

35th Annual Meeting and Conference on Tire Science and Technology

Day 1 - Tuesday September 13, 2016

All Sessions take place in Akron/Summit Ballroom

7:00 AM			Registration (<i>Fairlawn Hilton</i> until 5pm)	
8:00 AM	10		Welcome (<i>Akron/Summit Ballroom</i>)	Saied Taheri, President
8:10 AM	60		Keynote Lecture	Richard Kellam , Senior Vice President, Global Sales & Marketing The Goodyear Tire & Rubber Company
9:10 AM	5		Opening Remarks	Kanwar Bharat Singh, Conference Chair
9:15 AM	5		Session 1: Tire Vehicle Systems	Peter Tkacik <i>The University of North Carolina at Charlotte, USA</i>
9:20 AM	25	1.1	Identification of Tire Force & Moment (F&M) Characteristics that Improve Combined Slip Handling Performance	Terence E. Wei <i>Bridgestone Americas</i>
9:45 AM	25	1.2	A Comprehensive Study on the Performance of Winter Tyres on Ice, Snow and Asphalt Roads – The Influence of Tyre Type and Wear	Mattias Hjort <i>The Swedish National Road and Transport Research Institute</i>
10:10 AM	25	1.3	Modelling of Contact Patch in Dual-Chamber Pneumatic Tyres	Oluremi A. Olatunbosun <i>University of Birmingham, UK</i>
10:35 AM	20		Break	
10:55 AM	5		Session 2: Materials	Janice Tardiff <i>Ford Motor Company</i>
11:00 AM	25	2.1	Mechanisms of Mechanical Behavior of Filled Rubber by Coarse-Grained Molecular Dynamics Simulations	Takashi Kojima <i>The Yokohama Rubber Company</i>
11:25 AM	25	2.2	Study of Steel Cord-Rubber Adhesion With SEM/EDX	Yusheng Chen <i>Cooper Tire & Rubber Company</i>
11:50 AM	75		Lunch (Will be Provided) -Conrad room	
1:05 PM	5		Session 3: New Light on Tire Technology I	Kory Smith <i>Bridgestone Americas</i>
1:10 PM	25	3.1	Vertical and Longitudinal Characteristics of a Bicycle Tire	Oliver Maier <i>Pforzheim University, Germany</i>
1:35 PM	25	3.2	A New Measuring System for Continuous Friction Monitoring on Wet Track Surfaces	Patrick Riehm <i>Karlsruhe Institute of Technology, Germany</i>
2:00 PM	25	3.3	Tire Simulation and Hydroplaning Analysis at Steady State Rolling Using ANSYS	Mario Garcia <i>Technische Universität Dresden, Germany</i>
2:25 PM	25	3.4	The Effects of Speed on Tire-Pavement Interaction Noise (Tread-Pattern-Related Noise and Non-Tread-Pattern-Related Noise)	Tan Li <i>Virginia Tech, USA</i>
2:50 PM	20		Break	
3:10 PM	5		Session 4: New Light on Tire Technology II	Michelle Hoo Fatt <i>University of Akron</i>
3:15 PM	25	4.1	Experimental Investigation of Tire Slap Noise	Rui Cao <i>Purdue University, USA</i>
3:40 PM	25	4.2	Theoretical Approach Towards Modeling Tire Wear Rate	Anahita Emami <i>Virginia Tech, USA</i>
4:05 PM	25	4.3	Fatigue Life Prediction of an Ultra-Large Mining Truck Tire using Critical Plane Analysis Method	Wedam Nyaaba <i>Missouri University of Science and Technology, USA</i>
4:30 PM	25	4.4	Estimation of Tire Contact Features using Strain-based Intelligent Tire	Hojong Lee <i>Virginia Tech, USA</i>
4:55 PM	50		Reception (<i>Conrad Ballroom</i>)	

35th Annual Meeting and Conference on Tire Science and Technology

Day 2 – Wednesday September 14, 2016

All Sessions take place in Akron/Summit Ballroom

7:15 AM			Registration (<i>Fairlawn Hilton</i> until noon)	
8:00 AM	5		Opening Remarks	Kanwar Bharat Singh, Conference Chair
8:05 AM	20		State of the Society	Saied Taheri, President
8:25 AM	5		Session 5: Tire Performance	Rusty Adams <i>The Goodyear Tire & Rubber Company</i>
8:30 AM	25	5.1	Influence of Road Impact Profile on Tire Deformation	Omar Ali <i>The University of North Carolina at Charlotte, USA</i>
8:55 AM	25	5.2	A Study on Rolling Resistance Optimization Strategies and Performance Trade off Mitigation	Nupur Lomash <i>JK Tyre & Industries Ltd</i>
9:20 AM	20		Break	
9:40 AM	5		Session 6: Tire Road Interaction	Alex Trazkovich <i>Cooper Tire</i>
9:45 AM	25	6.1	Identification of Ftire Model Parameters by Combining the Method of Drum Tests and Simulation	Zhou Zheng <i>Jiangsu University, China</i>
10:10 AM	25	6.2	Investigation of Snow Milling Mechanics to Optimize Winter Tire Traction	Tim Linke <i>Leibniz University of Hannover, Germany</i>
10:35 AM	25	6.3	Do changes in Temperature and Inflation Pressure Affect Rolling Resistance During Road and Track Testing for Fuel Economy of Class 8 Tractor-Trailers?	L Joseph Bachman <i>US Environmental Protection Agency</i>
11:00 AM	25	6.4	Effect of Anti-Lock Braking System Placement on Skid Wear in Heavy Truck Tires	Tony Martin <i>The University of North Carolina at Charlotte, USA</i>
11:25 AM	25	6.5	Uniaxial Compression on Salted Snow	Henri Giudici <i>Norwegian University of Science and Technology</i>
11:50 AM	75		Lunch (Will be Provided) -Conrad room Felicitations -Best Paper Awards	
1:05 PM	60		Plenary Lecture: Sensor Fusion Techniques for Monitoring Tire and Road Surface Condition (<i>Akron/Summit Ballroom</i>)	Fredrik Gustafsson, <i>Linköping University, Sweden</i>
2:05 PM	5		Session 7: Simulations	Jan Terziyski <i>Nexen Tire</i>
2:10 PM	25	7.1	A Simplified Model for Heat Dissipated and Resultant Temperature During Calendering of Uncured Filled Rubber	Deep Samanta <i>The Goodyear Tire & Rubber Company</i>
2:35 PM	25	7.2	Understanding of Bead Unseating Mechanism using Finite Element Computations	Gautam Sagar <i>Continental AG</i>
3:00 PM	25	7.3	Calculating Energy Release Rate as a Function of Crack Length Using a Multiple Step Crack Closure Technique in Tire Finite Element Models	Dennis Kelliher <i>Hankook Tire</i>
3:25 PM	25	7.4	A Study on Wide-base Tire Building Process and Design Optimization Using Finite Element Analysis	Haichao Zhou <i>Jiangsu University, China</i>
3:50 PM	20		Break	
4:10 PM	5		Session 8: Emerging Technologies	Joel Lazeration <i>The Goodyear Tire & Rubber Company</i>
4:15 PM	25	8.1	Measurement of Tangential Force Coefficient Between Tire Tread and Road Surface During Driving a Car Using Inner Surface Deformation of the Tire	Ryota Imaizumi <i>Kanazawa University, Japan</i>
4:40 PM	25	8.2	Tools and Techniques for Automating Tire Durability Analysis	Mike Koepp <i>Adaptive Corporation</i>
5:05 PM	25	8.3	Technical Review: Indirect Tire Pressure Monitoring Systems (ITPMS) and the Tire Vibrations	Adnan Muhammad <i>Johannes Kepler University Linz, Austria</i>
5:30 PM	10		Conference Closing Remarks	