**The Tire Society 39th Annual Meeting and Conference**

### PRELIMINARY PROGRAM
(all times Eastern Daylight Time)

**Monday, September 28, 2020**

8:00 Conference Opening

8:15 **Keynote Address:**
Chris Helsel  
Chief Technical Officer  
The Goodyear Tire & Rubber Co.

9:30 – 11:00 Technical Sessions

**Tuesday, September 29, 2020**

8:00 **Plenary Lecture:**
Giorgio Rizzoni  
The Ohio State University  
Director – Center for Auto. Research

9:30 – 11:00 Technical Sessions

**Wednesday, September 30, 2020**

8:00 Business Meeting
Gerald Potts  
Tire Society President

9:00 – 10:30 Technical Sessions

**Thursday, October 1, 2020**

8:00 – 10:00 Technical Sessions

10:00 – 11:15 Invited Lecture
Ross Tessien  
Author / Futurist

**Friday, October 2, 2020**

8:00 – 10:00 Technical Sessions

10:00 – 11:15 Panel Discussion

11:15 Conference closing

(Program subject to change)

### PAPERS TO BE PRESENTED


**“Periodic Results Transfer Operations for the Analysis of Damage Accrual Under Steady / Transient Rolling”** Mars, Paudel, Suter (Endurica / Dassault)


**“Tire Curing Process Analysis through SIGMASOFT Virtual Molding”** Geyne (3Dsigma)

**“Measuring Strain Fields and Crack Advance in a Pre-cut Planar Tension Test Specimen during Slow, Medium and High-Speed Straining”** Dodger, Miller (Axel Prod.)

**“Development of Geometrically Accurate Finite Element Tire Models for Virtual Prototyping and Durability Investigations”** Grossi, Samarini, Shaban (Exponent / Univ. Ill.)

**“A Comprehensive Constitutive Equation and the Prediction of Tire Temperature and Rolling Resistance”** Assaad, Ebbott, Jiang (Goodyear)

**“A Validated Test Methodology to Evaluate Radial Ply Tire Road Hazard Impact Failures”** Southwell (Tyrexperts)

**“Speed Dependent Maxxis-Savkoor Friction Model for Rubber Compound”** Watson, Chung, et al (Maxxis)

**“Influence of Tire Force and Moment Properties on Sine with Dwell Maneuver Test Metric Variability”** Mousseau (General Motors)

**“Wheel Speed Effect on Transient Lateral Force and its Characterization by Ramp-Steer Test Method”** Y. Li (GCAPS)

**“Tire Mode Identification, Distribution Chart, and Correlation with Vehicle Testing”** T. Li (Maxxis)

**“A Study on Tire Ride Performance using Flexible Ring Models Generated by Virtual Methods”** Siramdasu, Li, et al (Hankook)

**“Road Induced Interior Noise: Use of OTPA to Determine Tire Contribution and Vehicle Sensitivity”** Demaziere (Michelin)

**“Self-Excited Full Vehicle Oscillations Caused by Tire-Road-Interaction – Virtual and Real-World Experimental Investigation”** Engel (HAW)

**“Effect of Tyre Imperfection on Vehicle Response”** Jha, Madhav, et al (Hari Shankar)

**“Elimination of Stray Forces from Tire Dynamics Measurements”** Potts (GRP Dynamics)

**“40 Years and More of Tire Science and Technology - A History of the Tire Society”** McIntyre (Bridgestone)

**“Advantages of a cross-ply carcass tire construction on key performances (especially for electrically driven vehicles)”** Calabrese, Bäcker, Gallrein (Fraunhofer-Institut)

**“Voxel-based Finite Element Modeling to Predict Tread Stiffness Variation Around Tire Circumference”** Sanyal (Cooper)

**“Tire Conditions Needed to Maintain Contact Patch Shape”** Van Gennip, Okamoto (A&D)

**“Off-the-Road Tire Performance Evaluation Using High Fidelity Simulations”** Nandi, Lewis (Dassault)


**“How to Test Snow Tread Block Traction in Lab: Effect of Snow Density”** Hindemith, Heidelberger, Wangenheim (Leibnitz University)


**“Application of Steady State and Transient Acceleration Signals in Intelligent Tire”** Zhao, Liang, et al (Tsinghua Univ.)

**“Research on a Synergistic Method of Improving Tire Rolling Resistance and Grip Performance”** Liang, Li, et al (Jiangsu Univ.)

**“Isogeometric Analysis for Tire Simulations: From Mesh Generation to High Precision Results”** Israfilova, Garcia, Kalishe (TU Dresden)