37 <sup>-</sup>	th Ar	nnual Meeting and Conference on Tire Scier	nce and Technology		
		Day 1 - Tuesday September 11, 2018 All Sessions take place in Akron/Summit Ballroom			
7:00 AM	Regist	ration (Fairlawn Hilton open until 5pm)			
8:00 AM	Welco	ome (Akron/Summit Ballroom)	Randy Jenniges, President of Society		
8:10 AM	Keyno	ote Speaker	,		
		How Global Automotive Trends Will Shape Innovation in the Tire Industry	<b>Jim Popio,</b> Smithers Rapra North America		
9:10 AM	Openir	ng Remarks	Nathan Billy, Conference Chair		
9:15 AM	Sessio	n 1: Tire Performance	Gautam Barot, Kumho Tire		
9:20 AM	1.1	Variable Stiffness Approach to Optimize Tyre Rolling Resistance	Shivam Mangal, JK Tyre & Ind. Ltd.		
9:50 AM	1.2	The effects of Different Tire Operating Conditions on Transient Lateral Tire Response	Henning Olsson, Calspan Corp.		
10:20 AM	1.3	Optimization of Cure Cycle and Tread Compound for Rolling Resistance Reduction of Truck Bus Bias Tires	Subash Iyanar, JK Tyre & Ind. Ltd.		
10:50 AM	Break ,	Refreshments			
11:10 AM	Session	n 2: Emerging Technologies	Jan Terziyski, Nexen Tire		
11:15 AM	2.1	Experimental Investigation on the Dynamic Response of Piezoelectric Transducer on Tyre Specimens	Ali Kubba, Fusion Innovations Ltd		
11:45 AM	2.2	Multi-chamber Tyre Simulation and Tests Data for Low Rolling Resistance Tyre	Gregory Hall, Fusion Innovations Ltd		
12:15 PM	Lunch	(Provided)			
1:30 PM	Sessio	n 3: New Light on Tire Technology	Celal Batur, Univ. of Akron		
		Effects of Copolymer Sequence on Adsorption and Dynamics Near	Alex J Trazkovich, The Ohio State		
1:35 PM	3.1	Nanoparticle Surfaces in Simulated Polymer Nanocomposites	University		
2:05 PM	3.2	Aerodynamic Study of Flow Around a Tire on a Rolling Road	<b>Stuart Gambill,</b> The University of North Carolina at Charlotte		
2:35 PM	3.3	Prediction of Pavement Texture and Deformation Influence on Rolling Resistance Using Finite Element Analysis	<b>Tianchi Tang,</b> Delft University of Technology		
3:05 PM	Break ,	/ Refreshments			
3:25 PM	Sessio	n 4: New Light on Tire Technology	Yaswanth Siramdasu, Hankook Tire		
3:30 PM	4.1	Comparison of Analytical Models for Contact Mechanics Parameters with Numerical Analysis and Experimental Results	Vadakkeveetil Sunish, Virginia Tech		
4:00 PM	4.2	Obtaining Operating Shapes of a Rotating Tire	Vanshaj Srivastava,		
		using Digital Image Correlation	Kettering University		
4:30 PM	4.3	Test and Simulation Analysis of Tire Inflation Pressure Loss	Xinyu Zhu, Jiangsu University		
5:00 PM	Reception				
6:00 PM Awards Banquet					
		Dinner Speaker: <b>Dr. Santo A. Padula, II, Ph.D.</b> Materials Research Engineer, NASA Glenn Research Center			
8:00 PM	Close	of Day 1			
6.00 PIVI	CIUSE	UI Day I			

		Day 2 - Wednesday September 12, 2018  All Sessions take place in Akron/Summit Ballroom			
7:30 AM	Regio	stration (Fairlawn Hilton open until 5pm)			
8:00 AM		ing Remarks	Nathan Billy, Conference Chair		
8:05 AM	Sessi	on 5: Simulation	Kejing Li, Hankook Tire Co.		
8:10 AM	5.1	Improvement of Physical Understanding of Tire Transient Handling Behavior	Pavel Sarkisov, Technische Universität Dresden		
8:40 AM	5.2	Incremental Critical Plane Analysis of FMVSS 119 Tire Durability Testing	Will Mars, Endurica		
9:10 AM	Report to the Membership and the Future of the Society		Randy Jenniges, Current President Jerry Potts, Incoming President Will Mars, Incoming Vice President		
10:10 AM 10:30 AM		c / Refreshments on 6: Data Analytics	Janice Tardiff, Ford Motor Co.		
		<u> </u>			
10:35 AM	6.1	The Art of (Virtual) Rubber Compounding	Zak Kohler, Cooper Tire & Rubber		
11:05 AM	6.2	Application of Machine Learning Techniques to Tire Related Datasets	Kanwar Bharat Singh, Goodyear Tire & Rubber		
11:35 AM	Lunch	n (Provided)			
1:00 PM	Plenary Lecture				
		An update review of Consumer Reports tire testing. Testing evolves to stay in touch with the consumer	Gene Petersen, Consumer Reports		
2:00 PM	Session 7: Tire Vehicle System		Will Mars, Endurica		
2:05 PM	7.1	Understanding Tire Dynamic Characteristics for Vehicle Dynamics Ride using Simulation Methods	Yaswanth Siramdasu, Hankook Tires		
2:35 PM	7.2	Influence of Vehicle Boundary Conditions on the Forces Transmitted below 400Hz between Wheel and Hub	<b>Charles H. Boston,</b> Continental Reifen Deutschland GmbH		
3:05 PM	7.3	Vehicle Dynamics Hybrid Simulation with Physical Tires	<b>Tom Stachel,</b> MTS Systems Corporation		
3:35 PM	Break	c / Refreshments	Matt Calmandan Conn. T. C		
3:55 PM	Sessi	on 8: Tire & Road Interaction	Matt Schroeder, Cooper Tire & Rubber		
4:00 PM	8.1	Stephanie Kahms. Leibniz Univ			
4:30 PM	8.2	Objective Tire Footprint Segmentation Assessment from High Speed Videos	Duc Fehr, Goodyear Tire & Rubber		
5:00 PM	Close	of Conference	Nathan Billy, Conference Chair		

## 37th Annual Business Meeting and Conference on Tire Science and Technology

September 11-12, 2018 Hilton Akron/Fairlawn Hotel Akron, Ohio

## **Schedule Overview (detailed schedule inside)**

Day 1 - Tuesday, Sept 11			Day 2 - Wednesday, Sept 12			
7:00a	<b>Registration:</b> Foyer (all day)	1	7:00a	<b>Registration</b> (half	day)	
	<u>Day 1 Presentations:</u> Akron/Summit Ballroom			Day 2 Presentat Akron/Summit Ball		
8:00a	Welcome: Randy Jenniges, President		8:00a	<b>Opening:</b> Joshua Herron, Conference Chair		
8:10a	Keynote Address Jim Popio		8:05a	Simulation	2 Presenter	
9:10a	Smithers Rapra, North America  Opening		9:10a	Report to Members Randy Jenniges, President		
	Nathan Billy, Conference Chair		10:10a	Break / Refreshments		
9:15a	<b>Tire Performance</b> 3 Presenters		10:30a	Data Analytics	2 Presenters	
10:50a	Break / Refreshments		11:35 <i>a</i>	Lunch(Provided)		
11:10a	Emerging Technologies 2 Presenters		1:00p	Plenary Lecture	Eugene Peterse	
12:15p	Lunch(Provided)			C	onsumer Report	
1:30p	New Light on Tire Technology I		2:00p	Tire Vehicle Syste	<b>m</b> 3 Presenters	
	3 Presenters		3:35p	Break/Refreshments		
3:05p	Break / Refreshments		3:55p	Tire & Road Intera		
3:25p	New Light on Tire Technology II  3 Presenters				2 Presenter	
5:00p	Reception: Conrad Ballroom		5:00p	Closing Remarks		
6:00p	Banquet: Conrad Ballroom					
8:00p	Close of Day 1					