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 (*Fairlawn Hilton* until 5pm)	
8:00 AM	10		Welcome (*Akron/Summit Ballroom*)	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** *The University of North Carolina at Charlotte, USA*
9:20 AM	25	1.1	Identification of Tire Force & Moment (F&M) Characteristics that Improve Combined Slip Handling Performance	Terence E. Wei *Bridgestone Americas*
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 *The Swedish National Road and Transport Research Institute*
10:10 AM	25	1.3	Modelling of Contact Patch in Dual-Chamber Pneumatic Tyres	Oluremi A. Olatunbosun *University of Birmingham, UK*
10:35 AM	20		Break	
10:55 AM	5		**Session 2: Materials**	**Janice Tardiff** *Ford Motor Company*
11:00 AM	25	2.1	Mechanisms of Mechanical Behavior of Filled Rubber by Coarse-Grained Molecular Dynamics Simulations	Takashi Kojima *The Yokohama Rubber Company*
11:25 AM	25	2.2	Study of Steel Cord-Rubber Adhesion With SEM/EDX	Yusheng Chen *Cooper Tire & Rubber Company*
11:50 AM	75		Lunch (Will be Provided) -Conrad room	
1:05 PM	5		**Session 3: New Light on Tire Technology I**	**Kory Smith** *Bridgestone Americas*
1:10 PM	25	3.1	Vertical and Longitudinal Characteristics of a Bicycle Tire	Oliver Maier *Pforzheim University, Germany*
1:35 PM	25	3.2	A New Measuring System for Continuous Friction Monitoring on Wet Track Surfaces	Patrick Riehm *Karlsruhe Institute of Technology, Germany*
2:00 PM	25	3.3	Tire Simulation and Hydroplaning Analysis at Steady State Rolling Using ANSYS	Mario Garcia *Technische Universität Dresden, Germany*
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 *Virginia Tech, USA*
2:50 PM	20		Break	
3:10 PM	5		**Session 4: New Light on Tire Technology II**	**Michelle Hoo Fatt** *University of Akron*
3:15 PM	25	4.1	Experimental Investigation of Tire Slap Noise	Rui Cao *Purdue University, USA*
3:40 PM	25	4.2	Theoretical Approach Towards Modeling Tire Wear Rate	Anahita Emami *Virginia Tech, USA*
4:05 PM	25	4.3	Fatigue Life Prediction of an Ultra-Large Mining Truck Tire using Critical Plane Analysis Method	Wedam Nyaaba *Missouri University of Science and Technology, USA*
4:30 PM	25	4.4	Estimation of Tire Contact Features using Strain-based Intelligent Tire	Hojong Lee *Virginia Tech, USA*
4:55 PM	50		Reception (*Conrad Ballroom*)	

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 (*Fairlawn Hilton* 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** *The Goodyear Tire & Rubber Company*
8:30 AM	25	5.1	Influence of Road Impact Profile on Tire Deformation	Omar Ali *The University of North Carolina at Charlotte, USA*
8:55 AM	25	5.2	A Study on Rolling Resistance Optimization Strategies and Performance Trade off Mitigation	Nupur Lomash *JK Tyre & Industries Ltd*
9:20 AM	20		Break	
9:40 AM	5		**Session 6: Tire Road Interaction**	**Alex Trazkovich** *Cooper Tire*
9:45 AM	25	6.1	Identification of Ftire Model Parameters by Combining the Method of Drum Tests and Simulation	Zhou Zheng *Jiangsu University, China*
10:10 AM	25	6.2	Investigation of Snow Milling Mechanics to Optimize Winter Tire Traction	Tim Linke *Leibniz University of Hannover, Germany*
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 *US Environmental Protection Agency*
11:00 AM	25	6.4	Effect of Anti-Lock Braking System Placement on Skid Wear in Heavy Truck Tires	Tony Martin *The University of North Carolina at Charlotte, USA*
11:25 AM	25	6.5	Uniaxial Compression on Salted Snow	Henri Giudici *Norwegian University of Science and Technology*
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 (*Akron/Summit Ballroom*)	**Fredrik Gustafsson**, Linköping University, Sweden
2:05 PM	5		**Session 7: Simulations**	**Jan Terziyski** *Nexen Tire*
2:10 PM	25	7.1	A Simplified Model for Heat Dissipated and Resultant Temperature During Calendering of Uncured Filled Rubber	Deep Samanta *The Goodyear Tire & Rubber Company*
2:35 PM	25	7.2	Understanding of Bead Unseating Mechanism using Finite Element Computations	Gautam Sagar *Continental AG*
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 *Hankook Tire*
3:25 PM	25	7.4	A Study on Wide-base Tire Building Process and Design Optimization Using Finite Element Analysis	Haichao Zhou *Jiangsu University, China*
3:50 PM	20		Break	
4:10 PM	5		**Session 8: Emerging Technologies**	**Joel Lazeration** *The Goodyear Tire & Rubber Company*
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 *Kanazawa University, Japan*
4:40 PM	25	8.2	Tools and Techniques for Automating Tire Durability Analysis	Mike Koepp *Adaptive Corporation*
5:05 PM	25	8.3	Technical Review: Indirect Tire Pressure Monitoring Systems (ITPMS) and the Tire Vibrations	Adnan Muhammad *Johannes Kepler University Linz, Austria*
5:30 PM	10		Conference Closing Remarks	