RUBBER Review

Published by
TechnoBiz
RubberWorld

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A Weekly E-Magazine
for Global Rubber Industries

Issue - 25 | 10-16 November 2025 | www.rubber-review.com | Free Subscription

Prof. Jacques Noordermeer

Em. Professor of Elastomer Technology and Engineering
University of Twente, the Netherlands

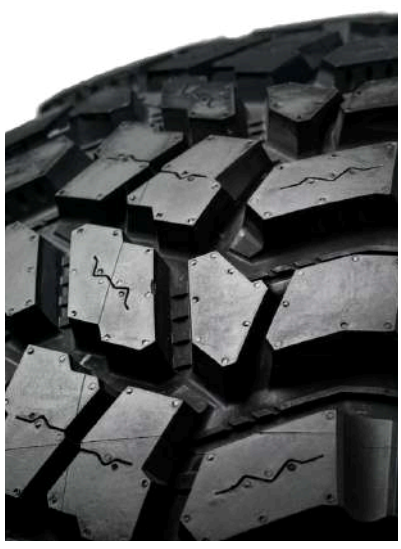
A TechnoBiz Executive Forum on Tyre Science, Technology & Industry

TechnoBiz Tyre Tech WEEK

10-12 FEB 2026

CHENNAI, INDIA | GREEN PARK HOTEL

Edition - 2 | Hybrid Event

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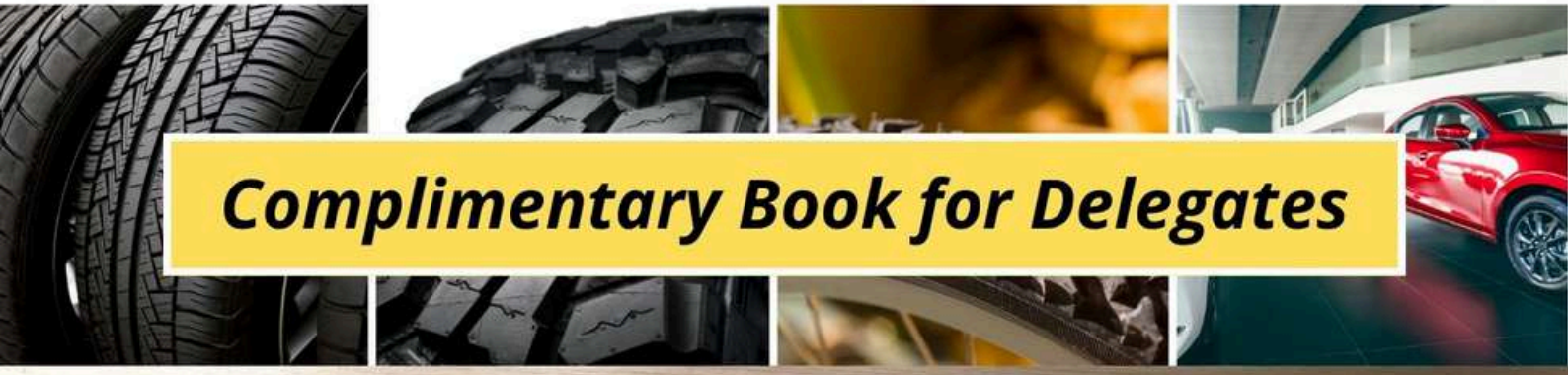

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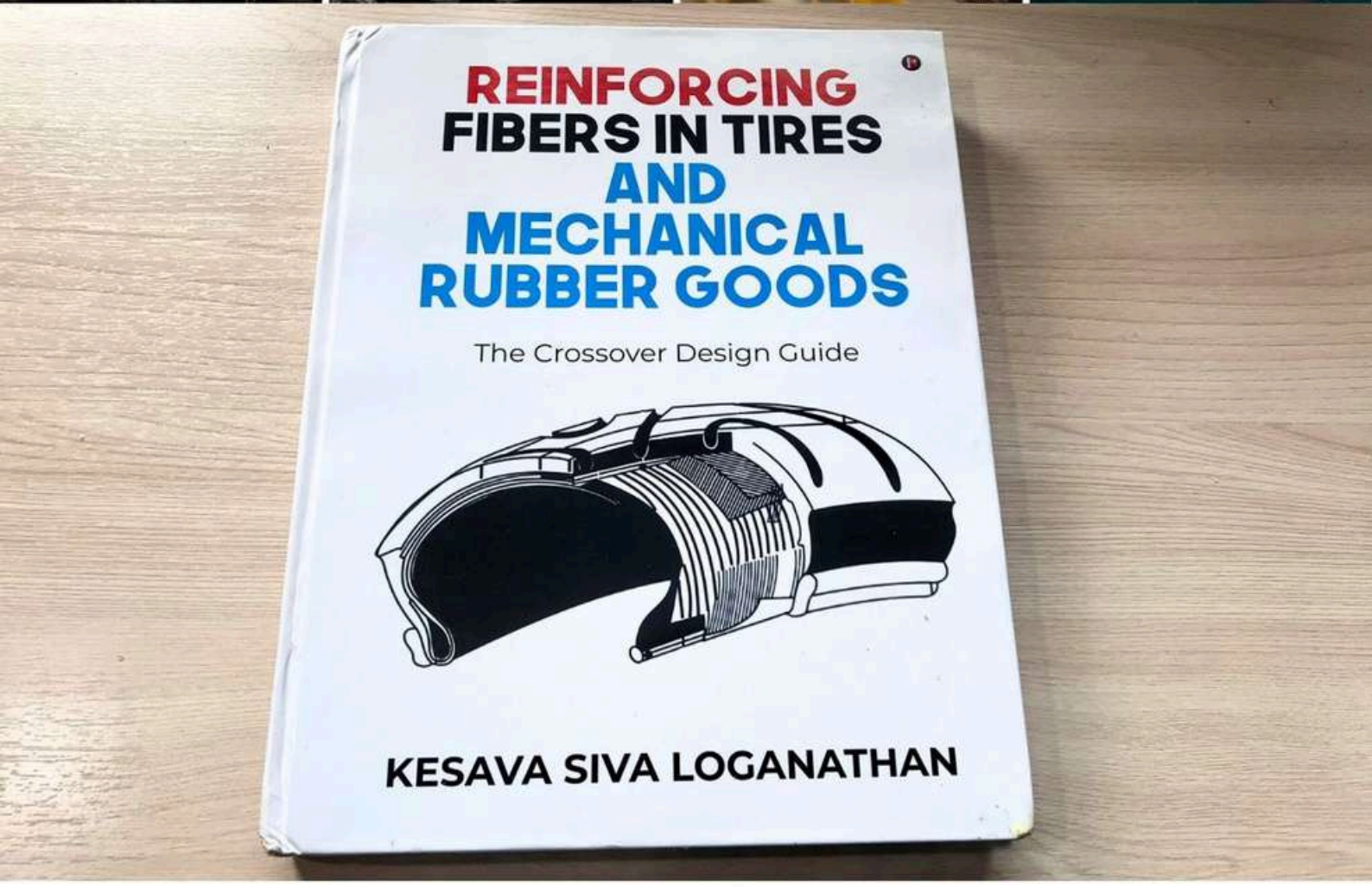

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CS Kunjukuttan

Sunil Narayanan

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COVER STORY

Conversation with

Dr. Jacques W.M. Noordermeer

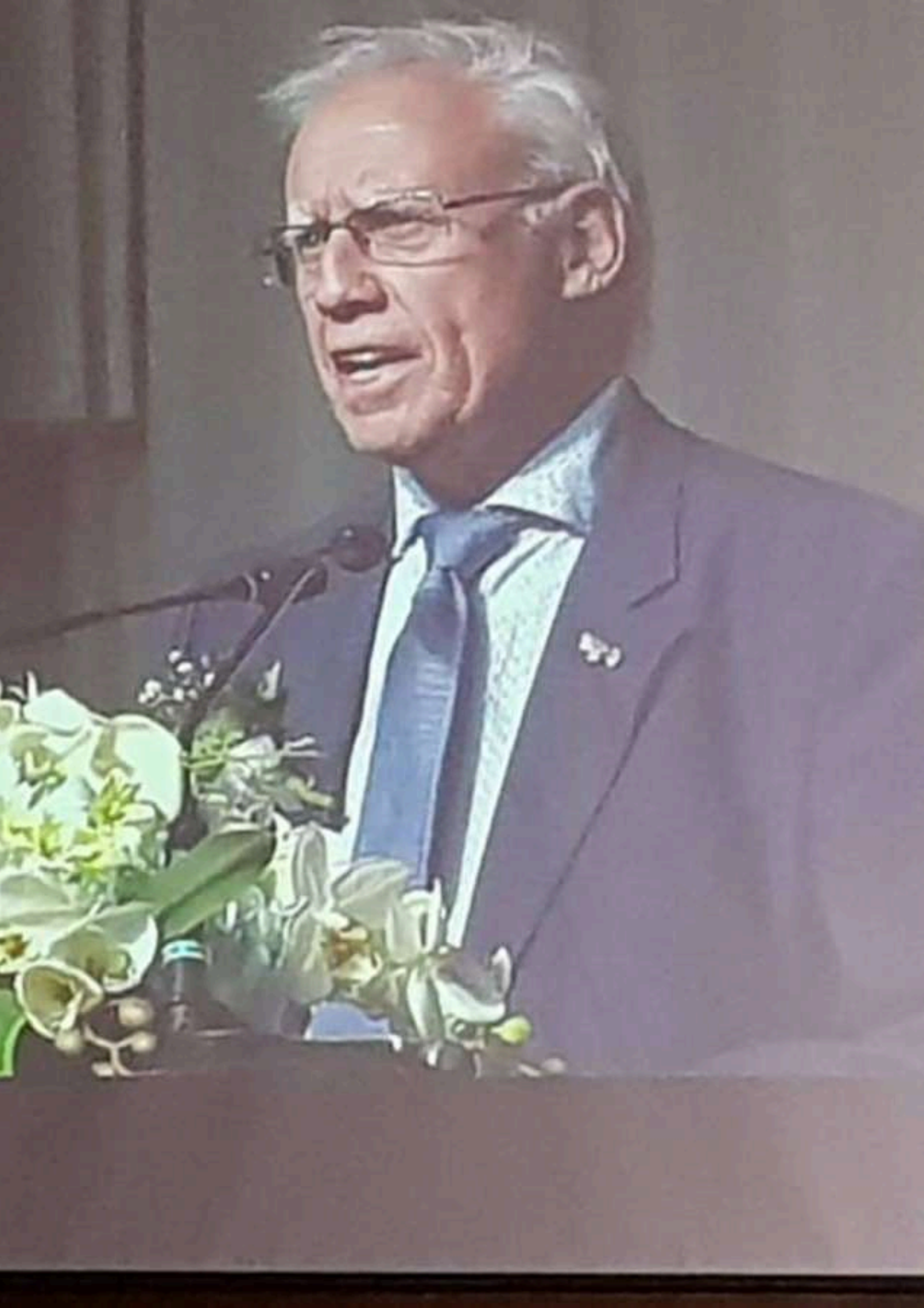
Em. Professor of Elastomer Technology and Engineering, University of Twente, the Netherlands

Few names in modern elastomer science command as much respect as Dr. Jacques W. M. Noordermeer. Over the past five decades, he has been a central figure in advancing the understanding of rubber–filler interactions, silane coupling chemistry, and rubber-rubber blending — research that has profoundly shaped both academic inquiry and industrial practice.

As Emeritus Professor at the University of Twente, Dr. Noordermeer helped build the Elastomer Technology and Engineering (ETE) group into one of the world's most influential research centers in polymer and tyre technology. His scientific contributions have not only strengthened the foundations of the green tyre revolution but also inspired a generation of polymer scientists and industry innovators.

Beyond academia, his leadership as Chairman of the International Rubber Conference Organization (IRCO) brought together global experts under the prestigious International Rubber Conference (IRC) banner, promoting knowledge exchange and collaboration across continents. His long-standing partnerships with universities and industries — from the Netherlands to Thailand, India, and Malaysia — have exemplified how cross-cultural cooperation can accelerate innovation.

In this exclusive Rubber Review conversation, Dr. Noordermeer reflects on his research journey, his mentorship of young scientists, and the future of rubber and tyre technology in an era defined by sustainability, digitalization, and mobility transformation. With characteristic clarity and humility, he shares his views on the challenges ahead — from achieving a circular economy to bridging the gap between laboratory discovery and industrial application — and offers a vision for how science and collaboration can together build a smarter, cleaner, and more resilient rubber industry.



Journey, Inspiration & Career Reflections

What first inspired your interest in elastomer technology, and how did your early experiences shape your professional path?

As a young university student I obtained a Master's degree in biochemistry in 1970. At that time the visco-elastic properties of biopolymers, in particular proteins, were in focus to be understood scientifically. From that perspective my interest in rubber elasticity/visco-elasticity was raised. I subsequently had the privilege to obtain a PhD in polymer rheology under supervision of *Prof. Hermann Janeschitz-Kriegl* at the Delft University of Technology in the Netherlands in 1994. Thanks to his contacts in the academic world I was offered a—at that time Research Associate, presently called Post-doc—position at the famous Rheology Research Center of the University of Wisconsin, Madison, Wisc., USA, which allowed me the unique opportunity to work under renowned scientists in the field of polymer rheology, i.e. *Prof. Dr. John D. Ferry* and *Prof. Dr. Robert B. Bird*. And as I often told my students, of people getting involved in polymer rheology about 50% back off after one year as being too complicated, and the other 50% like it so much that they never want to do anything else anymore. I obviously belong to the second half.

Later on I worked for four years as a product development specialist for thermoplastics at General Electric Plastics in the Netherlands, but switched to a developments job and grew into the role of worldwide Research and Application Technology Director for the DSM Elastomers company in Geleen, the Netherlands, with subsidiaries in Tokyo, Japan; Baton Rouge, USA; and Triunfo, Brazil. I travelled practically the whole world with intensive customer contacts, which apart from the excitement to interact with customers of so many nationalities and backgrounds, shaped my expertise and enthusiasm.

During your years at the University of Twente, how did you help establish the Elastomer Technology and Engineering (ETE) group as a leading international center?

Well, by teaching polymer technology with emphasis on rubber technology as a special branch, which apparently motivated students to apply for PhD positions in my group of Elastomer Technology and Engineering. It grew slowly from the beginning in 1995 from one PhD student to 10 at the time of my retirement in 2013. I was lucky that in my time the so-called Dutch Polymer Institute was established, jointly sponsored by the Dutch government and the polymer industry, which made it relatively easy to get sponsorship for research projects in the field of rubber/elastomer technology, at a time when this sub-section of polymer research in the Dutch academic world was absent. While the Netherlands academia stood at the global forefront of polymer research—at least at that time.

It was because of this Dutch Polymer Institute that I was asked to become first a part-time professor in 1995, and later full-time professor of Elastomer Technology and Engineering in 2000 at the age of 53, though I kept an advisory position in the DSM Elastomers company until my formal retirement in 2013.

Looking back, what key milestones or turning points most influenced your scientific and professional journey?

As mentioned earlier, I was fortunate to receive in-depth rheological training—first in Delft and later in Madison—which had a profound impact on my scientific development. A second defining moment came when I decided to accept the offer to become a full-time professor in 2000. This meant leaving my technical and commercial role at DSM Elastomers, a decision that ultimately shaped the academic phase of my career and allowed me to fully dedicate myself to teaching and research in elastomer technology.


ON HALL

What personal philosophy has guided you through decades of teaching, research, and collaboration across continents?

I think my enthusiasm and broad international span of control in this field of science and technology, combined with my technical/commercial background and scientific experience, appealed to students and motivated them to study under my guidance.

Research Achievements & Scientific Milestones

You are widely recognized for pioneering work on rubber–filler interactions and silane coupling systems. What were the most important findings and industrial implications?

In 1992, Michelin filed their patent on the so-called green-tyre technology, based on the replacement of common carbon black as reinforcing agent for rubber by the combination of silica (sub-micron glass beads), silane coupling agents and special synthetic elastomers: R. Rauline, 12.02.1992, EP 0 501227 A1, to Compagnie Générale des Établissements Michelin. This was the result of multi-year development in cooperation, among others, with *Dr. Siegfried Wolff* of the - at that time -Degussa company. This silica technology allowed for a shift in the natural balance of rolling resistance – wet skid resistance – wear resistance of tyre treads, the so-called magic triangle of tyre technology; primarily towards an approx. 30% lower rolling resistance and consequently possible vehicle fuel savings of 5–10%. This patent basically only provided the composition/formulation of the tread compound, without background on the multitude of scientific elements behind it, or the necessary processing steps required for such compounds. These processing steps significantly deviated from what was common for carbon-black-loaded formulations.

While going around among my rubber acquaintances just after my start as part-time professor in 1995, I was prompted to devote my attention to elucidating the scientific ins and outs of the silica technology, which in the meantime since 1992 had raised much interest particularly among other tyre and rubber companies. So we did, with my PhD students. Later on, after the year 2000, this continued in close cooperation with my assistant of 20 years, *Dr. Wilma Dierkes*, as Assistant and later Associate Professor in the group. We are sure that all our output on this technology has significantly contributed to the implementation of this technology on a worldwide basis—at least for passenger car tyres.

We supervised 12 PhD students out of a total of 35 on this subject over the years.

How did your research on silica–silane chemistry contribute to the development of the modern green tyre?

As mentioned earlier, the silica–silane chemistry requires special types of synthetic elastomers/polymers, mostly SBR with a surplus of pendent vinyl groups for the silanes to react with. Unfortunately, Natural Rubber (NR), still representing approx. 45% of rubber consumption worldwide and primarily used for truck tyres and for passenger tyres in South-East Asia, has none of these pendent vinyl groups and therefore is not naturally positioned for the silica technology. In cooperation with the Prince of Songkla University in Hat Yai/Pattani, Thailand, and *Assoc. Prof. Dr. Kannika Sahakaro*, we have devoted a sizeable amount of research to make NR work with silica as well, but this is still more or less in development. We are waiting for a party to start implementing this, which commonly takes many years indeed.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Mocha
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KiDS

Among your research areas — rubber blends, compatibilization, thermoplastic elastomers, and recycling — which do you believe will remain most relevant for future innovation?

Where in the beginning of my professorship thermoplastic elastomers were very much in focus, and three of my first PhDs also did their research on these rubbers, the interest in new developments has decreased somewhat since then, as thermoplastic elastomers can do a good job in many simpler applications, but not for the heavy-duty ones like tyres, which after all represent approx. 75% of all rubber consumption.

As to rubber blends, the great majority of rubber formulations are based on rubber blends, so the subject by itself is more of the same.

We have done substantial work on recycling of rubber tyres, and particularly on de-vulcanization: making vulcanized rubber plastic again by "dissolving" the crosslinked network. We have produced 4 PhD studies on rubber de-vulcanization over the years, with more or less success. De-vulcanization stands out against rubber pyrolysis, which has gained significant attention over recent years, as it produces a sort of carbon black—or rather "unspecified char"—which can only be reused in a limited amount anew in, e.g., tyres. My opinion is that de-vulcanization is far more promising in the long term, though much more difficult to implement. In view of the need to find an outlet for the more than 10^9 end-of-life tyres in the world, we have to find a proper way to recycle them in some form or another. For me, this is one of the most important items for the rubber future to come, requiring major developments!

Could you highlight one or two scientific breakthroughs or publications that you consider defining moments in your career?

- J.W. ten Brinke, S.C. Debnath, L.A.E.M. Reuvekamp, J.W.M. Noordermeer, "*Mechanistic aspects of the role of coupling agents in silica-rubber composites*", Composites Science and Technology, 63 (2003) 3835-3847.

- M. Myhre S. Saiwari, W.K. Dierkes, J.W.M. Noordermeer, "*Rubber recycling. Chemisstry, processing and applications*", Rubber Chemistry and Technology, 85 (2012) 408-449.

How have collaborations with industrial partners such as DSM, Apollo Tyres, and Continental influenced your approach to academic research?

Of course, regular contacts with colleagues from these companies did shape my interests for future research subjects. But admittedly, the number of direct studies for those parties remained low. Most commonly, DSM Elastomers and Apollo Tyres contributed support to research subjects that were primarily financed by public organizations, such as the Dutch Polymer Institute (see before) and the Dutch National Science Foundation (NWO).

"De-vulcanization is the most promising path for the future — a difficult challenge, but essential if we are to find real solutions for the billions of end-of-life tyres facing our world."

Mentorship & Academic Collaboration

You have supervised many PhD students worldwide. What qualities do you value most in a successful researcher?

I (we) supervised a total of 35 PhD students who graduated from the University of Twente, of which 8 completed their PhD in joint collaboration with Prince of Songkla University, Thailand. What I appreciated most, and encouraged in my students, was hard work, an open mind, and a willingness to accept advice without taking it as criticism. I always made them feel that we were jointly working toward a good PhD with significant outcomes in publications, and the students appreciated that.

How do you inspire creativity and integrity among your students and young scientists?

This was an automatic process. There were practically no studies running on similar subjects at the same period of time, with an exception maybe for the silica technology. But for that subject there was so much to do that students could directly interact and mutually stimulate each other. My role was to stimulate them in their research with regular interactions/meetings, and most importantly with preparing publications: the first one was always a nightmare for the students, but after the first one was accepted or published, it greatly stimulated them to write more papers; and it went much smoother each time they prepared another one. I feel my direct involvement in publishing was perhaps my most appreciated role.

How does it feel to see your former students now leading laboratories, companies, and universities globally?

I can only say, of course, that it fills me with great pride. I have one full professor and three associate professors (one of whom is up for a full professorship) among my former PhD students. And although I am presently retired, I am still in contact with many of my former students in industry and public organizations on a regular basis, and it is always very nice to hear how they are progressing in their scientific and professional careers.

Your collaboration with Prince of Songkla University, a PhD-study site (PSU) in Thailand is well known. How did it begin, and what joint achievements stand out most?

It started with a tour by *Prof. Nakason* of Prince of Songkla University in the late 90s along various European universities to seek cooperation on rubber research. His objective was clearly to boost the scientific level of rubber research in southern Thailand, one of the main growing/production sites of Natural Rubber worldwide. On a return visit from my side, I met there a newly graduated Thai PhD student from Leeds University (UK): Kannika Sahakaro. I had an opening for a Post-doc, which I offered to her. She spent a year in my group in Enschede, and out of that grew a longstanding scientific rubber relationship. I myself had primarily a synthetic rubber background from my previous position in DSM Elastomers (EPDM rubber), while she brought a lot of Natural Rubber expertise. So, with approx. 45% of all rubber worldwide being Natural Rubber and the other 55% synthetic, the two of us covered more or less the entire field.

It soon led to joint PhDs: half time at Prince of Songkla, half time in Enschede, the Netherlands, where the candidates received two PhD diplomas from both universities based on one and the same PhD thesis. We have had 8 Thai PhD students out of the 35 who graduated on Natural Rubber-related subjects in this cooperation over the past 20 years; mostly on Natural Rubber–silica compounds indeed.

What lessons can other universities learn from the PSU–Twente collaboration model for building strong, long-term research partnerships?

See the previous point. There has always been mutual appreciation for each other's contributions, as we complemented one another's expertise: synthetic rubber (mainly European and American based) on my side, and Natural Rubber (primarily Southeast Asian) on hers. Together, we filled an important gap in each other's knowledge base.

Research Needs & Industry Collaboration

What are the most critical research gaps between academic studies and the practical needs of the rubber industry today?

Particularly in the field of rubber, scale-up to industrial size is a major problem. Industrial rubber articles are the result of the formulations and their method of processing. Universities by definition have no possibilities to carry out processing scale-up studies to industrial sizes. They can do small-scale formulation development all right, but when it comes to industrial implementation it requires entrepreneurship from the industry. Particularly in the field of de-vulcanization, I see little or no initiative.

Why do you think promising laboratory results often take time to be implemented in industry?

It is quite common, according to my experience, that breakthrough developments take approx. 20 years from the time of first discovery to full industrial implementation. It is no different in the rubber field; it may even take more time, because people often state that the rubber world is very "conservative," meaning "slow in implementing novelties." I do not necessarily agree with that point, because, as I said before, the way of processing rubber plays a crucial role in the outcome of every rubber development, and this is pre-defined by the type of processing equipment companies have installed at their sites. Such equipment is not so easy to replace or adjust for each and every novelty. So 20 years is probably on the low side.

Which emerging fields—bio-based elastomers, AI-driven compounding, recycling, or process optimization—should receive greater research focus?

Well, natural rubber is bio-based, and its share in global elastomer consumption has been slowly growing over the last decades. AI may help shorten development times of formulations, but I don't see how it will resolve processing issues or speed up process optimization. Apart from the limitations dictated by the existing installed equipment, industrial optimization simply requires a lot of creativity from the operating engineers.

As to greater research focus, the issues of rubber—particularly tyre recycling and tyre wear leading to microplastics—are the two hottest topics these days. Tyre wear is a difficult issue, as it is one of the elements of the "Magic Triangle," involving the trade-off between rolling resistance and wet traction. Reducing tyre wear will come at the cost of rolling resistance and/or wet traction. Finding a good balance in this intrinsic conflict is a major challenge. I wonder how far silica technology may help here, or perhaps even work negatively.

"In rubber research, scaling ideas from the lab to industry is the hardest step — it demands not only science, but the courage and creativity of industry to bring innovations to life."

What role can SMEs and start-ups play in accelerating applied innovation in the rubber sector?

Admittedly, the major breakthroughs in the rubber field have to come from the tyre world, which by definition is neither small nor medium enterprises. A small company established here or there may have some impact, but the sizeable steps have to come from large enterprises. These are, as people say, "*conservative*" because of the large amount of money invested in their equipment, which they cannot easily adjust.

Rubber Research in Asia vs. Europe

Having collaborated extensively across both regions, how would you compare the research priorities and environments in Asia and Europe?

As stated before, Thailand and India (the places in SE Asia with which I have had some or much cooperation) are primarily focused on Natural Rubber and its agricultural aspects, while Europe and the Americas are more synthetic-rubber-oriented. In addition, especially for Thailand, there was a need for more scientific rubber input in the 90s, as the country had expanded its Natural Rubber production after Malaysia and Indonesia had shifted away from rubber in favour of palm oil. Through the cooperation we had a sizeable amount of cross-fertilization, which helped both sides with their research and raised their scientific level. In particular, the processing (mixing) characteristics of Natural Rubber are special and significantly different from those of synthetics. At least some education from Thailand's side on this subject helped us Westerners a lot. And vice versa, education on rubber filler technology, particularly silica, helped them.

Do you believe Asia is becoming the epicenter of global rubber innovation?

I think this is a bit exaggerated. The primary interest in Natural Rubber in Asia will not change, because after all this is where by far the largest quantities come from. In addition, Natural Rubber is a green/sustainable material as opposed to the synthetics. The carbon footprint of green (raw) Natural Rubber is only about 10% of that of synthetics. I see the steady increase in relative quantities of Natural Rubber consumption vs. synthetics only continuing in the future. Not to totally replace synthetics, of course, because of the many smaller applications requiring the special traits of synthetic rubbers, such as oil resistance and heat-/aging-resistance: EPDM, (H)NBR, fluororubbers, and the like. The larger synthetic rubbers like SBR and BR were primarily developed during the Second World War as replacements/stand-ins for Natural Rubber, which was no longer available to the Allied forces in Europe and the Americas. And in fact, that is still to a large extent the case, property-wise.

The Role of IRCO and the International Rubber Conference (IRC)

As former Chairman of IRCO, how would you describe the organization's mission and its importance to the global rubber community — particularly in connecting researchers, industries, and institutions worldwide?

The mission of IRCO is to globally cooperate in organizing International Rubber Conferences as breeding grounds for new rubber generations. Nearly all major synthetic rubber-producing countries are members—not so much the Natural Rubber-producing ones, with the exception of India and Thailand. That is, in my view, a bit of an imbalance, while—as I said before—natural and synthetic rubber production are nearly on par. Admittedly, the involvement of students in the IRCs was a problem in the past, mainly because of the high costs involved for a student to attend the once-per-year IRC somewhere in the world, apart from the RubberCon, which is a small-size IRC under the auspices of the same organization, held somewhere in the opposite hemisphere from where the official IRC is taking place. RubberCons were established some 20 years ago and indeed, the number of young students has increased since then.


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Elastomer Technology and Engineering
THANK YOU FOR YOUR ATTENTION

The International Rubber Conference (IRC) has long been regarded as the most prestigious global platform for rubber science and technology. In your view, what makes IRC unique, and how has it evolved in technical scope, participation, and global impact over the years?

The IRC is the outcome of the only worldwide association of countries with sizeable rubber activities. It organizes its events, including expositions, all over the world. It has been in operation for some 60 years already and thus has established itself as the most global platform in the rubber world. All other rubber-related events are commonly on a regional level. The IRC is the place to meet your colleagues from all over the world once per year.

Looking ahead, how do you envision the future role of IRCO and IRC in promoting international collaboration, nurturing young talent, and driving innovation and sustainability across the global rubber industry?

It will depend. If the IRCO manages to increase the attendance of young, new scientists, it would be good. For the time being, the organization is well established. I do hope it will still manage to stay in operation for many years to come. I cannot look into a crystal ball.

Future of Rubber and Tyre Technology

How do you see the rubber and tyre industries evolving over the next decade under the forces of electrification, sustainability, and digitalization?

I don't think the force of electrification will change much, because the rubber processing industry is already to a large extent electrical in nature. But sustainability will become a steadily growing issue for the tyre and rubber industry at large. There are some dark clouds hanging over that business. More than half of the raw rubber is mineral-based. Large amounts of energy are involved—even if it is electrical in nature—in mixing, shaping, and particularly vulcanization of rubber products. And last but not least, there is the need to find proper disposal means for end-of-life rubber products—the > 10^9 end-of-life tyres. Vulcanized rubber is very difficult to de-vulcanize and to make reprocessable again, also because the original compound formulation is fixed from the first application and does not necessarily comply with what is needed for the new one. Grinding it to small particles and mixing it into new virgin compounds is only feasible to a few percent, so no solution for the bulk. What else, and who will bear the costs?

What material innovations — functionalized polymers, bio-based compounds, nano-fillers, or self-healing elastomers—will drive the next generation of performance materials?

Implicitly, most of these questions have already been addressed in the previous points, so there is not much to add. Self-healing rubbers are, in a sense, a contradiction in terms. Vulcanized rubber is by definition not meltable, so true healing is not naturally possible. Only by adding special ingredients that can migrate into and partially "re-vulcanize" small gaps formed after cracking or breaking can a self-healing effect be achieved. There are, however, some promising developments underway in this area.

How will smart tyres and sensor-integrated elastomer systems redefine vehicle safety, maintenance, and performance monitoring?

This is not so much a question for the rubber world per se, but for the automotive industry as a whole, where special sensors may be—or are already—built into tyres and cars to achieve this.


Congratulations
Prof. Dr. Jacobus (Jacques) Wilhelmus Maria Noordermeer
Honorary Doctorate (Polymer Technology)
Faculty of Science and Technology
Prince of Songkla University
September 11, 2019
At C.S. Pattani Hotel

What are the greatest challenges tyre manufacturers face in balancing durability, rolling resistance, and recyclability?

Recyclability and durability, in the sense of increased wear resistance and reduced tyre dust pollution in the air.

How can R&D collaborations between universities, tyre producers, and raw-material suppliers be strengthened to speed up innovation?

A good question; however, I have been struggling with this throughout my time at the university. I repeat, the rubber world is considered to be conservative. However, I would also say that the rubber industry is in general very secretive. Rubber people are all good friends but don't commonly exchange their ideas. This is certainly one of the reasons why they are restrictive in their interactions with academia. If this can be opened up in the future, it will certainly help.

Beyond tyres, how will technologies such as AI, simulation, additive manufacturing, and digital twins reshape elastomer design and testing?

Additive manufacturing, also called 3D printing, is typically applicable to thermoplastic materials, which solidify spontaneously upon cooling. Rubber behaves in the opposite way, as it generally requires heating to achieve form stability—apart from thermoplastic elastomers. For 3D printing of vulcanizable rubber, some attempts are underway, but there is a fundamental challenge intrinsic to rubber: shaping a rubber article, for example by extrusion, requires the material to remain "fluid," after which vulcanization—usually pressure-less and at elevated temperature—must take place. During heating, however, the rubber tends to flow away from the spot where it was deposited, meaning that maintaining shape stability requires artificial supports and special techniques. This makes true 3D printing of conventional rubber nearly a mission impossible.

In your view, what should be the global priorities for research and education to ensure the rubber industry remains sustainable, innovative, and competitive?

Recycling and wear/abrasion-resistance for tyres without compromizing rolling resistance and wet traction.

Vision & Personal Reflections

Looking ahead, how do you envision the evolution of rubber and tyre technology over the next decade — particularly in terms of innovation, sustainability, and collaboration?

Most of this follows from my earlier answers. It is clear that sustainability will play an increasingly important role. There are many research projects running worldwide. From my perspective, I expect the largest steps in the next decade to be in:

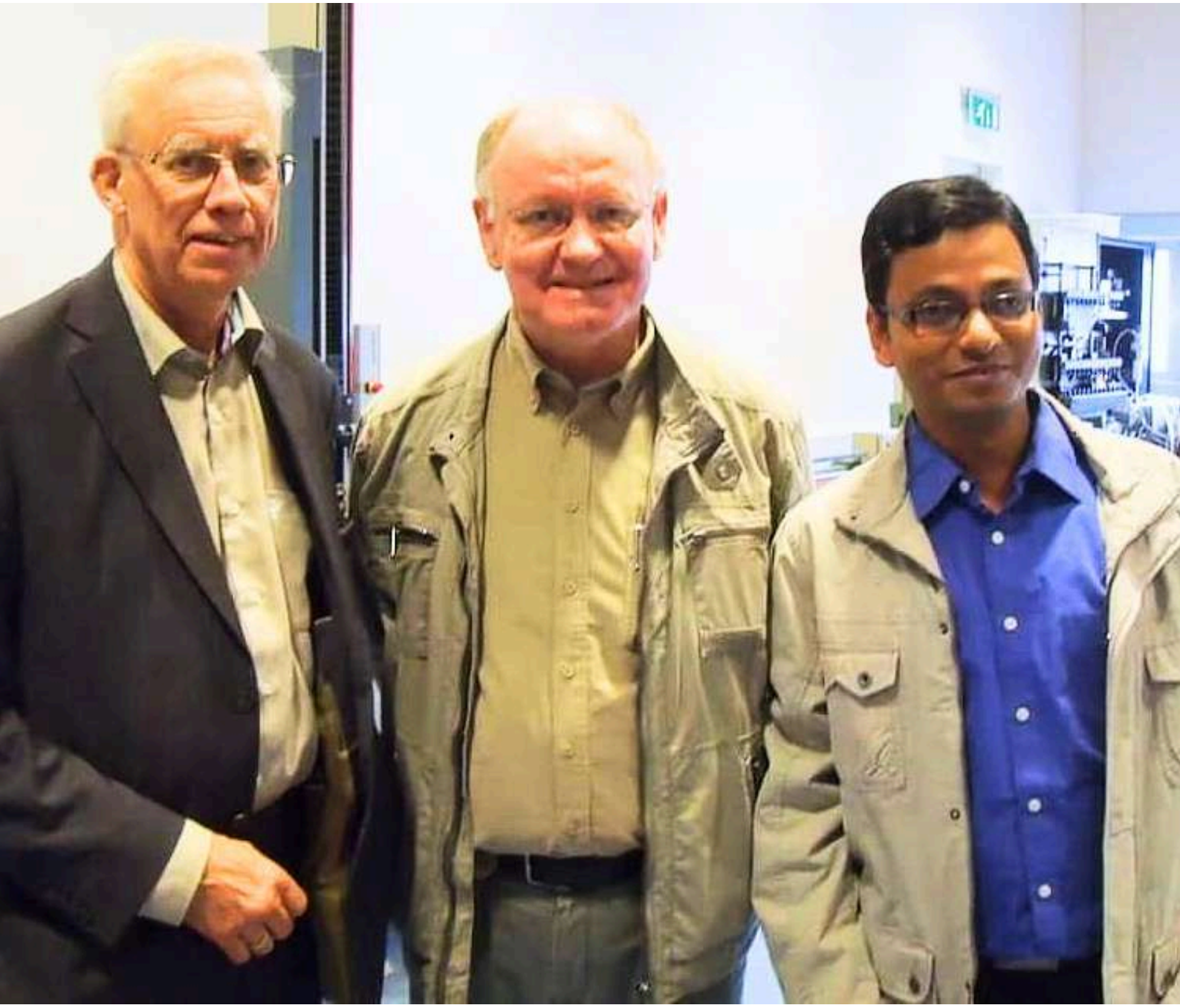
- *Green compounding and sustainability*: not only a continued, gradual move toward Natural Rubber, but more importantly toward green compounding—i.e., the use of bio-oils instead of oils of mineral origin, bio-resins, increased use of silica or similar fillers instead of carbon black of mineral origin, less toxic vulcanization aids, and moving away from ZnO as activator for sulfur vulcanization.
- *Rubber recycling, preferably in the form of de-vulcanization.*
- *A solution to the airborne tyre-dust issue*.

What core values or beliefs have guided your long-standing involvement in the global rubber community and continue to inspire your contributions today?

Having been educated as a "polymer specialist" and always hearing from my colleagues in the field that rubber technology was not a science triggered my curiosity up to this very day. And with success. Again: "once rubber, always rubber." It was and still is an exciting field of science and technology—maybe not always as clear-cut as thermoplastics, but that is the nice thing about it. Every day brings a new challenge. It never gets boring.

What message or advice would you share with young researchers and professionals who wish to make a meaningful impact in the field of elastomer science and technology?

"Join the party of rubber technology." It is an exciting branch of polymer technology, provided you are willing to take the time to dive into it. There is a 50% chance that you will enjoy it for the rest of your professional life—and even thereafter!



Quotes from Prof. Noordermeer

"True innovation comes from combining scientific insight with practical experience."

"The future of rubber lies in smart sustainability — bio-materials, recycling, and responsible innovation."

"In rubber science, every day brings a new challenge."

"Enthusiasm and curiosity are the engines of a lifelong scientific journey."

"Breakthroughs in rubber often take years — persistence is part of the science."

"Half the people walk away from polymer rheology; the other half fall in love with it forever."

Reflections on the Mentorship of Prof. Noordermeer

In this special section, former PhD students share their personal reflections on the mentorship, guidance, and inspiration they received from Prof. Noordermeer. Their messages highlight not only his scientific excellence, but also his integrity, patience, and the supportive environment he created—shaping their careers, character, and lifelong passion for research.

Prof. Kinsuk Naskar
Head, Rubber Technology Centre
IIT Kharagpur, India

I did my Ph.D. with Prof. Jack Noordermeer during 2000–2004 at the RBT (now ETE), University of Twente, The Netherlands. In those days, RBT was a small group with only a few Ph.D. candidates. My project was funded by the Dutch Polymer Institute (DPI) and focused on the application of peroxides and co-agents for PP-EPDM based TPVs. My other two TPV-group members were Pratip and Francesca. Those four years in Twente remain among the best years of my life—filled with learning, friendship, and academic growth.

Working with Prof. Noordermeer was an invaluable experience. He was truly a friend, philosopher, and guide. I learned not only about rubber technology and materials science, but also about the art of scientific writing and critical thinking. His way of correcting and commenting on papers was unique—firm yet inspiring. I deeply admired his knowledge, liveliness, humor, and dedication to both research and teaching. He had an exceptional ability to motivate students, understand their mindset, and guide them through challenges.

Prof. Noordermeer, along with the late Dr. Rabin Datta, played a pivotal role in shaping my career as an academician. His mentorship instilled in me the same values of curiosity, perseverance, and commitment that I now try to pass on to my own students. Since 2018, I have been serving as a Professor at the Rubber Technology Centre, IIT Kharagpur, supervising more than 25 Ph.D. students and 45 Master's students. I continue to remain in touch with him and ETE, and it was a moment of great honor when he invited me in 2018 to serve as a promotion committee member for a Ph.D. defense at Twente—truly a full-circle moment in my journey.

Prof. Noordermeer's contribution to global rubber science and technology is exceptional. His deep understanding, innovative approach, and lifelong dedication have influenced generations of researchers and professionals worldwide. He continues to be a source of inspiration, integrity, and enthusiasm for everyone who has had the privilege to work with him.

"Once rubber, always rubber — it never gets boring."

Reflections on the Mentorship of Prof. Noordermeer

Dr. Sitisaiyidah Saiwari
Associate Professor
Department of Rubber Technology and Polymer Science,
Faculty of Science and Technology,
Prince of Songkla University
Pattani campus, Thailand

My PhD journey began in 2009 at the Elastomer Technology and Engineering (ETE) Group, University of Twente, Enschede, the Netherlands, under the supervision of Prof. Noordermeer and Assoc. Prof. Dr. Wilma Dierkes. Those years became a defining period in my scientific and professional development. Working with Prof. Noordermeer offered far more than technical training in rubber science—it provided a model of rigorous scholarship and genuine mentorship. His guidance profoundly shaped the way I approached research: from formulating hypotheses to analyzing results with clarity, structure, and critical thinking. I came to deeply appreciate his meticulous attention to detail and his unwavering commitment to scientific integrity—qualities that continue to guide my own work today.

Prof. Noordermeer's influence extended well beyond the laboratory. His patience, encouragement, and humanity created an atmosphere in which every member of the group felt supported and inspired. I still remember his memorable advice: "Life is so difficult, keep smiling." That simple line carried a wisdom that helped us handle the pressures of research with optimism and resilience. Under his leadership, the ETE Group flourished as a collaborative, dynamic, and intellectually vibrant environment. His contributions to elastomer technology and rubber chemistry are widely recognized—not only through his publications and innovations but also through the many scientists he has trained and guided. I consider myself truly fortunate to have been one of them. The lessons I learned from Prof. Noordermeer continue to shape my research philosophy and teaching approach, and I remain deeply grateful for his mentorship and lasting impact.

Dr. Wisut Kaewsakul
Assistant Professor
Futuristic Science Research Center
School of Science, Walailak University
Nakhon Si Thammarat, Thailand

"I began my journey sixteen years ago in the Double PhD Program between the University of Twente and Prince of Songkla University under the guidance of Professor Noordermeer and Professor Sahakaro. This program had a profound impact on both my professional and personal development. The intellectual rigor of Professor Noordermeer greatly shaped my way of thinking and my approach to research. I learned immensely from his mentorship. I was fortunate to work alongside him again at ETE, starting as an assistant professor in 2017, until my return to Thailand in 2025 to join Walailak University.

His outstanding contributions to rubber technology remain highly relevant today. Known for his openness and willingness to support anyone facing rubber-related challenges, he continues to be remarkably active in the field. His philosophy, dedication, and perseverance have been truly inspiring. His emphasis on always asking "why" in research taught me to seek the fundamental essence of every problem and to understand the true purpose of a PhD. Professor Noordermeer is a role model whose guidance instilled in me invaluable professional values that continue to shape my work to this day"

Reflections on the Mentorship of Prof. Noordermeer

Dr. Anoma Thitithammawong
Associate Professor
Department of Rubber Technology and Polymer Science,
Faculty of Science and Technology,
Prince of Songkla University
Pattani campus, Thailand

I first met Professor Jacques Noordermeer in Thailand in 2003, when he visited to explore research collaboration and to interview me for the PhD program in Polymer Technology at Prince of Songkla University, Pattani. I was supervised by Assoc. Prof. Dr. Charoen Nakason as my main advisor, with Assoc. Prof. Dr. Kannika Sahakaro and Prof. Noordermeer as co-advisors. Even at that first meeting, his polite yet straightforward manner, coupled with his sincere advice, left a lasting impression on me. In 2005, I had the opportunity to spend a year in the Department of Rubber Technology (the former name before becoming ETE) at the University of Twente, where I worked closely with him. He was not only a brilliant scientist but also a kind and thoughtful mentor. I still vividly remember my first day mixing rubber with peroxide on a two-roll mill while he stood beside me holding a fire extinguisher—just in case. That moment reflected both his sense of humor and his genuine concern for safety, and it is a memory I have cherished ever since.

From him, I learned the importance of working carefully, thinking deeply, and staying humble. His guidance was clear and honest, always encouraging yet never overstated. The way he supported and taught his students continues to influence the way I mentor my own today.Even after I completed my studies, Prof. Noordermeer remained closely connected with our program, helping to strengthen the Doctoral Program in Polymer Technology and supporting many young Thai PhD students. His lifelong contributions to rubber science—bridging fundamental understanding with industrial application—have inspired researchers around the world. I will always be grateful for his guidance, kindness, and the warmth he shared with everyone around him. He showed us that great science is not only about knowledge, but also about people, care, and lasting friendship.

Dr. Ammarin Kraibut
Postdoctoral Fellow
Department of Rubber Technology and Polymer Science,
Faculty of Science and Technology,
Prince of Songkla University
Pattani campus, Thailand

I started my PhD studies five years ago in the Double PhD Program between the University of Twente and Prince of Songkla University. Professor Jacques Noordermeer has been one of my supervisors throughout this journey. Even after his retirement, he continues to work actively and support our team in many ways. Working with Professor Noordermeer has been a wonderful experience. He is a true example of an exceptional teacher—always active, patient, and inspiring. From him, I learned how to break down difficult problems into simple steps and how to keep improving with persistence. His advice and encouragement have always helped me grow and never give up when facing challenges.

His mentorship has influenced not only my research but also my perspective on life. He taught me the importance of maintaining a balance between work and personal life, which has made me both happier and more motivated in my career. Professor Noordermeer's contributions to rubber science are outstanding and enduring. He continues to learn, share new ideas, and inspire scientists around the world. He is a remarkable role model for me and for everyone who strives to advance rubber technology.

Reflections on the Mentorship of Prof. Noordermeer

Dr. Tony Mathew
Global Market Manager (Automotive)
Te)ijin Aramid BV
The Netherlands

I pursued my Ph.D. study under the supervision of Prof. Jac Noordermeer from 2004 to 2008 in the former RBT department (later ETE) at the University of Twente, the Netherlands. My research was part of a project funded by the Dutch Foundation for Technical Sciences (STW), where we investigated surface modification of rubber fillers using plasma technology.

Prof. Noordermeer possesses deep expertise in the rubber field and often emphasizes that rubber technology is inherently multidisciplinary, which makes it a fascinating area of study. Having spent many years in the industrial sector, he consistently designed projects with strong industrial relevance. This approach made all our Ph.D. projects not only highly interesting but also challenging. His guidance and mentorship helped me become an independent researcher, a skill that has greatly benefited my career.

He reviewed and corrected his students' articles with exceptional attention to detail, which was clearly reflected in the quality of the final publications. This process taught me the fundamentals of effective scientific writing. Prof. Noordermeer was also passionate about improving students' presentation skills, advocating principles such as "one minute per slide," minimal text, and more visuals. These trainings enabled me not only to produce quality research but also to present it convincingly to diverse audiences.

His contributions to rubber science and industry are immense. Throughout his career, he explored nearly every aspect of rubber technology while maintaining a strong focus on industrial relevance. His energy and enthusiasm continue to inspire scientists in both academia and industry. His teachings remain a guiding force in my professional journey.

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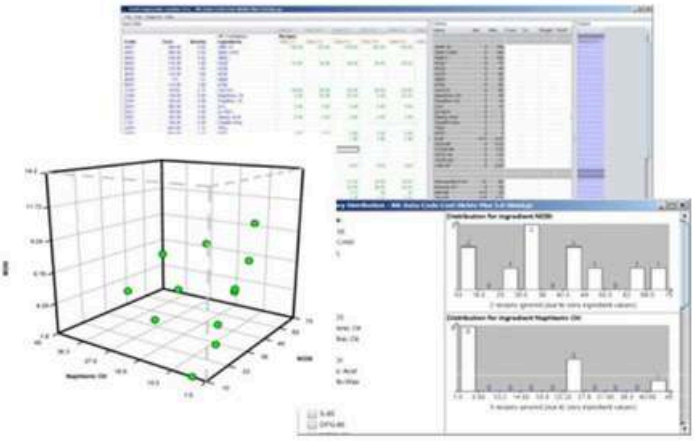

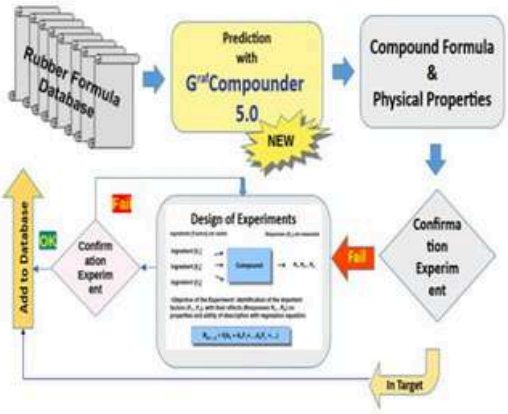

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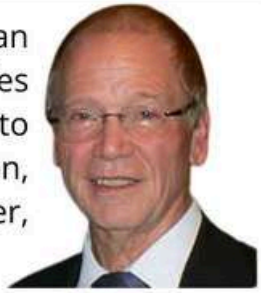

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For a demonstration, please contact: ***Dr. Hans-Joachim Graf*** (h-jg_consulting@t-online.de)

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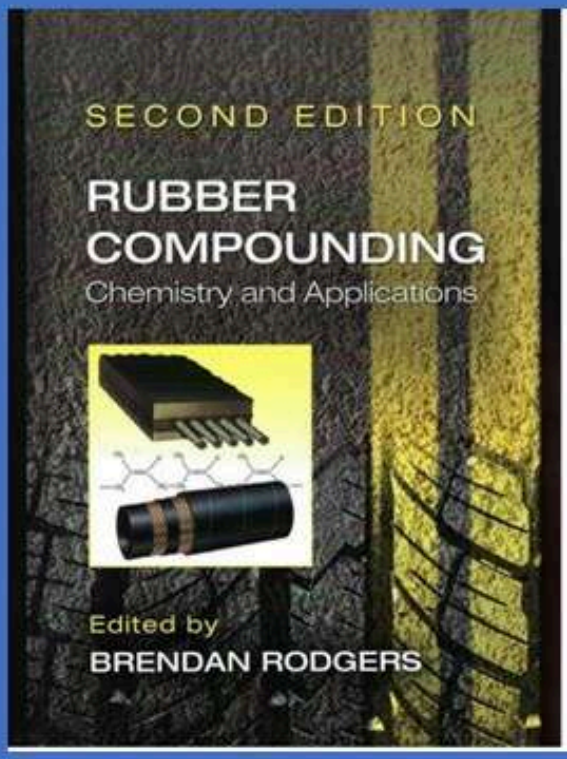

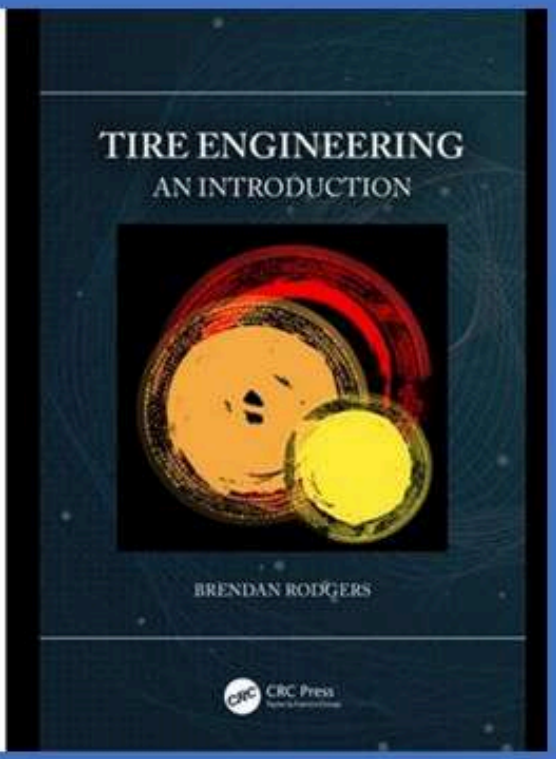

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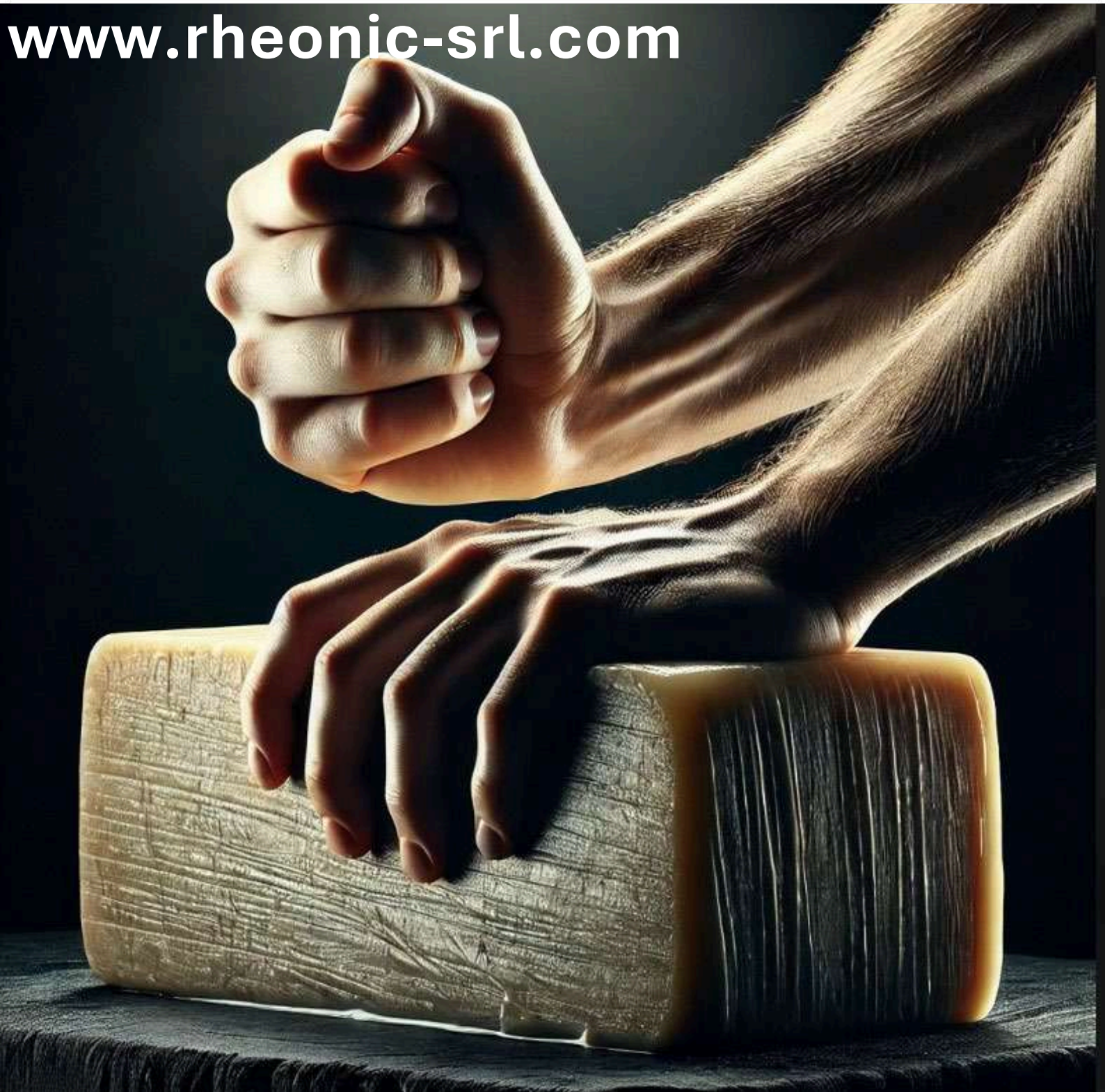

RUBBER Review

Issue-24 | 10-16 November 2025

IRMRI Spotlight

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

Formerly known as Indian Rubber Manufactures Research Association(IRMRA)

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

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

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

IRMRI Facilities Covers

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

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE REGIONAL CENTRE'S

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Sri City Trade Centre, Sri City (Dt.)
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Sr. Deputy Director
pv@irmra.org
info.south@irmra.org
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
South Asian Rubber Park,
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Dulagarh, West Bengal - 711302
Contact: Dr. Basu,
Sr. Asst. Director & Centre Head
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Vasant Kunj
New Delhi - 110 070
irmra.nc1@irmra.org
Mob No.:+91 9716230295

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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

IRMRI ANNOUNCES

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

DATE- 25th to 28th Nov 2025

Who We Are

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

VENUE

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

Faculty Expertise

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

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

Course Coverage

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

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

Target Audience

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

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For more details contact us:

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

Mr. AMOL TAMBE
Training Coordinator
infotrg@irmra.org

9969167262 / 8291404906.

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

INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

FORMERLY KNOWN AS INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA)
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DATE -25TH TO 28TH NOV 2025
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7. Internal Audit in ISO/IEC 17025
8. Handling Non-Conformities.
9. Reporting Audit record in ISO/IEC :17025
10. Challenges in Implementation
11. Conclusion

TARGET AUDIENCE

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

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

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

REGISTRATION FEE

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

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

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

https://irmri.org/

CALL US FOR MORE INFO

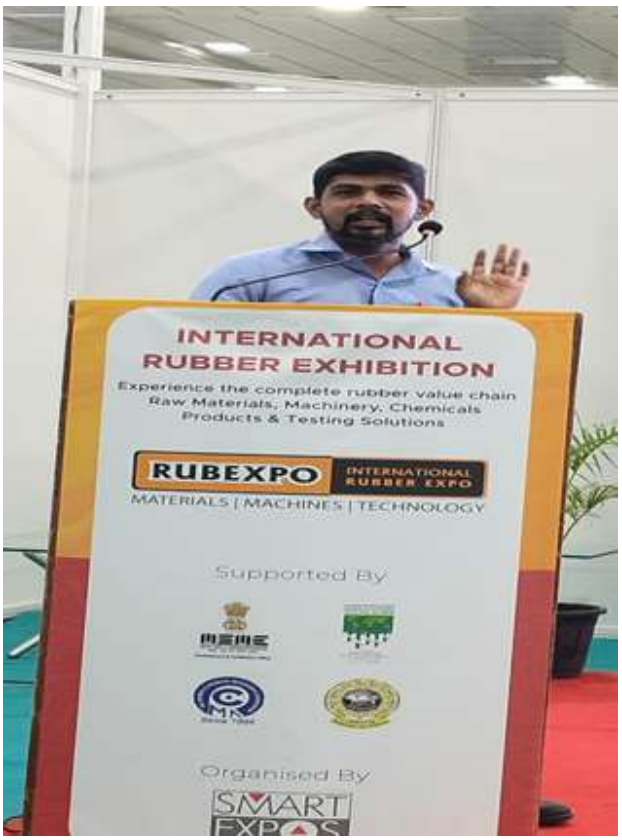
Dr. Sheik Mohammed, Asst. Director & Center Head, 9003331713 / sheik.mohammed@irmra.org
Mr. V. Karthikeyan, Business Development Manager, 7045086164 / 9361324212/ veerappan.karthikeyan@irmra.org
Mr. Saravana Kumar, Sr. Engineer, 9361535780 / mktg@irmra.org

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

(PAYMENT QR CODE)

IRMRI South Centre at RUBEXPO 2025: Driving Innovation and Global Growth

IRMRI South Centre, Sricity showcased its innovation and global vision at RUBEXPO 2025, held from 6–8 November at the Chennai Trade Centre. Dr. T. Vinoth, Senior Scientific Officer, delivered a compelling presentation on "Export Opportunities for Indian Rubber Industry," outlining strategies for global market expansion and sustainable growth. IRMRI extends heartfelt thanks to Mr. Paul Vannan, Dr. Sheik Mohammed, Dr. Saleem, Mr. Saravanan, and the entire Sricity team for their guidance and support in making this participation meaningful. Together, IRMRI continues to advance India's rubber industry through research, innovation, and international collaboration.



INDIAN RUBBER MATERIALS RESEARCH INSTITUTE

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November 27, 2025

Prop. No. 111/9, 3rd Floor, Kishangarh,
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IRMRI-DELHI ANNOUNCES ONE DAY TRAINING PROGRAM ON

"FAILURE INVESTIGATIONS OF RUBBER PRODUCT"

TRAINING OVERVIEW

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

WHO SHOULD ATTEND

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

LEARNING OBJECTIVES

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

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

REGISTRATION FEE

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Rs. 4,000/- for Non - Residential Candidate
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V. KARTHIKEYAN (Business Development Manager)
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ARISE - ASSOCIATION FOR RUBBER INNOVATION AND START-UP ENTREPRENEURSHIP

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

ARISE Impact

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

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

ARISE - Future Outlook

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

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

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

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

Weatherometer

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

Standards and Their Purpose

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

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

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

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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.

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

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

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

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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.

Contact Us

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URL:www.dowellacm.com

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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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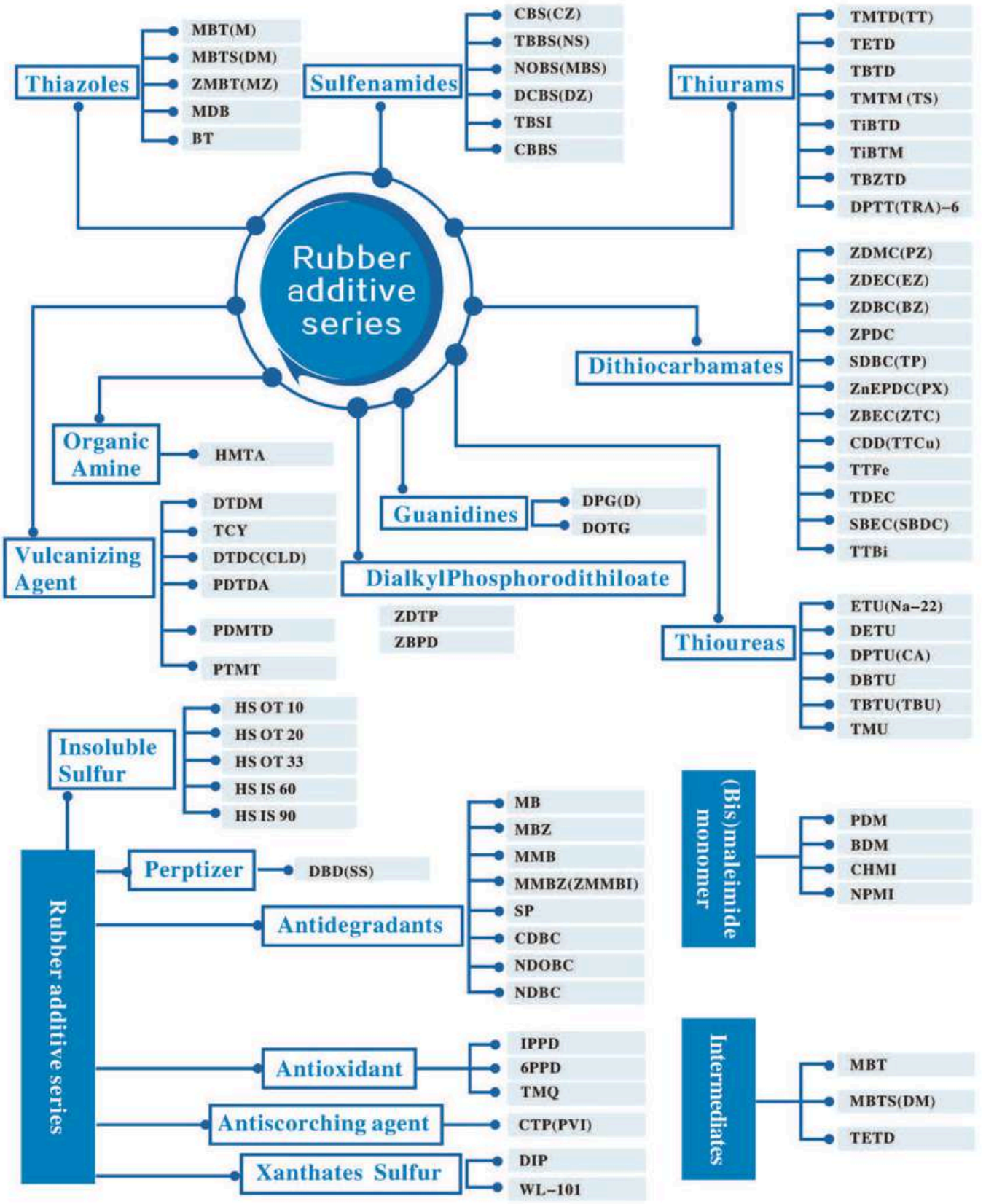

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MOB：+86 158 3936 2818
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QINGDAO XIANG RUN HAO IMPORT AND EXPORT CO.,LTD

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.

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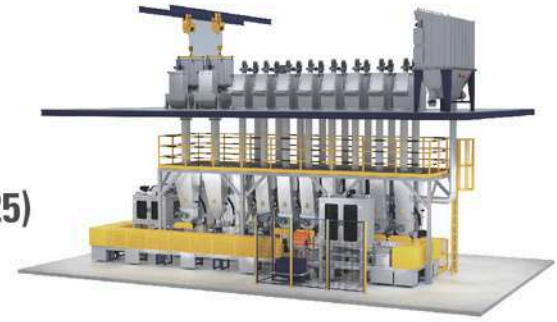

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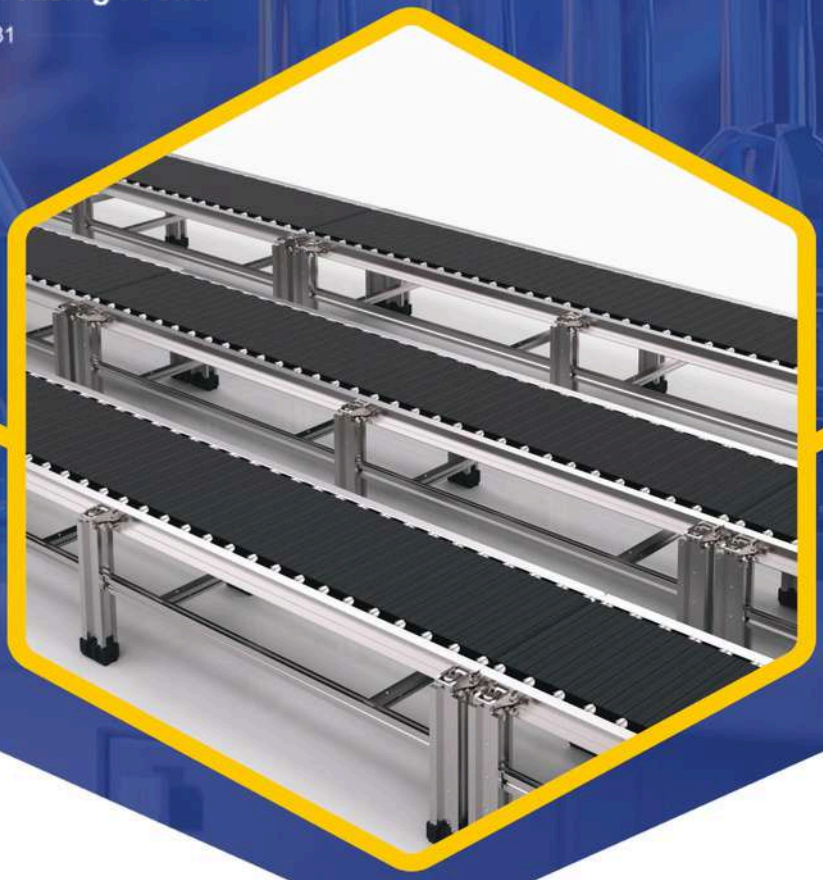

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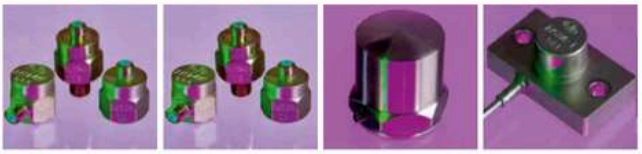

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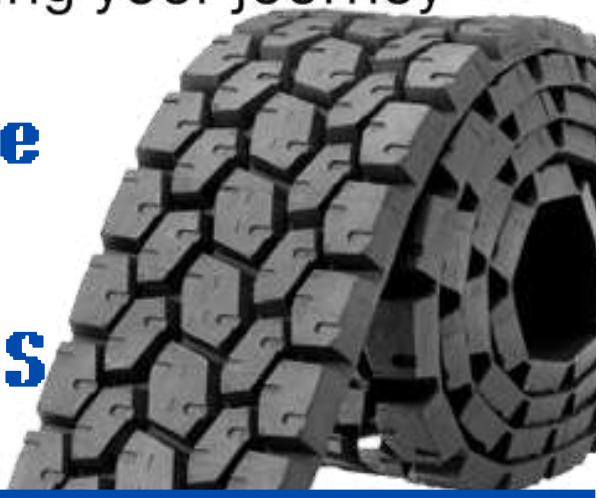

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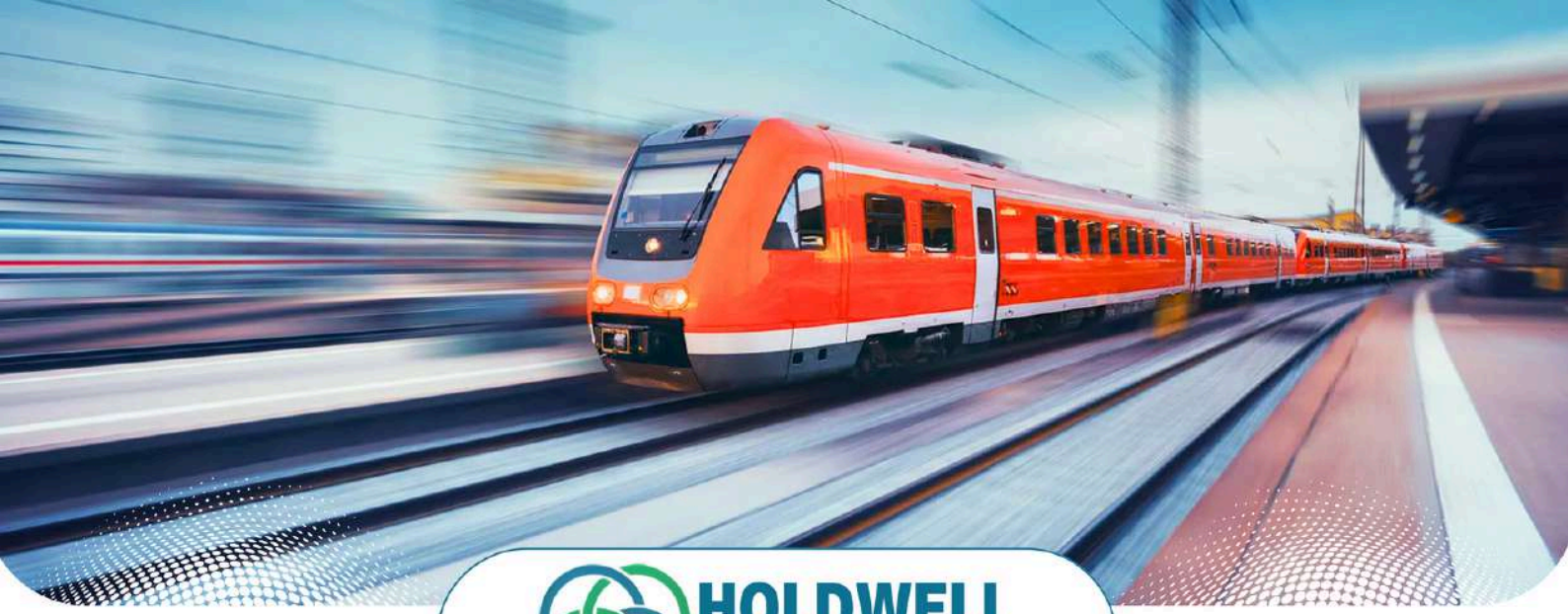

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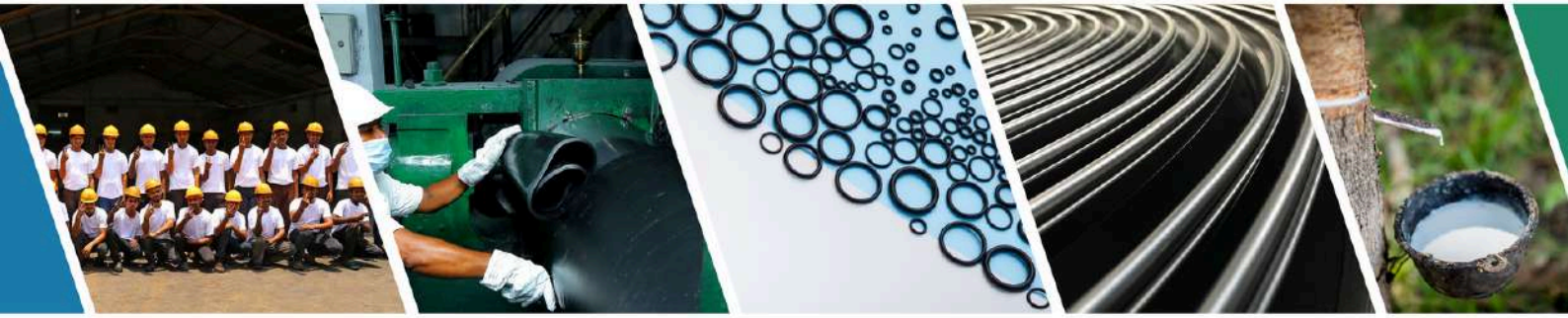

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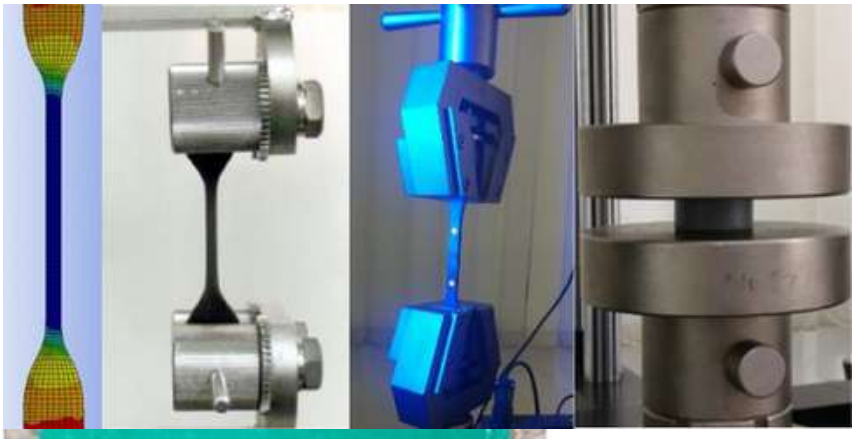

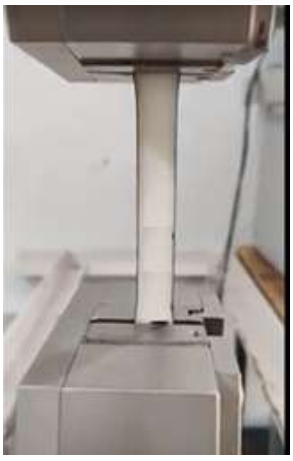

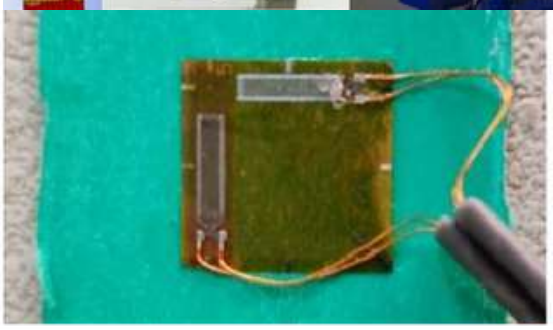

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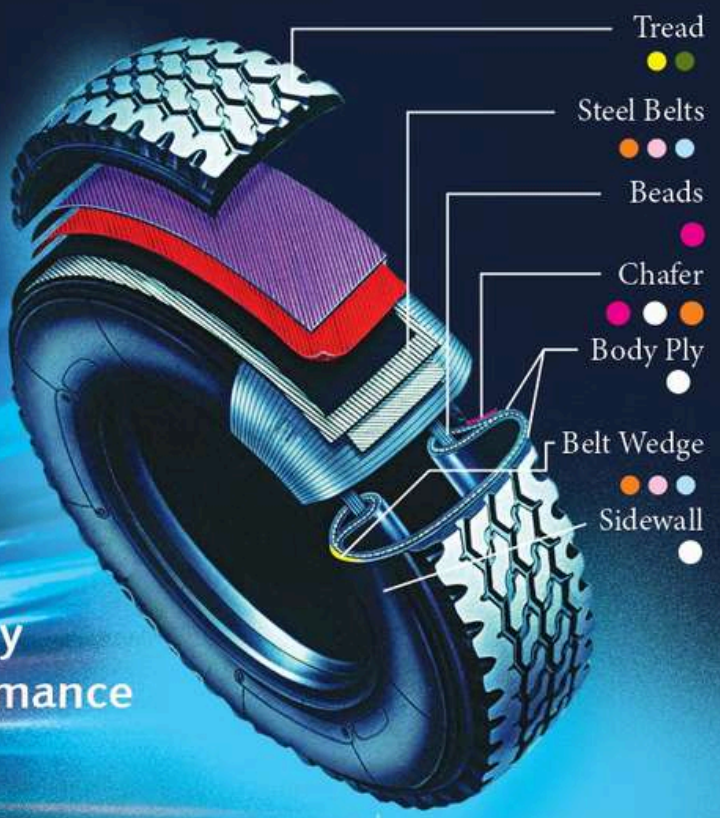

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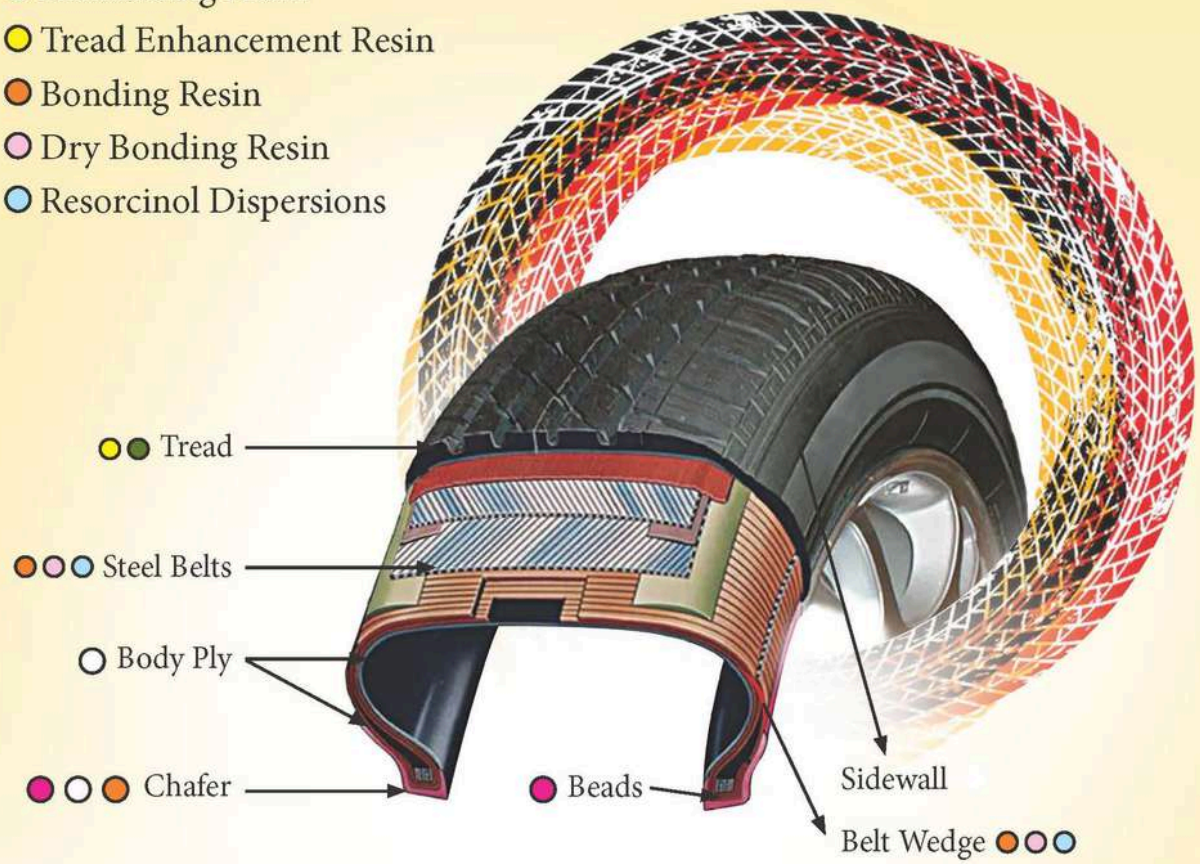

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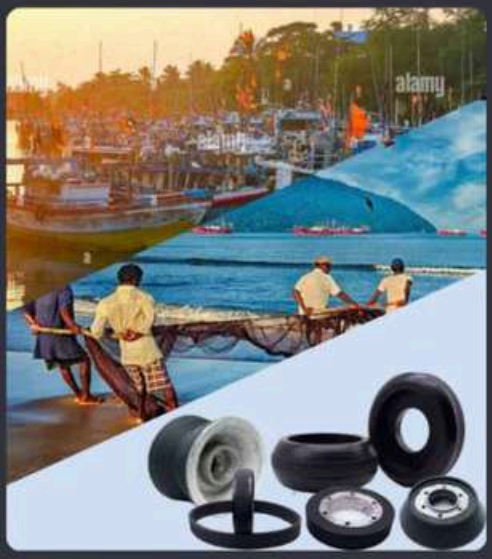

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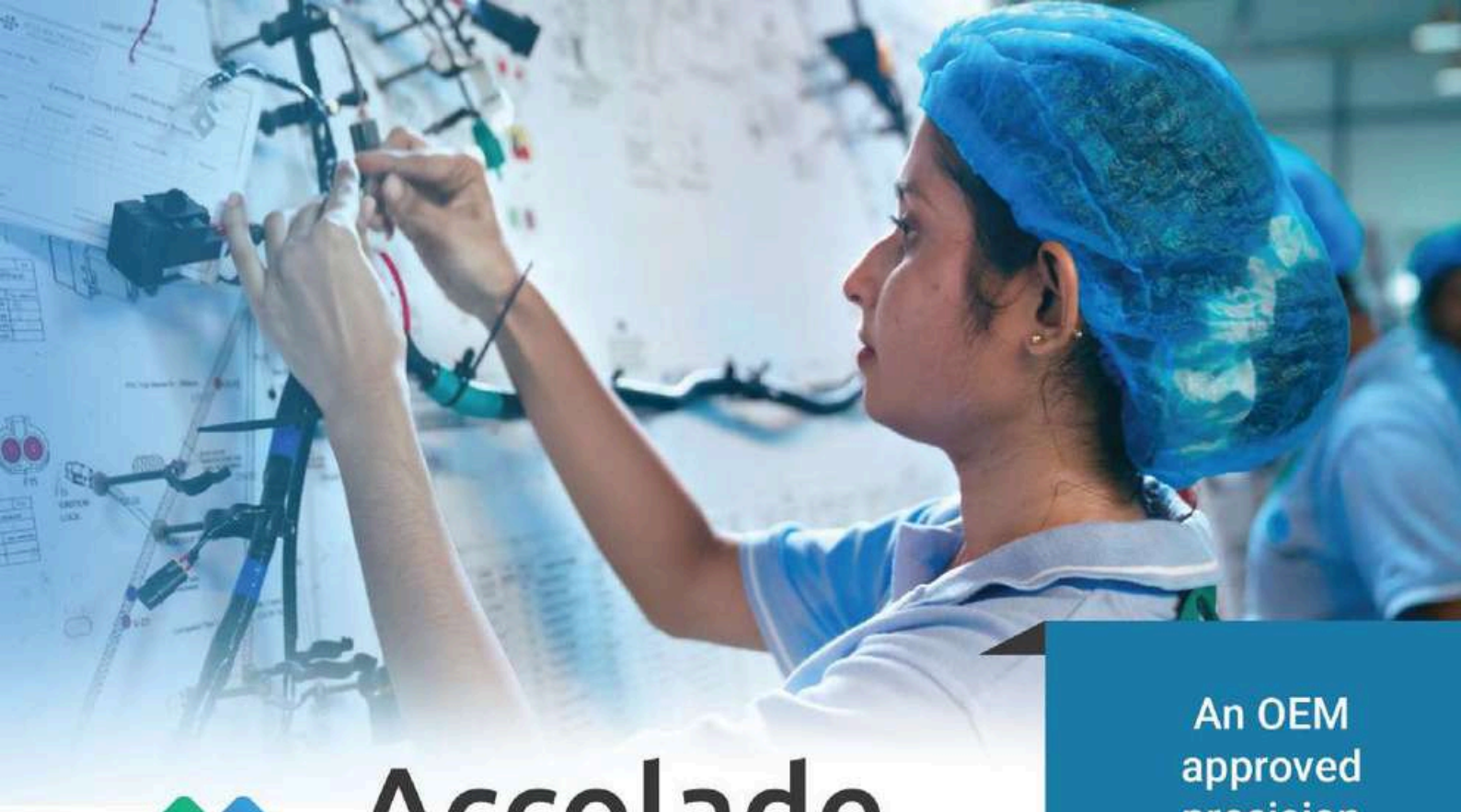

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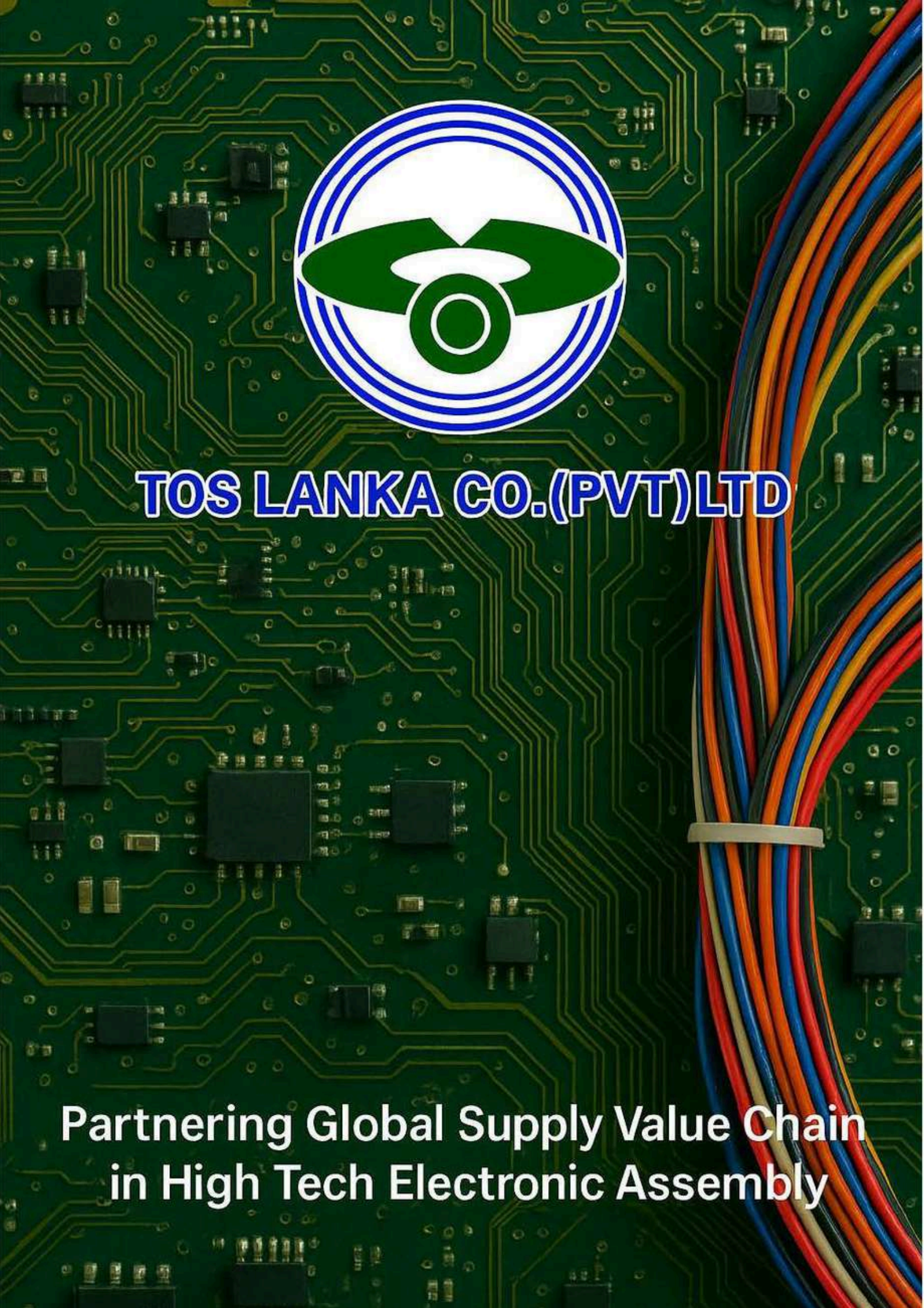
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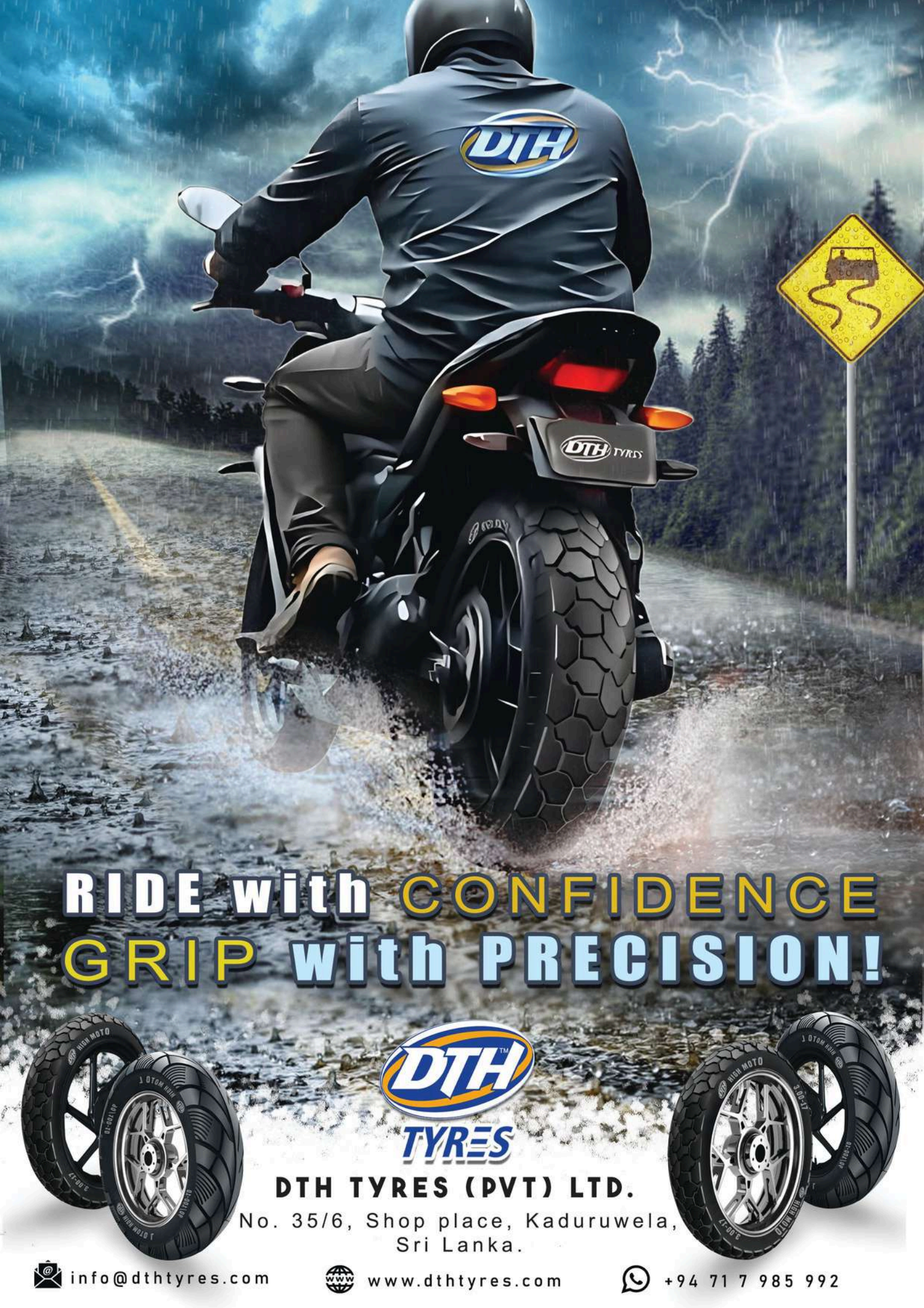
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RUBBER BUSINESS NEWS

RUBBER Review

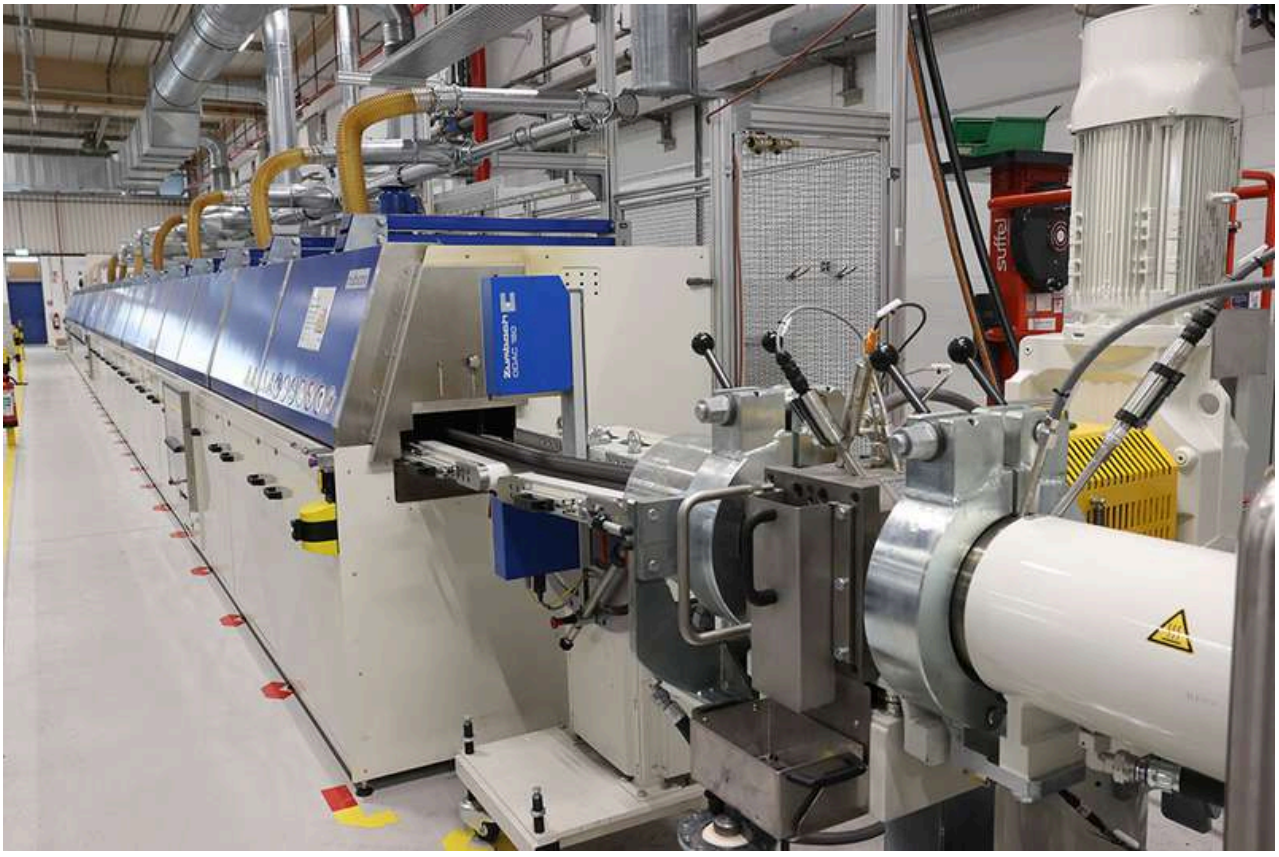
Freudenberg - NOK Sealing Technologies Expanding Aftermarket Portfolio

Freudenberg-NOK Sealing Technologies (FNST), together with its aftermarket division Corteco, has acquired Alto Products Corp., the world's oldest and largest independently owned manufacturer of clutch plates and automatic transmission parts. This acquisition strengthens Freudenberg's position in the North American and global aftermarket, expanding their product and service offerings for customers worldwide. Alto Products Corp. operates a 270,000-square-foot manufacturing facility in Atmore, Alabama, with additional sales and distribution locations in Mexico, the Netherlands, and China. The family-owned company employs approximately 240 people, with 230 based in the United States. Alto is renowned for its friction plates, steel reaction plates, and comprehensive kits for automatic transmissions, serving automotive, heavy-duty, and marine segments.

"*With the acquisition of Alto Products Corp., we are not only expanding our product portfolio but also reinforcing our commitment to delivering comprehensive, high-quality solutions to our customers. Alto's legacy, technical expertise, and strong brand presence in the aftermarket align perfectly with our strategic vision*," said Dr. Christian Dickopf, Senior Vice President of Freudenberg-NOK Sealing Technologies' Corteco Division. The acquisition enables FNST to offer complete transmission rebuild solutions by integrating Alto's friction and steel plates into new product offerings for the market. This unlocks growth in heavy-duty and recreational vehicle segments, enhances vertical integration, improves risk management, and strengthens supply chain resilience through Alto's U.S.-centric manufacturing. It also expands FNST's reach into international markets by leveraging Alto's established presence in Latin America and Asia, while creating opportunities to consolidate product lines and operations across FNST's global footprint.

Judy Love, North American Vice President of the Corteco division, said, "*This partnership strengthens our ability to deliver comprehensive solutions to customers across North America and globally. We are excited to welcome Alto's skilled team into the Freudenberg organization*." The acquisition marks a strategic step forward for Freudenberg-NOK Sealing Technologies. It reinforces the company's commitment to long-term growth, operational excellence, and customer-focused innovation in the transmission aftermarket sector.

Process Engineering: New Extrusion Process For Seal Profiles



The specific properties of vulcanized materials make them essential for many areas of application. In industries such as aerospace, food and beverages and the energy sector, components must meet the highest standards of abrasion and chemical resistance, elasticity, and durability. Delivering top-quality solutions in these areas requires excellent materials expertise, and at Freudenberg Sealing Technologies this goes hand in hand with state-of-the-art production technologies: With LCM (Liquid Curing Method), the company is now commissioning an advanced vulcanizing extrusion line. This is a process in which the fluid used for vulcanization consists of molten salt, heated to around 200 degrees Celsius and filled with vulcanizing salt. The entire line operates in a closed loop, in which the salt is continuously recycled, fed back into the process and reused.

Process stability: Extrusion line vulcanizing with molten salt

The core of the 36-meter extrusion line is a 19-meter salt bath. At the start of the production line, two mobile extruders run on specially installed rails as needed. This allows for a quick conversion of the production environment – from delicate millimeter-scale geometries to large-format sealing cross-sections. The extruded profile is vulcanized in a continuous process in the 200 degree molten salt. The molten salt ensures uniform heat transfer without exposure to oxygen. First, the extruded profile is sprayed with hot liquid salt in a trickling section. This vulcanizes the outer surface of the workpiece and ensures dimensional stability. In the next process step, the profile is fully immersed in the hot salt and drawn through a roller section in the salt bath. Then the profile is gently shaken on a beater section so that the liquid salt falls off. Finally, any remaining salt is removed from the sealing profile along a combined washing, cooling and blow-off section and cooled to room temperature. This manufacturing process enables Freudenberg Sealing Technologies to respond flexibly and quickly to customer-specific requirements in material selection and development.

Special seals. Unique materials expertise meets extrusion technology

The LCM process makes it possible to use a variety of cross-linking systems – including peroxide cross-linking – in a continuous line. Thanks to this high level of flexibility, Freudenberg Sealing Technologies can process a wide range of elastomers. As a result, a wide range of sealing solutions is available for customers' demanding environmental conditions. High-performance materials from the material groups NBR, EPDM (ethylene propylene diene monomer) and FKM (fluorinated rubber compounds) play an important role in this area. These materials are ideally suited for use in demanding environments due to their outstanding individual properties. Additional material groups are currently under development.

Growth markets: Seals for Power-to-X and industrial applications

Achieving climate neutrality requires high-quality materials along the entire value chain. In onshore and offshore wind farms, there is a trend towards larger turbines with longer rotor blades and taller towers. The loads occurring here are transferred to the structure. This means that the foundation seals must compensate for large gap movements on a long-term basis, even under extreme storm conditions. In such a challenging environment, the expectations for the service life of sealing solutions are enormous: up to 35 years or more. Depending on the requirements and available installation space, Freudenberg Sealing Technologies offers both large-scale seal profiles and already established seal dimensions made with improved materials for wind turbines. The new LCM system expands the options available in both cases.

The energy generated on land and at sea is also used for hydrogen production. Alkaline electrolyzers require special materials and seal sizes that are resistant to the potassium hydroxide solution used in the process. Large seal diameters sometimes have to work with extremely delicate profiles with high tolerance requirements. The process industry also requires large seals capable of withstanding aggressive media and high temperatures. Potential applications range from lids and hoods in soldering systems to hot-air ovens in the food industry. The advantages of molten-salt vulcanization can be fully leveraged in producing such specialized seals. This is because the new LCM process offers access to an extensive materials portfolio, enabling highly precise manufacturing of both small and large cross-sections of seals.

Process monitoring: Integrated continuous measurement process and quality assurance

To enable documented monitoring of the sealing profiles during the vulcanization process, Freudenberg Sealing Technologies has implemented a state-of-the-art sensor system. It measures key product characteristics and is integrated into the production process to monitor the vulcanized seal profiles. In addition, an advanced control system adjusts the process based on the still non-vulcanized profile. Now it is possible to produce filigree profiles with a wall thickness of 1 millimeter with a tolerance of 0.1 millimeters. This is an enormous quality improvement from the previous 0.3-millimeter tolerance range. Thanks to this molten-salt extrusion process, the company's customers now have access to a similarly wide range of materials that was previously only available through molding processes. It also includes sealing solutions approved in accordance with the regulations of the U.S. Food and Drug Administration (FDA). This is how Freudenberg Sealing Technologies is expanding its range of solutions for large-format seals. Customers benefit particularly from the company's excellent materials know-how and design expertise.

Birla Carbon highlights aspiration to develop Continua™ Sustainable Carbonaceous Material as a significant part of its global product portfolio

John Loudermilk, President and Chief Executive Officer, Birla Carbon, highlighted the company's vision to scale up the availability of its successful circular offering, Continua™ Sustainable Carbonaceous Material (SCM), with a potential to reach up to 10% of its global product portfolio. The remarks were made during the Reuters Events – Sustainability Europe 2025 conference, held in October in London.

Developed from end-of-life tires, Continua™ SCM is Birla Carbon's circular material, developed at an industrial scale with a focus on quality, consistency, and technical excellence. The material enables manufacturers to enhance product sustainability and circularity across a range of applications while maintaining performance standards.

"While global carbon black consumption typically grows in line with GDP, the demand for sustainable and circular products is increasing at a much faster pace," said John Loudermilk. He added, "At Birla Carbon, we see an opportunity to displace up to 10% of the carbon black consumption in the world with circular materials like Continua™ SCM, our brand that is derived from end-of-life tires."

John also highlighted the importance of a supportive regulatory environment across regions, deeper collaboration with tire pyrolysis technology partners, and strengthened engagement with customers to accelerate the adoption and scale-up of circular materials.

Continua™ SCM can partially replace carbon black in a wide range of applications, including tires, rubber goods, coatings, inks, and plastics, significantly reducing the carbon intensity of end products without compromising performance.

As part of its broader sustainability portfolio, Birla Carbon is also advancing carbon black produced from bio-based feedstocks. In pursuit of its aspiration to achieve net-zero carbon emissions by 2050, the company continues to explore advanced technologies in the realm of carbon capture and conversion, along with process efficiency enhancements to improve yield and resource utilization.

OCSiAl Launches Development of the World's Largest Graphene Nanotube Manufacturing Hub in Luxembourg

OCSiAl, a Luxembourg-based deep-tech company and the global leader in graphene nanotube technologies, has announced the signing of a land lease, launching the development of its flagship graphene nanotube production center in Differdange, Luxembourg, that will become the world's largest graphene nanotube production facility.

This official announcement is a culmination of a years-long effort by the company and the Luxembourg Government, including most recently an investment round raised from a "club" of Luxembourg-based investors and the signing with the State of Luxembourg of a long-term land lease for a 3.63-hectare site in Differdange.

"*The launch of this future production center in Differdange perfectly illustrates our ambition to position Luxembourg as a key player in industrial innovation in Europe. This major investment in graphene nanotubes demonstrates investors' confidence in our ecosystem and highlights the potential of our business parks to host high-tech industrial projects. We are proud to support OCSiAl in this strategic step, which will contribute to the creation of skilled jobs, the reputation of Luxembourg in deep-tech, and the transition to a more sustainable and competitive industry,*" said Lex Delles, Minister of the Economy, SME, Energy & Tourism.

"*OCSiAl's investment highlights Luxembourg's role as a platform for long-term innovation and smart industrial development*," added Gilles Roth, Minister of Finance. "This project reflects the value of combining private sector vision with public infrastructure support."

Founded in Luxembourg in 2010, OCSiAl has become the world's largest producer of graphene nanotubes, a next-generation material that offers exceptional performance to a multitude of products used in everyday life. OCSiAl's nanotubes, currently produced only in Serbia, where the company is increasing production capacity fourfold, are already used in more than 10% of smartphones sold today and in over one million electric vehicles worldwide.

"*Graphene nanotubes can improve over half of the materials we use every day, from safer batteries to longer-lasting tires and ultralight protective equipment*," said Alain Kinsch, a member of the OCSiAl Board of Directors. "*We thank the Luxembourg Government for enabling this project through the land lease and for fostering an environment where innovation and industrial ambition can thrive*."

"This is a landmark step for OCSiAl and for Differdange," said Norbert Becker, another OCSiAl board member. "*It's a project that combines visionary science, strong local roots, and a long-term investment in jobs and know-how*."

With a planned investment of $300 million and creation of over 300 new jobs, the facility, to be launched in stages from 2028 to 2030, will strengthen Europe's role in the global advanced materials value chain and serve as a development hub for the next generation of engineers and scientists.

Groundbreaking Ceremony of MESNAC Union Technology (Cambodia) Co., Ltd. Held

On the morning of October 30, MESNAC Union Technology (Cambodia) Co., Ltd. held a groundbreaking ceremony in the Qilu (Cambodia) Special Economic Special Zone, Svay Rieng City, Svay Rieng Province, Cambodia. Relevant leaders from the Qilu Special Economic Zone, Guan Bingzheng, Chairman and President of MESNAC Co., Ltd., as well as client representatives from the tire industry, attended the ceremony.

At the groundbreaking ceremony, Zhou Chuanhai, General Manager of MESNAC Union Technology Co., Ltd., delivered a speech. He first expressed his gratitude to clients, Qilu Industrial Park, friends from all sectors, partners, and all colleagues who had made arduous efforts for the project. Zhou Chuanhai stated that the opening of the MESNAC Vietnam factory and the groundbreaking of the Cambodia factory jointly demonstrated the bold and hardworking spirit, and pragmatic executive force of the MESNAC Union Technology team, and further confirmed the company's firm determination to expand overseas and serve global tire enterprises. Located at the core of Southeast Asia, Cambodia enjoys unique geographical advantages and vast market potential. MESNAC Union Technology will continue to uphold its mission of "To advance rubber industry to a higher level," further improve its global production and service network, and provide global tire enterprises with more convenient and efficient integrated solutions.

The launch of the Cambodia project represents another significant overseas expansion for MESNAC following its Vietnam factory, further enhancing its production capacity and market service capabilities in Southeast Asia. In the future, MESNAC will continue to deepen its international market layout, injecting a continuous stream of vitality into the international tire industry and providing global tire clients with more comprehensive and systematic solutions.

Natural Rubber at COP30: A Strategic Material for a Sustainable Future

ANRPC is pleased to announce a COP30 side event titled “Promoting Smallholder Projects for Net-Zero and Beyond,” taking place on 18 November 2025 in the Blue Zone, Belém, Brazil. Hosted by ANRPC with support from IRRDB and co-hosted by the American Forest Foundation, this session will highlight natural rubber as a climate-smart material that sustains 40 million livelihoods—85% of them smallholders—while contributing to decarbonization, biodiversity, and rural resilience. Join us to explore how smallholder-driven natural rubber and agroforestry systems can advance inclusive, nature-positive climate action.

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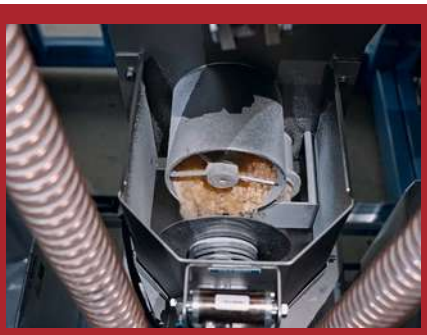

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- Advanced Rubber Solutions for Global Warming Challenges
- Smart, Intelligent and Functional Rubber Materials
- Natural Rubber, Bio-based Rubbers and Rubber Chemicals
- Progress in Rubber Analysis, Testing and Standards
- Safety and Environmental 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

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PROGRAM SCHEDULE

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

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

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Plenary Presentations

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

Keynote Presentations

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

Keynote Presentations

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

Invited Presentations

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

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Invited Presentations

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

Natural Rubber Symposium

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

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

Poster Presentations

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

Poster Presentations

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

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Poster Presentations

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

Poster Presentations

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

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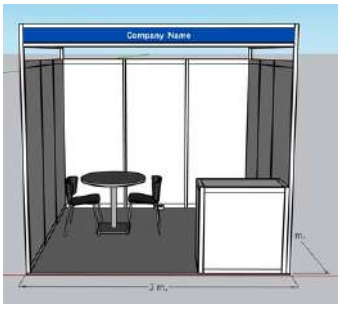

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Exhibitor Profile

Global Manufacturers & Suppliers of

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

Participating Exhibitors

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

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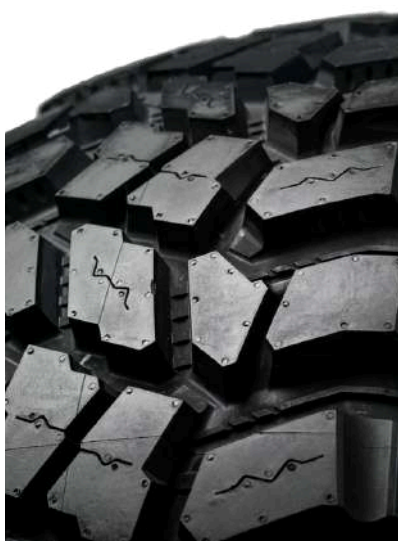

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About the Event

The tyre industry is evolving rapidly with the rise of electric vehicles, increasing sustainability expectations, advanced materials, and digital manufacturing. *Tyre Tech Week 2026* offers a dedicated platform for professionals across the tyre value chain — from materials and design to testing, manufacturing, and recycling — to exchange knowledge and explore new developments. This Executive Forum brings together global experts, technologists, researchers, and business leaders for *technical presentations, leadership talks, and focused training sessions* designed for both technical and non-technical participants. A *Mini-Expo on Tyre Technology* will also be held alongside the forum, showcasing the latest materials, machinery, testing equipment, and services from leading suppliers and solution providers.

Event Focus

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

Call for Speakers / Papers

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

TechnoBiz Tyre Tech WEEK

Edition - 2 | Hybrid Event

10-12 FEB 2026

CHENNAI, INDIA

GREEN PARK HOTEL



CONFIRMED TOPICS

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

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

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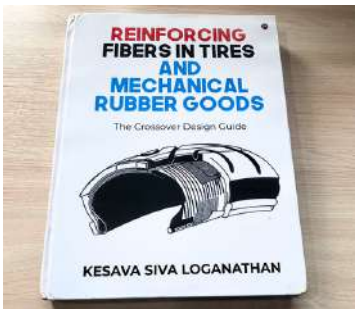
Tyre Research Poster Fair

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

Free Reference Book



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

TechnoBiz Clinic : Tyres Mfg

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

TechnoBiz Knowledge Test

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

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DELEGATE REGISTRATION

Registration Fee / Person

In-Person Participation

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

Online Participation

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

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

Delegate Registration Form

SPONSOR REGISTRATION

Sponsorship Options

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

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- Table-Top Booth in the Conference Area
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PKR Consultants is authorized organization to process fee payments for delegate registrations and sponsorships from organizations based in India
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Contact Person : Peram Prasada Rao, Project Manager
TechnoBiz Latex Week 2025 | 24-26 Sept 2025, Chennai
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ASIA POLYURETHANE & ADHESIVE EXPO

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Putra World Trade Centre

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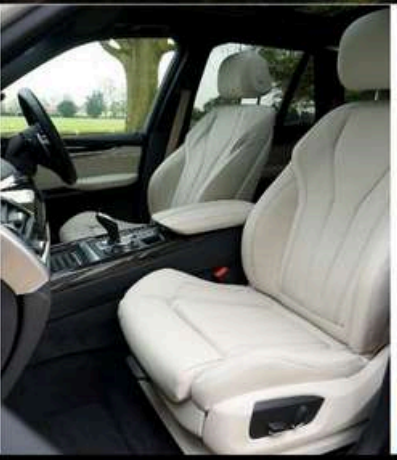

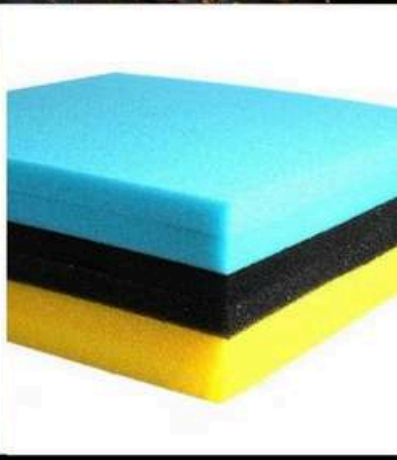

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TechnoBiz

PU WEEK

A TechnoBiz Executive Forum on Polyurethane Technology and Industry

30 Mar-2 Apr 2026
Kuala Lumpur
Malaysia

https://expo.technobiz.org

ASIA POLYURETHANE & ADHESIVE EXPO

30-31 March 2026
Kuala Lumpur
Malaysia

Putra World Trade Centre
10am-6pm

APBA CONFERENCE

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

Sustainable PU Industry FORUM

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

Polyurethane Executive Dinner

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

POLYURETHANE TRAINING

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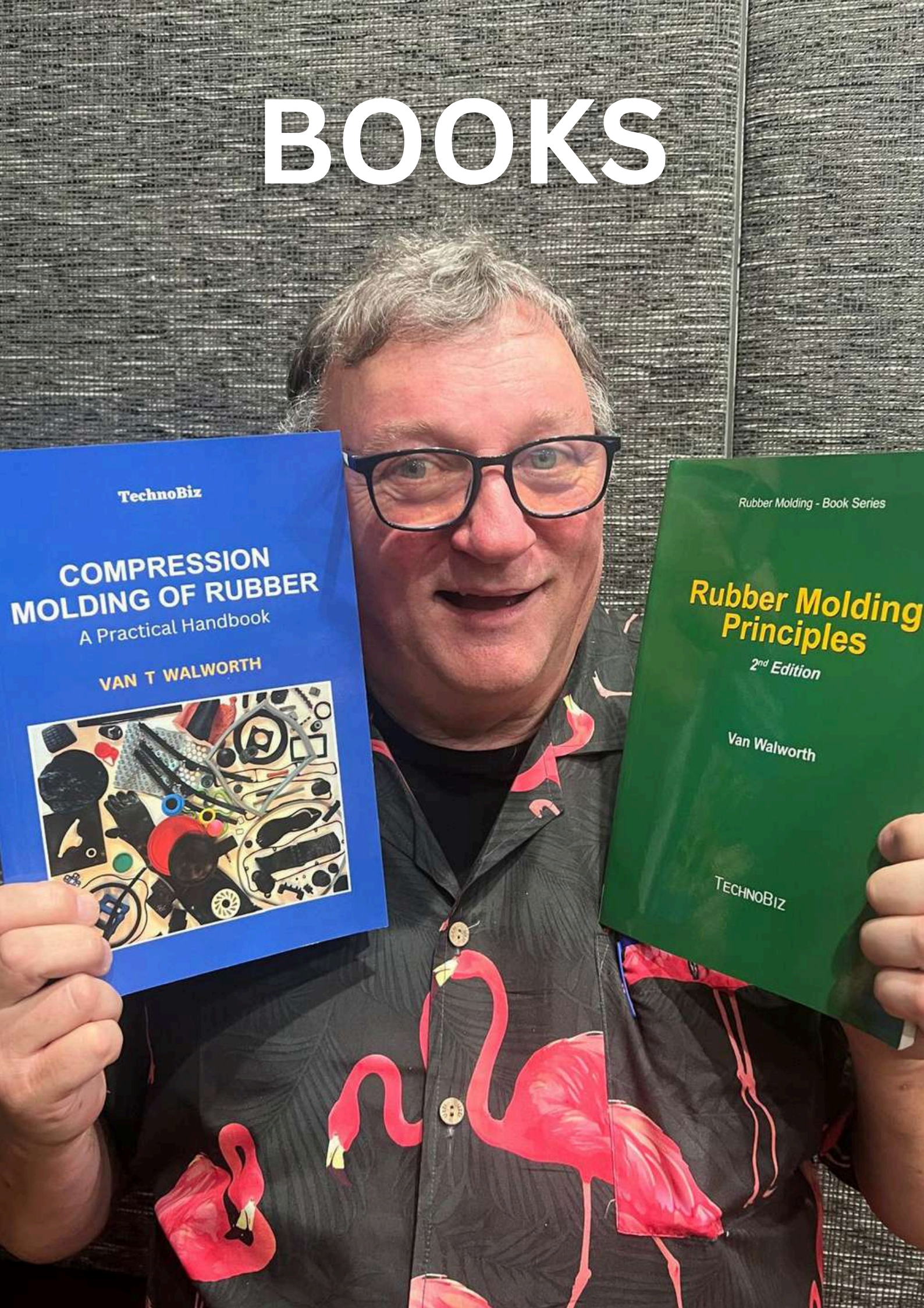
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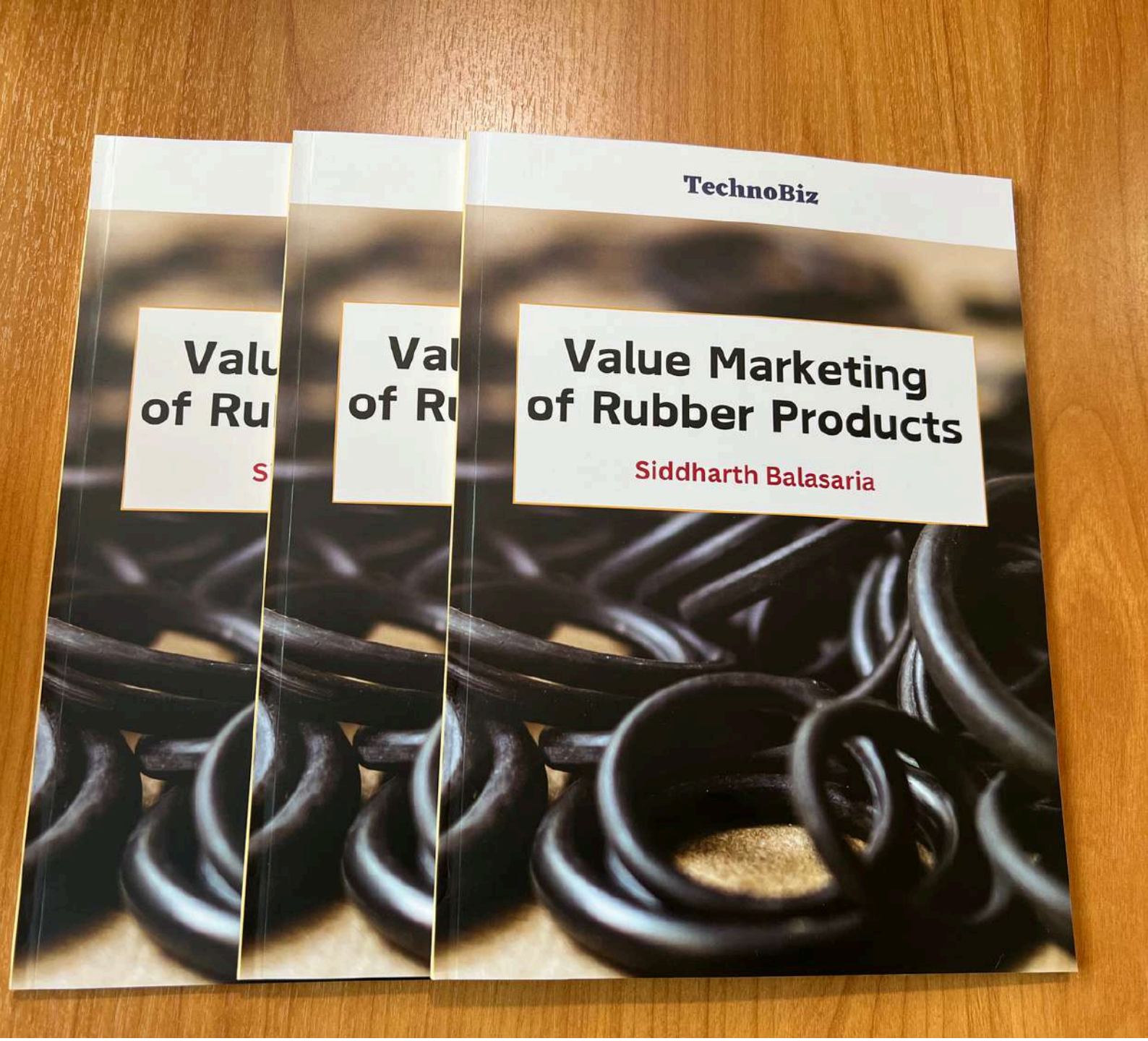

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Compression Molding of Rubber
A Practical Guide

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ISBN : 978-616-92264-44 | **Publisher** : TechnoBiz | Year : 2024
Book Price : 159 US$ + Shipping

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Book Contents

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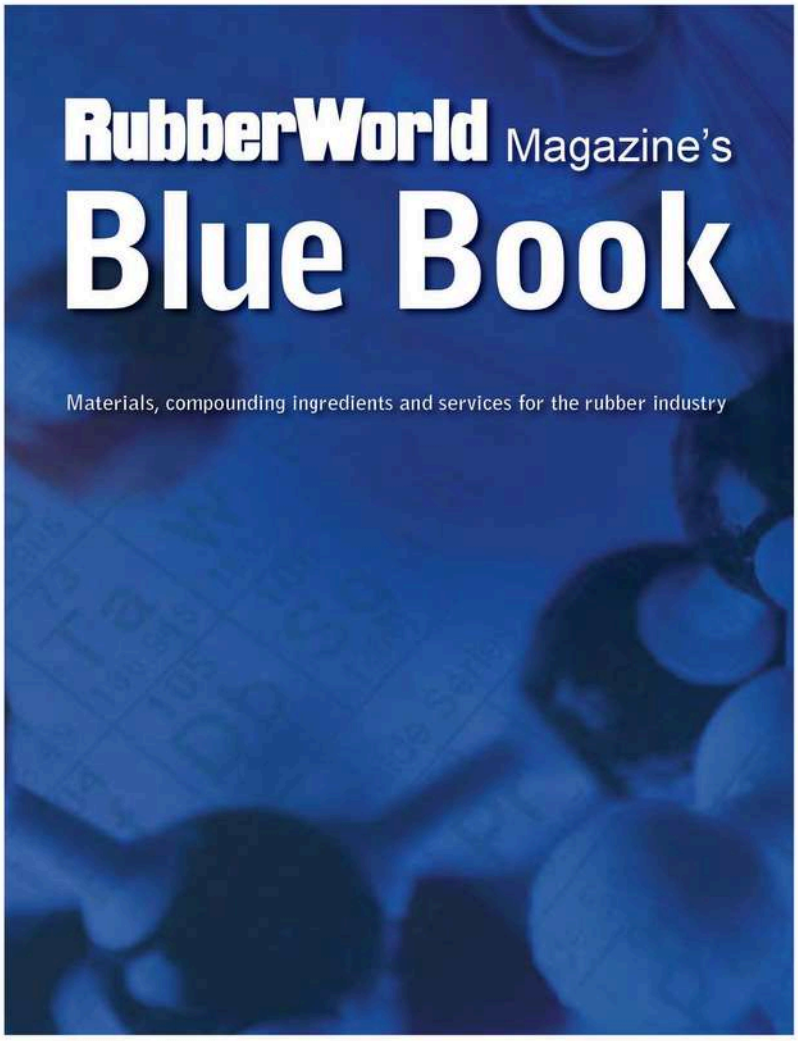
RubberWorld

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



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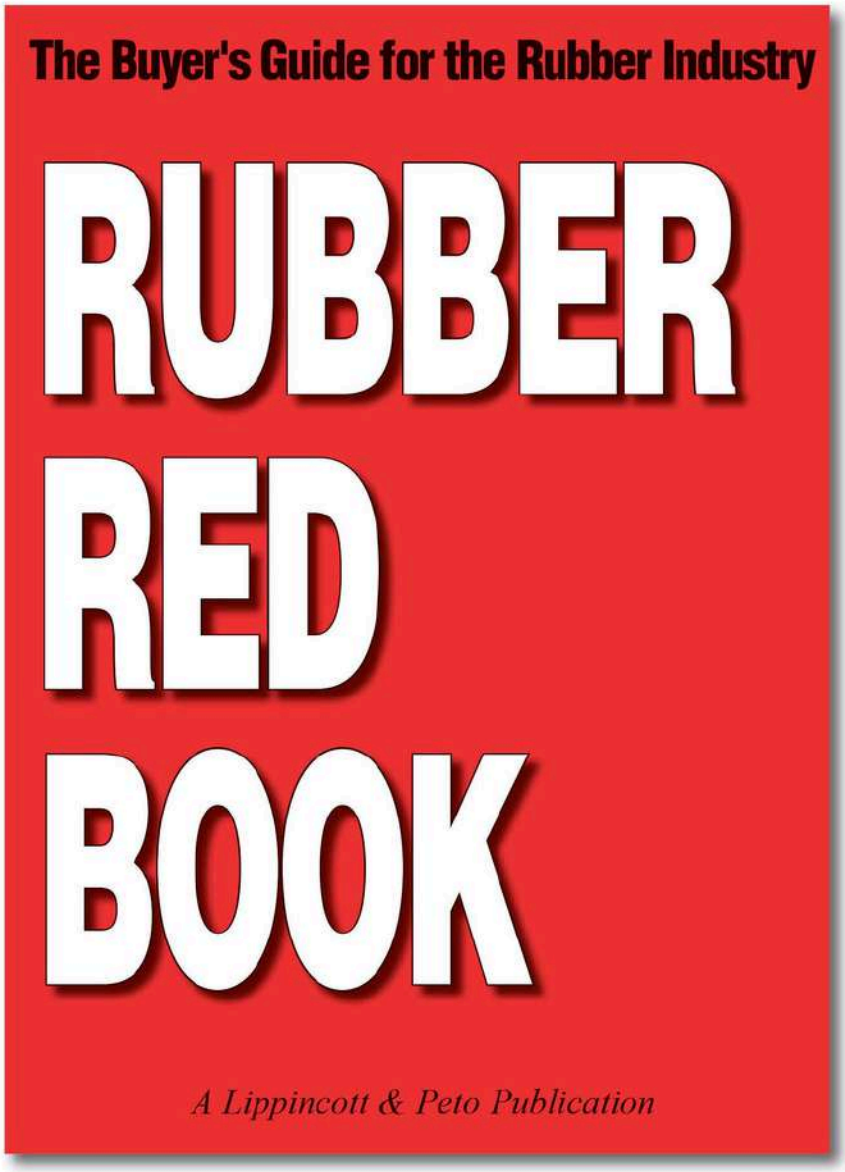
RUBBER RED BOOK listings for more than 1,200 rubber product manufacturers grouped by location and products.



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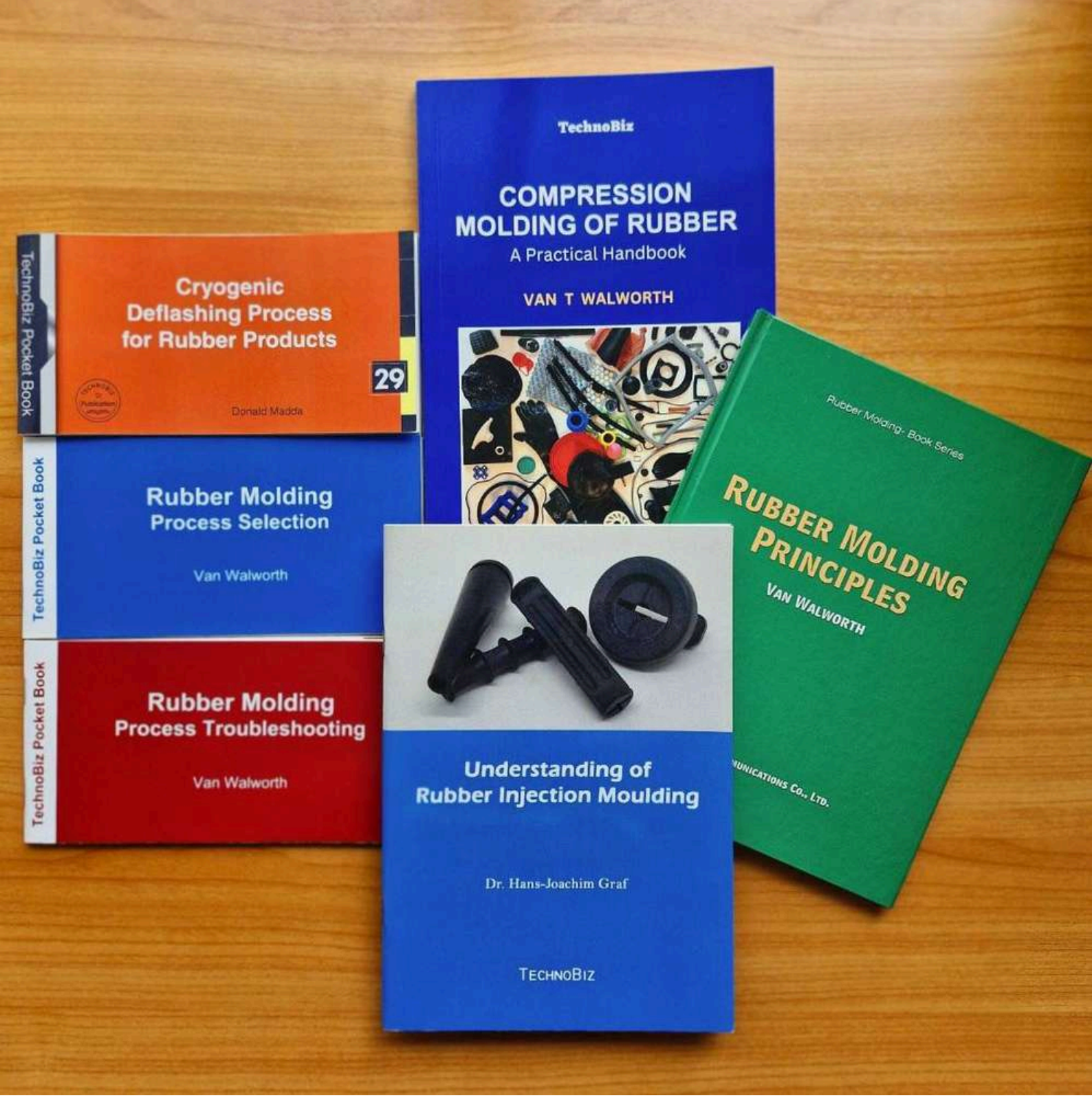

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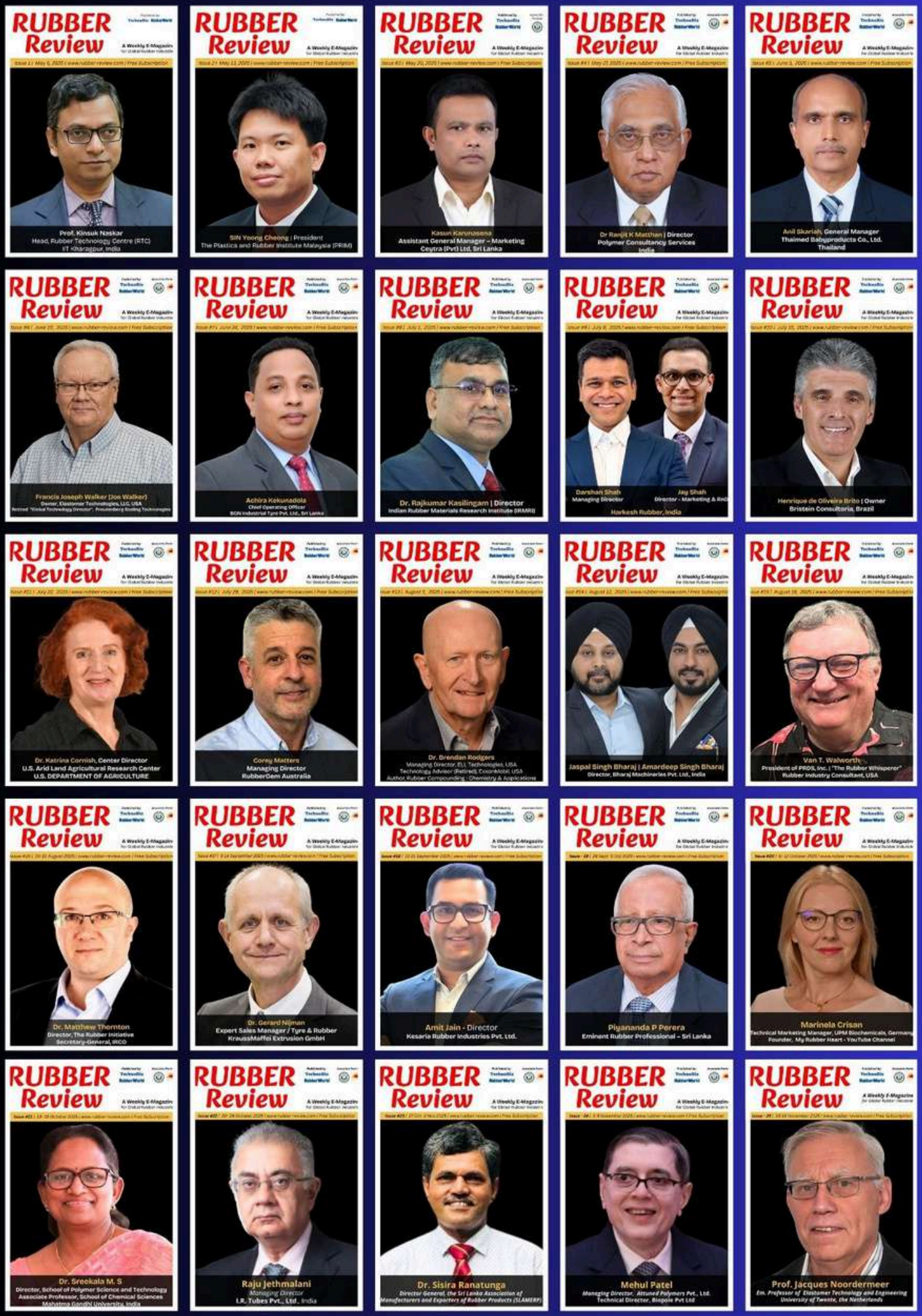

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