

GRTE 2023 - CONFERENCE PROGRAM

DAY 1 / 29 MARCH 2023 / WED

FREE ENTRY

CONFERENCE ROOM 1

- 11:10-11:30 : **A Brief Guideline on How to Choose Plasticizer for NBR Compound** (*Eric Lee, Sales Manager, The Hallstar Company, USA*)
- 11:30-11:50 : **Sulfur Silane : An Introduction** (*Jhieh Wei Wang, Sales Manager, Jiangxi Hungpai New Material Co., Ltd., China*)
- 11:50-12:10 : **Latex Additives for Improved Processing Properties and Environmental Concerns** (*Eleonora Bader, Technical Sales Manager, Schill+Seilacher "Struktol" GmbH, Germany*)
- 12:10-12:30 : **Puncture Sealant based on Natural Rubber Latex** (*Dr. Angel J. Jimenez, Manager-Laboratory Department, Dunlop Tech GmbH, Germany*)
- 13:30-13:50: **Next Generation Sustainable Process Oils for Tire and Rubber Industry** (*Dr. Cristina Bergmann, Business Development Director-Process Oils, Ergon International Inc., USA*)
- 13:50-14:10 : **(Thai) Developments in Rubber Processing & Technology** (*Viriyah Wongrattanaphipat, Falcon East Co., Ltd., Thailand*) (RTAC Session)
- 14:10-14:30 : **Coaching & Mentoring Need for Executives & Managers in Rubber & Latex Industries** (*Anil Skariah, Latex Industry Consultant, Thailand*)
- 14:30-14:50 : **Latex Compounding for Tyre Applications** (*Dr. Luciano Tadiello, Innovative Materials Researcher, Pirelli Tyre S.p.A. R&D Center, Italy*)
- 15:10-15:30 : **Ecology, Cost-efficiency, Optimization-ECO Trendy Rubber Chemicals of Cosmos** (*Hung-Wei Lin, Area Manager, Cosmos Chemical Co., Ltd., Taiwan*)
- 16:00-16:20: **Development of Green and Low-Carbon Synthetic Rubber** (*Allen Chen, International Market Manager, Chambroad Sinopoly, China*)
- 16:20-16:40: **Reduce Cycle Time & Eliminate Defects in an Over-Molding Rubber Product** (*Dr. Wisawat Keaswejjareansuk, Business Development Manager, Sigma Solutions Co., Ltd., Thailand*)

CONFERENCE ROOM 2

- 11:30-11:50 : **Micronised Rubber Powder: A New Age Sustainable Raw Material** (*Subodh Sharma, Chief Operating Officer, Tinna Rubber & Infrastructure Ltd, India*)
- 11:50-12:10 : **Indian Rubber Industry : Current Outlook and Opportunities** (*Kamlesh Jain, Managing Director, Holdwell Components Pvt. Ltd., India*)
- 12:10-12:30: **Efficient Sample Preparation in Rubber Laboratories** (*Ralf Baeuerlein, Director, Montech, Germany*)
- 13:30-13:50 : **Introduction to RubberTech PSU Pattani** (*Dr. Anuwat Seatung, Assistant Professor, Prince of Songkla University - Pattani Campus, Thailand / Dr. Sitisaiyidah Saiwari, Prince of Songkla University - Pattani Campus, Thailand*)
- 13:50-14:10: **Rubber Gloves Recycling and their Applications** (*Dr. Sitisaiyidah Saiwari, Prince of Songkla University - Pattani Campus, Thailand*)
- 14:10-14:30: **Past, Present and Future of Silica-Reinforced Natural Rubber Tire Compounds** (*Dr. Kannika Sahakaro, Associate Professor, Prince of Songkla University - Pattani Campus, Thailand*)
- 14:30-14:50 : **Upcoming of Natural Rubber Products: Natural-based Filler, Engineering Application, Elastic Foam and Thermoplastic Elastomer** (*Dr. Karnda Sengloyluan, Prince of Songkla University, Songkhla, Thailand*)
- 15:10-15:30 : **Malaysia Rubber Industry : Current Outlook and Opportunities** (*KK Yeaw, President, Malaysia Rubber Products Manufacturers Association, Malaysia*)
- 16:00-16:20: **Study on Heat Build-up Properties by using Rubber Process Analyzer** (*Ajay C, Senior Scientist, Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI),, India*)
- 16:20-16:40: **Latest Developments in Semi-Permanent Release Agent & Bonding Agents for Molded Rubber Products** (*Blunt Mou, Deputy General Manager, Shanghai Lorechem Co., Ltd., China*)

14:00-17:00

**Wacker Chemie AG - Seminar on
 " Silicones for EV Cars"**

(for Invited Customers only) (BITEC, 2nd Floor)

DAY 2 / 30 MARCH 2023 / THU

FREE ENTRY

CONFERENCE ROOM 1

- 11:10-11:30 : **New Functionalized STRUKTOL Performance Liquids for Better Processability and Performance Properties of Rubber** (*Eleonora Bader, Technical Sales Manager, Schill+Seilacher "Struktol" GmbH, Germany*)
- 11:30-11:50 : **Sustainable Initiatives of GRI - a Leading Tire Manufacturer from Sri Lanka** (*Dr. Sisira Ranatunga, Group Head-Technical, GRI Tyres, Sri Lanka*)
- 11:50-12:10 : **Developments in Processing Aids for Rubber Industry** (*Leong Chee Seng, R&D Director, Anjene Technologies, China*)
- 12:10-12:30 : **PLYTEC™ Alternative to Nylon in Motor Cycle Carcass Application** (*Glenn Lim, Technology Director, Indorama Ventures Limited, Thailand*)
- 13:30-13:50 : **Conductive Rubber Nanocomposites and Smart Rubber Materials** (*Dr. Subhan Salaeh, Assistant Professor, Prince of Songkla University - Pattani, Thailand*)
- 13:50-14:10 : **The Evolution of Rubber Process Oils: Solvency, Viscosity, Volatility, and the Changing Landscape of Global Oil Refining Chemistries** (*Nick White, Vice President of Business Development, Process Oils, Ergon, Inc., USA*)
- 14:10-14:30 : **SBE Product Portfolio and Sustainability Topics/Actions** (*Steven Vanhamel, International Sales Manager, Sumitomo Bakelite Europe NV., Belgium*)
- 14:30-14:50 : **How does TAG Chemicals contribute to General Tire Production and Tire Industry 4.0** (*Andreas Kemper, President, TAG Chemicals GmbH, Germany*)
- 14:50-15:10 : **Elucidating degradation phenomena during Mixing of Silica-reinforced Natural Rubber: Measuring changes of the Dynamic Responses** (*Ammarin Kraibut, Researcher, Prince of Songkla University - Pattani, Thailand*)
- 15:10-15:30 : **The Rubber Process Analyzer: 30 years of Driving Out Variation** (*Dilip Dhupia, Application Specialist, Alpha Technologies Inc., United States*)
- 16:00-16:20 : **Innovative Natural Rubber Products: Conductivity, Antibacterial properties, Self-Healing and Biodegradability** (*Dr. Yeampon Nakaramontri, Assistant Professor, King Mongkut's University of Technology Thonburi (KMUTT), Thailand*)
- 16:20-16:40 : **Power of Secondary Hybrid Filler on Improvement Properties of Tire Tread Compound** (*Dr. Suppachai Sattayanurak, Thaksin University, Songkhla, Thailand*)
- 16:40-17:00 (Thai): **Opportunity for Combination of Natural Rubber with Biomass for Product Expansion** (*Dr. Chalao Thepchalerm, Srinakharinwirot University, Thailand*)

CONFERENCE ROOM 2

- 11:10-11:30 : **Advanced Dynamic Test Methods with the D-RPA 3000 Rubber Process Analyzer** (*Ralf Baeuerlein, Director, Montech, Germany*)
- 11:30-11:50 : **Developments in Rubber-to-Metal / Rubber-to-Rubber Cold-Bond (CB) Adhesives** (*Subir Kumar Chaudhuri, Technology Manager, Parker Lord, India*)
- 11:50-12:10 (Thai): **Development of Innovative Natural Rubber Products Correlating to Multipurpose of Context Community** (*Dr. Weerawut Naebpetch, Thaksin University, Songkhla, Thailand*)
- 12:10-12:30 : **Development of Natural Rubber Formulation Combined with Natural-based Oil Compounds** (*Dr. Siwarote Boonrasri, Assistant Professor, Maejo University, Thailand*)
- 13:30-13:50 : **Understanding the Viscoelastic Behaviour as a Quality Predictor in Rubber Compounds and Vulcanizates** (*Dr. Chakrit Sirisinha, Head, Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 13:50-14:10 : **Field Test of Tyres for Electric Motor-Cycle** (*Tusanai Boonkerdrattanasakull, Researcher, Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 14:10-14:30 : **Surface Modifications of Natural Rubber and Their Adhesions to Synthetic Elastomers** (*Dr. Sombat Thanawan, Associate Professor, Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 14:30-14:50 : **Insight into the Change in Allergenic Proteins of Natural Rubber under Electron Beam Irradiation** (*Dr. Adun Nimpaiboon, Researcher, Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 14:50-15:10 : **Surface Properties for Adhesion Improvement** (*Dr. Supa Wirasate, Associate Professor, Chemistry Dept & Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 15:10-15:30 : **Analysis of Rubbers and Rubber Products by Pyrolysis-GC-MS** (*Dr. Manus Sriring, Researcher, Rubber Technology Research Centre (RTEC), Mahidol University, Thailand*)
- 15:30-15:50 : **Research Facilities & Collaborative Opportunities at Rubber Technology Research Centre (RTEC), Mahidol University** (*Dr. Chakrit Sirisinha, Head, Rubber Technology Research Centre, Mahidol University, Thailand*)
- 15:50-16:10 : **Circular Economy, Role of Reclaimed Rubber in Meeting Sustainability, Technological & Regulatory Challenges** (*Kalyan Das, Head - Sales & Business Development, GRP Limited, India*)

DAY 3 / 31 MARCH 2023 / FRI

FREE ENTRY

CONFERENCE ROOM 1

- 10:50-11:10 : **Value added De-Vulcanized Rubber from Nitrile Gloves** (*Anil Skariah, Latex Industry Expert, Thailand*)
- 11:10-11:30 : **Sri Lanka Rubber & Tyre Industry : Outlook & Opportunities** (*Dr. Sisira Ranatunga, Group Head - Technical, GRI Tyres, Sri Lanka*)
- 11:30-11:50 : **A Faster, Easier and more Accurate Alternative to DMA for Low Temperature Testing** (*Dilip Dhupia, Application Specialist, Alpha Technologies Inc., United States*)
- 13:50-14:10 : **Rubber Developments from L Eternal Co., Ltd.** (*Sirilak Lee, Assistant Managing Director, L. Eternal Co., Ltd., Thailand*)
- 14:30-16:00 (Thai) : **Developments in Rubber Processing & Technology (RTAC Industry Session - Part 2)**
- Nontasak Somkuea, Rubber Industry Consultant
 - Surachet Pariyacharttrakul, Deestone Tires
 - Keeratiya Kornchanachai, Asia Polycom Co., Ltd.

CONFERENCE ROOM 2

- 10:30-10:50: **Modification of ZnO Nanoparticle for Improving Properties of Rubber Products** (*Dr. Yeampon Nakaramontri, Technical Consultant, Global Chemical Co., Ltd., Thailand*)
- 10:50-12:20 (Thai): **Developments in Rubber Processing & Technology (RTAC Industry Session - Part 1)**
- Nontasak Somkuea, Rubber Industry Consultant
 - Surachet Pariyacharttrakul, Deestone Tires
 - Keeratiya Kornchanachai, Asia Polycom Co., Ltd.
- 13:50-14:50 : **Mechanical Testing of Rubber - Good Laboratory Practices** (*Ajay C, Senior Scientist, Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI),, India*)

RESEARCH & INNOVATIONS - POSTER ZONE

Enhancing the Flame Retardancy of Natural Rubber Latex Foam using Layered Double Hydroxide (*Dr. Adun Nimpaiboon, Rubber Technology Research Centre, Mahidol University, Thailand*)

The Effect of Lipase Treatment on Storage Hardening and Mechanical Properties of Natural Rubber (*Dr. Adun Nimpaiboon, Rubber Technology Research Centre, Mahidol University, Thailand*)

Quantitative Analysis of Proteins in Natural Rubber by Pyrolysis-Gas Chromatography-Mass Spectrometry (*Dr. Adun Nimpaiboon, Rubber Technology Research Centre, Mahidol University, Thailand*)

Pre-vulcanisation of Large and Small Natural Rubber Particles : Their Film Formation Behaviours, Mechanical Performances and Micro-structures (*Manus Sriring, Rubber Technology Research Centre, Mahidol University, Thailand*)

Anti-microbial with Enhanced Mechanical Properties of Peroxide Pre-vulcanised Natural Rubber (*Dr. Supa Wiraset, Rubber Technology Research Centre, Mahidol University, Thailand*)

Effect of Silica on Adhesion between Chlorinated Natural Rubber and Ethylene Methyl Acrylate Copolymer (*Dr. Sombat Thanawan, Rubber Technology Research Centre, Mahidol University, Thailand*)

Preparation of Ground Tire Rubber/Natural Rubber Composites from Natural Rubber Latex (*Dr. Sombat Thanawan, Rubber Technology Research Centre, Mahidol University, Thailand*) (P)

Development of Self-healing Natural Rubber (*Dr. Preeyanuch Jankong, Rubber Technology Research Centre, Mahidol University, Thailand*) (P)

The Influence of Modified Soybean Oil as Processing Aids in Tire Application (*Dr. Siriwong, C., Khansawai, P., Boonchiangma, S., Sirisinha, C., Sae-oui, P., Rubber Technology Research Centre, Mahidol University, Thailand*) (P)

Cure Retardation of Peroxide-Cured Silica-filled Natural Rubber Influenced by Organosilane (*Pattanawanidchai, S., Sae-Oui, P., Sirisinha, C., Siriwong, C., Rubber Technology Research Centre, Mahidol University, Thailand*) (P)

Performance Evaluation with Active, Nano and Functionalized ZnO as a more Sustainable Cure Activator in SBR Vulcanizates (*Sreethu T K, Senior Research Scholar, Rubber Technology Centre, IIT Kharagpur, India*) (P)

Exploring the Applicability of Hybrid Crosslinking Systems in EPDM Composites: A Statistical Approach (*Arshad Rahman Parathodika, Researcher, Rubber Technology Centre, IIT Kharagpur, India*) (P)

RESEARCH & INNOVATIONS - POSTER ZONE FREE ENTRY

Essential Roles of DPG in Silica-Reinforced Tire Tread Compounds (Dr. Kannika Sahakaro, Prince of Songkla University, Pattani, Thailand)

Degradation Phenomena during Mixing of Silica-filled Natural Rubber as Evaluated by its Dynamic Responses (Dr. Kannika Sahakaro, Prince of Songkla University, Pattani, Thailand)

A Comparative Study on Foaming and Mechanical Properties of Clay/NR and Cellulose Nanofiber/NR Nanocomposite Foams (Dr. Natinee Lopattananon, Prince of Songkla University, Pattani, Thailand)

Eco-Friendly Rubber Insulation based on Natural Rubber (Dr. Natinee Lopattananon, Prince of Songkla University, Pattani, Thailand)

Preparation of Chlorinated Epoxidized Natural Rubber by using In-situ Chloride-ion Generated Substances (Dr. Anoma Thitithammawong, Prince of Songkla University, Pattani, Thailand)

Investigation of Mechanical, Rheological and Morphological Properties of Reclaimed Ground Tire Rubber filled Natural Rubber/Polypropylene Dynamic Vulcanizates (Dr. Anoma Thitithammawong, Prince of Songkla University, Pattani, Thailand)

The Utilization of Bottom Ash as a Filler in Rubber Flooring Products (Dr. Adisai Rungvichaniwat, Prince of Songkla University, Pattani, Thailand)

Effects of Carbon Black Contents on Transmissibility of Natural Rubber Vulcanizates (Dr. Tultapong Tulyapitak, Prince of Songkla University, Pattani, Thailand)

Effects of Crosslink Density on Transmissibility of Natural Rubber Vulcanizates (Dr. Tultapong Tulyapitak, Prince of Songkla University, Pattani, Thailand)

A Novel UV-curable Waterborne Polyurethane-Acrylate Coating based on Green Polyol from Hydroxyl Telechelic Natural Rubber (Dr. Anuwat Saetung, Prince of Songkla University, Pattani, Thailand)

Floating of Carbon Black-filled Polyurethane Foam based on Palm Oil Polyol (Dr. Anuwat Saetung, Prince of Songkla University, Pattani, Thailand)

Adipic Acid Dihydrazide as a Crosslinking Agent for Latex Films based on Graft Copolymers of Natural Rubber and Poly-diacetone Acrylamide (Dr. Bencha Thongnuanchan, Prince of Songkla University, Pattani, Thailand)

Fire-Retardant Coating for Wood-based on Graft Copolymers of Natural rubber and Poly methacrylic Acid (Dr. Bencha Thongnuanchan, Prince of Songkla University, Pattani, Thailand)

ENR Cross-linked with Dimer Fatty Acid for Sustainable Rubber Vulcanizate (Dr. Subhan Salaeh, Prince of Songkla University, Pattani, Thailand)

Shape Memory Polymer (SMP) based on Natural Rubber Grafted Poly Methyl Methacrylate (Dr. Subhan Salaeh, Prince of Songkla University, Pattani, Thailand)

Grading the Natural Rubber Foam by varying Azodicarbonamide Content (Dr. Nabil Hayeemasae, Prince of Songkla University, Pattani, Thailand)

Promoting the Properties of Natural Rubber/Halloysite Nanotubes by adding Modified Palm Stearin (Dr. Nabil Hayeemasae, Prince of Songkla University, Pattani, Thailand)

Application of Recycled Rubber for Shoe Products (Dr. Sitisaiyidah Saiwari, Prince of Songkla University, Pattani, Thailand)

Recycling of Gloves Waste (Dr. Sitisaiyidah Saiwari, Prince of Songkla University, Pattani, Thailand)

Some Properties of Experimental Particleboard Manufactured from Waste Bamboo using Modified Recycled Palm Oil as Adhesive (Dr. Anuwat Saetung, Prince of Songkla University, Pattani, Thailand)

Green Tire PCR tread compound: Significance and optimization of mixing parameters of Banbury mixer for a better degree of silanization (Jeeva N, Research Scholar, Rubber Technology Centre, IIT Kharagpur, India)