



## RETA INTERNATIONAL CONFERENCE

Rubber and Green Materials for Sustainable Society

March 2<sup>nd</sup> - 3<sup>rd</sup>, 2023

Jamjuree Ballroom, M floor  
Pathumwan Princess Hotel, Bangkok Thailand

### Conference Program

March 2, 2023

Time	Function	
08:00 - 08:30	Registration (Foyet, M Floor)	
Ballroom A and B		
08:30 - 09:00	<b>Opening Ceremony</b> <i>Dr. Banja Junhasavasdikul</i> , President of RETA, and <i>Mr. Nakorn Tangavirapat</i> , President of Rubber Authority of Thailand	
09:00 - 09:40	<b>P01</b> Rubber Processing in Times of Restricted Resources – Possibilities to Reduce Energy Demand and Carbon Footprint <i>Prof. Dr. Andreas Limper</i> , The Deutsche Kautschuk-Gesellschaft e.V., Germany	
09:40 - 10:20	<b>P02</b> Studies on Strain-Induced Crystallization of Natural Rubber by Using X-Ray Scattering Beamlines at Japanese Synchrotron Radiation Facilities <i>Prof. Dr. Shinichi Sakurai</i> , SRIJ Vice President, Kyoto Institute of Technology, Japan	
10:20 - 10:40	Booth Visit and Coffee Break	
	Ballroom A and B	Jamjuree 2
	MC-01 (Rubber Materials and Composites)	SN-01 (Sustainability of Natural Rubber and Social Impacts)
10:40 - 11:05	<b>MC01-K01</b> Natural Rubber for Carbon Dioxide Capture <i>Assoc. Prof. Dr. Sirilux Poompradub</i> , Chulalongkorn University, Thailand	<b>SN01-K01</b> Ammonia-free Natural Rubber Latex: A journey with Palm-based Surfactants <i>Dr. Lee Siang Yin</i> , Malaysia Rubber Board
11:05 - 11:30	<b>MC01-I01</b> New Engineered Elastomer Composite Products Expand the Potential for Performance & Sustainability of Rubber Products <i>Joko Widjaya</i> , Cabot Corporation, Indonesia	<b>SN01-K02</b> Insights into the Mixing of Silica-Natural Rubber Compounds for More Sustainable Tire Industry <i>Assoc. Prof. Dr. Kannika Sahakaro</i> , Prince of Songkla University, Pattani Campus, Thailand
11:30 - 11:55	<b>MC01-I02</b> Study the Influence of Nano Zinc Oxide Particles on the Properties of Vulcanized Natural Rubber Latex Films <i>Dr. Phattarawadee Nun-anan</i> , Innovation Group, Thailand	<b>SN01-K03</b> Social Issues and Technical Issues Required of the natural Rubber industry <i>Mr. Naoya Ichikawa</i> , Sumirubber Thai Eastern Corporation Co., Ltd.
11:55 - 12:15	<b>MC01-G01</b> Toughness Enhancement of PLA-based Filaments for Material Extrusion 3D Printing Technique <i>Ms. Siriwan Pongsathit</i> , Thammasat University, Thailand	<b>SN01-G01</b> Socio-Economic Perspective: The Importance of Systematic Management of NR Production towards the Sustainability of the NR Industry <i>Mr. Wasutin Khodkaew</i> , International Rubber Consortium, Thailand
12:15 - 13:15	Lunch Break at CiTi BiSTRO and Poster Setting Time (Jamjuree 1)	



# RETA INTERNATIONAL CONFERENCE

Rubber and Green Materials for Sustainable Society

March 2<sup>nd</sup> - 3<sup>rd</sup>, 2023

Jamjuree Ballroom, M floor  
Pathumwan Princess Hotel, Bangkok Thailand

Time	Function	
	<b>Ballroom A and B</b>	
13:15 - 13:55	<b>P03</b> Rubber Extrusion and Shaping Process for Automobile Tire Tread <i>Prof. Dr. Min-Young Lyu</i> , Seoul National University of Science & Technology, S. Korea	
	<b>Ballroom A and B</b>	<b>Jamjuree 2</b>
	<b>EC-01</b> (End of Life and Circular Economy of Rubber and Polymeric Products)	<b>RG-01</b> (Environmentally Friendly Rubber and Green Materials)
13:55 - 14:20	<b>EC01-K01</b> End of Life and Circular Economy of Rubber and Polymeric Products <i>Mr. Attapon Phrawphreungam</i> , Thai Bridgestone Co.,Ltd.	<b>RG01-K01</b> A Valuable Rubber Seeds Oil and its Cascade Utilization for Sustainable Energy and Chemicals <i>Prof. Dr. Yasuaki Maeda</i> , Osaka Prefecture University, Japan
14:20 - 14:45	<b>EC01-I02</b> Bringing Circularity at Scale Through Sustainable Carbonaceous Materials <i>Mr. Park Seongho</i> , Birla Carbon Korea Co., Ltd., and <i>Mr. Jayant Gehlot</i> , Birla Carbon (Thailand) Public Co., Ltd.	<b>RG01-K02</b> The Thriving of Natural Rubber as an Environmentally Friendly Rubber and Green Materials, based on Structure Characterization Studies <i>Prof. Dr. Jitlada Sakdapipanich</i> , Mahidol University, Thailand
14:45 - 15:05	<b>EC01-G01</b> Enzymatic Degradation on Rubber <i>Ms. Aziana Abu Hassan</i> , University of Nottingham, England	<b>RG01-G01</b> The Feasibility Study of Using Wolffia Powder in Rubber Compounding <i>Ms. Pattamaporn Klongklaew</i> , National Science and Technology Development Agency, Thailand
15:05 - 16:05	<b>Coffee Break and General Annual Assembly at Ballroom A and B</b>	
	<b>Ballroom A and B</b>	<b>Jamjuree 2</b>
	<b>AP-01</b> (Science Advancement and Prospects of Latex and Glove)	<b>TE-01</b> (Rubber Technology and Engineering)
16:05 - 16:30	<b>AP01-K01</b> Metal Ions Cross-links of Epoxidized Natural Rubber <i>Assoc. Prof. Dr. Charoen Nakason</i> , Prince of Songkla University, Surat Thani Campus, Thailand	<b>TE01-K02</b> Development of Cure Optimization using Arrhenius Model <i>Dr. Ngeow Yen Wan</i> , Malaysia Rubber Board, Malaysia
	<b>Foyet</b>	
16:30 - 17:30	<b>MOU Signing Ceremony and Networking Time</b>	
	<b>Ballroom A and B</b>	
	<b>Dinner Talk</b>	
17:30 - 20:00	<b>Building a Sustainable Future for Thailand's Rubber Industry Together</b> <i>Mr. Chartsiri Sophonpanich</i> , President of Bangkok Bank Public Company Limited  <i>only ticket holders, co-hosted by BBL</i>	



## RETA INTERNATIONAL CONFERENCE

Rubber and Green Materials for Sustainable Society

March 2<sup>nd</sup> - 3<sup>rd</sup>, 2023

Jamjuree Ballroom, M floor  
Pathumwan Princess Hotel, Bangkok Thailand

### Conference Program

March 3, 2023

Time	Function	
	Ballroom A and B	
08:30 - 10:00	<p><b>Forum: Vision and Roadmap for Social Sustainability</b></p> <ul style="list-style-type: none"> <li>• Dr. Chaya Chandavas, Senior Vice President, GC</li> <li>• Dr. Suracha Udomsak, Chief Innovation Officer and Executive Vice President- New Business SCGC</li> <li>• Mr. Chaiyasit Samrittivanicha, Chairman of Rubber Industry Club, Federation of Thai Industries</li> <li>• Assoc. Prof. Dr. Ittipol Jangchud, King Mongkut's Institute of Technology Ladkrabang</li> <li>• Prof. Dr. Cattaleeya Pattamaprom, Thammasart University</li> <li>• Prof. Dr. Hathaikarn Manuspiya, PETROMAT</li> </ul> <p>Moderator: Prof. Dr. Suwabun Chirachanchai, Chulalongkorn University</p>	
10:00 - 10:30	Coffee Break and Booth Visit	
	Ballroom A and B	
10:30 - 11:10	<p><b>P04</b> Glove Manufacturing &amp; Innovation Initiatives, vis-a-vis the Change in Consumer Behaviour Pattern <i>Dr. S. Supramaniam Shanmugam</i>, President of Malaysian Rubber Glove Manufacturers Association (MARGMA), Malaysia</p>	
	Ballroom A and B	Jamjuree 2
	MC-02 (Rubber Materials and Composites)	EC-02 (End of Life and Circular Economy of Rubber and Polymeric Products)
11:10 - 11:35	<p><b>AP02-K01</b> Surface Segregation of Functional Siloxane-Based Cages in a Polymer Matrix <i>Prof. Dr. Kensuke Naka</i>, Kyoto Institute of Technology, Japan</p>	<p><b>EC02-I01</b> Solution to Carbon Reduction in Rubber Industry <i>Mr. Andy Yuan</i>, ECO INFINIC CO., LTD., Taiwan</p>
11:35 - 11:55	<p><b>MC02-G01</b> Sustainability in the Rubber World: Green Compounding <i>Mr. AK Harish</i>, ARLANXEO, Singapore</p>	<p><b>EC02-G01</b> Degradation Behavior of Natural Rubber Gloves under Composting Conditions and its Effect on Seed Germination and Bacterial Community <i>Dr. Chomnutcha Boonmee</i>, National Metal and Materials Technology Center, Thailand</p>
12:00 - 13:10	Lunch Break at CiTi BiSTRo and Poster Visit (Jamjuree 1)	
	Ballroom A and B	
13:10 - 13:50	<p><b>P05</b> Challenges to Waste Plastics Recycling Technology Development <i>Dr. Takeharu Isaki</i>, Research Fellow, Mitsui Chemicals, Inc., Japan</p>	
13:50 - 14:30	<p><b>P06</b> Navigate thru Green Development and Carbon Emission <i>Mr. Panitan Junhasavasdikul</i>, Innovation Group (Thailand) Ltd., Thailand</p>	



## RETA INTERNATIONAL CONFERENCE

Rubber and Green Materials for Sustainable Society

March 2<sup>nd</sup> - 3<sup>rd</sup>, 2023

Jamjuree Ballroom, M floor  
Pathumwan Princess Hotel, Bangkok Thailand

Time	Function	
	Ballroom A and B	Jamjuree 2
	<b>AP-02</b> Science Advancement and Prospects of Rubber and Elastomer	<b>TE-02</b> (Rubber Technology and Engineering)
14:30 - 14:55	<b>AP02-K02</b> Radiation Vulcanization of Natural Rubber Latex and its Applications <i>Dr. Panithi Wiroonpochit</i> , MTEC, Thailand	<b>TE02-K01</b> Structure and Properties of Vulcanized Natural Rubber <i>Prof. Dr. Seiichi Kawahara</i> , Nagaoka University of Technology, Japan
14:55 - 15:20	<b>AP02-G01</b> Prevulcanized Epoxidized Natural Rubber Latex Blended with Zinc Oxide Nanoparticles and Phosphoric Acid for Anti-Corrosion Coating <i>Assist. Prof. Philaiwan Pornprasit</i> , Maejo University, Thailand	<b>TE02-K02</b> Fabrication of Super hydrophobic Natural Rubber via Graft Copolymerization: Preparation and Application <i>Prof. Dr. Napida Hinchiranan</i> , Chulalongkorn University, Thailand
15:20 - 15:40		<b>TE02-G01</b> An Investigation of Through-Thickness Porosity in CFRP by Image Processing Techniques <i>Dr. Sawanya Suwannawong</i> , Thai-Nichi Institute of Technology, Thailand
	<b>Jamjuree 1</b>	
15:40 - 17:00	Poster Presentation (and Coffee Break)	
	<b>Foyer</b>	
17:00 - 18:00	Closing and Awards Ceremony (with Cocktail)	