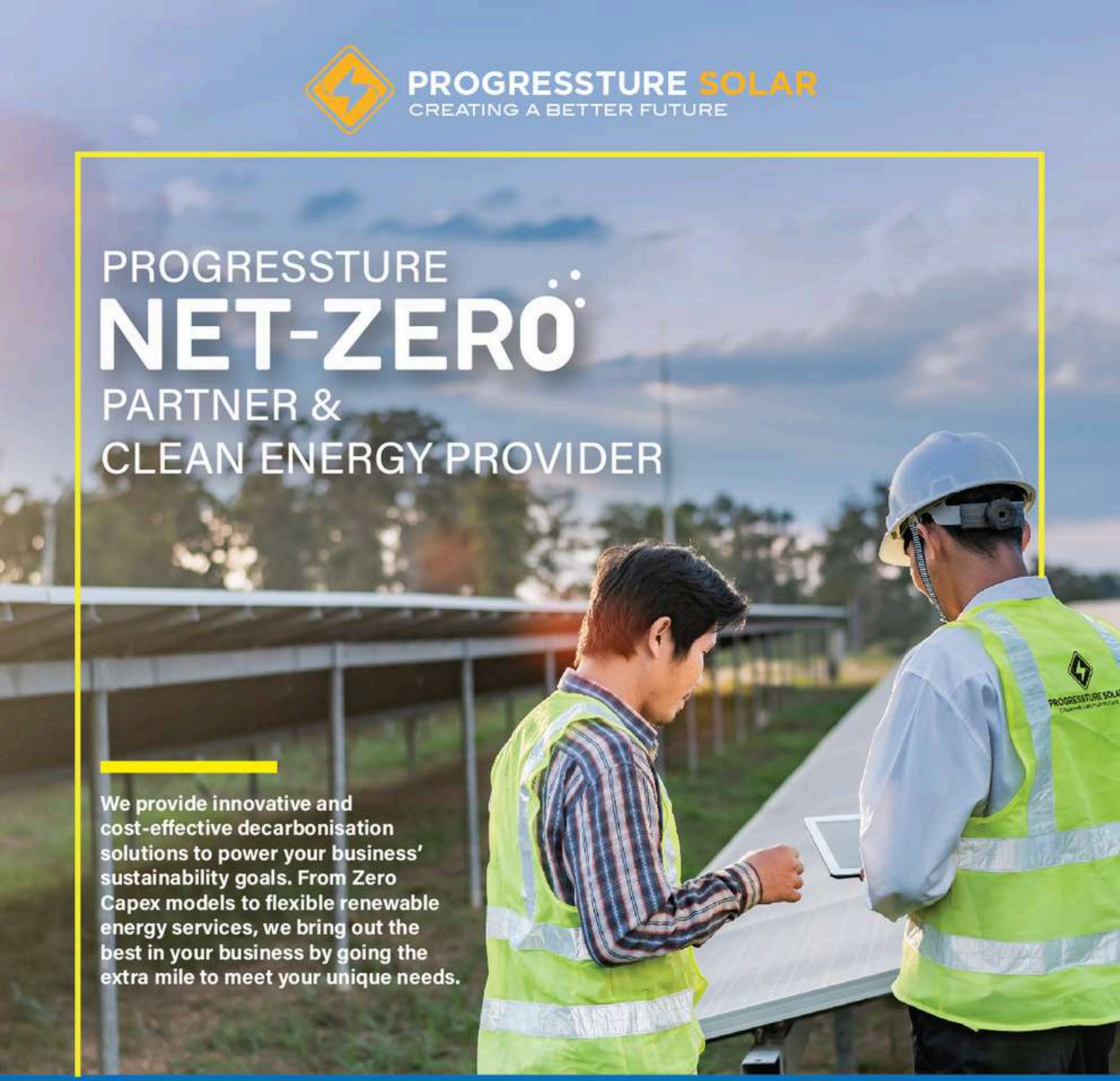

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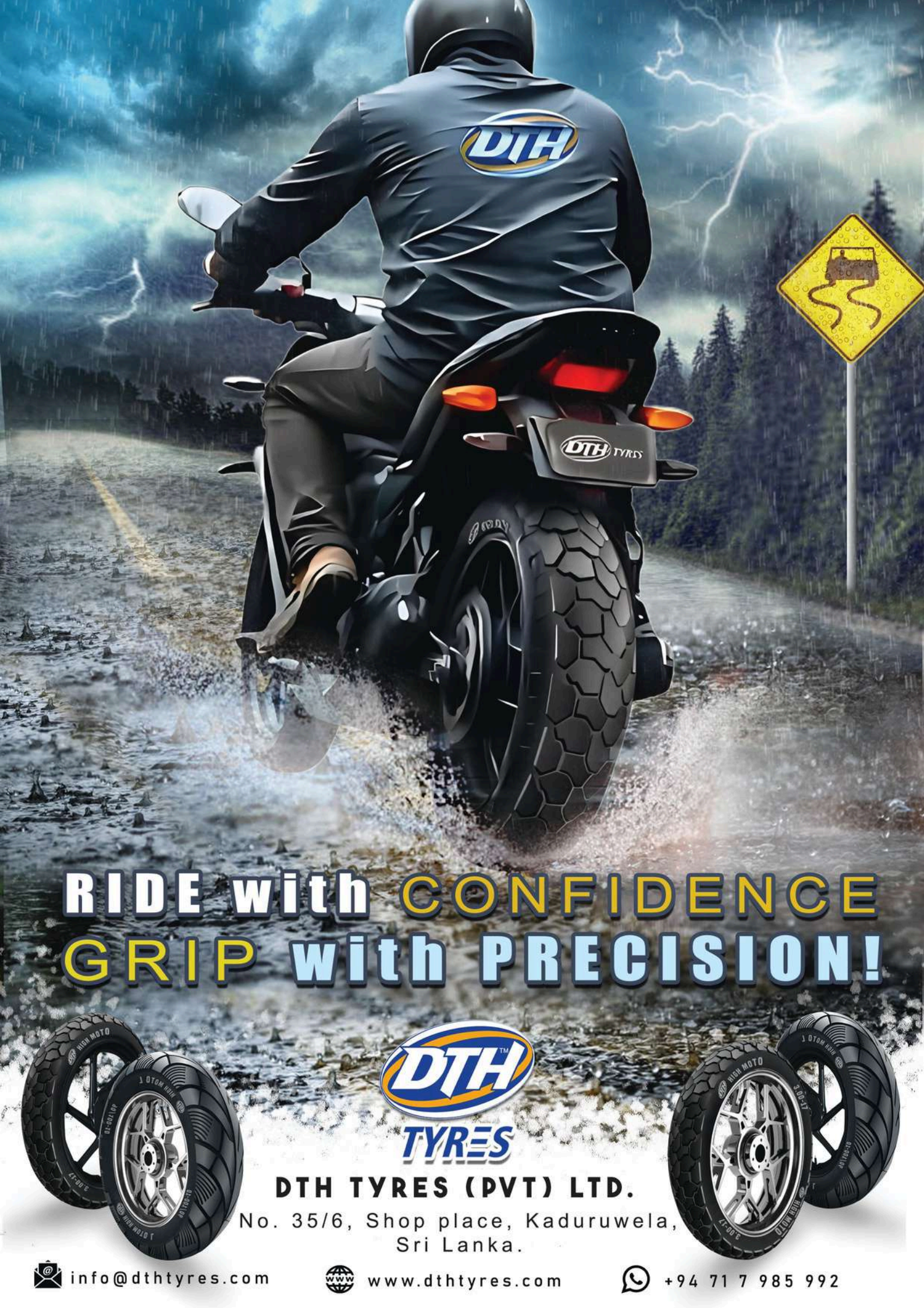
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RUBBER Review

Issue 11 | July 22, 2025

IRMRI Spotlight

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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

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

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

IRMRI Facilities Covers

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

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE REGIONAL CENTRE'S

IRMRI - South Center 1 (Andhra Pradesh)
Sri City Trade Centre, Sri City (Dt.)
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info.south@irmra.org
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IRMRI - South Center 2 (Tamil Nadu)
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Oragadam, Sriperumpudur (Tk.),
Kancheepuram (Dt.)
spdc1@irmra.org

IRMRI - East Center
South Asian Rubber Park,
P.O-Sankrail, Howrah (Dt.),
Dulagarh, West Bengal - 711302
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info.east@irmra.org
Mob. No.: +91-8197606600

IRMRI - North Center
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Sr. Deputy Director
South Centre Head

TV Sethumadhavan
Deputy Director

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Sr. Assistant Director
East Centre Head

Dr. Bharat Kapgate
Sr. Assistant Director

Dr. Utpal Basuli
Sr. Assistant Director

Dr. Shibulal Sathi
Assistant Director

Dr. Sheik Mohammed
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V. Karthikeyan
Business Dev. Manager

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

Dr. Amrita Roy
Sr. Scientific Officer

Dr. Mohammed Saleem
Sr. Scientific Officer

Dr. Santosh Jagdale
Sr. Scientific Officer

Ganapathi C
Sr. Scientific Officer

Sachin Barve
Sr. Scientific Officer

Prasant Bankar
Sr. Officer - Safety

Chetan Deshmukh
Sr. Officer (Maintenance & Safety)

Kiran Shetty
Jr. Officer (ESTT)

Hemant Khairnar
Asst. Finance Officer

Anil Bhujbal
Jr. Officer

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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

Announces Training
on

PHYSICAL & CHEMICAL TESTING OF RUBBER PRODUCTS

DATE
17TH -18TH JULY 2025

Rs. 8,000/- for Non – Residential Candidate (Exclusive of 18% GST)

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

COURSE CONTENT

- Basic Rubber Technology $ Introduction to General & Special Purpose Rubbers used in Rubber Compounds
- Role of Compounding Ingredients in Designing of Rubber Products
- Rubber Processing Techniques (Mixing, Moulding, Extrusion etc.)
- Vulcanization of Rubber and its Techniques
- Role of Physical & Chemical Testing in Benchmarking & Formula Reconstruction of Rubber Products
- Dynamic Mechanical Testing of Rubber Products

VENUE

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

CONTACT US

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

Indian Rubber Materials Research Institute

(Formerly known as IRMRA)

(An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt. of India.)

Announces Two days training on

"Physical & Chemical Testing of Rubber Products"

Date: July 24 - 25, 2025
Time : 10 a.m. to 4 p.m.
Venue: IRMRI EC, Dhulagarh

What to learn ?

- Basic Rubber Technology – Structure & property relationship, applications
- Role of compounding ingredients in designing of rubber compounds
- Physical & Chemical Testing of rubber compounds & products
- Dynamic Mechanical Analysis of Rubber
- Global Regulatory Compliances of Rubber Products
- Practical Demonstration of some physical and chemical tests

Who should attend ?

- Quality Control Managers/Engineers/Executives working in Rubber Industry
- New Entrepreneurs, Automotive Engineers, Start-up personnel
- Process Engineers , Chemists, Students & Faculties
- Supervisors, Shop-floor operators, Formulation developers

Course Material : All Participants will be forwarded pdf copy of Course Materials

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

Registration Fee:

- Rs. 8000 + 18% GST
- *Discount: 10% for IRMRI Members and 2 candidates from same organization*
  15% for 3 or more candidates from same organization
- *Special discount: 10% for students/faculties from academic inst. and self-sponsored candidates*

For Registration:

Dr. Debdipta Basu, db@irmra.org, Mobile - +91 8291404819
Mr. Sibasish Chowlay, training.ec@irmra.org , Mobile - +91 8910436613.

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(Under DPIIT, Ministry of Commerce and Industry, Govt. of India)

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INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

An Autonomous Institute Under DPIIT, Ministry of Commerce & Industry, Government of India
Formerly as IRMRA (INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION)
Office - #2680, Central Expressway, Sri City, Tirupati District, Andhra Pradesh - 400604
www.irmri.org

Announces

Two Days Training on

"Measurement Uncertainty: Chemical & Mechanical Measurements"

Date: 28th& 29thJuly, 2025
Timing: 10.00-17.00 hrs
Venue: HOTEL VIJAY PARK
Arumbakkam
CHENNAI

Scope of 2-days Training Program

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

Registration Fee:

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

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

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

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

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

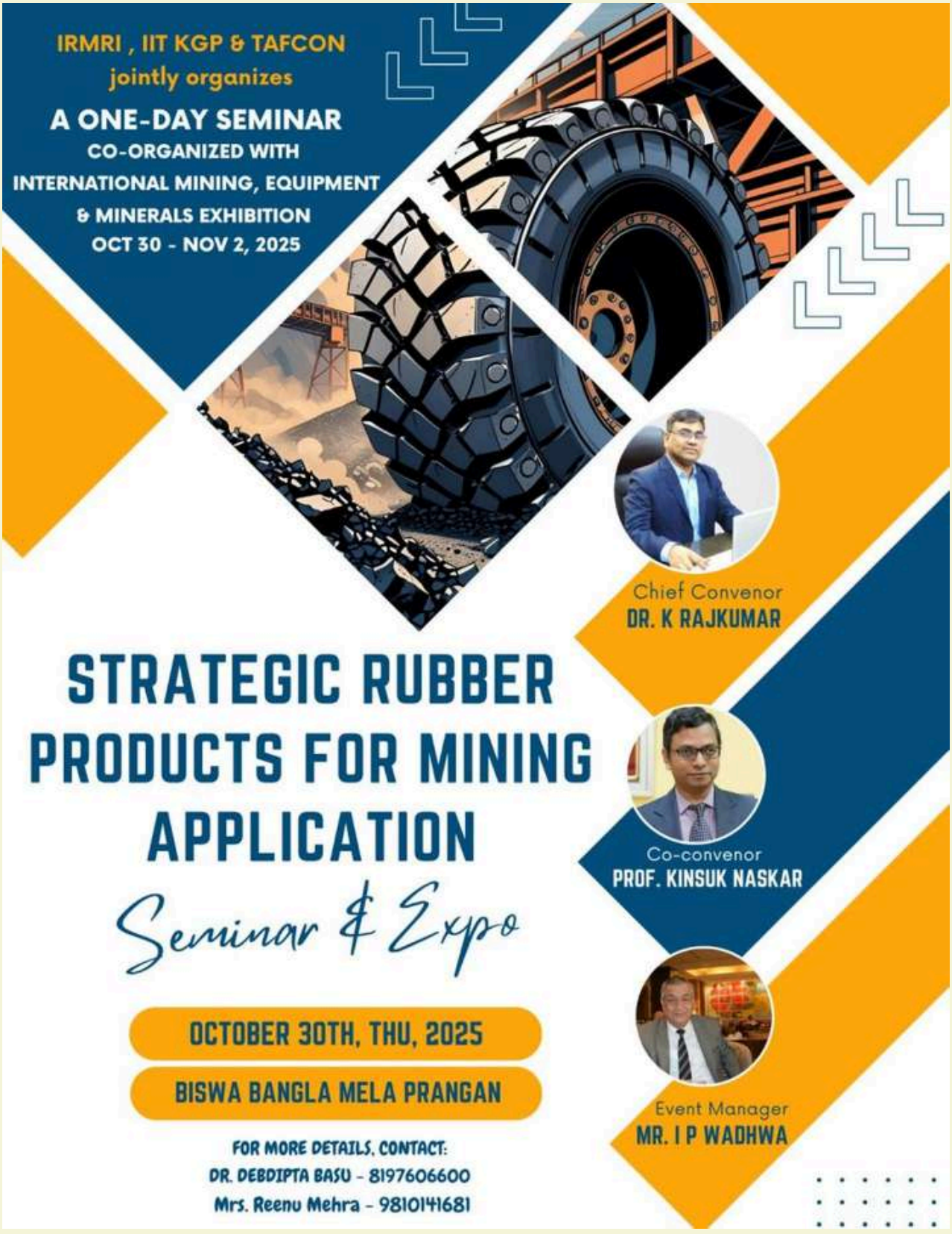
Empowering Excellence: Two-Day Training on "Physical and Chemical Testing of Rubber Products" at IRMRI Delhi

The Indian Rubber Materials Research Institute (IRMRI), Delhi, successfully conducted a two-day technical training program titled "Physical and Chemical Testing of Rubber Products" on 17th–18th July 2025 at the Research & Innovation Park, IIT Delhi. The program aimed to provide industry professionals with in-depth knowledge and practical exposure to modern rubber testing techniques. The event commenced with a ceremonial lamp lighting and a welcome address, establishing an atmosphere of collaboration and technical learning.

Day 1 Highlights: Overview of Rubber Science: General & Special-Purpose Rubbers |Rubber Processing, Vulcanization, and Moulding Techniques | Rubber Compound Formula Design | Live Demonstrations of Processing Technologies

Day 2 Highlights: Analytical Techniques: TGA, DSC, FTIR, GCMS, ICP, and Chemical Testing | Dynamic Mechanical Testing of Rubber Products | Virtual Tours of Advanced Testing Laboratories

A special address by Dr. K. Rajkumar, Director of IRMRI, emphasized the institute's commitment to innovation and capacity building in the rubber sector. Technical sessions were expertly conducted by Dr. Bharat Kapgate and Dr. Santosh Jagadale, ensuring a hands-on and engaging experience for all participants. The program concluded with a vote of thanks, appreciating the outstanding efforts of the IRMRI team—especially Mr. Rajeev Pandey and Ms. N Sneha for their seamless coordination and exemplary arrangements. This training reinforced IRMRI Delhi's vision of nurturing skilled professionals equipped with cutting-edge expertise to drive progress within the rubber industry.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Co-convenor
PROF. KINSUK NASKAR
OCTOBER 30TH, THU, 2025
BISWA BANGLA MELA PRANGAN
Event Manager
MR. I P WADHWA
FOR MORE DETAILS, CONTACT:
DR. DEBDIPTA BASU - 8197606600
Mrs. Reenu Mehra - 9810141681

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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Jiujiang DoWell Rubber Technology Co., Ltd.

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

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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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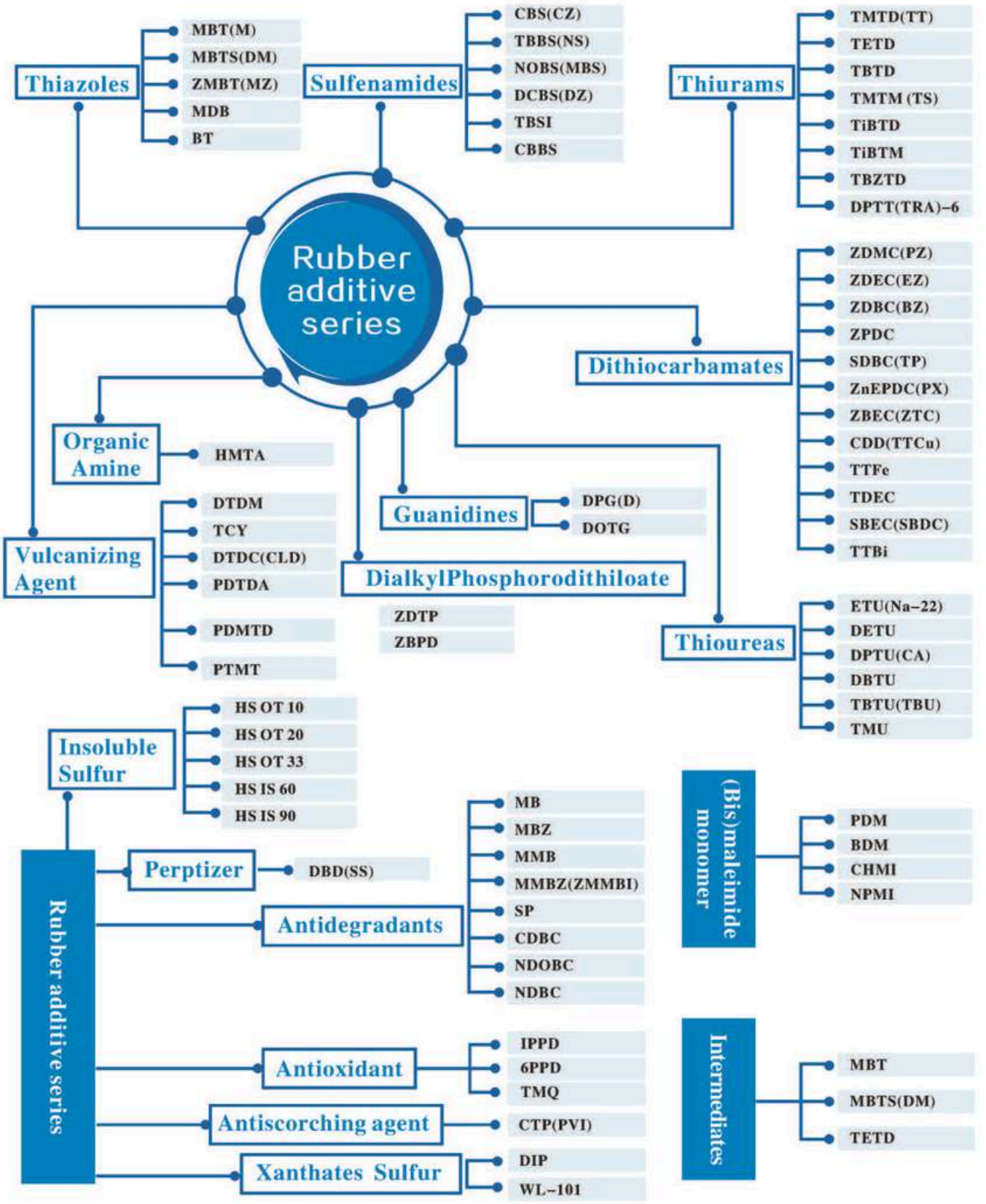

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QINGDAO XIANG RUN HAO IMPORT AND EXPORT CO.,LTD

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.

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

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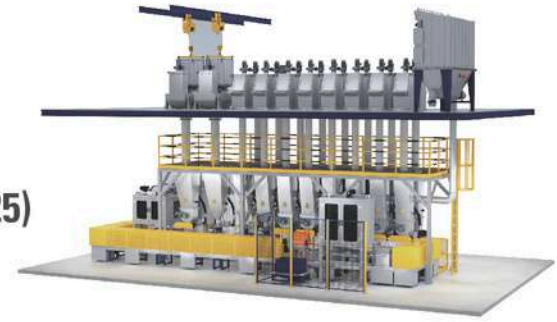

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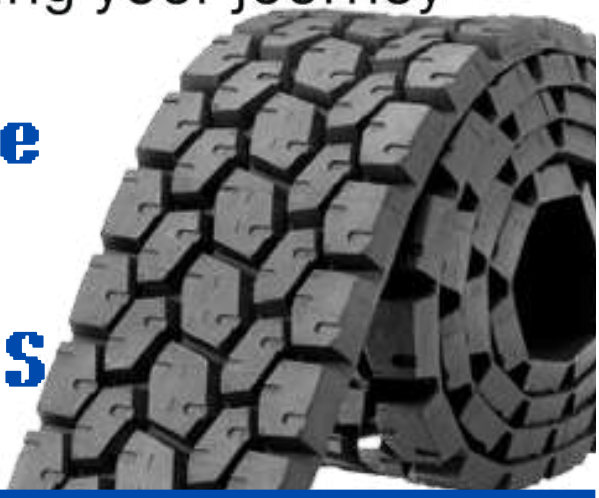

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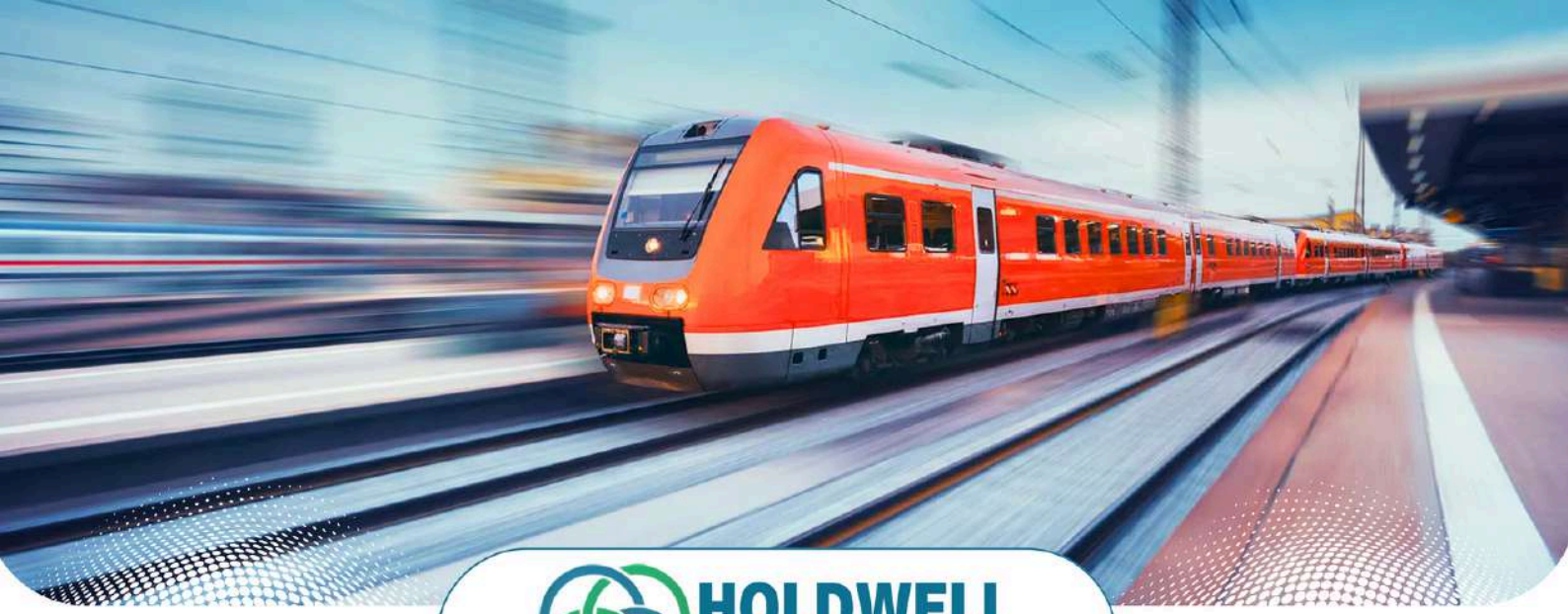

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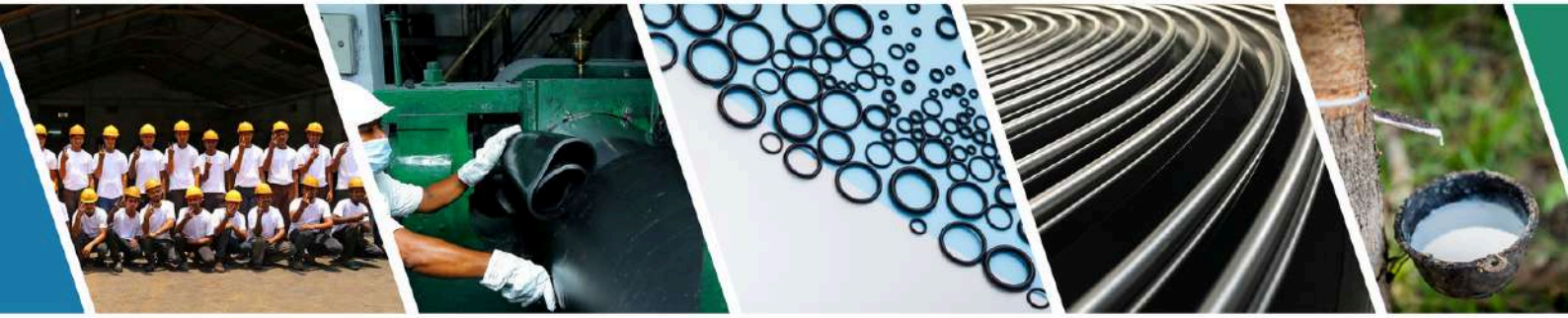

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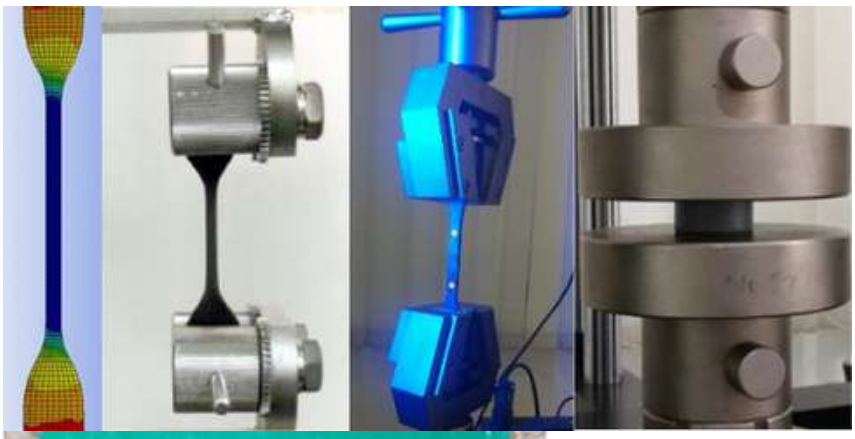

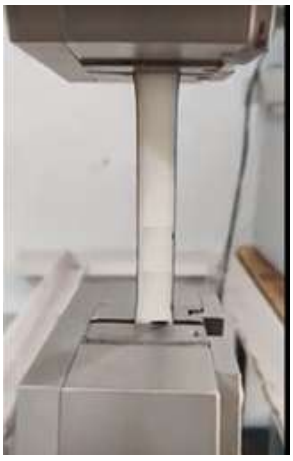

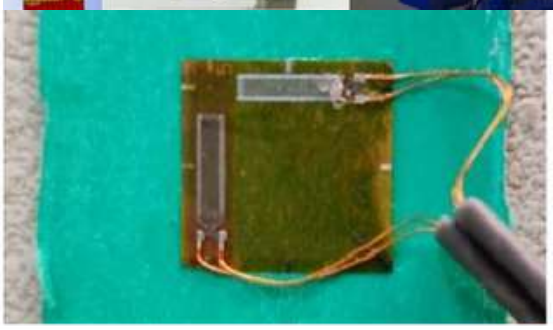

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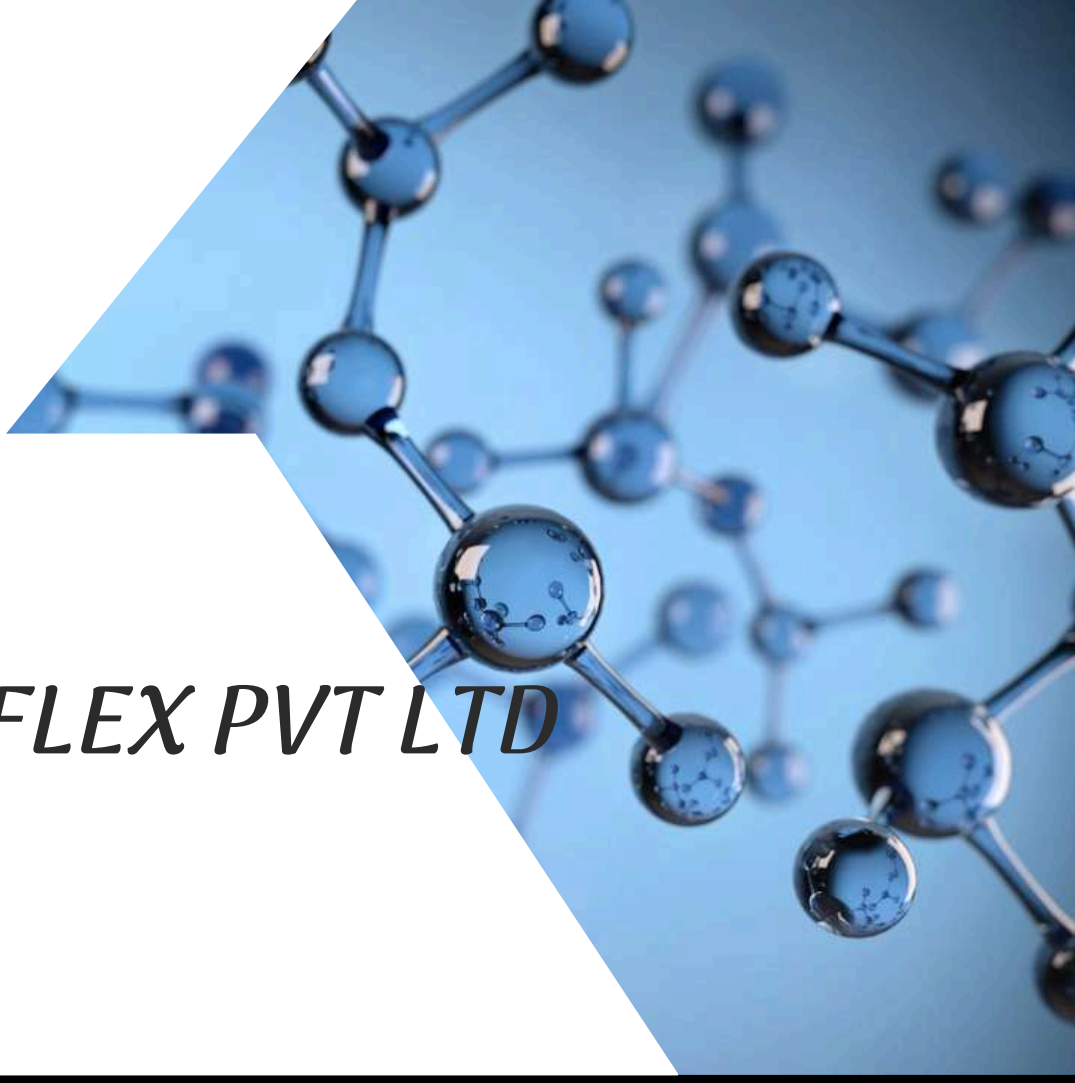

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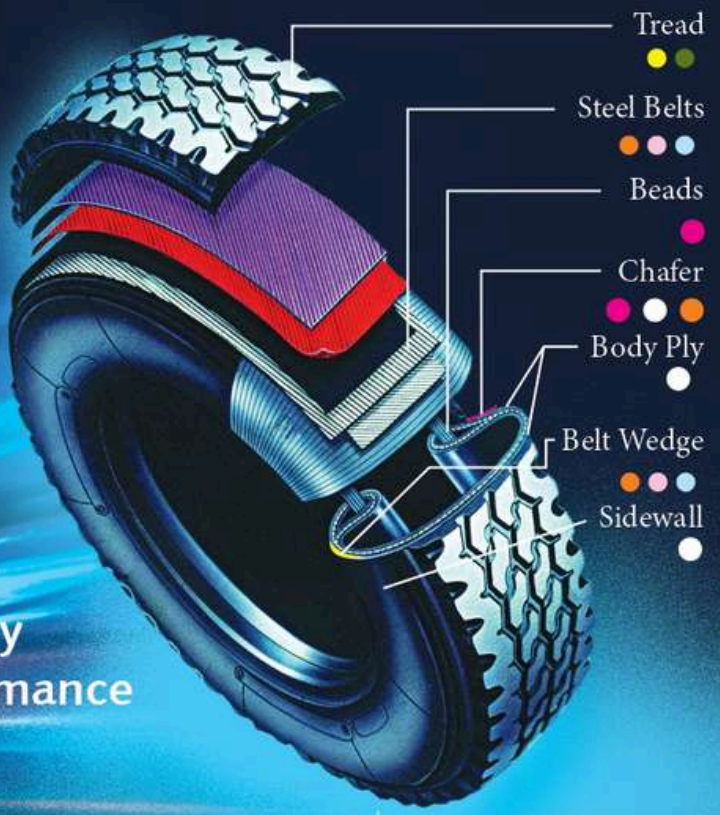

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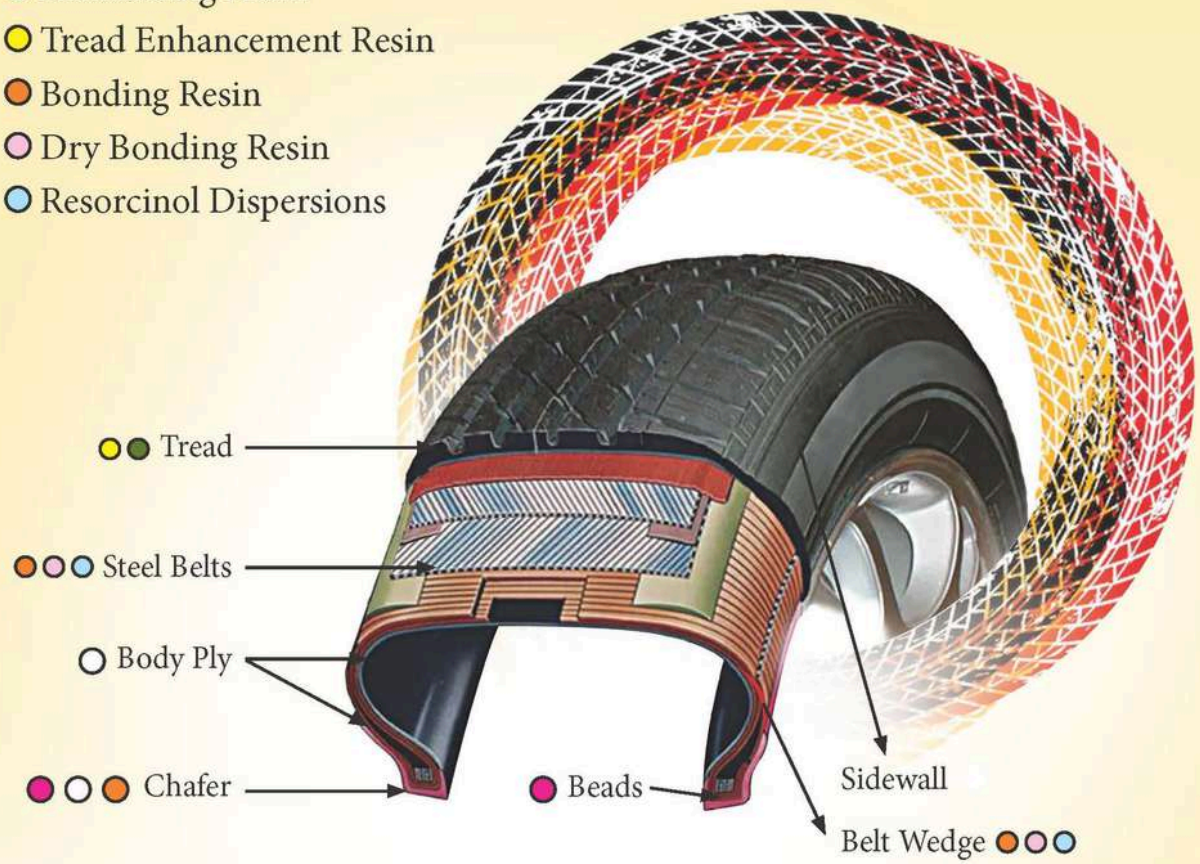

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RUBBER BUSINESS NEWS

RUBBER Review

PIRELLI: FIRST STANDARD PRODUCTION TYRE WITH OVER 70% BIO-BASED AND RECYCLED MATERIALS

Pirelli has launched the first standard production tyre for the global market made with over 70% bio-based and recycled materials, including FSC™ (Forest Stewardship Council™)[1]-certified natural rubber. This certification attests to the responsible management of the natural rubber supply chain, from plantation to factory. By 2026, all natural rubber used in Pirelli's European factories will be FSC™-certified. Developed in a specific version for JLR, the new tyre is a Pirelli P Zero and will initially be available on selected 22-inch wheel options for Range Rover, forming part of JLR's aim to roll out more sustainable tyres across its luxury vehicles.

The tyre will feature the FSC™ marking along with the distinctive logo identifying Pirelli tyres made with more than 50% bio-based and recycled materials, as verified by the third-party certification body Bureau Veritas.

MATERIALS INNOVATION

The development of the new P Zero put a significant challenge for Pirelli's Research & Development department: combining Ultra-High Performance (UHP) with a high content of bio-based and recycled materials, which include:

- ***Recycled steel***, partially sourced from the melting of scrap metal instead of virgin raw materials, while maintaining the mechanical properties of virgin steel.
- ***Rice husk-derived silica***, obtained from rice processing waste, used in tread compounds to ensure high performance in the wet.
- ***Circular carbon black***, produced through pyrolysis oil obtained from end-of-life tyres.
- ***Bio-circular polymers***, manufactured from monomers derived from used cooking oil or pyrolysis oil, replacing fossil-based polymers.
- ***Bio-resins***, plant-based plasticisers that help optimise the balance between dry and wet performance.

P ZERO AND INNOVATION

P Zero is the product line where Pirelli debuts its latest technologies: this renowned accent on innovation makes Pirelli the preferred choice of premium and prestige car manufacturers worldwide.

Back in 2021, Pirelli produced the very first tyre made with FSC™-certified natural rubber. The collaboration with JLR represents a new initiative to increase the share of recycled and bio-based materials in tyres, marking another step forward in the journey toward sustainability. Moreover, this product will also serve as a testing lab for materials innovation, as the percentage of components with low environmental impact is set to increase over time.

In 2024, JLR became the first car manufacturer ever to equip its vehicles with Pirelli tyres containing 100% FSC™-certified natural rubber.

Zeon develops new hydrophilic polymer for winter tires

Zeon Corporation has developed Nipol® BR1300, a new hydrophilic polymer for winter tires. This polymer is synthesized using polybutadiene rubber as its structural base, resulting in an unprecedented level of hydrophilicity as a material for tires. Having completed development for tire applications, Zeon began commercial production of the polymer in May 2025 at its Tokuyama Plant (Shunan City, Yamaguchi Prefecture).

The Zeon Group will continue to deliver new value by driving innovation through relentless technological refinement and proactive collaboration with external strategic partners.

Zeon begins facility construction for highly efficient butadiene production from plant-based ethanol

Zeon Corporation has started construction of a bench-scale facility at its Tokuyama Plant (Shunan City, Yamaguchi Prefecture) to demonstrate technology for the highly efficient production of butadiene from ethanol derived from plant-based and other sustainable materials. The facility is scheduled to begin operating in 2026, after which Zeon will use the butadiene produced at the facility to make prototype polybutadiene rubber (butadiene rubber) and advance efforts toward the social implementation of the technology.

A groundbreaking ceremony was held at the site on July 10, 2025, with guests from Yamaguchi Prefecture and Shunan City and representatives from the construction contractor and other related companies, along with Zeon officials including Chairman Kimiaki Tanaka and Tokuyama Plant Manager Akira Honma. A total of 33 people attended the event to pray for safety on the construction site.

This project is one of two R&D themes proposed by Zeon and The Yokohama Rubber Co., Ltd. to advance the social implementation of technology for the highly efficient production of butadiene and isoprene from plant-based and other sustainable materials in the 2030s. Under this initiative, Zeon will produce butadiene rubber using butadiene made at the bench-scale facility, and Yokohama Rubber will use that rubber to develop prototype tires and conduct driving tests, collecting data to support a large-scale demonstration.

The two companies intend to establish the necessary technology for social implementation by 2030 using a pilot plant serving as a continuous demonstration facility to support future commercialization, which is targeted for 2034.

Trelleborg acquires sealing specialist in Singapore

Trelleborg Group has, through its business area, Trelleborg Sealing Solutions, signed an agreement to acquire Masterseals, a Singapore–based company specializing in sealing solutions for the energy sector and industrial applications.

Masterseals is known for its engineered sealing solutions produced in small series for demanding operating environments. In addition to manufacturing, the company also operates as a technical service center focused on aftermarket support and short delivery times. In 2024, the company generated sales of just over SEK 40 million. Its office and manufacturing facility are located in western Singapore, in close proximity to Trelleborg's Customer Solution Center.

"*Through the acquisition of Masterseals, we are significantly strengthening our position in Southeast Asia while also creating new opportunities in other parts of Asia and the Middle East, within industries expected to experience solid growth in the coming years. The high degree of customized and engineered solutions offered by Masterseals aligns perfectly with our offering*," says Jürgen Bosch, President of Trelleborg Sealing Solutions.

The transaction is expected to be completed during the third quarter of 2025.

Orion S.A. to rationalize production lines in Americas, EMEA

Orion S.A. (NYSE: OEC), a global specialty chemicals company, announced today it plans to discontinue production at three to five of its carbon black lines at multiple facilities in the Americas and EMEA by the end of 2025.

"This decision is part of Orion's strategy to focus maintenance investments on higher-performing production lines – making them more reliable and productive – and to rationalize underperforming assets," Orion CEO Corning Painter said. "This move is also intended to enhance free cash flow."

Painter added, "Recently introduced U.S. tariffs, the EU anti-dumping investigation and continued tire capacity investment in both regions should help reverse the local tire manufacturing share loss. However, given the uncertain timing of this recovery, we are choosing to take this action now."

Sime Motors Launches Zero Waste Tyre Recycling Programme with Evergreen Corporate

Sime Motors, the leading automotive player in Asia Pacific has launched its zero-waste* tyre recycling programme , marking a significant milestone in environmental stewardship and industry leadership in Malaysia. In partnership with Evergreen Corporate Sdn. Bhd, the programme will be rolled out across all Sime Motors dealerships in Peninsular Malaysia beginning 1 July 2025. It is the first structured programme of its kind by a Malaysian automotive retail group, aimed to reduce environmental impact of end-of-life tyres through a fully closed-loop zero-waste recycling process*.

“This programme reflects our commitment to sustainability and innovation in waste management,” said Jeffrey Gan, the Managing Director of Southeast Asia, Sime Motors. “With Evergreen Corporate’s advanced capabilities, we’re proud to lead the zero waste* tyre recycling within the industry.”

Through this programme, used tyres collected from Sime Motors’ service operations at brands such as BMW, MINI, Ford, Hyundai, Jaguar Land Rover, Volvo, BYD, Denza, Drivecare and Auto Selection will be sent to Evergreen Corporate, whose facility utilises the Advanced Thermal Recovery Green Technology. This process enables 100% material recovery with low harmful emissions turning waste into reusable industrial resources such as carbon black, fuel oil and recovered steel. Evergreen is also proudly accredited with the ESG Gold rating by MARC (Malaysian Rating Corporation Berhad), recognising its leadership in sustainable waste management.

Wan Afif Azizul, CEO of Evergreen Corporate added “This partnership is a significant milestone not just for Evergreen, but for the future of green technology in Malaysia.” “We are constantly working to innovate and advance tyre recycling technology, and we are honoured to partner with Sime Motors to drive Malaysia’s green economy forward,” said Kwan Meng Kian, Co-Founder of Evergreen Corporate. “This collaboration not only addresses the challenge of tyre disposal but does so using a solution that is clean, scalable and future-ready.”

The partnership aligns with Department of Environment (DOE) standards and supports broader national ESG and sustainability objectives. As a socially responsible organisation, Sime Motors recognises the importance of taking ownership of its environmental footprint in ways that are both operationally effective and meaningful to customers and communities.

With this programme in place, customers can be confident that when they service or purchase vehicles from Sime Motors, their used tyres are being handled through a system designed to minimise harm to the environment. By choosing Sime Motors, customers are not only investing in quality automotive solutions but are also contributing to a cleaner, more sustainable future for the next generation.

ETRMA and EuRIC joint position on harmonised End-of-Waste Criteria

EuRIC, the European Recycling Industries' Confederation and ETRMA, the European Tyre and Rubber Manufacturers' Association have issued a joined paper calling on the European Commission to urgently develop EU-wide End-of-Waste (EoW) criteria for rubber derived from End-of-Life Tyres (ELTs) to facilitate cross-border trade in the EU and increase the use of recycled materials in manufacturing.

In the joint position paper titled "Harmonised End-of-Waste criteria: A key step to strengthening Europe's tyre recycling market", EuRIC and ETRMA stress that the lack of harmonised EoW criteria creates legal and administrative barriers across Member States, undermining market confidence and limiting recycled materials uptake.

Despite being identified by the Joint Research Centre in 2021 as a top candidate for EoW criteria, progress has stalled. The establishment of harmonised EoW rules would clarify when ELT-derived rubber is no longer considered waste, ensuring compliance with product legislation, improving quality assurance, and enabling circular procurement at scale.

"Technical conditions for ELT rubber to cease being waste are well defined. What's missing is legal certainty. EU-wide EoW criteria are essential to unlock intra-EU trade, investment, and circular use of recycled rubber," said Julia Ettinger, Secretary General of EuRIC.

"Standardised End-of-Waste criteria will boost demand for high-quality secondary raw materials and reduce dependence on virgin resources," said Adam McCarthy, Secretary General of ETRMA. "These standards will support the uptake of recycled inputs in tyre manufacturing, thus supporting the objectives of the Ecodesign for Sustainable Products Regulation (ESPR)."

The tyre value chain is aligned and ready to support the Commission in defining workable, enforceable EoW rules under the Waste Framework Directive to safeguard valuable resources and ensure the development of a well-functioning internal market for recycled materials in the EU.

Ecore International Accelerates its Circularity Strategy with Acquisition of HTI Recycling

Ecore International, a global leader in circularity, transforming reclaimed rubber materials into innovative, high-performance products that drive sustainability and reduce environmental impact, today announced the acquisition of HTI Recycling, a leading tire collection, recycling, reuse, and crumb rubber manufacturer. The acquisition, which includes HTI subsidiaries Edge Rubber Recycling and D&G Heavy Equipment Leasing, brings together family-run businesses with a shared vision: delivering high-quality products and services that support a move toward a more circular economy.

Based in Lancaster, Pennsylvania, Ecore offers innovative surface products and waste solutions that deliver high performance while making a major impact on sustainability, safety, and personal wellbeing. With millions of tons of rubber waste in the world, Ecore is leading the way in upcycling rubber, including through its pathbreaking TRUcircularity™ program. TRUcircularity provides Ecore customers the opportunity to reclaim their end-of-life rubber, which Ecore then transforms into new, high-performance surfaces with a zero-waste outcome.

Based in Lockport, New York, HTI has deep roots in circularity that trace back to founder Derek Martin's early work reclaiming and recycling used Guinness barrels. Together with his son, Carl E. Martin, Derek built HTI into a leader in tire recycling across the Northeast, known for its innovation and reliability.

"This acquisition is a meaningful step in Ecore's strategy to rid the world of rubber waste by strengthening our supply chain and expanding our scale. We are constantly evaluating opportunities to build on our core strategy of circularity and this acquisition helps to carry this forward," said Art Dodge, CEO of Ecore. "Like Ecore, Derek Martin and the HTI team have established an impressive record of accomplishment of service and quality at all stages of the recycling process, which we have seen first-hand throughout our years of partnership. We are excited to welcome HTI to the Ecore team as we work together for a more sustainable future."

"HTI has long been an excellent partner for Ecore's materials business," said Kal Krishan, President of Ecore's Materials Business Unit. "This acquisition will further bolster our supply chain and build on existing capabilities to deliver for our customers."

As part of this acquisition, Ecore welcomes 81 new employees to the team. Together, Ecore and HTI will drive innovation in materials science and transportation and bring materials back to life for the good of our environment, communities, and businesses.

For more information about Ecore, visit www.ecoreintl.com.

Instron Announces Bluehill Central 2 Software Platform

Instron® has launched a new iteration of its Bluehill® Central software platform, for the first time offering the powerful Lab Management module as a stand-alone option for labs of all sizes seeking to easily manage their Instron assets and access test data.

Bluehill Central 2 enables centralized management of Bluehill Universal software applications that are tied to multiple Instron testing systems, as each system sends and receives data from the central database. It allows labs to remotely manage Bluehill Universal test templates, users, results, file revisions, and audit trail data. Previously available only when bundled with the Traceability module, the Lab Management tool enables connected Instron testing systems to access Bluehill Central's file repository to run controlled test methods, export results, upload and download files, and manage user permissions.

With the latest release of Bluehill Central, the Lab Management module also offers new features including offline syncing, new read/write access, and file revision status management. The new offline mode syncs and stores method files on each Instron machine in the lab so that users can continue testing even if a network outage occurs. Files and folders remain available, and tests that are run offline are automatically pushed to the database when the network connection is restored. An extra layer of security has been added to the read/write access options, giving labs greater ability to restrict access to specific files, folders, and methods. Individual files can be locked so they're editable only by certain people, for example, and specific operators can be prevented from running tests that they aren't yet trained to run.

The file revision status management available with Bluehill Central 2 makes it easy to view and control a method's revision status – Active, Obsolete, Draft, or Pending Review – which helps to streamline method life cycle management. "Bluehill Central 2 reinforces our commitment to delivering innovative solutions that tackle pressing lab challenges, from efficiency to data security," said Dan Caesar, Software Product Manager at Instron. "By offering stand-alone Lab Management and introducing these key features, we empower laboratories with unprecedented control and productivity."

The Lab Management module is available without needing to purchase the Traceability plug-in, but Traceability is a valuable option for labs that want to review file changes remotely and filter and print the audit trail from test systems. The compliance-friendly plug-in is especially beneficial for labs in fields such as biomedical, aerospace, automotive, and defense that are highly regulated by the FDA. Another popular plug-in, Bluehill Central's TrendTracker, enhances a lab's data analysis by allowing users to export test results from all connected systems to track trends in data over time.

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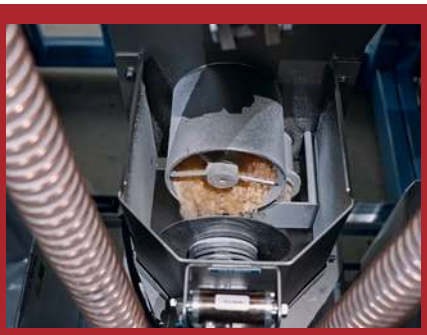

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"Dual Certification Program on Rubber Science & Technology"

Diploma (DIRI) and Post Graduate Diploma (PGD-IRI) from Indian Rubber Institute
&
Certificate from Rubber, Chemical & Petrochemical Skill Development Council (RCPSDC)
Under National Skill Development Corporation (NSDC) on different Job Roles
Classes will start from 22nd June'2025 every Sunday onwards

Indian Rubber Institute (Registered under the West Bengal Societies Act XXVI of 1961 no. S/55295 of 1987 – 88), a Technical Affiliate of American Chemical Society (ACS), Rubber Division, USA and member of International Rubber Conference Organization (IRCO), offers **"Dual Certificate programme for Rubber Sector** through Offline and Online Classes.

- **Online & Regular contact classes: June- February'2025-26(Every Sundays: 10.00 to 1.00 & 3.00 to 5.00)**
- **Examination** **March'2026 at different IRI examination centers**
- **Issuing of Certificate** **Controller of Examinations**
  Rubber Technology Centre, IIT Kharagpur
  Indian Rubber Institute (IRI)

Eligibility:

Diploma (DIRI)	**Post Graduate Diploma (PGD-IRI)**
Qualification: 12th Science (PCM)/ Diploma in Engg. (Final Year students are allowed)	Qualification: B Sc (PCM) + 1 year Industry exp. / M.Sc. (Chem.) / B.Tech. / BE

Fee Structure for DIRI & PGD-IRI Courses:

S.No.	Category	Course fee	Membership fee	Exam Fee	GST @ 18 % (Rs.)	**Total (Rs)**
1.	General (with Lecture Notes)	22,000.00	6,500.00	7,500.00	6,480.00	**42,480.00**
2.	University/Institute Students*	6,000.00	500.00	---	1,170.00	**7,670.00**
		* 6,000.00	500.00	7,500.00	2,520.00	**16,520.00**
Note: The Assessment fee of Rs.2000/- for RCPSDC course will be extra (*) During Registration, proof to be provided				* -- Lecture Notes hard copy Rs 2000/-(Inclusive GST) extra		

RCPSDC Certificate Courses:

IRI has signed MoU with RCPSDC and under this MoU, the candidates who have attended the above said on line classes (160 hours Theory classes min), they can get certificate from RCPSDC on various Job Roles & Qualification Packs (QPs) after due assessment by the certified Assessors of RCPSDC. However, they need to undergo practical training classes in Industry or any other Rubber Institute having practical training facilities of 200 Hrs min.

PI Note: Those who are working in Rubber Industries need not attend PRACTICAL Training (of 200 Hrs).

Sr. Rubber Technician	**Rubber Product Quality Assurance Supervisor**	**Lab Chemist-Rubber**	**Rubber Processing Supervisor**
Diploma /Graduate.	12thPass	12thPass	12thPass

Assessment: By Rubber, Chemical & Petrochemical Skill Development Council

Faculty: Qualified and experienced Technologists from Rubber Industry, IRI & Educational Institutions/Universities.

Who Should Attend RCPSDC?
People working in Rubber & Allied Industries, final year students (Engineering Diploma/Science Graduate) from Colleges & Universities and Entrepreneurs. Those who do not have requisite qualification for the DIRI / PGD-IRI courses can directly join the class and will be assessed by RCPSDC for Job Role (s) / QPs as mentioned above, after registration with RCPSDC.

Fee Structure of RCPSDC courses are as Follows:

Sl. No	**Course**	**Fee (Rs)**	**GST @ 18% (Rs.)**	**Total (Rs)**
1 2	Course fee (without IRI Membership)	26,000.00	4,680.00	30,680.00
	Assessment fee per Qualification Pack	2,000.00	360.00	2,360.00
		26,500.00	4,940.00	**33,040.00**

Interested candidates are requested to contact the respective Regional IRI Branches. For IRI Branch details, please visit our website: www.iri.net.in

Training Coordinator: **Mr. Syed Mushtaq**, DBCOE, JSS Tech Institutions Campus, Mysuru - 570006
Ph. 0821-6731504, Mob. +91 9679283963, Email: iridbcoe.edu@gmail.com;
For any further details, please contact: Mr. Sasi D -HASETRI, Mysuru-570 016. Mob.9929199932
Mr. Harikrishna- DBCoE,Mysuru-570 006, Mob. 9916101050

NB: Please note that those who have requisite qualification like Diploma in Engg, Rubber Technology, Engineering Degree, B.Sc. & M.Sc only will be allowed to appear DIRI/PGD-IRI examinations.
However, other than above qualification can attend this course and will not be allowed to appear DIRI/ PGD-IRI examinations. They can appear for assessment by RCPSDC for different Job Roles/Qualification Packs mentioned above.

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26 - 28 AUG 2025
TUESDAY - THURSDAY

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www.irice.com.my
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Date: 1-3 December 2025

Venue: Bangkok International Trade & Exhibition Centre (BITEC), Bangkok, Thailand

Website: https://www.irc2025.com

NRC-2025, Chennai

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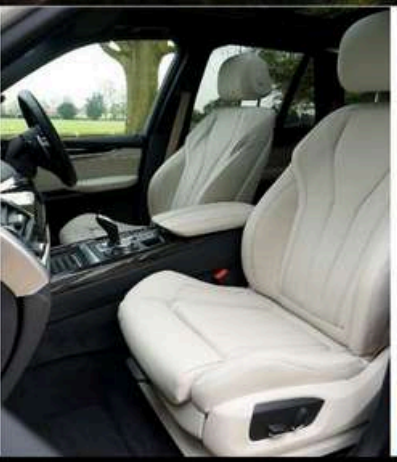

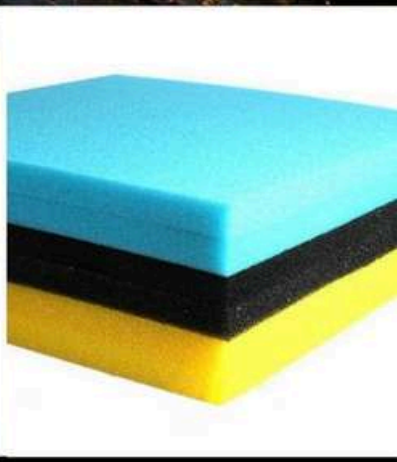

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Dr. Laksmi Dewi Kasmiarno

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Dr. Ahmad Basshofi Habieb

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Contact Information: *Dr. Irfan Fathurrohman* (Email: irfanirri@gmail.com | Tel: +62-812 1702 527)
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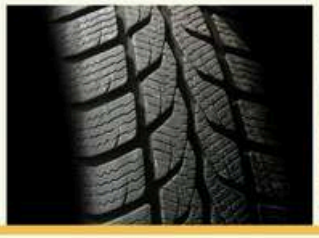

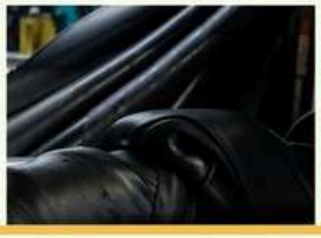


Training Course

Rubber Reinforcement with Silica

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

Venue: Swiss-BelHotel, Bogor, Indonesia

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

Program Content

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

Who Should Attend?

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





To Register, Please Contact

Dr. Irfan Fathurrohman (Email: irfanirri@gmail.com | Tel: +62-812 1702 527)
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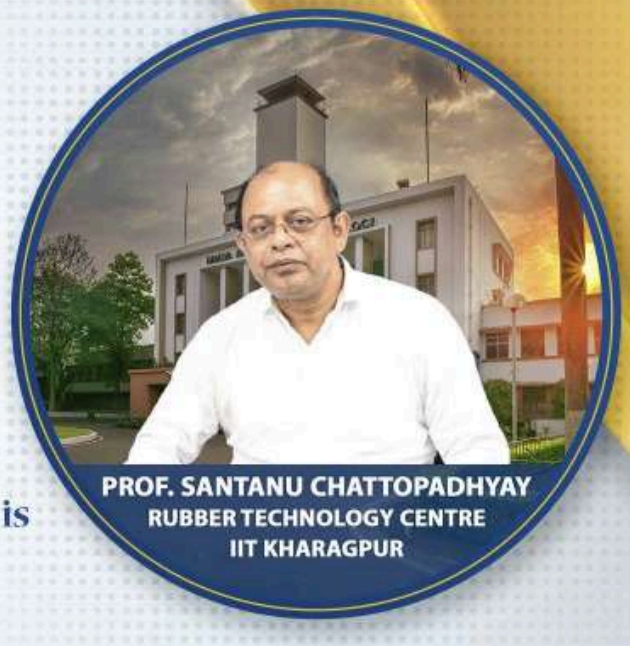

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- Processing Technology
- Rubber Testing & Quality Control

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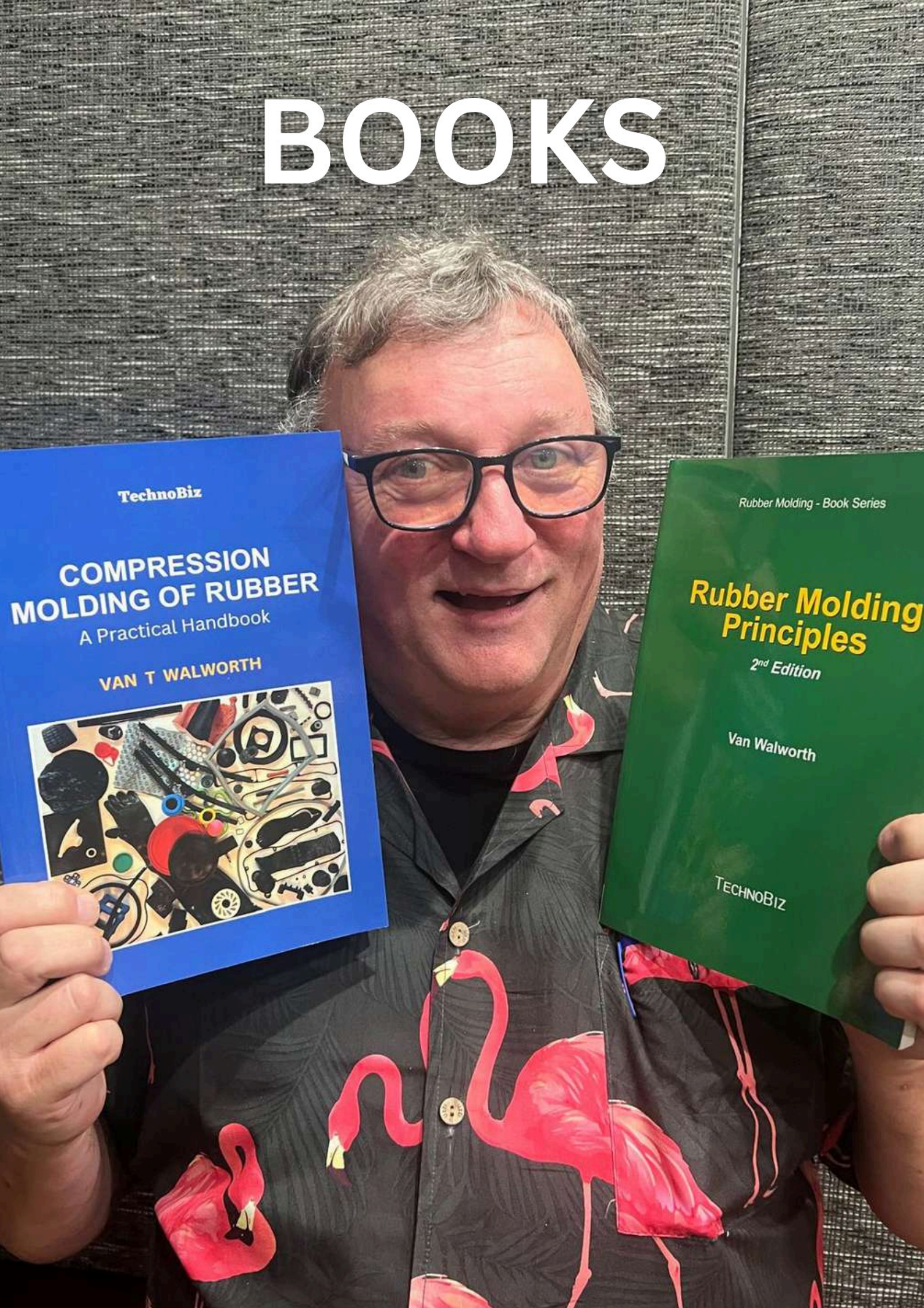
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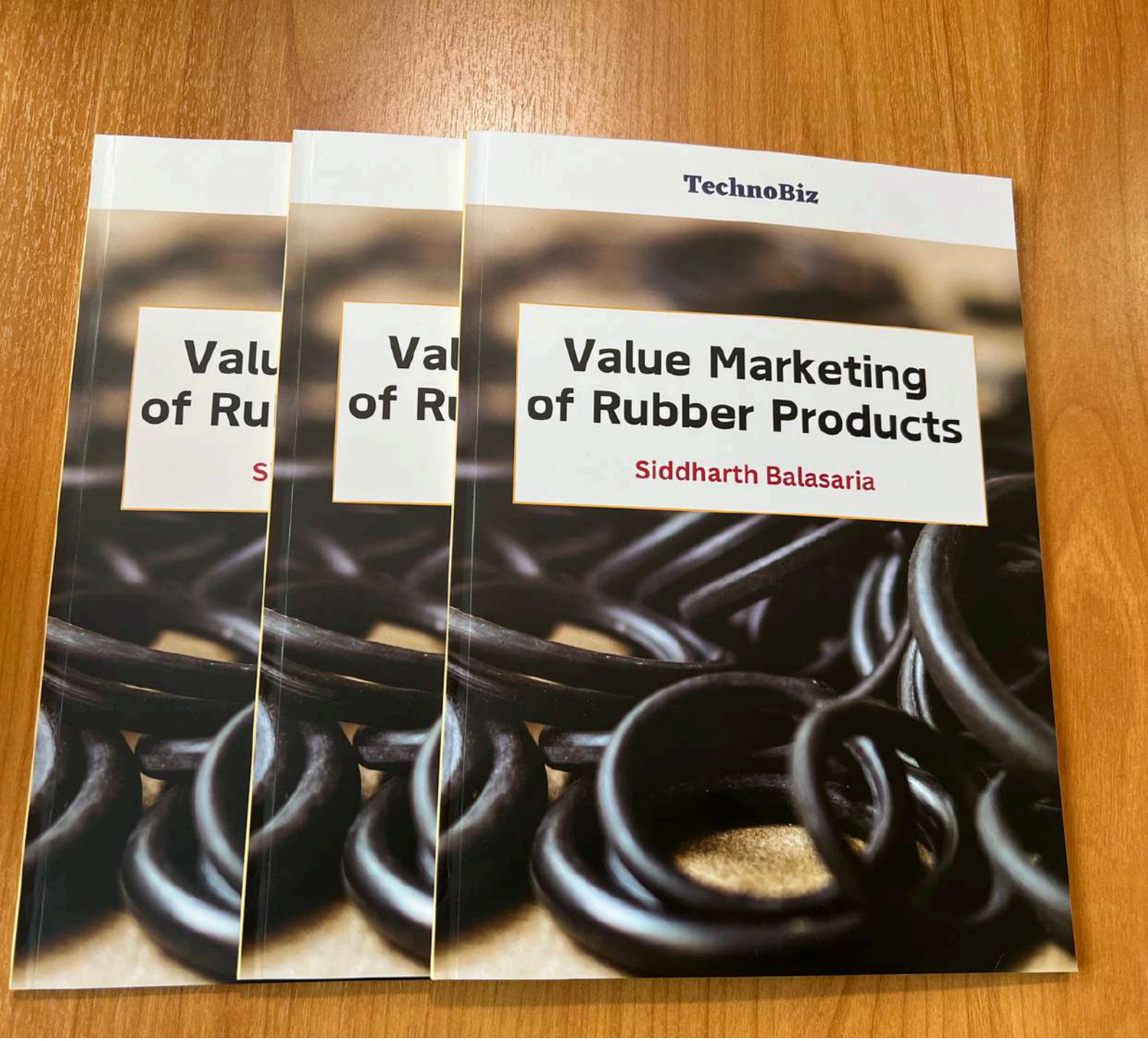

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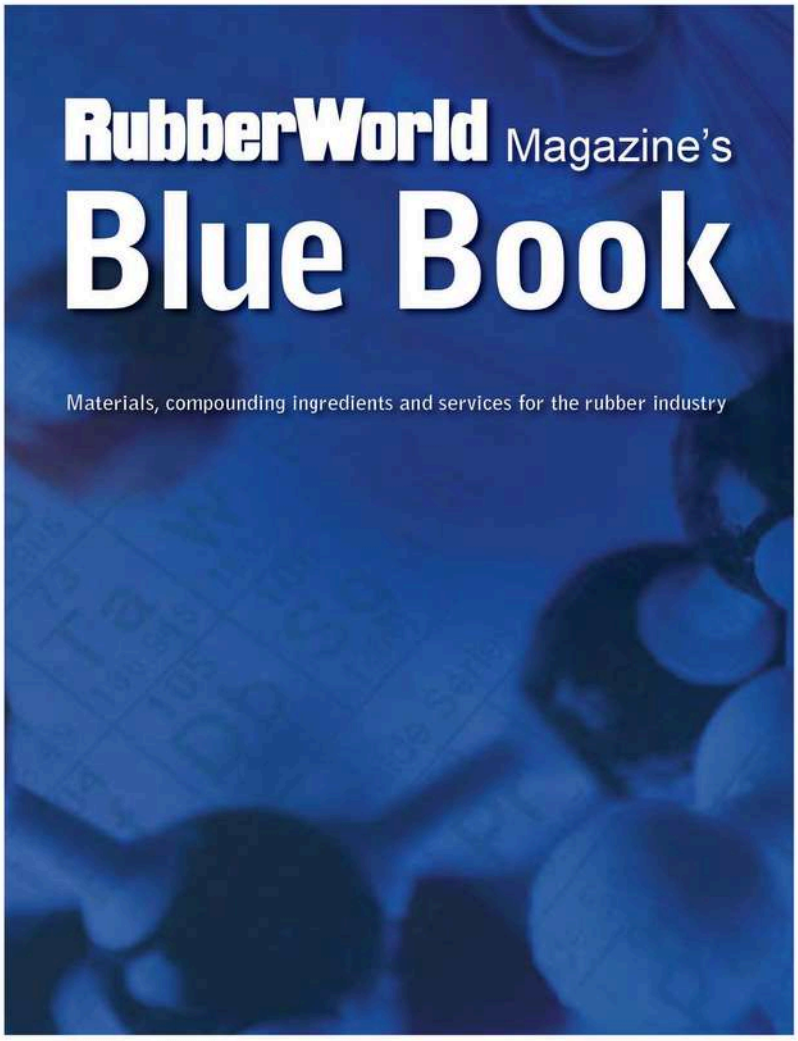

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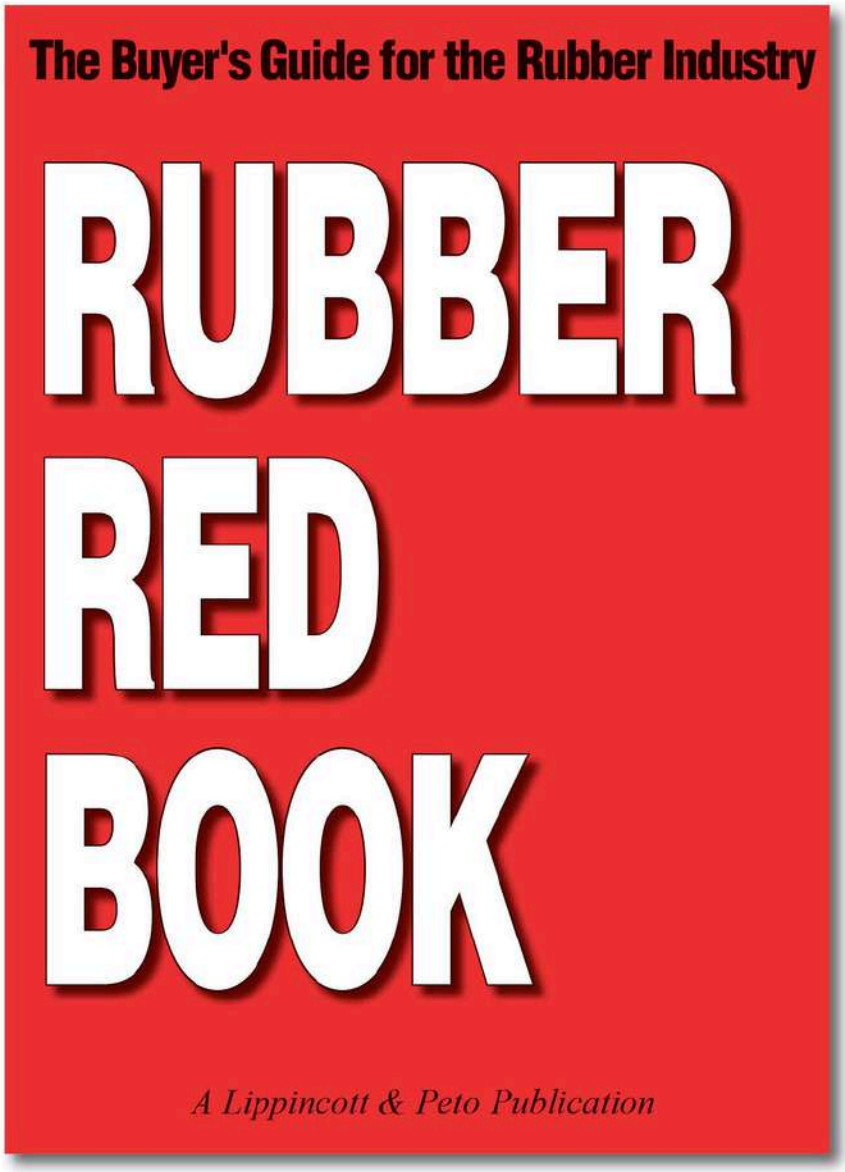

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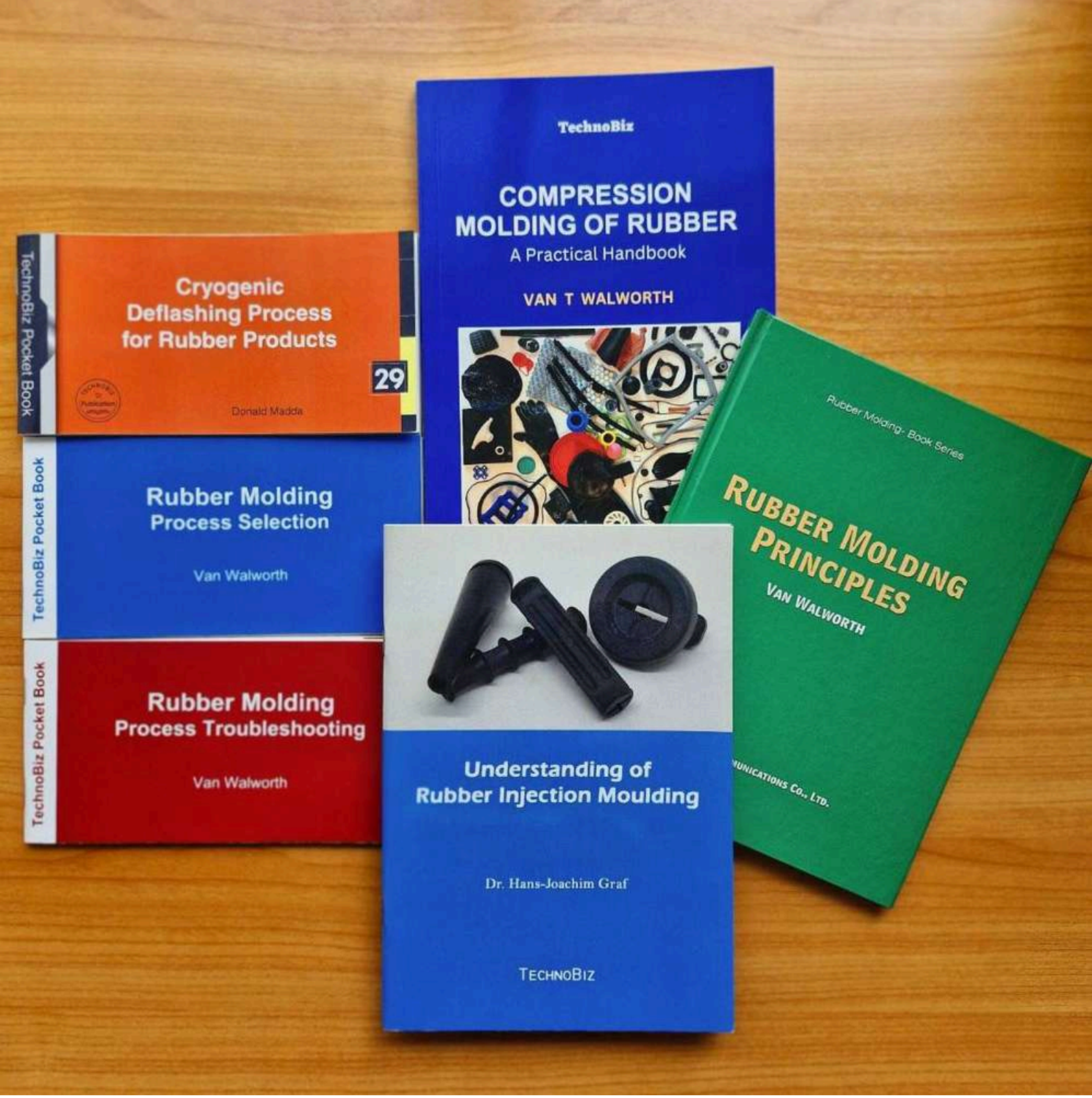

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- OXAF® : Zinc-2- Mercaptobenzothiazole. (ZMBT)
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DAP : Diammoniumphosphate

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