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Dr. S. N. Chakravarty
Rubber Industry Consultant
KPS Consultants & Impex Pvt. Ltd

TechnoBiz

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The Society of Rubber Science and Technology, Japan
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Inquiries/Registration

Secretariat of IRC2026 AICHI
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2 Sanbancho, Chiyoda-ku, Tokyo 102-0075, JAPAN

TEL: +81-3-3263-8698 Fax: +81-3-3263-8693 (10:00-17:00 (JST) *Weekdays Only)

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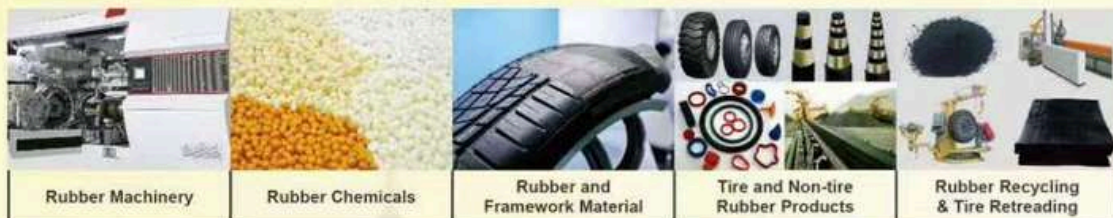


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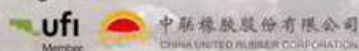
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A TechnoBiz Executive Forum on Rubber Science, Technology & Industry

TechnoBiz is organizing the 5th Edition of Rubber Week 2026 in Vienna, Austria, from 9–12 June 2026 at Flemings Hotel Wien Stadthalle. This event is positioned as an important meeting point for the European rubber industry, addressing the latest developments in applied rubber science, technology, and industry. Designed for industry professionals, decision-makers, and researchers, Rubber Week 2026 will feature specialized conferences and focused training programs, offering practical insights, knowledge exchange, and opportunities for collaboration across the European rubber ecosystem.

EVENT SCHEDULE

9 June 2026 | Tuesday | 2pm–5pm

AI-Enhanced Rubber Compound Formulation Design & Development

TechnoBiz Training Program | Instructor - Dr. Hans-Joachim Graf

10 June 2026 | Wednesday | 9am–5pm

Rubber Recycling & Devulcanization 2026

TechnoBiz Conference on Rubber Recycling & Devulcanization

10 June 2026 | Wednesday | 9am–5pm

The Rubber Initiative® Workshop: Next-Generation Executive Leadership

Instructors : Michael Clayton & Dr. Matthew Thornton



11 June 2026 | Thursday | 9am–5pm

Sustainable Rubber Compounding 2026

TechnoBiz Conference on Sustainable & Bio-Based Materials and Rubber Compounding

11 June 2026 | Thursday | 9am–5pm

Rubber Leadership 2026

TechnoBiz Conference on Rubber Industry Leadership & Management

12 June 2026 | Friday | 9am–5pm

Smart Rubber Factory 2026

TechnoBiz Conference on Rubber Industry Automation. Digitalization & Smart Manufacturing

12 June 2026 | Friday | 9am–5pm

Advanced Rubber Extrusion

TechnoBiz Training Program | Instructor - Dr. Gerard Nijman



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Conversation with **Dr. S. N. Chakravarty** **KPS Consultants & Impex Pvt. Ltd**

*Few names in the Indian and global rubber community command as much respect, admiration, and gratitude as **Dr. Shomnath Chakravarty**. With a professional journey that began in the early 1960s and continues with the same passion even today, Dr. Chakravarty stands as one of the most influential figures in rubber science, tyre technology, and polymer education. His career is a remarkable blend of academic excellence, industrial leadership, pioneering research, international contribution to standardization, and decades of dedicated knowledge-sharing across India and abroad.*

Born in 1940 and academically shaped by the prestigious Banaras Hindu University and Calcutta University, Dr. Chakravarty completed his D.Phil in Rubber Chemistry & Technology in 1965 and expanded his horizons through post-doctoral research in Germany. His subsequent professional journey took him through leading global organizations such as Bayer (India & Germany), Koelnische Gummifaeden Fabrik, and Modi Rubber Ltd. in collaboration with Continental Gummiwerke AG, Germany. Across these roles, he played a central part in product development, R&D, tyre design, quality systems, technical services, and the implementation of large-scale industrial projects—setting standards that influenced Indian tyre and rubber manufacturing for generations.

His contributions go far beyond industry. Dr. Chakravarty has been a mentor, educator, and guide to students and professionals across IITs, NITs, universities, and countless organizations. Through his consultancy firm, KPS Consultants & Impex Pvt. Ltd., he has spent more than three decades conducting specialized training programs across India, Asia, and Europe, shaping the technical knowledge of thousands of engineers, chemists, researchers, and managers.

A prolific author with over 120 scientific publications and several widely referenced books on tyre technology, rubber manufacturing, radial tyre basics, rubber research, and even philosophical works, Dr. Chakravarty represents a rare combination of scientific depth and intellectual curiosity. His leadership roles with BIS, ISO-TC 45, IRCO, IChE, and the Indian Rubber Institute underline his long-standing commitment to improving technical standards and nurturing future generations.

Recipient of prestigious honors—including the Life Time Achievement Awards from IChE and TRiLA, and the ABI Gold Medal for India—Dr. Chakravarty's contributions reflect not only technical mastery but also a lifelong devotion to the progress of the rubber industry.

In this special Cover Story Interview, Rubber Review is privileged to engage with a visionary whose six-decade legacy continues to guide the present and shape the future of rubber technology. His insights, experiences, and reflections are an invaluable source of learning for our global readership.

Early Life & Academic Foundation

Your academic journey from BHU to completing your D.Phil in Rubber Chemistry at Calcutta University built a strong foundation. What inspired you to choose rubber science as your field?

On completion of my Master's degree (M.Sc. in Physical Chemistry) from BHU, I was looking for an opportunity at a leading research institute to carry out work for a Doctorate in Science. My elder brother and a senior from the BHU Chemistry Department were carrying out research activities at a well-known institute in Calcutta, the Indian Association for the Cultivation of Science, which has the legacy of eminent personalities such as Sir C. V. Raman, Dr. M. N. Saha, and S. N. Bose.

After speaking with them, they suggested that I apply for a CSIR scholarship available in the Department of Macromolecules. I applied and was called for an interview. It was then that I came to know about the topic of the scheme: "Mechanism of Vulcanization of Rubber." At that time (1961), no work was being done in India on rubber, and very little had been carried out internationally.

The principal guide of the scheme was Dr. D. Banerjee, who had completed his doctorate on this subject from the University of London in the 1940s. After returning to India, he became the Managing Director of a tyre company, Inchek Tyre, near Calcutta. The offer came with a CSIR fellowship of ₹250 per month. That is how I entered the rubber field in the early 1960s, and I have continued my activities in this field until today.



BHU (Banaras Hindu University)



Indian Association for the Cultivation of Science

What motivated you to pursue post-doctoral research in Germany, and how did that international exposure shape your scientific direction?

With the progress of my research activities for the D.Phil. degree, I published the results and findings from time to time in reputed journals in the US and UK. In those days (1960s), there were very few and limited opportunities for gainful employment in India. It was common practice for successful students to write to established scientists in the US and Europe for postdoctoral fellowships or placements at prominent institutes. I also started doing the same.

One must remember the days without computers, internet, email, mobile phones, or electronic calculators. We had to prepare letters using a manual typewriter and send them by airmail to foreign countries, which was costly for a student living on a scholarship, and then wait for a reply. Even if the reply was prompt, it took at least 15 days. After completing my doctorate, like many others, I started writing letters to professors and institutes in different countries for postdoctoral research fellowships. After some time, I received a reply from one of the well-known rubber scientists, Dr. Otto Lorenz, who was working with Goodyear in the USA. He was a German and had returned to Germany as the Director of a rubber industry, Koelnische Gummi-Faeden Fabrik GmbH in Cologne, and offered me a job in the Industry Research Laboratory. The offer was accompanied by a one-way air ticket to Germany and a letter stating that if I had the courage to take the challenge, I should prove my capability within a one-year time limit.

Thus began the long journey through rubber science, technology, and industry, which continued for more than five decades in different industries and countries spanning over half of the world. Looking back at the achievements and results, I am sure that I proved myself capable, as I continued for many years with the German company in Cologne, eventually becoming the Development In-Charge of the company.

Moving to Germany in the early 1960s was like a “future shock.” Communication, transportation, trams, buses, punctual services, travel comfort, food availability at reasonable prices, accommodation with all basic amenities, laboratory equipment, and facilities — one needed to adjust to the system.

After the Second World War, Germany was recovering and needed qualified personnel. Other European countries, though they were winners, were struggling to bring everything back together. Germany received significant support from the USA under the “Marshall Plan,” which helped it develop faster. Additionally, Germany had a strong scientific and technological background.

Dr. Lorenz was a renowned name in the rubber field, and his invitation motivated me to pursue research in Germany. Interaction with other European countries such as the UK, France, and Holland on a regular basis helped to orient my scientific work. Participation in international and German conferences (DKG) and learning other languages further widened my activities.

Subsequently, I moved to Bayer AG in Leverkusen, about 25 kilometres from Cologne.

Who were the key mentors or scientific influences during your early years?

Initially, *Dr. Otto Lorenz*, who helped me move to Germany, was my mentor. That is how I started my research and industrial career in Germany. For my regular activities in the company and the technical department, my direct boss was *Dr. von Bornhaupt*, who was very helpful during my initial years. For example, in my first research publication in the German journal *Kautschuk und Gummi*, written in the German language, I had included his name as a co-author. However, he declined, saying that he had not done any active work towards the publication except correcting the German language, and therefore his name should not be included in the paper. This was drastically different from the situation in Indian laboratories, where bosses would invariably insist on putting their names on any publication.

Exposure to many aspects of working and living in Germany had a great influence and left a strong impression on me, which helped shape my subsequent life. The work culture and punctuality, as well as the functioning of government and other offices when approached with a problem, were remarkable. My first experience with the income tax office was so impressive that I still remember it to this day. The emphasis on quality in all areas, especially food, the banking system, and social insurance, made life much easier and increased both the efficiency of work and productivity. Even today, I feel that many of these systems still need to be implemented effectively in India.

Global Industrial Journey - Germany to India

Your early work in Germany with Koelnische Gummifaeden Fabrik and Bayer AG exposed you to advanced rubber technologies. What were your most important learnings from this period?

After some years, I moved from KGF, a smaller unit, to the giant Bayer AG. As a member of DKG, I used to attend seminars and conferences all over Europe. At one such seminar, during the tea break, I was actively debating different aspects of rubber technology and the instruments used to measure these characteristics. An elderly gentleman with a dignified presence came over to me, started a conversation, and asked me to join him. He was the Director of KA-AT (Technology Application Department) of Bayer AG.

The Bayer AG KA-AT department had pilot-plant-scale rubber processing and product manufacturing facilities, HF curing, LCV continuous processing, the basics of tyre technology and tyre manufacturing facilities, analysis of rubber, chemicals, and products, vulcametry, semi-automatic physical testing, heat development under dynamic application, and many other advanced capabilities. These facilities helped me learn the latest technologies existing in the 1960s and were obviously very useful later when I returned to India.



Colleagues of Lab at Koelnische Gummifaeden Fabrik at Cologne (1966)



Famous Cologne Cathedral



Rhine River Bank (1966)

How did your German experience deepen your understanding of latex technologies, reinforcement systems, and rubber chemicals?

KGF was the second largest latex processing unit in the world (consuming about 5 tons of latex per day), after Globe Rubber, USA. It produced elastic thread, gloves, swimming caps, condoms, etc., using extrusion and dipping processes. The continuous and semi-automatic process plant operated 24 hours a day for six days a week. A major factor in production was stabilizing latex and its compounds to maintain viscosity, in order to avoid dimensional and thickness variations in the products, followed by QC checks. Identification of products received from customers under complaint was a major problem, which led me to establish the TLC process—an easy, quick, and cost-effective method.

This was a very productive period, as I learned the language, the technology, and industrial production techniques during my stay with the company in Germany. Besides latex thread, the company also produced solid rubber thread, polyurethane thread, household and surgical gloves, swim caps, and condoms. By German standards, it was a medium-sized company with about 1,200 employees. During this period, we developed several new products, such as food-quality rubber threads, and processes and methods for identifying different chemicals, polyurethane polymers, and threads produced by the extrusion process, as well as special swim caps. This work led to research publications in German journals, which were well recognized.

During your Bayer (India) years, you worked closely with customers across Asia. What major technology gaps or challenges did you observe in the region at that time?

By then, Bayer India had started production and marketing of rubber ingredients along with other chemicals—pesticides and pharmaceuticals—at Thane, near Bombay, and was looking for an expert Technical Manager for the Rubber Division. My boss, *Dr. Rosenthal*, Director of KA-AT, asked me to take over this responsibility, which would provide an entry into the Indian scenario at a senior level.

Eventually, I took over as Technical Manager of Bayer India Ltd. in Bombay. During this period, I came into contact with prominent technical personalities from both the tyre and non-tyre industries. At that time, there were a limited number of tyre companies: Dunlop and Inchek Tyres near Calcutta, Firestone and CEAT Tyres in Bombay, MRF in Madras and nearby places, Premier Tyres in Cochin, and Goodyear near Delhi. Other tyre companies such as Modi Rubber, Apollo Tyres, JK Tyre, and Vikrant Tyre emerged during that decade.

In the non-tyre field, there were several major players. In the shoe industry there were Bata, Carona Sahu, etc. In belting there were Dunlop, Nirlon, Andrew Yule, Hilton, etc. In hoses there were Dunlop, Cosmos, etc., and in cycle tyres there were NRM, Dunlop, East India, Oriental Rubber, Cosmos, etc.

Bayer India's Technical Service Laboratory (TSL) made a name for itself through its technical service throughout the country, which helped us expand our chemical business. Our training courses for customers also became very popular and effective, so much so that we had to conduct them twice a year to meet customer demand.

Bayer AG later asked us to take up the responsibility for technical service in Asian countries in order to reduce the workload on KA-AT. Thus, we extended our services to several Asian countries such as Sri Lanka, Pakistan, Thailand, Malaysia, Bangladesh, etc. Our training courses became so popular that we started a separate training program for Asian countries, in which even our representatives from Japan participated.

Rubber chemistry and technology activities started in certain centres such as IIT Kharagpur, the Indian Association for the Cultivation of Science (IACS), RRII of the Rubber Board (primarily working on natural rubber), IRMRA Bombay, ICI Calcutta, and the Bayer India Laboratory. Countries like Sri Lanka, Nepal, and Bangladesh were yet to develop such activities, whereas Thailand and Malaysia were active in natural rubber production improvement but not much in application technology. Japan and Korea were far ahead of other Asian countries. China had started developing rubber product manufacturing along with technology development, but it was still far behind the Western countries.

It was highly interesting during the 1970s and 1980s to travel, interact with different stakeholders, and provide the services required by them.



Bayer India Rubber Division Team 1974

At Modi Rubber Ltd., you played a key role in tyre design, quality systems, and collaboration with Continental Germany. Which achievements from this period stand out for you? What challenges did you face in technology transfer and adapting global tyre technology to Indian manufacturing?

After about a decade with Bayer India, a major difference in principles of business ethics arose with the management, and I left the organization. Immediately after my departure from Bayer India, Modi Rubber Ltd. approached me, and I joined them first as a Technical Consultant and later as Technical Manager of what was then one of the leading tyre companies.

Modi Rubber had a modern plant with a technology collaboration with Continental AG, Germany. The tyres, mainly truck tyres, of Modi Rubber were well established and accepted in the market, especially for heavy-loading operations in the northern region. At MRL there was freedom to work as long as production volume and quality were not affected. There was no daily interference, nor much interest shown by the management in special work and research activities. As a result, our own interest and extra effort led to several R&D achievements.

Modi Rubber had a well-equipped laboratory and qualified staff. It was the first tyre company to introduce the compound release system through rheometry in the early 1980s, which was adopted by other tyre companies much later. This enabled us to release compounds much faster compared to the conventional system of curing the slab followed by testing certain physical properties before releasing the compound for production.

In 1980, I spent a long period at Continental AG in Germany to learn and understand Continental's technology, systems, and the people involved in different aspects of tyre technology and manufacturing. With my German background and earlier experience in Germany, I was able to develop good contacts and friendships with many people at Continental, which proved helpful in later years while working at Modi Rubber.

The Technical Department of Modi Rubber was much broader and larger compared to those of other tyre companies. It covered the technical aspects of the plant, all laboratories (chemical, physical, instrumental, and textile), R&D, field service, tyre indoor and outdoor testing, quality control, and training sections. It was a large department and contributed very effectively towards the development of tyres and improvement of their quality for more than a decade.

The 1980s and early 1990s were highly successful and productive years for Modi Rubber. High-quality tyres with strong market acceptance and high-volume production—primarily truck tyres—enabled Modi Rubber to capture a major share of the tyre market, especially in northern India.

To achieve results in a short time for exporting tyres to the USA, we needed tyre moulds with US market tread patterns. Manufacturing these moulds would have taken considerable time. After searching extensively, we found many such moulds in a machinery graveyard in Akron. I spent several days examining these moulds, selected about two dozen of them, purchased them at a throwaway price, and shipped them to India.

The greatest innovation of that decade in the Indian tyre industry was the development and introduction of the "Platinum" tyre. For the first time in the Indian tyre industry, a high-performance truck tyre was developed using a silica and silane coupling agent system, which proved to be a great success. At that time, the concept of using silane coupling agents for heat-resistant compounds was being developed and tried in some passenger tyres in Europe, primarily by Degussa AG, Germany. I had a long friendship with Mr. Siegfried Wolff of Degussa and discussed the matter with him, as Degussa was the pioneer in silane coupling agents (Si 69) in the market. Joint development work was carried out with Degussa AG, Germany, which was the sole manufacturer of silane coupling agents in those years.

R&D activity at Modi Rubber reached its peak during this decade, resulting in the development of new products, the use of new materials, process development, and publications in international and national rubber journals. In fact, the publication of research work and presentations at conferences were carried out for the first time in Modi Rubber's history under my leadership.



With Mr. Bachmann and Dr.Rother of Continental Tyre at Modi Rubber



With Mr. Bachmann and Mr. Lange of Continental Tyre at Modi Rubber

How did your involvement in project planning, diversification, and new technology introduction strengthen the company?

After organizing different matters (export of tyres to the USA, standardizing QC and training for the Platinum tyre, etc.), I shifted to the headquarters in Delhi to diversify into other areas, explore new technologies in the international field, and undertake project planning. A major activity was planning for a synthetic rubber unit (initially Butyl Rubber) at a suitable location. My main job was to diversify into major projects other than tyres. The most important of these was the Butyl Rubber Project, which was in the range of ₹300 crore in those days. The major hurdle for the project was the technology provider, as only two companies—Exxon in the USA and Polysar in Canada—had the technology and refused to collaborate for the manufacture of Butyl Rubber in India. They already had sufficient capacity in different plants and were interested in selling the rubber in India rather than transferring the technology.

Eventually, we were able to establish a technology source with another manufacturer of butyl rubber and entered into an agreement with the Russian manufacturer Nizhnekamsk Neftekhim in the Tatar Republic. We also reached an agreement with the Russian synthetic rubber manufacturing plant design institute, Gipro Kautshuk, Moscow, for plant and equipment and project design, including all specifications and suppliers of machinery. In addition, we tied up with PICUP, Lucknow, and the Indian Oil Refinery at Mathura for feedstock supply, and finalized land at Kosi near Mathura for the project. The project activities during those years required me to visit different parts of Russia (which was still the USSR at that time) many times. We also received clearance from DGTD and the Ministry of Petrochemicals for the project. With all these developments, we were on the verge of implementing the project. However, all these efforts over several years came to nothing due to the problems faced by Modi Rubber in the early 1990s, which is now well-known history. Under this depressed scenario, I decided to leave the organization, resigned, and left Modi Rubber Ltd. by mid-1993.



Building Knowledge & Capacity – KPS Consultants

After a long industrial career, what inspired you to establish KPS Consultants?

As explained earlier, I decided not to take another job after leaving Modi Rubber. Immediately after leaving Modi Rubber Ltd. in 1993, I started my own consultancy organization in the rubber field under the name “Polym Consultants,” followed by “KPS Consultants & Impex Pvt. Ltd.” I established my office at Devika Tower, Nehru Place, New Delhi.

Soon, I realized that there was a big gap in technical knowledge in the rubber industry, especially among medium- and small-scale industries, with respect to the proper use of materials and processing to manufacture quality rubber products. Most of these industries had no quality control system or testing laboratory.

Therefore, when I approached different units all over the country, the response was highly encouraging. With more than two decades of activity across the country at that time, and also through IRI educational activities and conferences, I was already a well-known figure in the industry. Once it became known that I was working independently, I started receiving calls from all over the industry.

Often, the scope of work extended beyond the area of rubber technology into other fields such as market studies, ISO certification, management systems, training, educational courses, sports goods, etc. Our work activities spread across the country and also to many countries outside India.

Could you share examples of consultancy assignments where your interventions significantly improved product performance or manufacturing practices?

My first client was Ralson India Ltd., Ludhiana, with whom I have been associated until today. I started working with Ralson India Ltd. when it was a small unit and witnessed its major expansion, development, modernization, and the establishment of QC and R&D laboratories. Today, Ralson India Ltd. is the largest producer of cycle and rickshaw tyres and tubes in the country. Later, Ralson India expanded into the manufacture of auto tyres in a separate modern unit at Doraha, near Ludhiana, which was designed and established by me. Eventually, the company expanded to a third unit.

We also undertook a major project at Agartala, Tripura, for the Tripura Forest Development & Plantation Corporation Ltd., as well as with IL&FS Cluster Development for the Tripura Rubber Park near Agartala. Several rubber units were established there.



apollo

A major activity in the auto tyre field outside India was establishing a greenfield tyre manufacturing facility in Bangladesh. This was, in fact, the first auto tyre unit in the country, established more than 25 years ago, with which we were associated for a long period. It was a great achievement to bring tyre technology to this backward area, which lacked everything—machinery, raw materials, suitable skilled manpower, and above all technical know-how. The personnel also had to be trained in field performance analysis and in interacting with fleet owners and customers. In 2016, I attended and addressed the 20-year celebration of the company, which was a gala function, and I was felicitated on the occasion.

We were also engaged by the only automotive tyre manufacturing unit in Nepal, near Gorkha, for upgrading technology and product quality. We worked there for about two years and introduced several measures to improve both the process and the product.

In Indonesia, work was carried out with a large tyre retreading company that manufactured its own retreading compounds and carried out tyre retreading. The units were located near Bogor and another in Medan. Our task was to modernize and upgrade the compounding and mixing procedures as well as the tyre retreading system.

We were also approached by a private European company in Russia for both R&D activities and marketing of a new product, a mineral carbon filler called Shungit, for partial replacement of carbon black in different compounds, both tyre and non-tyre. Under this project, we carried out extensive R&D work on the application of this new filler in various rubber compounds and presented the findings at conferences in India, China, Korea, Japan, Malaysia, etc. We also published several papers based on these findings in journals in India, the USA (Rubber World), China, and Korea.

This work took us repeatedly to these countries as well as to Russia to meet different rubber industry stakeholders, including leading tyre companies in China and Korea (Kumho and Nexen Tire) and in Japan (Yokohama and Bridgestone), to hold detailed technical discussions and present the product to these companies.

You have mentored many postgraduate and doctoral scholars. How do you evaluate today's industry-academia collaboration in India?

I continued my research activity in rubber and related fields after returning from Germany while working at Bayer India Ltd., both at our laboratory and in collaboration with other institutes. Initially, the work with an outside institute began with one researcher at IRMRA under the joint guidance of Professor Biswas of the Department of Chemistry, IIT Bombay, and myself. For this work, he was awarded a PhD degree by Bombay University.



In the meantime, *Dr. S. K. De*, my junior co-researcher from the Indian Association for the Cultivation of Science, Calcutta, had taken up the responsibility of the Rubber Technology Centre at the Indian Institute of Technology, Kharagpur. He sent his first student, Mr. Robin Mukhopadhyay, to me in Bombay (Bayer India Laboratory) to start research work on rubber chemistry and technology under our joint guidance.

I had regular and frequent interaction with leading institutes in the country working in the field of rubber chemistry and technology. In the mid-1970s, IIT Kharagpur had a new RTC head who was known to me from our research days. He approached me for joint work for his first doctoral student (who is now the Director of a leading research institute in the country). The student came to our laboratory at Bayer in Bombay and worked under my guidance for some time. Subsequently, he returned to IIT and completed his PhD. Later, many students from IITs were brought to the industry to complete their M.Tech degrees.

Since rubber is primarily an industrial material, close interaction and collaboration between industry and academia are essential. Although this has been happening to some extent, I feel that much more should be done.

National & International Leadership Roles

You have held leading roles in the Indian Rubber Institute, BIS, ISO-TC 45, IRCO, and ITTAC. What guiding principles shaped your leadership in these bodies?

After some years, I participated in the International Organization for Standardization (ISO) activities of TC 45 (Rubber Committee), representing the country for over a decade. I was the Convener and later the Chairman of SC-2 / TC-45, the Methods of Testing Committee. This period (the 1980s and early 1990s) was the golden era of standardization activities of BIS and India at the international level in the rubber field, holding the Secretariat and contributing effectively.

While working with Modi Rubber Ltd., I participated in International Organization for Standardization (ISO) / TC-45 activities along with the Indian Standards Institution (ISI), and later the Bureau of Indian Standards (BIS). I became the Convener and later the Chairman of TC-45 / SC-2, the Testing Sub-Committee, and took part in ISO TC-45 meetings in different countries around the world for about a decade.

ISO / TC-45 activities on behalf of the country involved extensive studies and laboratory experimental work using sophisticated instruments, as well as secretarial work for sending comments and preparing draft specifications. Every year, one member country hosted the meeting, which usually lasted for 7 to 10 days.

On behalf of the Indian Rubber Institute, I approached the International Rubber Conference Organization (IRCO), UK, for full membership with the support of AIRIA and academic institutes such as IIT Kharagpur. For the first time, we participated in the IRCO Committee meeting at Harrogate, UK, in 1987 and presented the case for our membership with strong backing from different countries such as Germany, France, Yugoslavia, and Russia, whose representatives were personally known to me. India (IRI) was accepted as a member of IRCO at this meeting. I represented the country and IRI in IRCO meetings held in different countries for over a decade, the last being in 2003 at Nuremberg, Germany.

As Convenor of India's first IRCO Conference in 1993, what challenges and outcomes defined that landmark event?

Our active participation in IRCO conferences and meetings over the years was highly appreciated. In the process, we obtained approval to hold the first-ever IRCO-recognized international Rubber Conference, RubberCon 93, in India, which was held in Delhi in February 1993. It was a great success and opened avenues for fundraising to support IRI activities and to purchase its own offices across the country.

The funds raised from the 1993 IRCO Conference were utilized to purchase the IRI Delhi branch office, the first such office in IRI's history. Subsequent conferences generated enough funds to establish the Council Office in Kolkata after more than five decades of IRI's existence in the country. Similarly, the Bombay branch also raised sufficient funds from its conference to purchase the IRI Bombay branch office. This brought an end to the nomadic phase of IRI operating from different companies' offices and gave the organization its own identity. This was a great achievement.

I was also instrumental in securing the booking for the 2010 IRC Conference in India (as recorded in the minutes of the IRCO meeting during my participation). IRI successfully organized this conference in Mumbai in 2010.

How have BIS and ISO standardization activities influenced quality, testing, and technology maturity in the Indian rubber sector?

BIS and ISO activities during the three decades from the 1970s to 2000 brought many young professionals from the industry into this field who took a strong interest in standardization. This contributed significantly to quality improvement in the industry and encouraged the establishment of laboratories for testing and quality control. Many manufacturers of testing equipment emerged during this period to meet the growing demand, which earlier had been met through imports at much higher cost. Even specialized equipment such as rheometers, ozone testing equipment, dynamic flexing machines, etc., were developed and marketed within the country over the years, and these were further refined to a much higher level over time.



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Research, Technical Innovation & Special Contributions

Your research includes work on sulfenamide accelerators, antidegradants, silane coupling, vulcanizate structure, adhesion, and characterization techniques. Which contribution do you consider most significant?

Research activity during my Bayer India days was highly productive. The work was primarily on applied science and application technology of different chemicals in rubber compounds and rubber product manufacturing. These studies included the vulcanization characteristics of sulfenamide accelerators, the protection mechanisms of antioxidants and antiozonants against ageing, peptization and the use of peptizers in the mastication of rubber, etc. During this period, a series of papers were presented at different conferences across the country, and the research work led to the publication of many papers in national and international journals, including Bayer AG literature.

The most notable technical achievement was the introduction of a cheaper general heat-resistant antioxidant (TDQ), namely Antioxidant HSL (a liquid product, followed later by HS, the solid version), which became a huge success for Bayer India in later years, both technically and commercially. Bayer did not have any general-purpose, economical heat-resistant antioxidant at that time (unlike ICI, which had a complete range of such antioxidants, e.g., Nonox B / BL / BLN / HFN, etc., that were popular with the rubber industry and widely used by all, including tyre companies) and therefore could not participate in a substantial part of the market. I still feel that the work on the silane coupling agent system and the development of the Platinum tyre was the most challenging and satisfying work of my life. This marked a major leap forward in the future of tyre technology in India.

What scientific challenges did you encounter while improving accelerator systems, antidegradant protection, and silica-silane interactions?

Surprisingly, the challenge came from internal sources, and there was criticism from different angles regarding the improvement and introduction of Antioxidant HS and Accelerator DZ, a new sulfenamide accelerator. These products were not even available with Bayer AG and were to be introduced directly by Bayer India. Earlier, I had already mentioned the story of HS development. The silica-silane work was technically challenging, as it was a new concept in the Indian scenario. It involved painstaking and continuous work in the laboratory as well as in the field with tyres. This led to the creation of a new generation tyre for the first time in the Indian market, which became highly successful.

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How did your chromatographic and structural studies on insoluble sulfur influence compounding and quality control practices?

Chromatographic (TLC) studies combined with amperometric analysis (remember, 65 years ago sophisticated analytical tools were not easily available or affordable) were very effective for structural characterization studies of rubber vulcanizates. In the case of insoluble sulphur, surface morphology studies of the samples were carried out using electron microscopy (SEM and TEM). These studies revealed the sulphur particle shape and size (particles having polyhedral and circular shapes were observed), which are important factors in tyre performance. The shape and size of sulphur play an important role in steel-belted radial tyres, which was pointed out by Hancock Tire during a meeting in Seoul, South Korea.

Among emerging scientific areas—nano-carbon, graphene, sustainable materials—which do you find most promising for future research?

Work on nano-carbon and graphene has shown promise and is progressing well with continuing research activity. Presently, sustainable materials are receiving the most attention, as waste tyres and recycling are posing different problems all over the world. Biodegradability is also gaining strong preference. Many countries, especially in the EU, have introduced or are introducing regulations on sustainability and the use of recycled materials, such as polyester tyre cord and steel cord recovered from waste tyres for use in new products. These developments are attracting researchers from all over the world and show significant promise.

Publications, Books & Thought Leadership**You have authored over 120 papers and several important textbooks. What motivated you to become such a prolific author?**

Throughout my career, I have been working in technical departments, which included laboratories and R&D, besides other sections. Initially, the work focused on the application of the chemicals and ingredients we manufactured so that we could command a better market share. This led to further development of new products and collaborative work with well-known institutes in the country such as IITs, NITs, and universities. Of course, my personal interest in research, as well as participation in conferences—both national and international—and involvement in IRCO and ISO activities gave me exposure to international developments and further motivated me toward new research and new applications. Since I started in the field of rubber six decades ago, very little work had been done in India at that time. This necessitated carrying out basic research initially, followed later by work on new products and new material development.

Which of your books has made the greatest impact on students and professionals, in your opinion?

Early this century, I noticed that there were no proper books on Rubber Chemistry and Technology for students. Teachers at IITs and other institutes were conducting their education programmes using European and American books, which even we had studied earlier. This motivated me to start writing basic books on Rubber Chemistry and Technology, and by now I have published five books that are widely used in both the industry and colleges in India. I feel that my first book, *"Rubber Technology and Manufacture of Rubber Products,"* is the most satisfying and the most widely used. It gives me great satisfaction.

Your writing extends beyond rubber into philosophy, science, and civilization. How do these broader interests enrich your scientific outlook?

During my long stay abroad and regular interaction with people there, I noticed that they had very little knowledge about India's past civilization and philosophy, as well as the great contributions to science and medicine. Our renowned scholars such as Brahmagupta, Sushruta, Bhaskaracharya, etc., motivated me to take up this subject in a simple manner. My first attempt was the book *"Hindu Philosophy and Modern Science,"* which was very well received. Subsequently, I wrote a book on *"Archaeology,"* based on my personal experiences of visiting many famous sites in Pakistan, India, and other Asian countries. Another book I would like to mention is *"Arthashastra,"* the foundation of *"Nation Management and Economy,"* written by the great Chanakya.

Are there any new books or updates that you are planning to publish?

Book writing involves a lot of reading and collecting background papers and information, which I now find strenuous at my advanced age—remember, I am 85 plus. Therefore, I prefer to concentrate on writing articles on different subjects in different media.

Global Exposure & Evolving Industry Trends**Having travelled extensively across Europe, Russia, China, Japan, Korea, the USA, and Asia, which global practices or technologies do you believe India should adopt?**

Through repeated travel to many countries, I had the opportunity to study their technological development over the years. My preference would be for two contrasting countries, namely the USA and China, as examples for adopting technology. The USA has a strong R&D base and, over the decades, has made significant progress in manufacturing industries, while China achieved rapid development under pressure and strong government direction in a short period to compete globally. India needs forceful implementation of policies to become a key player in the global scenario.

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How has global tyre design, compounding, and manufacturing evolved over the last five decades, and what lessons are most relevant for India today?

Switching over from Cross Ply to Radial construction of tyres was major development in tyre technology field. Tubeless tyre, broader tyre, aramid / polyester cord along with the development of adhesive system—mostly followed and established in India.

Research Needs & Future Directions for Rubber Science**What are the most urgent research needs in rubber science and tyre technology for the next decade?**

Sustainability, reduction in pollution, improvement in abrasion resistance (reduction of particles in atmosphere), energy conservation could be urgent need along with the introduction of TPE / TPU / TPV (Thermoplastic elastomer for easy processing & energy saving). Graphene (work has been initiated with graphene masterbatches which could replace 6ppd since this antioxidant is under severe watch and restrictions) and nanotechnology for rubber compounds.

Which areas—compounding, reinforcement, vulcanization chemistry, material characterization—require deeper scientific exploration?

Focus on sustainability in all our future actions is essential. It is suggested to move from carbon black towards inorganic reinforcing fillers, possibly with a silane coupling agent system. It is also important to consider conducting vulcanization at lower temperatures to reduce energy requirements, which could be explored further.

How critical are advanced characterization techniques (DMA, rheology, microscopy, spectroscopy, thermal analysis) for future innovation?

With the development of analytical tools, especially Electron Microscopy (SEM/TEM) and the combination of EM with other analytical techniques, as well as Spectroscopy (IR/Mass) and other advanced methods, much deeper and more detailed information can now be obtained for the analysis of compounds and products.

How should India strengthen research on sustainability, recycling, devulcanization, and the circular economy?

About 50% of rubber consumption is in the tyre sector, which generates a huge quantity of waste. Obviously, these companies must play an active role in sustainability by carrying out recycling and reusing the recovered cured rubber, polyester, and steel cords from used tyres—initially at a small scale and then gradually increasing to a logical level—while also restricting the generation of waste. Government regulations are necessary in this regard, and organizations such as AIRIA, BIS, and ATMA should play an important role in this matter.

Where do you see the biggest gaps in India's research ecosystem—facilities, funding, collaborations, or direction?

I feel that R&D in India is carried out in a scattered manner and lacks direction. Work in academic institutions is often not aligned or collaborated with industry problems. Major laboratories are well equipped and funds are available for R&D purposes, but qualitative improvement in the functioning of these institutes is necessary. Perhaps an annual audit system should be introduced. Some tyre companies have R&D engaged in productive activities, but these are limited mainly to private industry.

What steps can help Indian research become more applied, industry-oriented, and globally relevant?

Academy - Industry interaction at a wider scale and on regular basis is essential to achieve such goal. Presenting paper in a seminar does not produce desired result. AIRIA / IRI / ATMA need to play effective role.

How can we attract and motivate young researchers to pursue meaningful, industrially relevant rubber research?

Suitable placement is a key factor. A limited number of rubber industries (tyre companies and a few non-tyre industries) offer jobs that provide opportunities to pursue meaningful, industry-relevant research. Public institutes like RRII, IRMRI, and universities have activities limited to their own fields, which are rarely aligned with industry-relevant work.

What top three research priorities should India focus on to contribute meaningfully to the global rubber community?

It is quite clear that the research priorities are sustainability, recycling and reuse, and alternatives to fuel-based ingredients—especially in tyres—as well as energy-efficient and cost-effective processes and products.

Rubber Technology Education in India

As someone who has taught at IIT Delhi, IIT Kharagpur, and other institutions, how do you assess the evolution of rubber technology education in India, and what improvements in curriculum, technical competencies, laboratory infrastructure, and industry-academia collaboration are needed to better align university programs with modern industry requirements and global standards?

Rubber technology education in India has transformed over the years and has become more relevant and useful to the industry, although there is always scope for further improvement. With the continuous progress of the rubber industry, the curriculum must be regularly revised, which requires consistent interaction between academic institutions and industry.



To strengthen students' technical competence, it is important to establish well-equipped workshops and pilot plants that include major industrial units, so that students can be exposed to a real industry environment. It is also beneficial to invite experienced professionals from industry to interact with students on a regular basis. Many highly qualified and experienced rubber technologists in the industry are well known to institutes, and their expertise could be utilized for teaching and mentoring, often without any cost. Practical demonstrations, workshops, and pilot-scale facilities are therefore essential for effective technology education.

At present, rubber education in India is limited to only a few institutions, notably IIT Kharagpur, while most university programs are focused on polymer chemistry and technology in which rubber is only a part of the curriculum. There is a need for all stakeholders—such as government departments, AIRIA, ATMA, RRII, and universities—to jointly analyze the overall situation and develop a practical policy framework for strengthening and expanding rubber technology education in India to meet the needs of the growing industry.

Future of the Indian Rubber & Tyre Industry

How do you assess India's position in the global tyre and rubber landscape today?

Indian tyre companies are playing a noticeable role in the international market, and many have their centres and offices in Europe and the USA. BKT and Apollo Tyres are making a strong impression in the global market. Recent US tariffs have had some impact on the market, but in the near future Indian companies are expected to make good progress. Many EU countries (e.g., Germany) have tyre industries that are in a difficult position to compete with Indian and Chinese tyres. The availability of skilled workers at reasonable cost, locally available ingredients, etc., are advantages for Indian tyre manufacturers. With the depreciation of the rupee, exports will become even more competitive.

What technological advancements should Indian tyre companies adopt to remain competitive in the coming decade, particularly in EV tyre design and materials, and how can challenges in natural and synthetic rubber availability be managed?

Technological advancements in tyre manufacturing—such as automation, improved efficiency, higher productivity, and to some extent the use of AI—will be important for Indian tyre companies to remain competitive. At the same time, proper training of personnel involved in these technologies is equally essential to ensure effective implementation.

With the rise of electric vehicles (EVs), tyres must handle higher weight per unit area and greater torque. Therefore, tyre design and compound properties, such as tread abrasion resistance and durability, need to be carefully developed to meet these new operating conditions.

Regarding raw materials, India historically had only one major synthetic rubber production, namely SBR. Later, polybutadiene rubber was introduced, and more recently butyl rubber manufacturing has started. However, India's demand for synthetic rubber is still much higher than domestic production, resulting in significant imports. Some quantity of synthetic rubber latex, including SBR and VP latex, is produced in the country, but in the area of specialized or high-performance synthetic rubbers the situation remains weak. Only small quantities of NBR are produced domestically, while CR, EPDM, FKM, silicone rubber, and others are largely imported. Since some of these materials have considerable demand, their domestic production should be seriously considered.

How can India strengthen its tyre and rubber sector through investments in advanced technologies, sustainability, R&D, and skill development to remain globally competitive in the coming decade?

Automation, digital manufacturing, and smart quality systems are important areas that require continued attention. Although some progress has already taken place, the key challenge is not only investment but also the availability of skilled and specialized personnel. Creating a better working environment and offering competitive financial incentives can help attract and retain such talent.

Some major tyre companies have already established their R&D centres in Europe and other regions outside India. While certain R&D activities are carried out in India, the possibility of India becoming a global hub for tyre R&D in the near future may be limited. In the area of specialty rubbers, only EPDM and NBR currently have sufficient demand in the country to justify local manufacturing, while others such as silicones and FKM may not be economically feasible in the near future.

Awareness programs on sustainability are increasingly being conducted by different stakeholders. Recycling and reclaiming of end-of-life tyres and other rubber products are being practiced, and their reuse within a circular economy framework is gaining wider acceptance. Government regulations supporting sustainability and recycling are also being gradually introduced. In terms of future technological trends, intelligent tyres from a design perspective, as well as the use of nano-carbon and new-generation antioxidants to meet evolving international regulations, are likely to play an important role in tyre technology in the coming decades.

To strengthen skill development among young professionals, closer collaboration between institutes and industry is essential. Structured in-plant training for a specified period can help students and engineers gain practical industry exposure. Overall, the tyre industry needs to develop a stronger innovation-driven culture to remain competitive globally. Except for a few large tyre companies, significant investment in R&D and innovation is still not common across most of the industry, and this needs to improve for sustained growth and technological advancement.

After more than six decades in the rubber field, what continues to drive your passion, what values have guided your long career, and what message would you like to share with young professionals entering the rubber and polymer industry today?

Over the decades, rubber chemistry and technology have continued to evolve with new developments, and I have moved along with these changes throughout my career. In the early years, India had not yet reached the international level in this field, and our effort was to introduce new developments while educating and training younger professionals who later became the leaders of the industry. Even today, what drives my passion is the continuous advancement of technology and the opportunity to contribute to the growth of the field.

In my personal experience, certain values proved very important while studying, working, and building a career in industry—discipline, punctuality, honesty, and hard work. Equally important was the habit of sharing knowledge with like-minded people. At times, this approach created friction with individuals driven by personal interests or jealousy, but it was appreciated by the overwhelming majority.

Looking ahead, the growth of the rubber and polymer industry in India will continue to generate significant employment opportunities. As the industry expands, it will require skilled, qualified, and well-trained professionals at decision-making levels. Greater emphasis on R&D, innovation-driven activities, and exposure to international developments will be essential. Young professionals entering this field should focus on building strong technical knowledge and practical skills, as these remain the key factors for achieving success in any profession.

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IRMRI

Spotlight





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Formerly known as Indian Rubber Manufacturers 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.

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Sri City Trade Centre, Sri City (Dt.)
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pv@irmra.org
info.south@irmra.org
Mob. No.: +91-8655095345

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ABOUT IRMRI

The Indian Rubber Materials Research Institute (IRMRI), formerly known as Indian Rubber Manufacturers Research Association (IRMRA), was established in 1958 in Thane, Maharashtra. IRMRI is a globally recognized Centre of Excellence serving the tyre and non-tyre rubber industries.

Operating under the Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Government of India, IRMRI provides specialized services in testing, research, product development, training, and technical consultancy for the rubber and allied sectors.

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Ms. N Sneha (Office-cum-Administrative Assistant)
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Internship Opportunity at IRMRI Delhi for Management Students

The Indian Rubber Materials Research Institute (IRMRI) has announced a Marketing & Business Development Internship opportunity for management students at its Delhi office in Vasant Kunj. The 1–2 month in-office internship offers hands-on exposure to marketing initiatives, industry outreach, training program coordination, and business development activities within a professional government research institute environment. Students pursuing BBA (from 2nd semester onward), MBA, or equivalent management programs are eligible to apply. Selected interns will receive an Internship Certificate from IRMRI. The application deadline is 21 March 2026 (11:59 PM). Interested students can apply through the registration link: <https://lnkd.in/gAeDtPaw>.

MIT World Peace University and IRMRI to Sign MoU and Host Expert Talk on Rubber Industry Careers

MIT World Peace University (MIT-WPU), Pune, will host an Expert Talk and MoU Signing Ceremony with the Indian Rubber Materials Research Institute (IRMRI), Thane on 16 March 2026 from 11:30 AM to 12:30 PM at Tikona CK216, MIT-WPU Campus. The collaboration aims to strengthen academia–industry engagement and create awareness about career opportunities in the rubber sector. The expert session titled “Future Career Opportunities in the Rubber Industry – Skills, Trends & Emerging Technology” will feature speakers Mr. Paul Vannan (Senior Deputy Director & Director-in-Charge, IRMRI), Dr. Bharat Kapgate (Deputy Director, IRMRI), and Mr. V. Karthikeyan (Business Manager, IRMRI). The event will provide valuable insights for students and researchers on evolving technologies, industry trends, and emerging skill requirements in the rubber industry while fostering stronger collaboration between academia and industry.

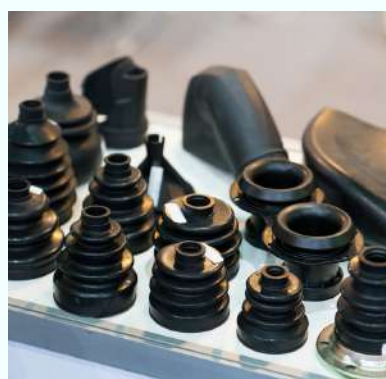
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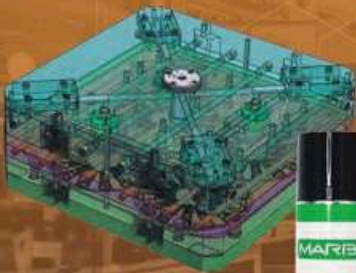
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- BUTAZATE® : Zinc Dibutyl Dithiocarbamate. (ZDBC)
- ETHAZATE® : Zinc Diethyl Dithiocarbamate. (ZDEC)
- OXAF® : Zinc-2- Mercaptobenzothiazole. (ZMBT)
- TUEX® : Tetramethyl Thiuram Disulfide. (TMTD)
- DPG® : Diphenyl Guanidine. (DPG)
- BENTAZATE® :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

CLARIANT

Clariant

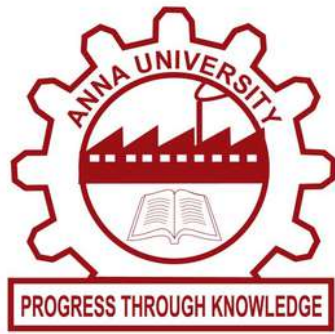
- EMULSOGEN LAT : Surfactant for rubber latex.
Good wetting properties & less foaming performance

DAP : Diammoniumphosphate



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Department of Rubber & Plastics Technology
Madras Institute of Technology
Chromepet, Chennai 600044





Empowering Tire Manufacturing with Industry 4.0 Solutions

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BASE Automation empowers manufacturers to realize their Digital Transformation goals, providing visibility into operations, improving productivity, and enhancing quality through the use of actionable information derived by connecting assets and operators across the factory.

Solutions Overview

TIRE & RUBBER INTELLIGENCE

Over 20+ years of experience in Tire & Rubber domain

- MES Connectivity
- OEE & Downtime Monitoring
- OT Digital Enablement
- Recipe Management (All Assets)
- Poka-Yoke Interlocks
- Statistical Process Control (SPC)
- Connected CMMS
- ERP Integration
- Digital Logbooks
- Traceability
- FTPC Support & Staffing
- Centralized SCADA
- Utilities Monitoring
- Predictive Analytics

Built on  standards

WORLD ECONOMIC FORUM

BASE Automation was instrumental in enabling one of our tire customers to achieve recognition as a **World Economic Forum (WEF) Lighthouse**. Through the successful implementation of over **200 Smart Factory Use Cases**, we delivered cutting-edge **digital transformation solutions**. This accomplishment highlights BASE's deep expertise in Industry 4.0, adherence to ISA 95 standards, and capability in delivering **end-to-end automation**.

350+

Controllers
Connected

34

Process
Areas

140,000

Tags
Managed

10,000

Data Points/Sec
Capture Rate

750+

Poka-Yoke
Workflows



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In Thailand



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NSC-TISI-TIS17025
CALIBRATION 6093

RUBBER TESTING



UNIVERSAL TESTING MACHINE

AI-7000-MU

This machine are used to test tension, compression, bend, shearing force, adhesion, peeling force, tear strength, etc. of specimen, semi-product and finished product.



MOVING DIE RHEOMETER

M-6000AU

The moving die rheometer is an ideal instrument for determining the curing characteristics of rubber compounds including scorch time, cure time, cure rate, maximum torque, minimum torque and other vulcanization characteristics for quality control, research and development.

The Mooney Viscometer measures the viscosity, scorch and stress relaxation of raw rubber or compounded rubber.

It is used for determining the quality of rubber processing characteristics.

Standard : GB/T 16584-1996,ISO 6502-3-2018, ASTM D5289-2017



FLEXOMETER

RHU-2000N

The machine is used to determine the rubber subjected to the constant compression load under certain amplitude and frequency to assess its rising speed of temperature, dynamic permanent deformation but it's available for testing the rubber with the hardness from 30 to 85 IRHD.

Standard : ASTM D1646-2017, GB/T 1233-2008, GB/T 12321-2016, ISO 289-2-2016, ISO 289-1-2015



TIRE TESTING MACHINE

LT-5500AS

LT-5500AS designed in accordance with international standards, is suitable for tire testing including plunger energy test, bead unseating test, vertical stiffness test, lateral stiffness test and pressure distribution test.

Standard : GB/T 23663, ASTM F414-15, ASTM F870-94(2016), GB/T 4502-2016, CNS1431:2017



Ozone Tester

OZ-0500AC

The OZ-0500AC is designed to assess the resistance of vulcanized and thermoplastic rubber to cracking under static or dynamic strain when exposed to an ozone environment.

This ozone tester offers controllable ozone concentration and temperature conditions and allows operators to assess the resistance of rubber materials to ozone exposure efficiently for product performance evaluation.

Standard : GB/T 7762-2014, GB/T 13642-2015, ASTM D 1149-18,ISO 1431-1:2012



DIN ABRASION RESISTANCE TESTER

GT-7012-D

This machine is designed for determining the resistance of polyester soles, outsoles and polymer sheet materials to abrasion. The abrasive resistance is assessed by measuring the abrasion loss after the specimen is rubbed against sandpaper.

Standard : BS-903, GB/T 9867, ISO 4649, JIS-K6264, SATRA TM174, ASTM D5963, QBIT 2884-2007, ISO 20871:2001, BS EN 12770:2000

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WE PRODUCE HIGH QUALITY NATURAL RUBBER LATEX



Quality Assurance

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



About Our Company

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

Our Story

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



Concentrated Latex

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

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



Skim Block

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

Corporate Sustainability



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

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

EUDR Latex

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



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technologies

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Superior mechanical properties



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Qingdao Zhongyi Weiye Machinery Manufacture Co., Ltd.



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

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



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

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

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



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

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MARKETING AND THEIR TECHNOLOGY IMPROVEMENTS.

CERTIFICATION
ISO9001:2000
we get certificate

COUNTRY
50
Export to more
than fifty countries
and regions

CAPACITY
20000
annual production ability
of 20,000MTS
on rubber additives

TYPES
10
divided
into
10 categories

SPECIES
100
with more
than
100 items

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



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of topquality and human cares on natural environment to make
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- Rheology and viscoelastic characterization

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

MICROWAVE & HOT AIR CURING LINE



USAGE

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



FEATURES

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

RUBBER HOSE PRODUCTION LINE 橡胶管生产线



鼓式冷却 Drum cooler



胶管裁断机 Cutting machine

BUTYL RUBBER PRODUCTION LINE 丁基胶挤出生产线



14

NBR&PVC FOAM SHEET/ PIPE PRODUCTION LINE 橡塑发泡生产线



SILICONE RUBBER PRODUCTION LINE 硅橡胶挤出硫化生产线



自动喂料硅橡胶挤出机 Silicone extruder with auto feeder

Medical grade Silicone extrusion line



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Wuxi Double Elephant Rubber & Plastics Machinery Co., Ltd

双象集团
DOUBLE ELEPHANT GROUP

公司介绍 Company introduction

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

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

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

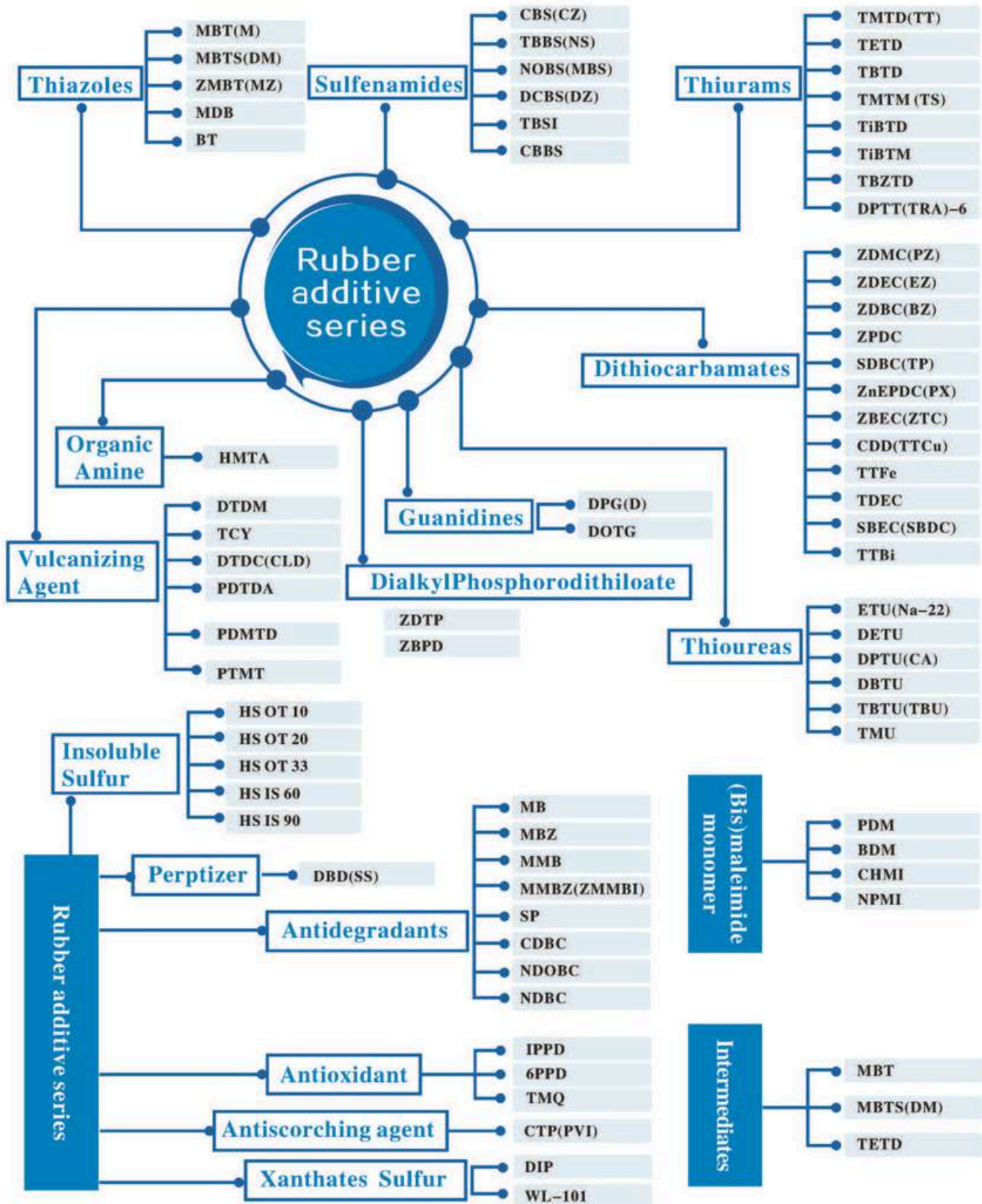
我们的客户
Our customers



无锡双象橡塑机械有限公司
WUXI DOUBLE ELEPHANT RUBBER&PLASTICS MACHINERY CO., LTD.

Contact: Cloud Feng

Phone Number(Whatsapp): +86 13338106611





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 etc.

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

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



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

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



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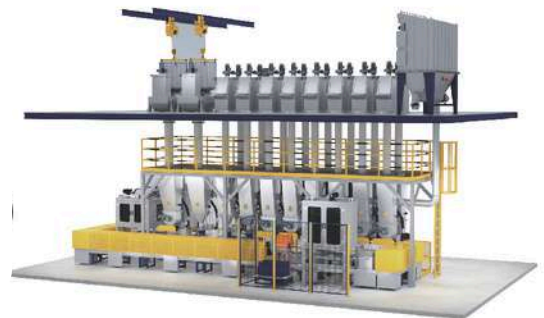
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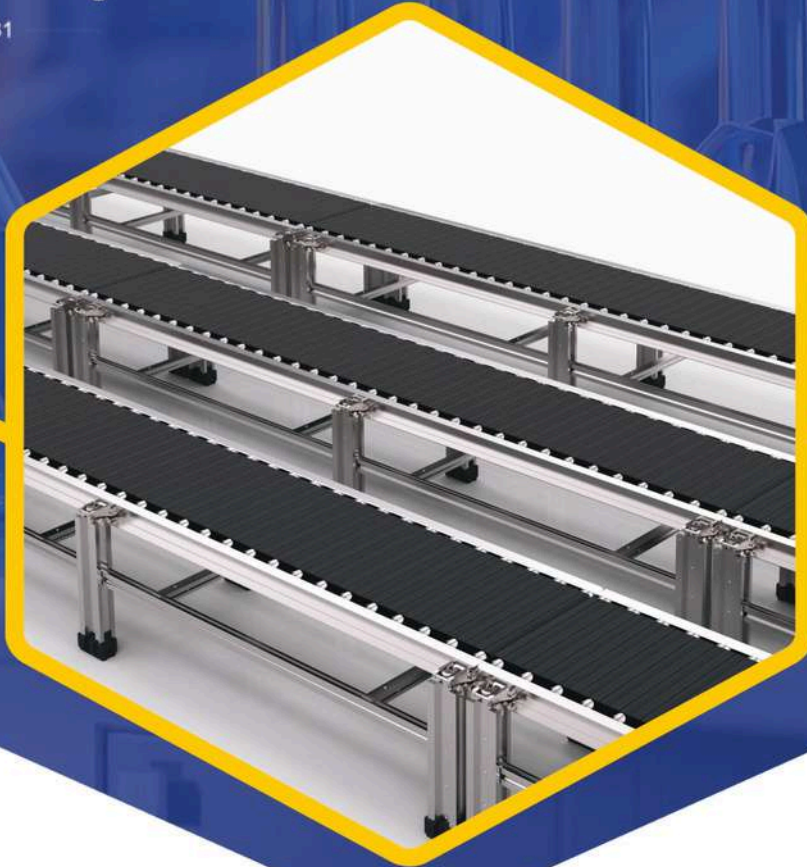
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ESPEC : Provides climatic test chambers such as temperature chambers(ovens),Temperature and humidity chambers, thermal shock chambers.



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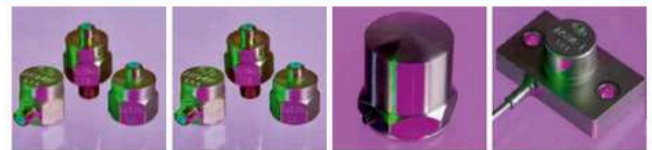
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- Mechanical Shock Testers
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- **Tire Bead Wire – 42000 MT PA (0.80 mm – 2.40 mm)**
- **Spring Steel Wire & Galvanized Wire – 36000 MT PA (0.25 mm – 6 mm)**

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

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

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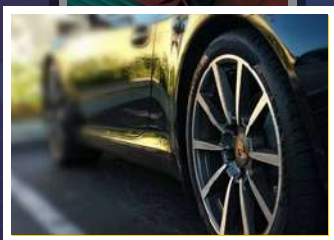
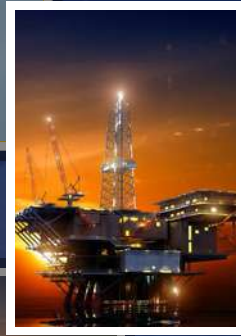
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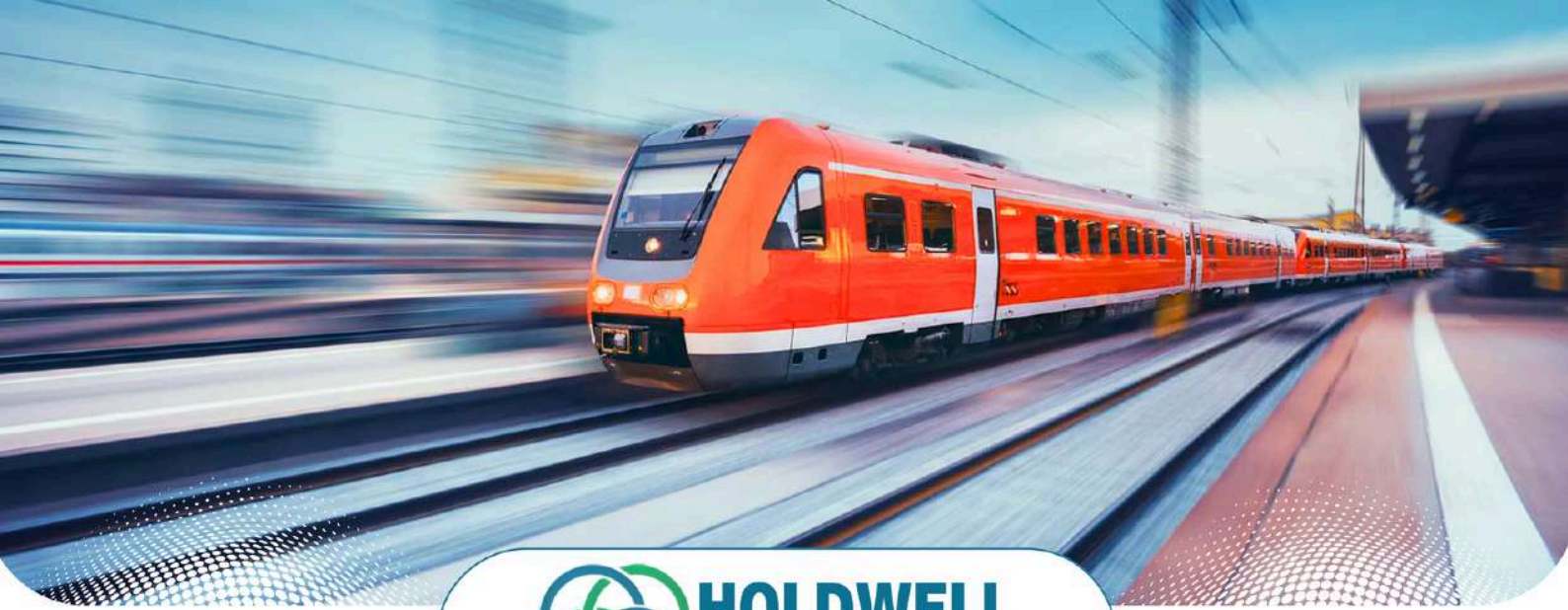
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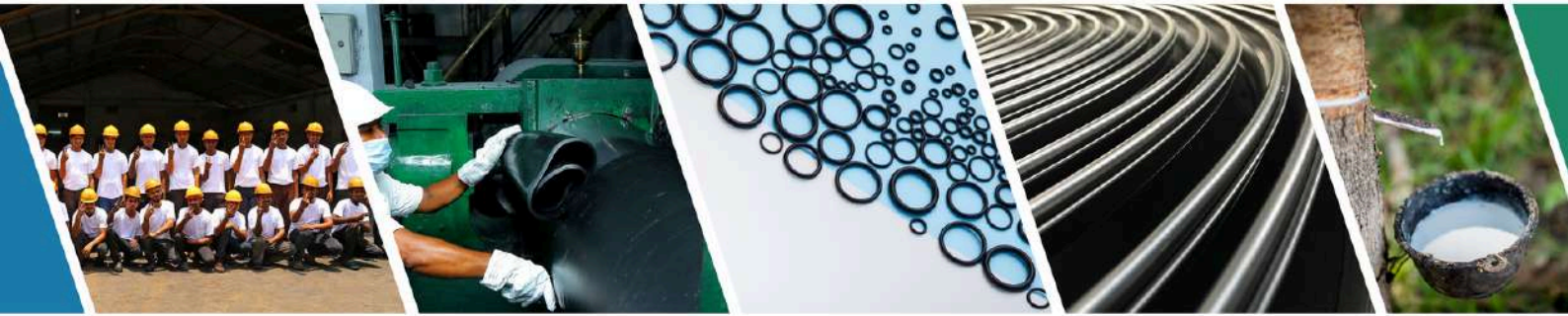


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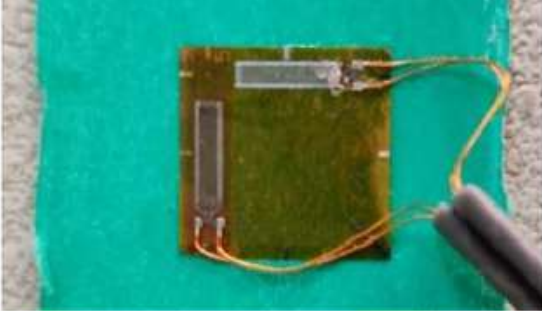
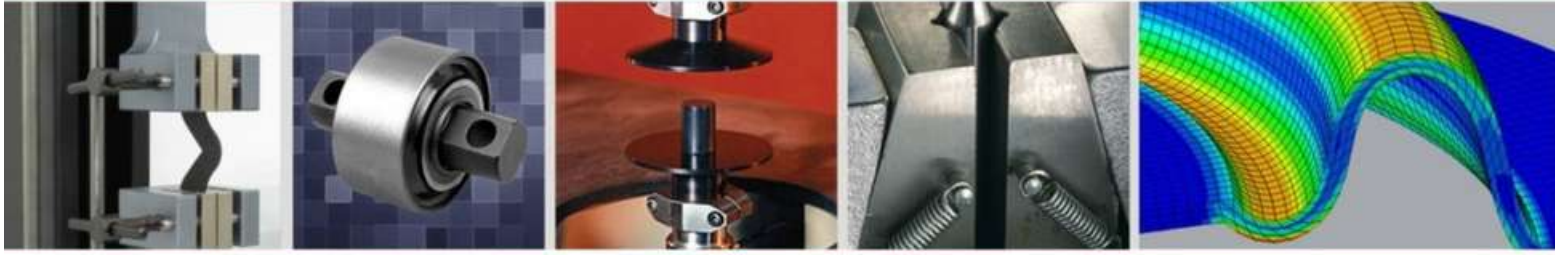
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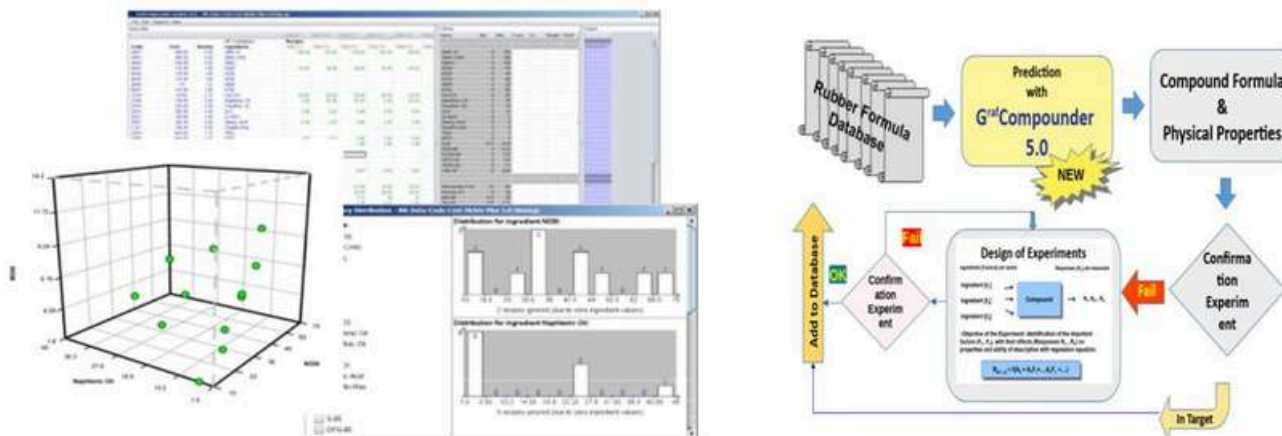
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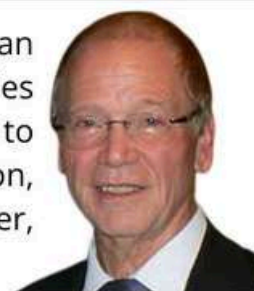


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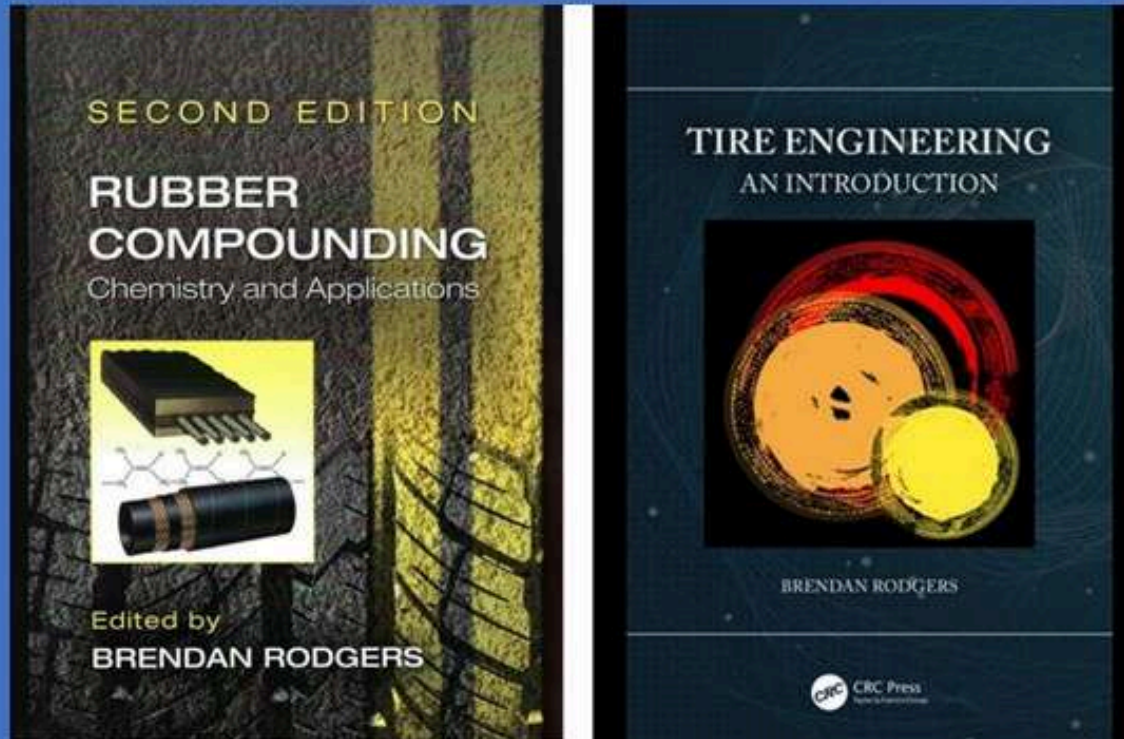
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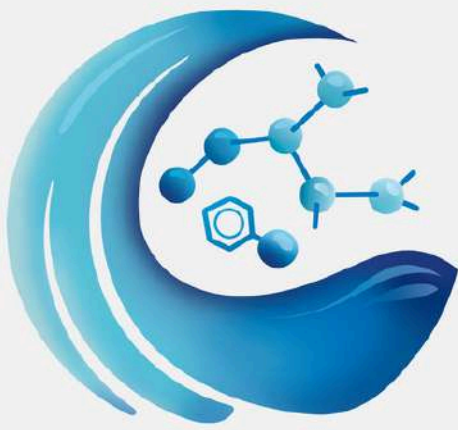


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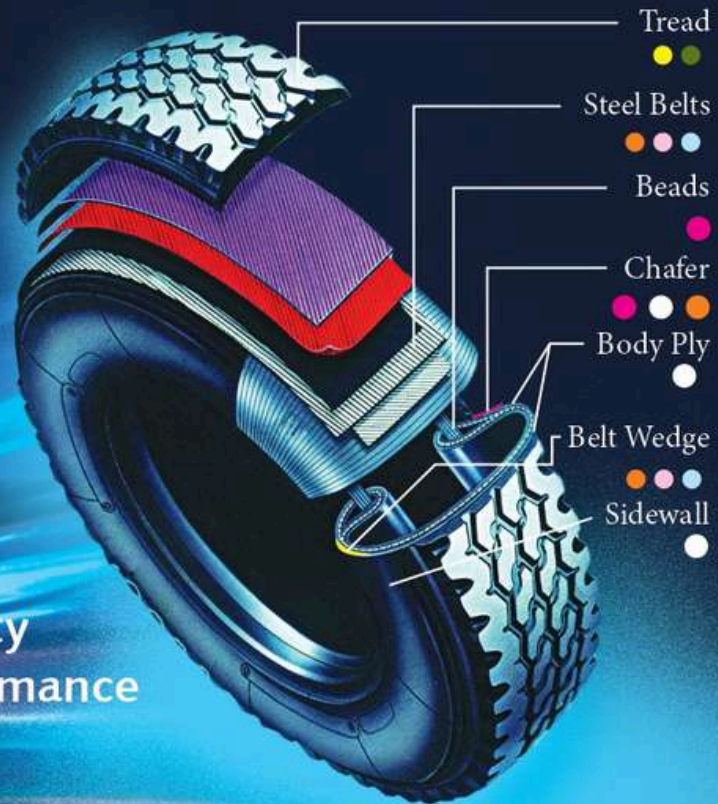
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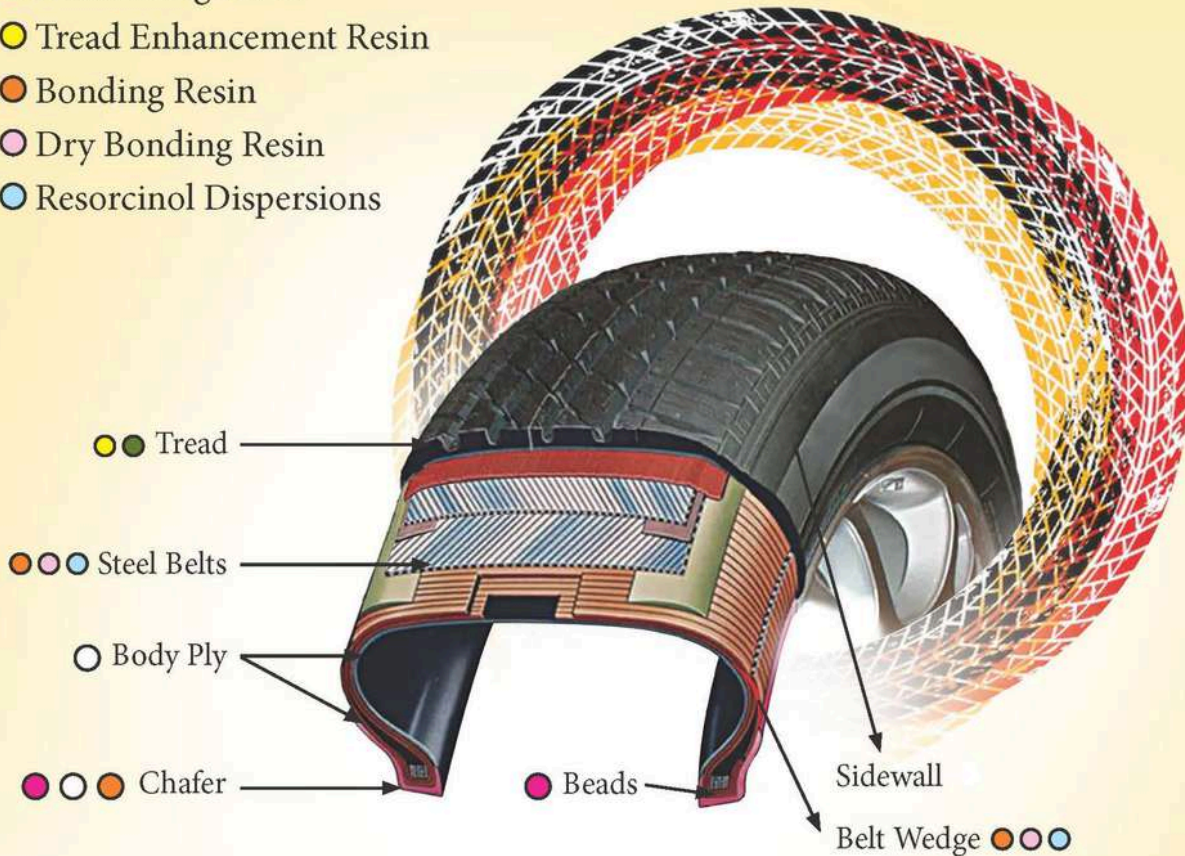
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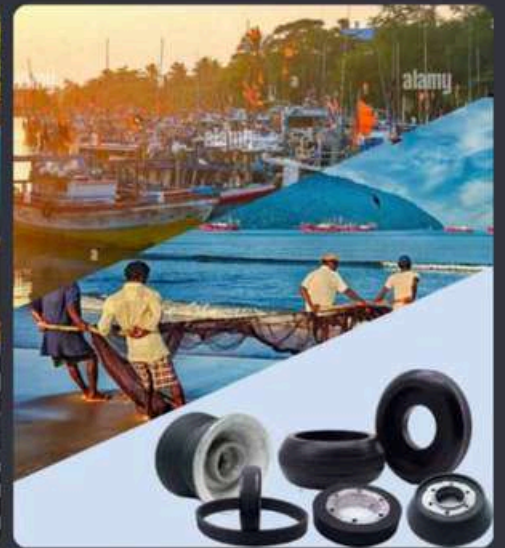
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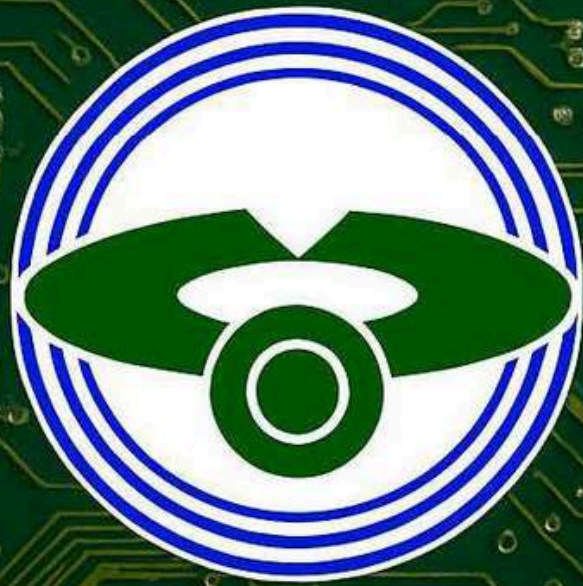
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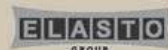
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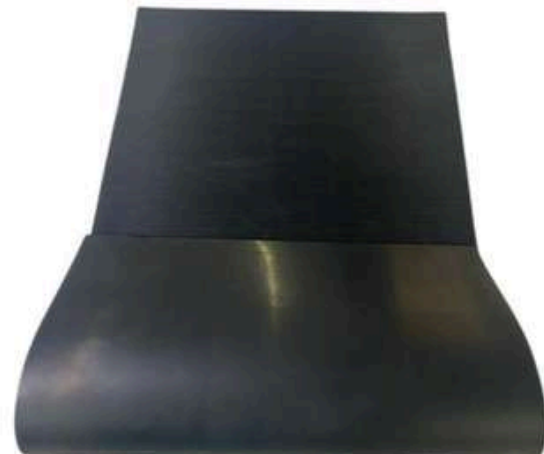
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RUBBER BUSINESS NEWS

RUBBER *Review*

ARLANXEO's Orange, Texas site achieves ISCC PLUS certification for Therban® (HNBR) and Buna® (BR)



ARLANXEO announced that its Therban® (HNBR) and Buna® (BR) manufacturing units at the Orange, Texas site have successfully achieved ISCC PLUS certification. This certification enables the site to manufacture and supply products under the ARLANXEO Eco label. The ARLANXEO Eco Line comprises the company's portfolio of ISCC PLUS-certified sustainable elastomers based on the mass balance approach.

This certification enables ARLANXEO to offer customers in North America and global markets verified sustainable solutions that help reduce overall carbon footprints while maintaining the performance and reliability associated with Therban® and Buna® products.

The certification is particularly significant for ARLANXEO's Specialty Elastomers business. As the first Therban® HNBR site to receive ISCC PLUS certification, the Orange location plays a central role in expanding ARLANXEO's offering of sustainable high performance elastomers. Edwin Grootendorst, Global Head of Business Specialty Elastomers, emphasized the milestone: "The Orange site is the first Therban® HNBR production facility to receive ISCC PLUS certification and further strengthens the sustainability mission of ARLANXEO, as well as the Eco portfolio of the Specialty Elastomers cluster."

The inclusion of Buna® BR from the Orange site adds further depth to the company's sustainable product offering. Rohit Prabhune, Global Head of Business Basic Elastomers, highlighted the importance for his segment: *"With Orange joining our existing ISCC PLUS-certified Buna® sites, ARLANXEO now has ISCC+ Certified Basic Elastomers producing sites on 3 continents, with a truly global reach. This reinforces our commitment to providing customers with circular, mass balanced solutions that help reduce environmental impact while maintaining the performance they expect."*

The strengthened product offering is particularly relevant for customers in North America. Jay Capelli, Regional Head of Sales NORAM, added: *"This certification helps solidify ARLANXEO's position in the NORAM region as a premium supplier and partner – and supports the sustainability ambitions of our customers across key industries."*

Strengthening ARLANXEO's global sustainability agenda

ISCC PLUS is a globally recognized certification system designed to ensure traceability, transparency, and responsible sourcing throughout the value chain. By integrating circular and renewable raw materials via the mass balance methodology, ARLANXEO can offer ARLANXEO Eco grades that enable customers to reduce their carbon footprint without compromising technical performance.

The certification of the Orange site is part of ARLANXEO's broader global sustainability agenda and represents another milestone in expanding the ARLANXEO Eco portfolio across multiple sites and product families — supporting customers in their transition toward more sustainable elastomer solutions.

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LANXESS Introduces New High-Performance Additives for the Tire Industry at Tire Technology Expo 2026



At the Tire Technology Expo 2026 in Hannover, Germany, the specialty chemicals company LANXESS presented a range of advanced rubber additives designed to enhance tire performance, production efficiency, and sustainability. These innovations target key challenges faced by tire manufacturers, including durability, environmental compliance, and process optimization.

One of the major highlights from LANXESS was the introduction of Vulkanox 4060, a new antioxidant that could serve as a more environmentally compatible alternative to the widely used 6PPD. Antioxidants play a critical role in protecting rubber from oxidative degradation and aging, which helps extend the service life of tires. The new product reflects the industry's increasing focus on reducing environmental impact while maintaining high-performance standards.

In addition to this development, LANXESS showcased additives that improve silica dispersion in tire compounds, a key factor in producing modern high-performance tires with better rolling resistance, wet grip, and durability. The company also presented solutions that help reduce deposits during manufacturing processes and enhance adhesion between rubber and reinforcing materials such as steel or textile cords, contributing to more stable and efficient tire production.

Through these innovations, LANXESS aims to support tire manufacturers in developing next-generation tires that meet stricter environmental regulations while delivering improved performance and manufacturing efficiency. The company emphasized that advanced additive technologies will play a crucial role in the industry's transition toward more sustainable and high-efficiency tire production.

Continental Phases Out Coal and Heavy Fuel Oil as Energy Sources in Tire Production Worldwide



Continental has reached an important milestone in its global sustainability strategy: Coal and heavy fuel oil have been fully phased out across all tire production sites. Since January 2026, all plants have adopted alternative energy sources to generate the steam required for manufacturing tires and heating. These alternatives include biomass, biogas, electricity from renewable sources, and alternative fuels such as liquefied petroleum gas (LPG) and natural gas in order to ensure a constant energy supply.

"For us, coal and heavy fuel oil are a thing of the past. The future increasingly lies in renewable energies," says Dr. Bernhard Trilken, head of Manufacturing and Logistics at Continental Tires. "By relying on a smart mix of energy sources – increasingly renewable and ideally generated directly on site – we are making our manufacturing more independent and therefore more resilient."

Until the early 2020s, seven of Continental's 19 production facilities worldwide relied on coal and heavy fuel oil to generate steam. This approach ensured constant thermal output and high operational reliability even in regions with limited gas or electricity infrastructure. Today, all Continental tire plants draw on a diversified mix of alternative energy sources, enabled by systematic and long-term investments.

In tire manufacturing, a significant share of energy is required for heating processes such as vulcanization, which gives rubber its elastic properties. While this step has long used steam produced directly from fossil-based energy sources, new advanced electric technologies make the process far more flexible and more energy efficient.

In addition, since 2020 Continental has purchased electricity exclusively from renewable sources and is continuing to expand its own renewable energy generation. The company reduced the greenhouse gas intensity of its production by more than ten percent in 2025 compared to the previous year and by around 70 percent compared to 2019. Especially by switching to lower-emission energy sources, Continental has cut around 180,000 metric tons of CO₂ from tire production over the past four years.



Dr. Bernhard Trilken, head of Manufacturing and Logistics at Continental Tires.



Henning Mühlenstedt, head of Future Technologies and Sustainable Infrastructure at Continental Tires.

Milestone achieved: alternative steam generation at all sites

Today, Continental uses a combination of different energy sources to reduce overall CO₂ emissions from tire production, including biomass, biogas, electricity from renewable sources, and alternative fuels such as liquefied petroleum gas (LPG) and natural gas. *"We have significantly reduced our production-related CO₂ emissions, thanks to continuous investments in electrification and changing the energy sources used for heat generation at our plants worldwide,"* explains Henning Mühlenstedt, head of Future Technologies and Sustainable Infrastructure at Continental Tires.

The energy mix at Continental's global production sites varies widely, shaped by regional infrastructure, available resources, and local energy markets. Yet one common thread runs through all locations: the company's clear commitment to phasing out coal and transitioning to energy sources with lower CO₂ intensity. At the plant in Gqeberha, South Africa, for example, coal had long been part of the site's steam generation. Today, the plant has switched to biomass, with liquefied petroleum gas (LPG) covering the remaining energy demand. The tire plant in Kalutara, Sri Lanka has undergone a similarly transformative journey.

With the commissioning of a second biomass boiler last year, the site successfully eliminated the use of heavy oil and now generates all of its steam exclusively from renewable biomass. At its Otrokovice site in the Czech Republic, Continental worked closely with its regional energy supplier to align steam generation with the company's climate targets. As part of this collaboration, the local power plant gradually shifted its fuel mix from coal to biomass and natural gas. As a result, Continental's tire plant in Otrokovice can now be supplied with steam generated predominantly from biomass. This switch will also have a positive impact on the surrounding communities, which will now receive district heat from a more environmentally friendly mix.

Transitioning to alternative energy sources is a key part of Continental's sustainability efforts. The company continuously works to improve energy efficiency and increase the use of renewable energy sources in its production processes further. Switching steam generation to alternative energy sources across all production sites is a concrete step – a commitment that is also recognized externally by the independent organization CDP, which awarded Continental an A- rating in 2025 for its climate transparency and CO₂-reduction measures.



All 10 Highest-volume EV Manufacturers in the EMEA Region Choose Continental Tires



Continental has expanded its market position even further in the field of electric mobility. In the Europe, Middle East and Africa (EMEA) region, the company supplied original equipment tires to the 10 highest-volume manufacturers of electric vehicles in 2025. This result underscores Continental Tires' strategic focus on the growing e-mobility market. Worldwide, 17 of the 20 highest-volume electric vehicle manufacturers place their trust in tires from the Hanover-based company. They include both premium and volume manufacturers such as BYD, Volkswagen, Stellantis, BMW, NIO, Hyundai and Renault. In the Americas region, Continental currently supplies 8 of the 10 highest-volume manufacturers. In the most dynamic market region, Asia Pacific (APAC), it supplies 7 of the top 10. The Chinese market is particularly volatile: within one year, new high-volume manufacturers have entered the rankings there.

"The EMEA region confirms the success of our strategy. We began designing our passenger tires for low rolling resistance, quiet rolling noise and high load capacity very early on. These properties are especially important for electric vehicles," says Dennis Bellmund, responsible for the global original equipment business at Continental Tires.

Developing tires with electric vehicles in mind

Electric vehicles place particular demands on tires. Due to the weight of their batteries, they are generally heavier than comparable combustion-engine vehicles. They also deliver instant torque when accelerating. The resulting higher load and greater torque can lead to faster tire wear. Electric vehicles are also quieter than vehicles with combustion engines, which means tire rolling noise is more noticeable.

Continental began early on to optimize its tires for ever-lower rolling resistance, quiet rolling noise and high mileage – regardless of the vehicle's drive system. The tire manufacturer introduced its first tire line specifically designed for energy efficiency back in 1993 – the ContiEcoContact. The seventh EcoContact generation is now available on the market.

The new EcoContact 7 from Continental features optimized aerodynamics for greater energy efficiency. Continental's engineers combined various technologies to achieve this, including the "aerodimple" structure borrowed from golf balls. The dimples in the sidewalls reduce the air turbulence behind the tires, meaning the vehicle requires less energy to keep the tire moving. This makes the EcoContact 7 an ideal tire solution – for electric and combustion-engine vehicles alike.

Electric mobility: the global market continues to grow

Global sales volumes of electric vehicles are growing steadily. Industry experts such as the Fraunhofer Institute for Systems and Innovation Research (ISI) regularly provide forecasts and analyses on the development of the global electric-vehicle market. The ISI projected a 23 percent increase in global sales of battery-powered electric vehicles (BEVs) for 2025: from 10.3 million electric cars sold in 2024 to 12.7 million in 2025. The Asia-Pacific region, especially China, is and remains by far the largest single market for electric cars, with double-digit growth rates. Europe is the second most important sales market worldwide. At 2.5 million, around 26 percent more electric vehicles were registered than in 2024. In North America, new registrations remained at the previous year's level of 1.4 million vehicles, according to ISI.



Since 2023, Continental has added the EV-compatible logo to all its tires that are designed for electric vehicles and which optimize their range.

Covestro and Fraunhofer UMSICHT sign contract for groundbreaking smart pyrolysis recycling pilot plant



Materials manufacturer Covestro and the Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT have signed a contract to operate a 2kt per year pilot plant for smart pyrolysis of rigid polyurethane foam waste. The plant will be operational by 2028. The agreement marks a significant milestone in scaling up the technology to convert insulation waste from appliance and construction into high-purity re-aniline for the production of MDI (methylene diphenyl diisocyanate). The resulting MDI meets the same purity standards as conventional MDI with up to 40¹ percent lower carbon footprint compared to conventional fossil-based production routes.

"The contract with Fraunhofer UMSICHT is a decisive step towards industrializing our smart pyrolysis technology," said Dr. Markus Dugal, Head of Process Technology of Covestro. *"This partnership combines our chemical and technology expertise with Fraunhofer's process engineering capabilities and assets to scale a technology that is able to prove chemical recyclability of end-of-life Polyurethane materials and that could fundamentally change how we source raw materials for MDI production. By recovering high-value molecules from waste streams, we're turning the circular economy from vision into reality while significantly reducing the carbon footprint of our products."*

Under the agreement, Fraunhofer UMSICHT will draw on its pyrolysis research expertise and existing chemical recycling infrastructure to implement and scale up Covestro's proprietary smart pyrolysis process. The pilot plant has an annual capacity to recycle 2kt of end-of-life foam per year. The resulting amount of aniline could be used to produce insulation for roughly 200,000 refrigerators². The new plant is scheduled to begin operations in mid-2028 and will process rigid PUR/PIR foam waste primarily from end-of-life insulation PU materials. The technology specifically targets rigid foam because it is notoriously difficult to recycle due to its crosslinked molecular structure.

Moving towards industrial implementation

"This project represents the culmination of several years of intensive joint research," explains Prof. Dr.-Ing. Manfred Renner, Head of Institute Fraunhofer UMSICHT. "It's perfectly in line with Fraunhofer's mission to bridge the gap between research and application: we are not just demonstrating technical feasibility but actively moving towards industrial implementation." Dr. Alexander Hofmann, Head of Thermochemical Conversion Technologies at Fraunhofer UMSICHT adds: *"The project is underpinned by our own research and technology developments in chemical recycling and downstream processing. The pilot plant will allow us to optimize process parameters at scale and provide sufficient material for further processing tests and market development."*

The smart pyrolysis process yields aniline with approximately 99 percent purity, suitable for producing recycled MDI that meets the same quality standards as conventional MDI.

Rigid foam market in need of closed-loop solutions

This development is particularly important as the MDI market for rigid foam is projected to grow from 1400 kt in 2025 to 1900kt in 2035 in Europe alone, driven by increasing demand for energy-efficient insulation in buildings and refrigeration. EU regulations and market requirements, for example, increasingly request scalable end-of-life solutions for PUR/PIR rigid foam, posing a significant challenge for the industry. The chemical recycling technology developed by Covestro and Fraunhofer UMSICHT offers a viable path forward by breaking molecular bonds to recover valuable raw materials that would otherwise be lost.

The technological development builds on extensive research within CIRCULAR FOAM, an EU-funded flagship project coordinated by Covestro with Fraunhofer UMSICHT and 23 other partners across Europe. After successful laboratory and mini-plant scale demonstrations, the smart pyrolysis pilot plant represents the critical next step toward commercial implementation.

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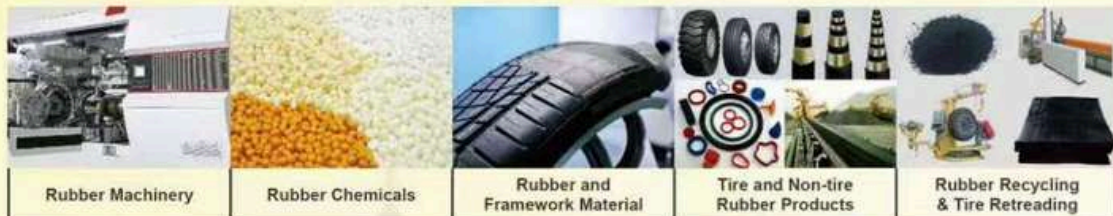


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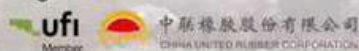
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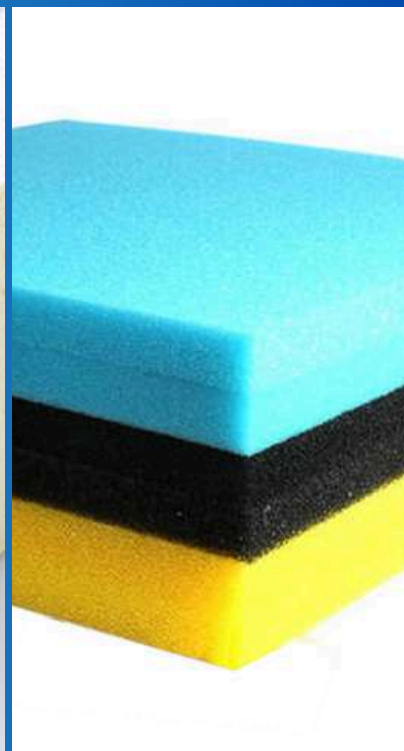
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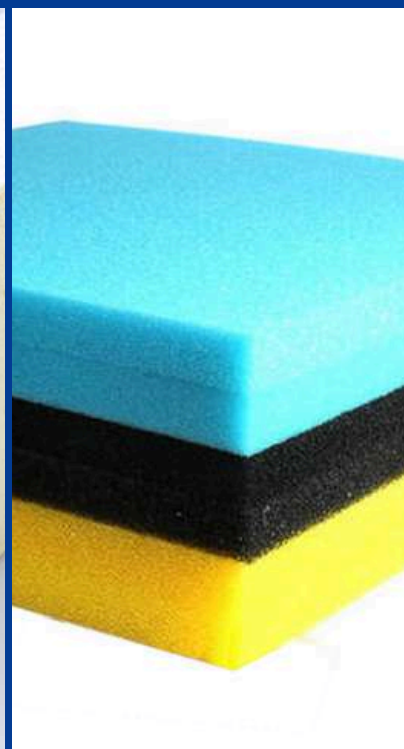
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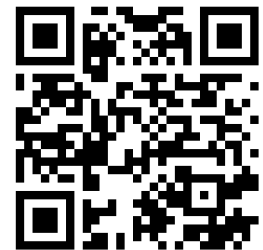
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Visitor Profile & Registration

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TechnoBiz introduces the “**TechnoBiz Spotlight Screen**” at the entrance of the exhibition hall during PU Week 2026, taking place on 30–31 March 2026 in Kuala Lumpur, Malaysia. This premium digital advertising platform provides technology suppliers with a powerful opportunity to showcase their brand, products, and innovations to all visitors entering the exhibition area.

The TechnoBiz Spotlight Screen is a large 3 m × 2.5 m digital display, strategically positioned at the main entrance of the exhibition hall to ensure maximum visibility and attention from polyurethane industry professionals, decision makers, buyers, and technical experts attending the event.

Participating companies can display their advertisement through a 5-second rotating slide, which will run continuously throughout the two exhibition days, ensuring repeated exposure and strong brand recall among visitors.

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Expo Timings

30 March 2026: 10am - 6pm
31 March 2026 : 10am -5pm

Venue:

World Trade Centre Kuala Lumpur

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Visitor Profile & Registration

All polyurethane industry professionals are welcome to visit the exhibition. Entry to the Asia Polyurethane & Adhesive Expo is free for all pre-registered visitors, providing open access to exhibitors, product displays, and networking opportunities.

Visitor Registration Form



Booth Enquiry : Peram Prasada Rao (Email: peram.technobiz@gmail.com | WhatsApp: +66-89-489 0525)

<https://events.technobiz.org>

ASIA
POLYURETHANE
& ADHESIVE EXPO

30-31 MARCH 2026
Kuala Lumpur, Malaysia
World Trade Centre Kuala Lumpur

TechnoBiz
PU
WEEK

A TechnoBiz Exhibition on Polyurethanes & Adhesives

PARTICIPATING EXHIBITORS

APBA
Asian Polyurethane
Business Association

*Asian Polyurethane Business
Association (APBA)*



B-FCTL Co., Ltd.



Cangzhou Weida Pu Hi-Tech Co., Ltd.



Cannon Far East (M) Sdn Bhd



*Dongguan Fung Billion
Furniture Material Co., Ltd.*



Eastsun New Material (Zhuhai) Co., Ltd.



*Elitecore Foam Machinery
Manufacturing Co., Ltd.*

Wynca 新安

Fujian Wynca Technology Co., Ltd.



Gladwave Technology Co., Ltd.



Growchem Sdn. Bhd.



Guangzhou Yifan Chemical Co., Ltd.



*Hangzhou Top Win Technology
Development Co., Ltd.*

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PARTICIPATING EXHIBITORS



*Hebei Yadong Chemical
Group Co., Ltd.*



Immortal Green Industrial Sdn. Bhd.



ISOPA



Jadi Imaging Technologies Sdn. Bhd.



HTC GLOBAL

HTC Global Co., Ltd.



*Jiangsu Hengguang
New Material Co., Ltd.*



Jiangsu Maysta Chemical Co., Ltd.



*Jiangsu Osic Performance
Materials Co., Ltd.*



*Anji Jushu New Material
Technology Co., Ltd*



MAYRUN CHEMICAL
THE PARTNER FOR PU ADDITIVES

Mayrun Chemical



Melexio China



Ningbo Xinliang Machinery Co., Ltd.

ASIA POLYURETHANE & ADHESIVE EXPO

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PARTICIPATING EXHIBITORS



Pacific Thai Urethanes Co., Ltd.



ISC srl



PCG PCC Oxyalkylates Sdn. Bhd.



Polygreen Chemicals
(Malaysia) Sdn. Bhd.



Polymer Synergies



PT Sutindo Chemical Indonesia



PU Daily



Purplan GmbH



Qualibit Chemicals &
Industries Sdn. Bhd.



Sejong Technology Co., Ltd.



Shandong INOV
Polyurethane Co., Ltd



Shandong QL
New Materials Co., Ltd.

ASIA POLYURETHANE & ADHESIVE EXPO

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PARTICIPATING EXHIBITORS



Shanghai Bicheng
Chemical Trade Co., Ltd.



Shanghai Chic
New Material Co., Ltd.



Shanghai Hecheng Polymer
Technology Co., Ltd.



Shanghai Jintang
Plastic Technology Co., Ltd.



Shanghai Kaqin Chemical Science
And Technology Co., Ltd.



Kunshan HMC Release
Materials Co., Ltd.



Shengduan (Yangzhou)
Import and Export Co., Ltd.



Sinochem Plastics Co., Ltd.



Suzhou Xiangyuan
New Materials Co., Ltd.



Tianchang Basd Environmental
Protection New Material Co., Ltd.



Tianjin Junchi New Material
Technology Co., Ltd.

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PU Review Magazine

ASIA
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TechnoBiz
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PARTICIPATING EXHIBITORS



TU Materials Co., Ltd.



*Umax Chemicals
(Shandong) Corporation*



*Wenzhou Zecheng Electromechanical
Equipment Co., Ltd.*



Xiamen Kaiping Chemical Co., Ltd.



Xuchuan Chemical (Suzhou) Co., Ltd.

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Zhejiang Lingxin Machinery Co., Ltd.



Zibo Huide Polyurethane Co., Ltd.



PolyChemTech Ltd



JBLD International (P) Ltd



Jiangsu SD Technology Co., Ltd



*Jining Jintailihua
Chemical Technology co., Ltd.*

APBA CONFERENCE



*3rd Annual Conference of
Asian Polyurethane Business Association (APBA)*

30-31 MARCH 2026
KUALA LUMPUR, MALAYSIA
World Trade Centre Kuala Lumpur

TechnoBiz
PU
WEEK



<https://events.technobiz.org>

APBA CONFERENCE

30-31 MARCH 2026
Kuala Lumpur, Malaysia
World Trade Centre Kuala Lumpur

TechnoBiz
PU
WEEK

3rd Annual Conference of Asian Polyurethane Business Association

30 MARCH 2026 | MONDAY

FREE ENTRY

10:00-10:30

Delegate & Speaker Registration

10:30-10:40

Welcome Remarks

Stefan Hermes, Chairman, Asian Polyurethane Business Association

10:40-11:10

Keynote Talk: Resilient Supply Chains in the Polyurethane Industry

Stefan Hermes, Chairman, APUA

11:10-11:40

PU Landscape Overview in APAC

Nikhil Vallabhan, Director, Frost & Sullivan

11:40-12:10

Polyurethane Market Trends in Asia

Leo Yang, Analyst, PU Daily

12:10-12:30

Beyond Artificial - Building Real Intelligence in the Polyurethane Industry | *Stefan Hermes*, Managing Director HTC Global

12:30-13:30

BREAK TIME

13:30-14:00

The IKEA Way: Developing Circular Foams, One Cushion at a Time

Jose Junior Naraval, Material and Technology Engineer for Foams, IKEA

14:00-14:30

MDI-Based Prepolymers in Adhesive Applications

Colin Groom, Managing Director, Pacific Thai Urethanes

14:30-15:00

BREAK TIME

15:00-15:30

Chemistry of Bio-based Polyurethanes

Dr. Joseph Marcinko, President, Polymer Synergies LLC

APBA CONFERENCE

30-31 MARCH 2026
Kuala Lumpur, Malaysia
World Trade Centre Kuala Lumpur

TechnoBiz
PU
WEEK

3rd Annual Conference of Asian Polyurethane Business Association

30 MARCH 2026 | MONDAY

FREE ENTRY

15:30-16:30

Panel Discussion: Value Creation in a Globally Integrated PU Industry

Moderator: *Stefan Hermes*, Chairman, APBA

Invited Panelists: *Colin Groom* (Industry Practitioner with Global Experience) | *Nikhil Vallabhan* (Asia Polyurethane Outlook) | *Dr. Joseph Marcinko* (Bio-based polyurethane chemistry perspective)

31 MARCH 2026 | TUESDAY

FREE ENTRY

10:30-10:40

Conference Recap & Welcome Remarks

Stefan Hermes, Chairman, Asian Polyurethane Business Association

10:40-11:10

VOC Control in PU Manufacturing: Innovations, Impact & Future

Pathways in Asia | *Omprakash Bhingardeve*, Director Program, Launch & Change office, Adient

11:10-11:40

Synthesis of Bio-based Polyurethane using Microwave Synthesizer and their potential applications | *Dr. Fathilah binti Ali*, Lecturer, Faculty of Engineering IIUM University, Malaysia

11:40-12:10

Sustainable Anticorrosive Polyurethane (PU) Coating derived from Coconut oil | *Sameera Mendis*, Senior Chemist, Mackson Paints

12:10-12:40

Training at Scale: Enabling Safe Diisocyanate Handling Worldwide

Joerg Palmersheim, Secretary-General, ISOPA/ALIPA

12:40-13:30

BREAK TIME

13:30-14:00

Biobased Polyurethanes: Driving Sustainable Innovation in Modern Adhesives

| *Sethu Raaj*, Founder & CEO, Midwest Composites, Malaysia

14:00-14:30

Applications of Cast Polyurethane Elastomers

Daniel Turkovic & Tony Hatzikiriakos, Era Polymers, Australia

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**PU
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3rd Annual Conference of Asian Polyurethane Business Association

31 MARCH 2026 | TUESDAY

FREE ENTRY

14:30-15:00

opPURtunity - PUR/Curing Hot Melt - Production/Development/Market
Paolo Lixandrao, Consultant, Purlix

15:00-15:30

BREAK TIME

15:30-16:30

Panel Discussion: Sustainable Feedstocks in PU: Where Will Scalable Value Be Created?

Moderator: *Stefan Hermes*, Chairman, APBA

Invited Panelists: Joerg Palmersheim (Global safety, training and regulatory perspective) | Fathilah binti Ali (Academic and R&D perspective on bio-based synthesis) | Sethu Raaj (Industrial business perspective on biobased PU in adhesives) | Leo Yang (Market intelligence perspective)

Remark: Organizers reserves the right to adjust the program due to unavoidable circumstances without prior notification

Delegate Registration (FREE) : All polyurethane industry professionals are invited to join the APBA Conference at the Asia Polyurethane & Adhesive Expo 2026, taking place on 30-31 March 2026 in Kuala Lumpur, Malaysia. Entry is free for all pre-registered participants of the Expo. Please register through the provided QR link to receive your entry badge and secure your participation.



Venue: World Trade Centre, Kuala Lumpur

Venue : World Trade Centre Kuala Lumpur, Level 4



Address:
Jalan Putra, Chow Kit
50350 Kuala Lumpur
Malaysia

Conference Chairman :

Stefan Hermes, Chairman, Asian
Polyurethane Business Association (APBA)
Email: stefan.hermes@htcglobal.asia |
Tel/WhatsApp: +66-63 249 9888 Web:
www.apba.online

<https://events.technobiz.org>

APBA CONFERENCE

30-31 MARCH 2026
Kuala Lumpur, Malaysia
World Trade Centre Kuala Lumpur

TechnoBiz
PU
WEEK

3rd Annual Conference of Asian Polyurethane Business Association

Featured Speakers



Bart ten Brink



Dr. Joseph Marcinko



Tony Hatzikiriakos



Daniel Turkovic



Jörg Palmersheim



Leo Yang



Dr. Fathilah binti Ali



Nikhil Vallabhan



Colin Groom



Sethu Raaj



Stefan Hermes



Jose Junior Naraval



Paolo Lixandrao



Sameera Mendis

Contact Information : Peram Prasada Rao, CEO & Founder, TechnoBiz
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NewTech

POLYURETHANES

2026



*A TechnoBiz Conference on
New Polyurethane Technologies & Solutions*

30-31 MARCH 2026
KUALA LUMPUR, MALAYSIA
World Trade Centre Kuala Lumpur

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NewTech

POLYURETHANES

2026

30-31 MARCH 2026
Kuala Lumpur, Malaysia
World Trade Centre Kuala Lumpur

TechnoBiz
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WEEK

A TechnoBiz Conference on New Polyurethane Technologies & Solutions

- **Global PU Technical Solution for Sandwich Panel** | Vincent, Marketing Manager, Shanghai Kaqin Chemical Science & Technology Co., Ltd.
- **Optimizing Polyether Performance: Key Insights into Antioxidant Applications** | Harry Ji, Shanghai Chic New Material Co., Ltd
- **Research Progress and Application of Water-based Release Agents** | Xingwen Shu, Xiamen Kaiping Chemical Co., Ltd.
- **Innovative Solutions for Base Polyols, Rigid and Automotive Applications** | Ryan Huang, Global Marketing Director, Hebei Yadong Chemical Group Co., Ltd
- **Recycled Polyurethane System for Shoe Soles** | Deepak Chopra, JBLD International (P) Ltd
- **New Trends in High Performance Polyol Solutions and Applications for Polyurethane Industry** | Guo Xu, Business Manager, Sinochem Plastics Co., Ltd.
- **Bio-based PU coated Controlled-Release Fertilizer (CRF): Technological Developments in Agriculture Industry** | Dr. Liew Kin Hong, R&D Manager, Growchem Sdn Bhd, Malaysia
- **Developments in High-Performance Melafoam for Fire-Safe, Acoustic and Thermal Applications** | Amit Abu Sadat Md Salehin, Overseas Business Division Sales Manager, GreenCARE International (Guang Zhou) Ltd



Venue : World Trade Centre Kuala Lumpur, Level 4



Address:
Jalan Putra, Chow Kit
50350 Kuala Lumpur
Malaysia

**Delegate
Registration
Free Entry**



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Sustainable PU Industry FORUM

***A TechnoBiz Conference
on Polyurethane Recycling & Sustainability***

1 APRIL 2026

KUALA LUMPUR, MALAYSIA

*Seri Pacific Hotel | 9am-5pm
Hybrid Event*

TechnoBiz
PU
WEEK

In-Coperation with

APBA
Asian Polyurethane
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Sustainable PU Industry FORUM

A TechnoBiz Conference on Polyurethane Recycling & Sustainability

1 APRIL 2026
Kuala Lumpur, Malaysia
Seri Pacific Hotel | Hybrid Event

TechnoBiz
PU
WEEK

08:30-09:00

Delegate & Speaker Registration

09:00-09:10

Welcome Remarks

Stefan Hermes, Chairman, Asian Polyurethane Business Association

09:10-09:40

Polyurethane Recycling: Current Realities and Future Potential Pathways

Damir Andrasek, Chief Communications Officer, EUROPUR

09:40-10:10

Recycling for Sustainable Polyurethanes in India

Harneet Kochar, President, Indian Polyurethane Association (IPUA)

10:10-10:40

Global Regulatory Update on Diisocyanates

Joerg Palmersheim, Secretary-General, ISOPA/ALIPA

10:40-11:00

COFFEE/TEA BREAK

11:00-11:30

Where Chemistry meets Sustainability: Biobase Precursors for PU

Nandini Dutta, Technical Expert

11:30-12:00

AI in Sustainability in the PU Industry

Stefan Hermes, Managing Director, HTC Global, Thailand

12:00-12:30

Innovative PU and LWC Recycling Processes and their Role in the Circular Economy

Davorin Kralj, Business Consultant/ Associate Professor, Institute for Creative Management

12:30-13:30

LUNCH BREAK

<https://events.technobiz.org>

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1 APRIL 2026
Kuala Lumpur, Malaysia
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WEEK

13:30-14:00

EPR in PU: From Regulatory Pressure to Value Creation at Kimpur
Ahmet Erayvaz, Product Management Specialist, Kimpur

14:00-14:30

The IKEA Way: Developing Circular Foams, One Cushion at a Time
Jose Junior Naraval, Material and Technology Engineer for Foams, IKEA

14:30-15:00

COFEE/TEA BREAK

15:00-16:30

Panel Discussion: Is Polyurethane a Sustainable Material Choice?

Moderator: *Stefan Hermes, Chairman, APBA*

Invited Panelists

- Harneet Kochar (Chairman IPUA)
- Ahmet Erayvaz (Sustainability systems and regulatory frameworks)
- Davorin Kralj (Recycling systems and environmental management)
- Sameera Mendis (Innovation and Green Chemistry)

16:30-16:45

Closing Session

Remark: Organizers reserves the right to adjust the program due to unavoidable circumstances without prior notification

Registration Fee:

- 500 US\$/Person (In-Person Participation)
Registration fee includes lunch and refreshments during the program.
- 750 US\$/Person (Online Participation)

Remarks: Group Discount applies for a group of 3 or more from same organization. Taxes apply on above registration fees. **APBA Members** receive 10% discount on the registration fees.

Delegate
Registration



Venue : Seri Pacific Hotel, Kuala Lumpur



Address:
Jalan Putra, Chow Kit
50350 Kuala Lumpur
Malaysia

Conference Chairman :

Stefan Hermes, Chairman
Asian Polyurethane Business Association (APBA)
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Sustainable PU Industry FORUM

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Contact Information

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Instagram: [technobiz_official](https://www.instagram.com/technobiz_official) | LinkedIn: TechnoBiz Polyurethane Network

<https://events.technobiz.org>

POLYURETHANE TRAINING

*TechnoBiz Training Courses
for PU Industry Professionals*

1-2 APRIL 2026

KUALA LUMPUR, MALAYSIA

*Seri Pacific Hotel | 9am-5pm
Hybrid Event*

TechnoBiz
PU
WEEK



POLYURETHANE TRAINING

1-2 APRIL 2026
Kuala Lumpur, Malaysia
Seri Pacific Hotel | Hybrid Event

TechnoBiz Training Courses for PU Industry Professionals

TechnoBiz
PU
WEEK

As part of TechnoBiz PU Week 2026, a series of specialized professional short training courses will be organized on 1-2 April 2026 in Kuala Lumpur, Malaysia. These courses are designed for professionals working in the polyurethane industry, offering in-depth learning on polyurethane chemistry, raw materials, processing, adhesives, foams, and fire resistance. Each course will be conducted by renowned international experts with extensive industrial and academic experience, providing participants with valuable technical insights and practical knowledge to enhance their professional expertise.

COURSE SCHEDULES & TOPICS

Applied Polyurethane Chemistry

1 April 2026 | 9am -5pm | Speaker: Dr. Joseph Marcinko
Registration Fee: 400 US\$/Person

Rigid Polyurethanes - Science & Technology

1 April 2026 | 9am-5pm | Speaker: Dr. Grazyna Mitchener
Registration Fee: 400 US\$/Person

Rigid Polyurethanes with Improved Fire Resistance

2 April 2026 | 9am-5pm | Speaker: Dr. Grazyna Mitchener
Registration Fee: 400 US\$/Person

Polyurethane Adhesives, Binders, Sealants, and Coatings

2 April 2026 | 9am -5pm | Speaker: Dr. Joseph Marcinko
Registration Fee: 400 US\$/Person

Flexible PU Foam Plant Yield Optimization & Theory of Constraints

2 April 2026 | 9am -12pm | Speaker: Stefan Hermes
Registration Fee: 300 US\$/Person

Polyurethane Industry Safety

2 April 2026 | 2pm-5pm | Speakers : Jörg Palmersheim , Stefan Hermes
Registration Fee: 200 US\$/Person

Speakers



Dr. Joseph Marcinko



Dr. Grazyna Mitchener



Stefan Hermes



Jörg Palmersheim

Delegate Registration



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POLYURETHANE TRAINING

1-2 APRIL 2026
Kuala Lumpur, Malaysia
Seri Pacific Hotel | Hybrid Event

TechnoBiz
PU
WEEK

TechnoBiz Training Courses for PU Industry Professionals

Applied Polyurethane Chemistry | 1 April 2026 | 9am -5pm

Speaker: Dr. Joseph Marcinko | Registration Fee: 400 US\$/Person

Molecular Architecture of Polyurethanes | Isocyanate Chemistry, Structure, and Manufacture | Polyol Types and Molecular Structure | Polyurethane Catalysts | Phase Separation in Polyurethanes (Rigid vs Flexible Domains) | Processing-Structure Relationships | Morphology and Molecular Motion | Hydrogen Bonding in Polyurethanes | Polyurethane Materials and Applications | Measurement of Physical Properties of Polyurethanes | Thermal Analysis of Polyurethanes | Characterization Techniques for Polyurethanes

Rigid Polyurethanes - Science and Technology | 1 April 2026 | 9am-5pm

Speaker: Dr. Grazyna Mitchener | Registration Fee: 400 US\$/Person

Fundamentals of Rigid Polyurethanes | Chemistry Theory of Rigid Polyurethanes | Types of Rigid Polyurethanes | Raw Materials for Rigid Polyurethane Systems | Formulation Principles of Rigid Polyurethanes | Processing Methods for Rigid Polyurethanes | Applications of Rigid Polyurethanes | Polyurethane Thermal Insulation: Heat Transfer Theory | Thermal Insulation Polyurethane Products | Improving Thermal Conductivity by Formulation Optimization | Improving Thermal Conductivity by Processing Optimization | Recycling of Rigid Polyurethanes | Development Trends in the PU Thermal Insulation Industry

Rigid Polyurethanes with Improved Fire Resistance | 2 April 2026 | 9am-5pm

Speaker: Dr. Grazyna Mitchener | Registration Fee: 400 US\$/Person

Fundamentals of Fire: Nature, Behavior, and Prevention Principles | Fire Resistance Testing Methods and Standards | Fire Retardants for Polyurethanes: Types, Properties, and Applications | Fire-Resistant PU Formulation and Product Design Principles | Advanced Materials and Technologies for Improved PU Fire Resistance | Polyisocyanurate (PIR) Chemistry: Basic Theory | Properties and Performance of PIR Products | Comparison of PUR and PIR Technologies | PIR Formulations and Raw Material Selection | Manufacturing Equipment and Processing for PIR Production | Case Study: Grenfell Tower Fire (London, 2017) and Its Impact on the PIR Industry

Polyurethane Adhesives, Binders, Sealants, and Coatings | 2 April 2026 | 9am-5pm

Speaker: Dr. Joseph Marincko | Registration Fee: 400 US\$/Person

Adhesion fundamentals, mechanisms, and failure modes | Surface energy, wetting, and surface preparation methods | Chemistry and structure-property relationships of PU systems | Viscoelasticity, rheology, and time-temperature effects | Adhesive testing and PU characterization techniques | Polyurethane adhesives and binders: types and applications | One- and two-component PU systems and curing behavior | Hot-melt PU adhesives and water-borne PU dispersions | PU sealants, silane-modified polymers, and coating principles | Thermal analysis of polyurethanes for performance optimization

Flexible PU Foam Plant Yield Optimization & Theory of Constraints | 2 April 2026 | 9am -12pm

Speaker: Stefan Hermes | Registration Fee: 300 US\$/Person

Material balance fundamentals in flexible PU foam production | Input-output analysis, losses, and yield calculation methods | Tracking material flow, loss points, and yield gaps in PU plants | Practical yield improvement strategies in flexible PU foam manufacturing | Theory of Constraints (TOC): concepts and relevance to PU operations | Identifying bottlenecks and constraints in foam production processes | TOC Five Focusing Steps and tools for constraint analysis | Common yield loss causes: mixing, curing, and quality-related issues | Structured troubleshooting, root cause analysis, and corrective actions | KPIs, Lean-Kaizen integration, and building a continuous improvement culture

Polyurethane Industry Safety | 2 April 2026 | 2pm-5pm

Speakers : Jörg Palmersheim , Stefan Hermes | Registration Fee: 200 US\$/Person

Safe handling of isocyanates (MDI/TDI) and understanding health hazards | Proper storage and moisture control of PU raw materials | Managing reaction and exothermic process risks | Fire and explosion prevention in PU plants | Effective ventilation and engineering safety controls | Personal Protective Equipment (PPE) and exposure prevention | Emergency response, spill control, and incident management

POLYURETHANE TRAINING

1-2 APRIL 2026
Kuala Lumpur, Malaysia
Seri Pacific Hotel | Hybrid Event

TechnoBiz
PU
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TechnoBiz Training Courses for PU Industry Professionals

Dr. Joseph Marcinko : Dr. Marcinko has over 40 years of experience in industrial R&D, research management, and academia. In 2000, he founded Polymer Synergies, a global consulting and contract R&D company specializing in polyurethane chemistry, adhesion science, bio-polymer adhesives, wood and agricultural fiber composites, and polymer characterization. He has authored more than 60 peer-reviewed publications and holds 22 patents, with two pending. He serves as an adjunct instructor at The University of Akron and develops industrial short courses on polyurethane and polymer chemistry, biopolymer adhesives, coatings, and adhesion science. His work follows a strong Structure-Property approach to developing advanced polymer systems. Earlier in his career, he was a Senior Scientist and Research Manager at ICI Polyurethanes (later Huntsman Polyurethanes). He earned his Ph.D. from The University of Akron, an M.S. from Case Western Reserve University, and B.S. degrees in Biology and Chemistry from King's College, USA.

Dr. Grazyna Mitchener : Dr. Grazyna Mitchener, is the director and principal consultant in Polychemtech Ltd. – a technical and business consultancy specializing in innovative polyurethane technologies and other high performance polymeric products. From 1996 to 2008 she worked for Celotex in UK, developing first in Europe zero-ODP PIR rigid thermal insulation products. For the first ten years of her career she was an academic researcher and lecturer and worked on polymers with high heat and fire resistance. She gained her Ph.D. in Polymer Chemistry and Technology in 1992. She is the author of 8 patents and over 60 scientific papers, conference presentations and training workshops. For her contribution to the thermal insulation industry she was presented with the “Global Insulation Personality of 2014” award.

Stefan Hermes : Stefan Hermes is a highly experienced polyurethane (PU) industry executive and thought leader with deep expertise in foam supply chain management, operations, and global market strategy. He previously served as CEO & Vice President – Foam Supply Chain & Operations at King Global Incorporate, where he led production excellence, supply chain optimization, and greenfield foaming operations in Thailand since 2020. Earlier, as Executive Vice President – Global Supply Chain & Business Excellence at FoamPartner, Switzerland, he oversaw global footprint strategy, procurement, safety governance, and operational excellence across multiple regions. Since 2024, he has established HTC Global, a Thailand-headquartered consulting firm serving the global polyurethane industry. He is also co-founder and current Chairman of the Asian Polyurethane Business Association (APBA), promoting collaboration and knowledge exchange across Asia. With extensive international leadership experience, Stefan is widely regarded as one of the respected voices in the polyurethane foam value chain.

Jörg Palmersheim : Jörg Palmersheim leads as Secretary General of ISOPA and ALIPA the industry associations since January 1st 2013. Under Jörg's leadership ISOPA and ALIPA successfully launched the digital platform for the training of the safe use of diisocyanates, to the benefit of safety and health of millions of workers across Europe. He also conducted the establishment of ISOPA as an independent non-for-profit entity and drove the 10 year journey of advocacy on the REACH regulation on Diisocyanates as well as for Occupational Exposure Limit Value on Diisocyanates.

Delegate Registration



Contact Information

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The TechnoBiz Knowledge Test on Polyurethane Technology is a professional assessment program designed to evaluate the applied knowledge and technical skills of individuals involved in polyurethane production, R&D, and applications. It covers key areas including PU chemistry, raw materials, foam and CASE systems, processing technologies, sustainability, and innovations. Participants can assess their competency and earn a TechnoBiz Knowledge Test Certificate, recognized as a mark of technical excellence in the global PU industry.

This test will be conducted as part of TechnoBiz PU Week 2026, to be held in Kuala Lumpur, Malaysia. Free registration – all interested participants are welcome to join.

📌 Test Details:

- Dates: 30–31 March 2026
- Venue: Putra World Trade Centre, Kuala Lumpur
- Total Duration: 4 hours (8 parts × 30 minutes each)
- Format: Multiple Choice & True/False Questions
- Mode: Onsite participation only (physical presence required)

🏆 **Winner Reward:** The top scorer will receive a US\$ 500 cash prize and a Certificate of Excellence, honoring outstanding performance and deep understanding of polyurethane technology.

Test Schedule

30 March 2026 – Fundamentals & Core Applications

- 11:00 – 11:30 | Part 1: Fundamentals of Polyurethane Chemistry
- 13:00 – 13:30 | Part 2: Raw Materials and Additives
- 14:00 – 14:30 | Part 3: PU Foam Systems and Processing
- 15:00 – 15:30 | Part 4: PU Coatings and Surface Technologies

31 March 2026 – Advanced Topics & Future Directions

- 11:00 – 11:30 | Part 5: PU Adhesives, Sealants & Elastomers (CASE)
- 13:00 – 13:30 | Part 6: PU Processing & Troubleshooting
- 14:00 – 14:30 | Part 7: Sustainable PU Technologies & Recycling
- 15:00 – 15:30 | Part 8: Advanced & Emerging PU Innovations

Pre-Registration: Interested participants must pre-register by emailing peram.technobiz@gmail.com (please include your name, organization, role, and contact number).

Who Should Participate: Professionals, researchers, and students involved in polyurethane production, formulation, processing, and applications — including engineers, chemists, R&D staff, and quality or technical managers.





Membership Form



The Asian Polyurethane Business Association (APBA) is a dedicated platform established to connect, support, and advance the polyurethane industry across Asia. Its core objective is to foster collaboration among manufacturers, suppliers, researchers, and business leaders while promoting knowledge exchange, industry standards, and sustainable growth. APBA offers two life-membership options—Corporate Member (1,000 USD) and Professional Member (500 USD)—each requiring a one-time payment. These memberships remain valid for the entire duration of APBA's existence. The membership program officially begins in January 2026. More information is available at www.apba.online. For more information, please contact *Stefan Hermes*, Chairman, APBA (Email: stefan.hermes@htcglobal.asia)

PU Review is a weekly e-magazine published by TechnoBiz, dedicated to keeping polyurethane industry professionals informed, connected, and inspired. Each issue features insightful cover story interviews with global experts, up-to-date business news, and practical technical articles covering materials, processes, markets, and innovations. The magazine also offers valuable advertising opportunities for companies at a fixed annual fee of 1,000 USD or onetime fee of 3000 USD for life, with APBA members enjoying a 35% discount. For advertising and editorial inquiries, please contact *Peram Prasada Rao* at peram.technobiz@gmail.com.

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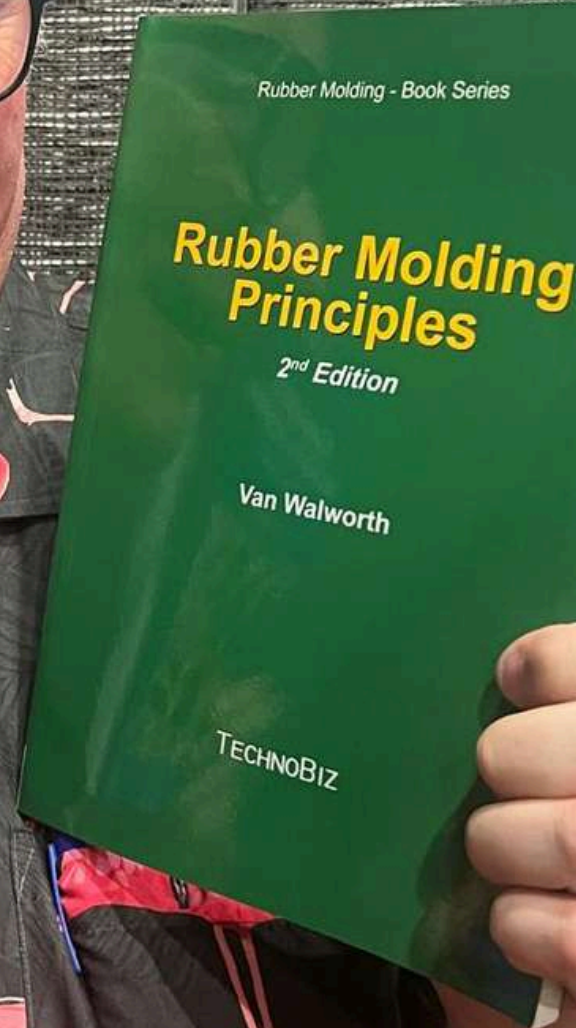
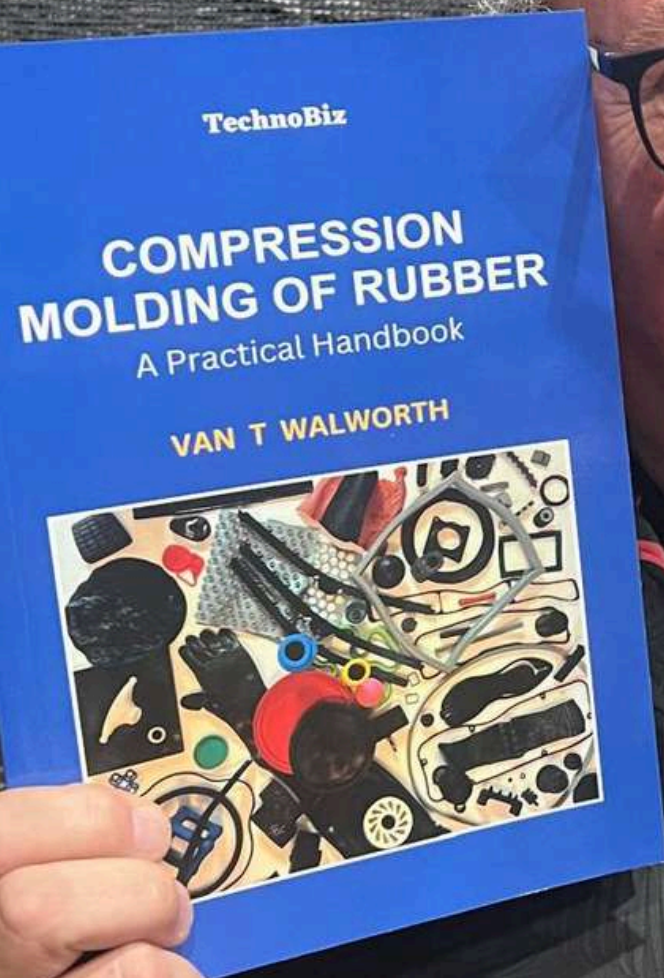
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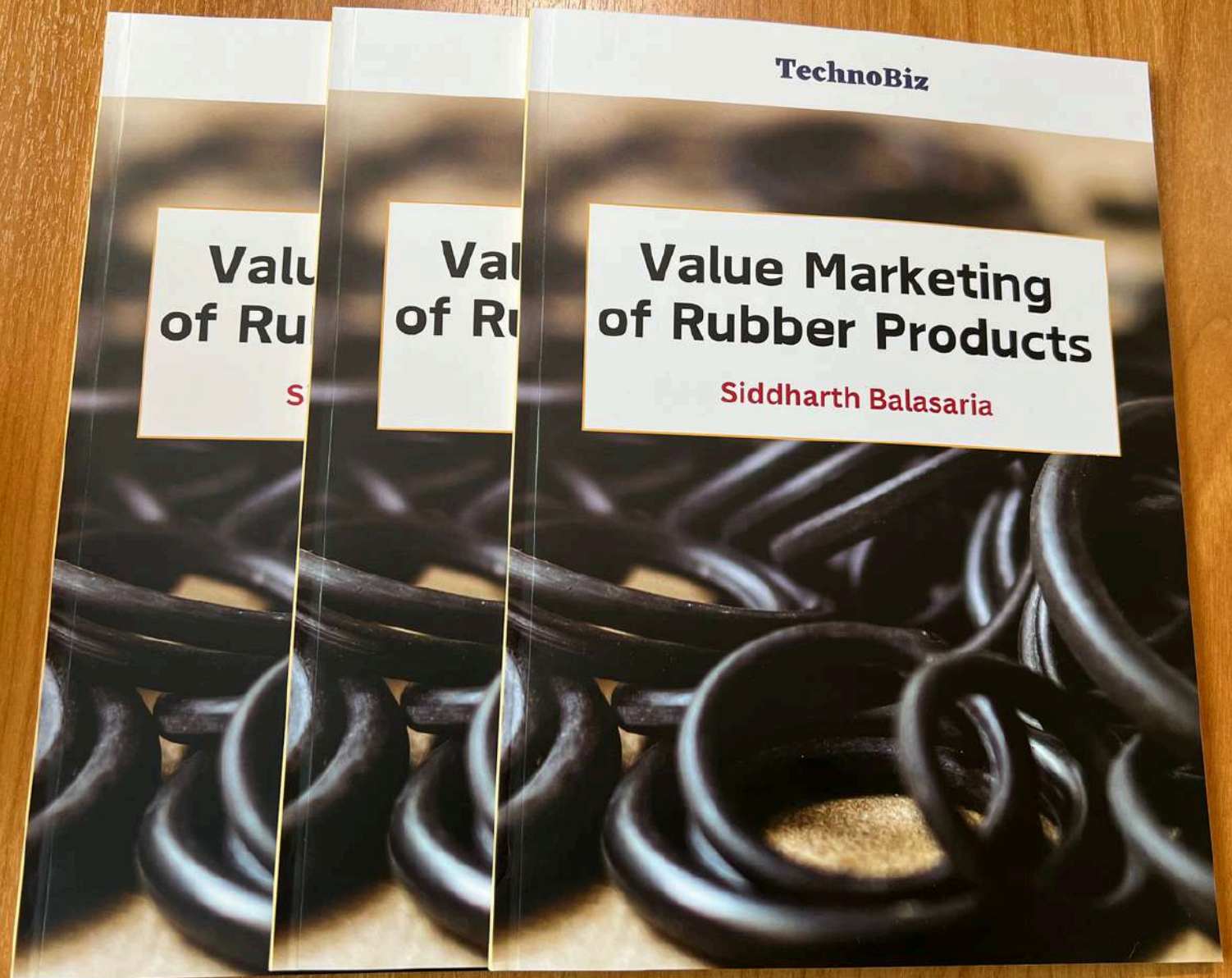
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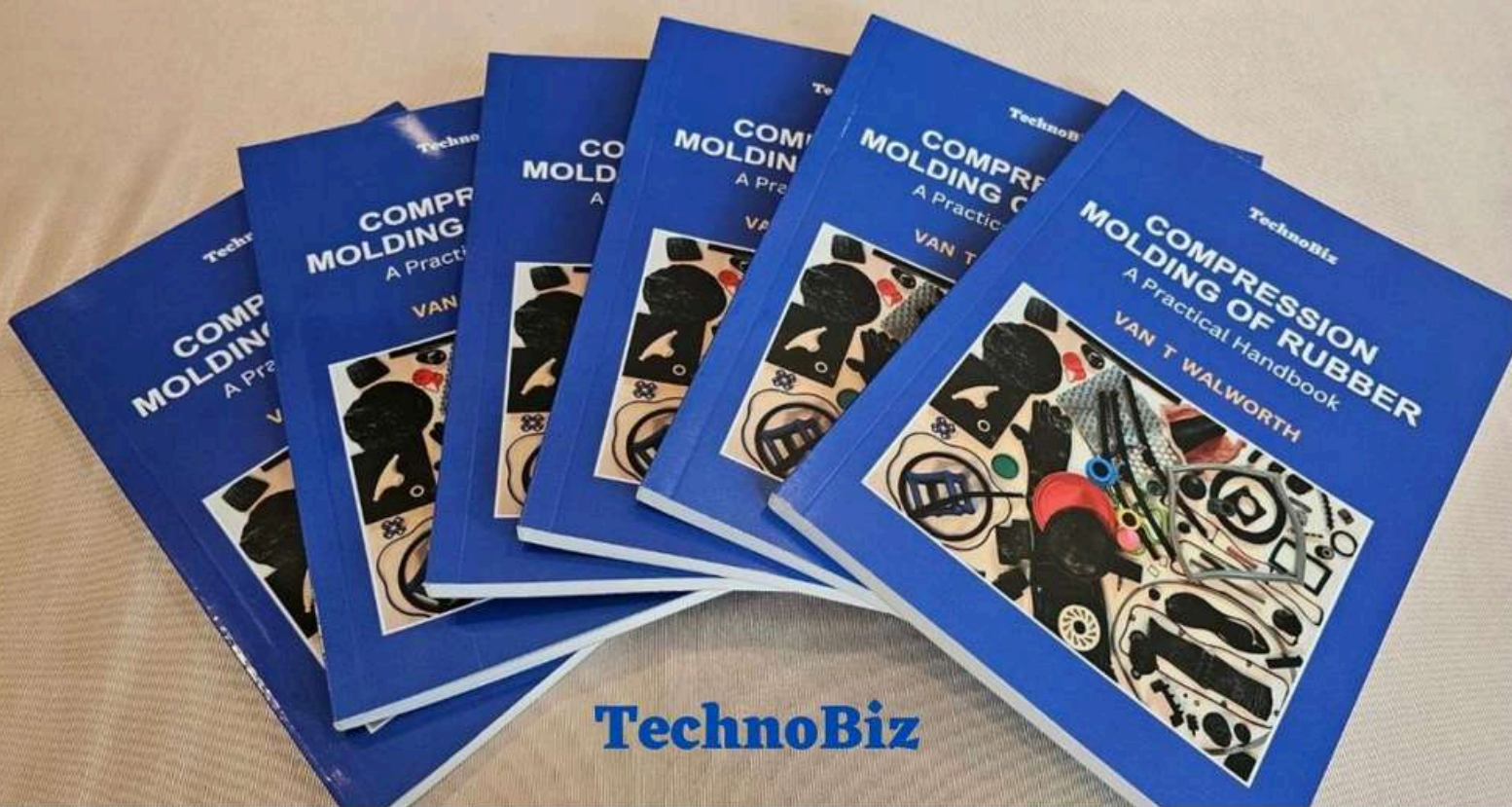




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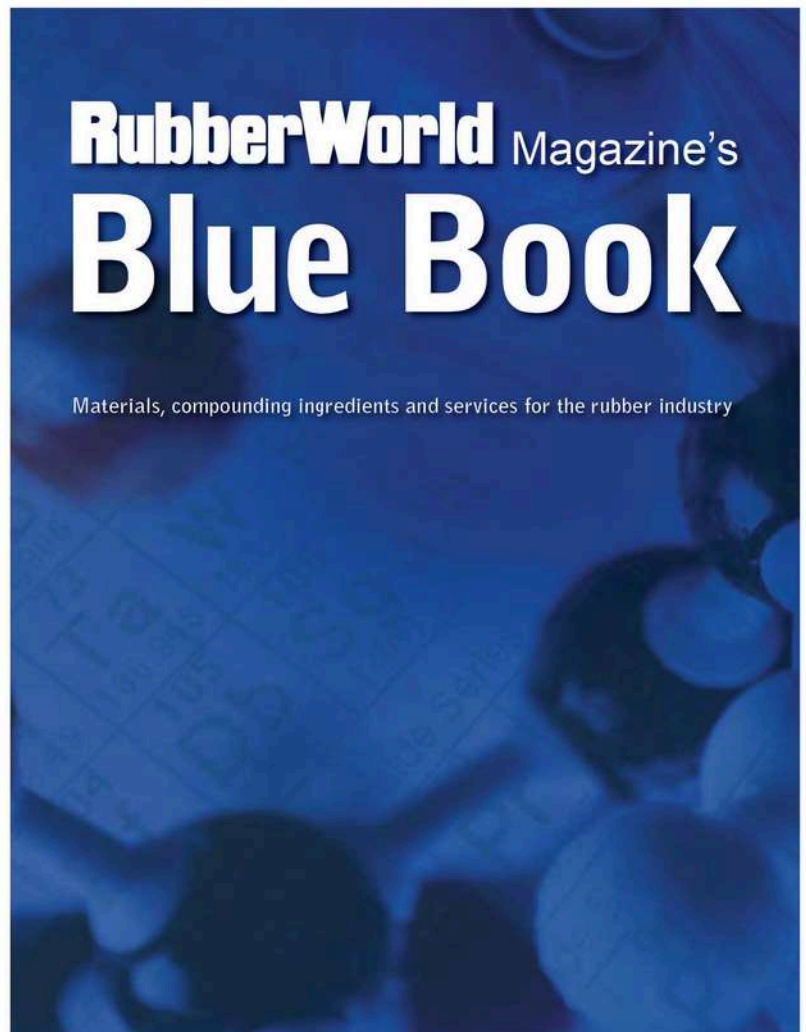
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