

***FORENSIC TIRE FAILURE ANALYSIS COURSE – April 24 & 25, 2018***

The Society of Automotive Engineers – Alberta Section is pleased to host a ***Forensic Tire Failure Analysis*** course on April 24 and 25, 2018 between 8:00 a.m. and 5:00 p.m. The course will be held at the Government of Alberta building in Room B041 at 9820 – 107 Street NW, Edmonton, Alberta.

The two-day course will be presented by Mr. T.J. Tennent, engineering manager from Bridgestone. Please review Mr. Tennent’s biography as well as the outline for the custom-designed course. The course is intended to provide an overview of automobile, motorcycle and commercial tire construction and failure analysis. Several failed tires will also be on hand and practical accident case studies will be reviewed.

The registration cost for this course is **\$650** for SAE MEMBERS, **\$750** for NON-MEMBERS and **\$75** for STUDENTS. We are offering a significant discount to our student members. Registration includes coffee breaks and lunches. Mr. Tennent will be bringing copies of the ***Passenger and Light Truck Tire Conditions Manual*** published by the Tire Industry Association. He strongly recommends this reference manual. Attendees can purchase it directly from him for **\$100 USD** by credit card.

Nearest outdoor parking lot is the Impark lot at 9907 – 106 Street. For those traveling from out of town, recommended nearby hotel is the Matrix Hotel at 10640 – 100 Avenue, Edmonton, Alberta (<http://www.matrixedmonton.com>). If you have any questions, then don’t hesitate to contact us.

Best regards,

Andrew Happer, P.Eng.

Chair – SAE Alberta Section

(780) 801-0715

[info@saealberta.org](mailto:info@saealberta.org)

***FORENSIC TIRE FAILURE ANALYSIS COURSE – April 24 & 25, 2018  
@ Government Building – Room B041, 9820 – 107 Street, Edmonton***

**REGISTRATION**

Name: \_\_\_\_\_

Depart./Business: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Choose ONE of the following:**

Non-Member \$750.00 \_\_\_\_\_

SAE Member \$650.00 \_\_\_\_\_

Student \$75.00 \_\_\_\_\_

**Please submit registration via e-mail to [info@saealberta.org](mailto:info@saealberta.org) and mail copy along with cheque payable to “SAE - Alberta” attention of:**

Mr. Jason Kuo, P.Eng.  
#209, 7909 - 71 Street NW  
Edmonton, Alberta  
T6B 3P5

Registration includes coffee breaks and lunches.

*Note: Please register by April 18, 2018*

# Tire Forensics and Accident Reconstruction Lesson Plan

## Recommended Periodicals

- Tire and Rim Association Annual Yearbook\*\*
- Tire Industry Association Consumer Tire Conditions Manual\*
- Tire Maintenance Council Commercial Radial Tire Conditions Manual  
**\*(Recommended purchase for this class)**  
**\*\* (Only one per division)**

## Commercial Tires (2 Hours)

- Truck/Bus Radial Basics
- Materials
- Components
- Repairs
- Tire/Rim Load Capacity vs GAWR
- Commercial Failure Analysis

## Consumer Tires (3 Hours)

- **Tire Construction Video**
- Why Tires are Important
- Tire Performance Requirements
- Tire Construction Basics
- Vehicle Door Placard
- Load Index
- Tire Deflection
- Proper Tire Maintenance
- Tire Repairs
- Air Pressure Effects on Tires
- Tire Application Guidelines
- P-Metric Vs Euro Metric Vs Light Truck
- Consumer Failure Analysis

## Motorcycle Tires (1.5 Hours)

- Darkside
- Suspension setup

### Field Practice (3.5 Hours)

- Door Placard
- Tire Size Comparison
- Loads
- Out of Service Tire Analysis

### Accident Case Studies (2.0 Hours)

Analysis and breakdown of accident cases and conclusions.

How to use Engine Control Unit Data, Video Data and other opportunities for data analysis.



## **T.J. TENNENT**

**Engineering Manager, Bridgestone Americas Tire Operations**



T.J. Tennent is an engineering manager for Bridgestone Americas Tire Operations (Bridgestone). In this role, T.J. is responsible for managing a team of engineers in the development of a variety of consumer, commercial and motorcycle tire products. He also works on tire-related contracts with local, state and federal governments, as well as the U.S. Department of Defense.

T.J. joined Bridgestone in August 2001 and has spent the last 16 years working in various roles of increasing responsibility. He previously served as project manager of Bridgestone Motorsports and Bridgestone Racing. He also is Board Chair for the Tire and Rim Association's motorcycle subcommittee.

A Louisiana native, T.J. earned an electrical engineering degree from Southern University and Agricultural and Mechanical College in Baton Rouge, Louisiana. Outside of work, you'll most often find T.J. riding his motorcycle or cruising around town in his Ferrari. He also enjoys spending time with his wife and son.