

# Thursday - October 27, 2016

	<b>Session A</b> Room E, AIM Bldg. 3F	<b>Session B</b> Room F, AIM Bldg. 3F	<b>Session C</b> Room G, AIM Bldg. 3F
	<b>S3: Progress in Evaluation and Testing Methods</b>	<b>G12: Application of Rubber and Rubber Processing</b>	<b>S6: Elastomers for Environment and Sustainability</b>
8:30	<b>Chair: Fumito Yatsuyanagi</b> <b>A-18 [INVITED] (8:30-9:05)</b> Highly Heterogeneous Nanomechanics of Filled Rubber Systems Ken Nakajima <i>Tokyo Institute of Technology, Japan/Tohoku University, Japan</i>	<b>Chair: Shin Nishimura</b> <b>B-18 (8:30-8:50)</b> The Relation between Slip Ratio and Pattern Abrasion of Rubber during Rolling-Sliding Friction Tomoaki Iwai <i>Kanazawa University, Japan</i>	<b>Chair: Yoichi Ozawa</b> <b>C-20 [INVITED] (8:30-9:05)</b> Green Mobility and Sustainability- Challenges and Opportunities for Tyre Industry Rabindra Mukhopadhyay <i>Hari Shankar Singhania Elastomer &amp; Tyre Research Institute, India</i>
	<b>A-19 (9:05-9:25)</b> Evaluation of Rubber Products by Electromagnetic Methods - Terahertz Spectroscopy and Electrical Circuits Analysis - Yasuyuki Hirakawa <i>National Institute of Technology, Kurume College, Japan</i>	<b>B-19 (8:50-9:10)</b> How Far Does the Feed Roll Affect the Dimension Stability of Extrudates? Mathias Zabel <i>TROESTER GmbH &amp; Co. KG, Germany</i>	<b>C-21 (9:05-9:25)</b> Strain-Induced Crystallization Behaviour of Guayule Rubber Preeyanuch Junkong <i>Kyoto Institute of Technology, Japan</i>
	<b>A-20 (9:25-9:45)</b> The Evaluation of Natural Rubber Processability Antonin Kuta <i>University of Chemistry and Technology, Czech Republic</i>	<b>B-20 (9:10-9:30)</b> Operating Window in Injection Molding with 9 Experiments Hans-Joachim Graf <i>H-JG Consulting, Germany</i>	<b>C-22 (9:25-9:45)</b> Biobased Copolyesters Based on Lactic Acid with Tunable and Versatile Properties Xiaoran Hu <i>Beijing University of Chemical Technology, China</i>
	<b>A-21 (9:45-10:05)</b> X-ray Technology for Continuous Online Quality Control and Material Saving during Extrusion of Rubber Hoses Holger Lieder <i>Sikora AG, Germany</i>	<b>B-22 (9:50-10:10)</b> Soil Stabilization under Road Pavement using Natural Rubber Crepe Mat Shamsul Kamaruddin <i>Malaysian Rubber Board, Malaysia</i>	<b>C-23 (9:45-10:05)</b> Design and Preparation of Green Nanocomposites through Polymer Design and Interface Tailoring He Qiao <i>Beijing University of Chemical Technology, China</i>
10:30	<b>Chair: Ken Nakajima</b> <b>A-22 (10:30-10:50)</b> Getting the Best Out of Naphthenic Tire Oils: Utilisation of Multiple Variables Analysis Tools for Optimisation of SBR- and ESR- Based Tire Rubber Compounds Mika Lahtinen <i>Nynas Ab, Sweden</i>	<b>Chair: Tomoaki Iwai</b> <b>B-23 [INVITED] (10:30-11:05)</b> Rubber Composites for High-Pressure Hydrogen Seal Shin Nishimura <i>Kyushu University, Japan</i>	<b>Chair: Rabindra Mukhopadhyay</b> <b>C-24 (10:30-10:50)</b> Novel Avenue to Develop Hazard-Free Green Elastomeric Composites Partheban Manoharan <i>Indian Institute of Technology, India</i>
	<b>A-23 (10:50-11:10)</b> Spin-Trapping Analysis of Mechanical Degradation of Isoprene Rubber Wataru Sakai <i>Kyoto Institute of Technology, Japan</i>	<b>B-24 (11:05-11:25)</b> Seal Material for High-Pressure Hydrogen Devices Atsushi Koga <i>NOK Corporation, Japan</i>	<b>C-25 (10:50-11:10)</b> Effect of Different Vulcanization System on Properties of Mangosteen (Garcinia Mangostana) Peel Powder Filled Natural Rubber Compounds Norjulia Ahmad Mahir <i>Universiti Sains Malaysia, Malaysia</i>

Excursion 12:00-18:00

# Thursday - October 27, 2016

Session D Room 311-313, AIM Bldg. 3F	Session E Room 314-315, AIM Bldg. 3F
G4: Filler and Additives	G7: Structure, Property and Characterization
<b>Chair: Junji Watanabe</b>	<b>Chair: Shinichi Sakurai</b>
<b>D-21 (8:30-8:50)</b> Particle Design for High Performance Elastomeric Composites Marco Villalobos Cabot Corporation, USA	<b>E-19 (8:30-8:50)</b> Novel Network Structure Formed by EHD Convection of Nanodiamond in UV Curing Resin Shuichi Akasaka Tokyo Institute of Technology, Japan
<b>D-22 (8:50-9:10)</b> Aging Resistant Elastomers Doped with Antioxidant Loaded Clay Nanotubes Wencai Wang Beijing University of Chemical Technology, China	<b>E-20 (8:50-9:10)</b> Influence of the Silanes on the Crosslink Density and Crosslink Structure of Silica-Filled Solution Styrene Butadiene Rubber Compounds Nam Park Pusan National University, Korea/R&D Division, Nexentire, Korea
<b>D-23 (9:10-9:30)</b> Development of Composite Materials of Basic Zinc Carbonate Nano Particles Dispersed on Clay and Its Application to Polymer Materials System Yūichi Takemura Shiraishi Central Laboratories Co., Ltd, Japan	<b>E-21 (9:10-9:30)</b> The Effect of the Interaction between Rubber and Silica on the Filler Dispersion in Rubber under Elongation by In-Situ Ultra Small X-ray Scattering Shotaro Nishitsuji Yamagata University, Japan
<b>D-24 (9:30-9:50)</b> In-Situ Reactions in Mixing Process of TESPT-Silanized Silica/NR Tire Tread Compounds Wisut Kaewsakul Prince of Songkla University, Thailand	<b>E-22 (9:30-9:50)</b> The Dependence of Silica Contents on the Filler Dispersion in Rubber under Elongation by In-Situ Ultra Small X-ray Scattering Sho Suzuki Yamagata University, Japan
<b>D-25 (9:50-10:10)</b> Study on Reinforcing Mechanism and Characteristics of Fine-Pre-dispersed Aramid Pulp Masterbatch Filled Rubber Composites Weidong Wu Beijing University of Chemical Technology, China	<b>E-23 (9:50-10:10)</b> Preparation of Silicone Elastomer Composite with Crystalline Component and Its Structural Change during Stretching Hiroki Uehara Gunma University, Japan
<b>Chair: Masanobu Senoo</b>	<b>Chair: Qinghong Fang</b>
<b>D-26 (10:30-10:50)</b> Study of Compression Behavior of Hollow Fillers Used for Weight Reduction of the Rubber Compound Tomoaki Sugita Shiraishi Central Laboratories Co., Ltd, Japan	<b>E-24 (10:30-10:50)</b> Synchrotron WAXS Studies of Stretched Natural and Synthetic Rubber Networks Showing an Upturn in Stress-Strain Curves Taweechai Amornsakchai Mahidol University, Thailand
<b>D-27 (10:50-11:10)</b> The Application of Carbon Nanotube (CNT) in Tire Compounds Improving Tire Comprehensive Performances Hongqi Shao Otsuka Material Science and Technology (Shanghai) Co., Ltd., China	<b>E-25 (10:50-11:10)</b> Dominating Factor of Strain-induced Crystallization in Natural Rubber Masatoshi Tosaka Kyoto University, Japan
<b>D-28 (11:10-11:30)</b> Low Ozone-Resistivity of IR Mixed with a Wax as an Antiozonant at Below Freezing Yūka Iwase Chemicals Evaluation and Research Institute, Japan/Nagaoka University of Technology, Japan	<b>E-26 (11:10-11:30)</b> Studying the Structural Evolution and Mechanical Properties of the Deformed Elastomers using AFM Nanomechanical Mapping Dong Wang Beijing University of Chemical Technology, China
<b>D-29 (11:30-11:50)</b> The Process Oils based on Renewable Sources. Development, Characterization and Use in Tire Formulations C. Bergmann Hansen & Rosenthal KG, Germany	<b>E-27 (11:30-11:50)</b> Study on the Reinforcing Mechanism of the Rubber Composite Containing Cross-Linked Resin Powder Daisuke Sawada ASICS Corporation, Japan

8:30

10:30

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