33rd Annual Meeting and Conference on Tire Science and Technology

Day 1 - Monday September 8, 2014

7:45 AM		Registration (J.S. Knight Rotunda until 5pm)	
9:00 AM		Welcome (Greystone Hall Ballroom)	Ric Mousseau, President
9:10 AM		Plenary Lecture: Recent Computational Advances in Contact and Friction Simulation as Applied to Tire Mechanics (<i>Greystone Hall Ballroom</i>)	Tod Laursen, President/Professor Mechanical Engineering Khalifa University of Science
10:00 AM		Break	
10:15 AM		Opening Remarks (Greystone Hall Ballroom)	Jason Barr, Conference Chair
10:20 AM		Session 1: Tire Performance and Industry Trends	Dan Osborne, Session Chair
10:25 AM	1.1	Tire Operational and Sustainability Tradeoffs	Marion Pottinger
10:55 AM	1.2	Application of Intelligent Tire Systems: Tire Force Model Adaptation to Tire Sensed Information	Kanwar Singh
11:25 AM	1.3	Measurement of the Two-dimensional Tread Deformation in the Contact Patch	Yi Xiong
12:00 PM		Lunch (J.S. Knight Goodyear A and B, sponsored by Smithers Rapra)	
1:00 PM		Session 2: New Light on Tire Technology I (Student Competition)	Michelle Hoo Fatt, Session Chair
1:05 PM	2.1	Analysis of the Stability of Tire Torsional Oscillation Under Locked-Wheel Braking	Chunjian Wang
1:35 PM	2.2	Development of a Simulink-CarSim Interaction Package for ABS Simulation of Discrete Tire Models	Karan Khanse
2:05 PM	2.3	Microtexture Road Profiling Using Image Intensity information	Boren Li
2:35 PM	2.4	A BEM/FEM Model for Tire-Pavement Interaction Noise Prediction	Yangmin Ding
3:05 PM		Break	
3:20 PM		Session 3: New Light on Tire Technology II (Student Competition)	Steve Vossberg, Session Chair
3:25 PM		Use of a Cohesive Zone Model to Predict Dynamic Tearing of Rubber	Bo Li
3:55 PM		Effect of the pores in porous rubber on water flow at the contact area	Takumi Komiyama
4:25 PM		Hyperelastic Multiscale Modeling of Polyurethane	Md Salah Uddin
4:55 PM	3.4	Material Model for Large Deformations of Fiber-reinforced Rubberlike Materials with Different Response in Tension and Compression	Qian Li
5:30 PM		Close of Day 1	

Day 2 - Tuesday September 9, 2014

7:15 AM		Registration (J.S. Knight Rotunda until noon)	
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8:30 AM		Keynote Address: The New Reality of Innovation (<i>J.S. Knight Goodyear A and B</i>)	Michael Hochschwender, CEO/President Smithers Rapra
9:40 AM		Opening Remarks (Greystone Hall Ballroom)	Jason Barr, Conference Chair
9:45 AM		State of the Society (Greystone Hall Ballroom)	Ric Mousseau, President
10:05 AM		Session 4: Noise, Vibration, and Harshness	Lin Kung, Session Chair
10:10 AM	4.1	A Study of Tire Contribution to Vehicle Comfort and Interior Noise Using Modal Criteria	Achillefs Tsotras
10:40 AM	4.2	The Simulation of Rolling Noise Based on the Mixed Lagrange-Euler Method	Yintao Wei
11:10 AM		Break	
11:25 AM		Session 5: Tire Road Interaction I	Joel Lazeration, Session Chair
11:30 AM	5.1	Holistic Analysis of the Coupled Vehicle-Tire-Pavement-System for the Design of Durable Pavements	Michael Kaliske
12:00 PM	5.2	Off-Road Vehicle Dynamics Analysis Using a Lumped-Parameter Three-Dimensional Tire Model	Shahyar Taheri
12:30 PM		Lunch (J.S. Knight Goodyear A and B, lunch is provided)	
1:15 PM		ITEC Exhibit Open Session (J.S. Knight Exhibit Hall 1 and 2)	
2:25 PM		Session 6: Tire Road Interaction II	Jan Terziyski, Session Chair
2:30 PM	6.1	Investigations on Winter Tire Characteristics on Different Track Surfaces Using a Statistical Approach	Bernd Wassertheurer
3:00 PM	6.2	A Comparative Study of Indoor and Outdoor Tire Tractive Performance on Ice	Anudeep Bhoopalam
3:30 PM	6.3	Validation of a Frustrated Total Internal Reflection Test Bench for Tire Footprint Pressure Measurement	Andrea Zanoni
4:00 PM	6.4	Effect of Measurement Frequency and Test Duration on the Inflation Pressure Loss Rate (IPLR) of Radial Medium Truck Tires	Jonathan Martens
4:30 PM	6.5	A Vehicle Mountable Road Profiling System Based on an RGB-D Sensor and Feature Matching	Howard Brand
5:00 PM		End of Technical Presentations	
5:10 PM		Reception (Greystone Hall Billard Room and Barrister's Lounge)	
6:00 PM		Banquet (J.S. Knight Karl S. Hay)	
6:50 PM		Awards	
7:10 PM		Dinner Speaker: Chariots of Tut and Moses	Bela Sandor, Professor Emeritus of Engineering Physics University of Wisconsin-Madison
8:00 PM		Close of Day 2	

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Day 3 - Wednesday September 10, 2014

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7:30 AM		Registration (J.S. Knight Rotunda until 10am)	
8:00 AM		Opening Remarks (Greystone Hall Ballroom)	Jason Barr, Conference Chair
8:05 AM		Session 7: Tire Vehicle Systems	Randy Jenniges, Session Chair
8:10 AM	7.1	Interaction of a Slip-Based Anti-Lock Braking System with Tire Torsional Dynamics	Jeffery Anderson
8:40 AM	7.2	Influence of Tire Operating Conditions on ABS Performance	Srikanth Sivaramakrishnan
9:10 AM	7.3	Tire ABS-braking prediction with tire tread block simulations and lab tests	Pavel Ignatyev
9:40 AM	7.4	TameTire: Introduction to the Model	Ryan Pawlowski
10:10 AM		Break	
10:25 AM		Session 8: Tire Vehicle Modeling	Will Mars, Session Chair
10:30 AM	8.1	Importance of Capturing Non-linear Viscoelastic Material Behavior in Tire Rolling Simulations	Biswanath Nandi
11:00 AM	8.2	Impact of Initial Thermal Strain and Viscoelasticity of Hybrid/Merged Cords on Tire Performance	Xianwei Meng
11:30 AM	8.3	A New Tool for Tire Handling Performance Evaluation	Yaswanth Siramdasu
12:00 PM	8.4	TIMIS - a semi-physical, fast computing tire handling model	Dirk Henrichmöller
12:30 PM		Conference Closing Remarks	
12:35 PM		Lunch (J.S. Knight Goodyear A and B, lunch is available for purchase)	