

## **Carl D. McAfee – CV prepared for ProChemist website – 9 September 2022.**

### **Papers**

“Tire Pyrolysis: A Carbon Black Alternative”, Carbon Black World Conf., 25 May 2016, Fort Worth, TX.

“Finely Ground Pumice as a Potential Filler/Reinforcement Material for Silicone Elastomers”, ACS Rubber Division Meeting, Natural & Renewable Materials, Cleveland, OH October 2013.

“Fiber Reinforced Silicone Elastomers for Oil & Gas Applications”, presented to Energy Rubber Group, Houston, TX Jan 2012, Article published in Rubber & Plastics News, April 16, 2012, p. 15-17.

“Effects of Nanoclay Structure on the Mechanical Properties of EPDM”, ACS Rubber Division Fall Technical Meeting, Cleveland, OH October 2010.

“Ultrafine Scrap Tire Rubber in novel TPO” presented to the ACS Rubber Division Meeting, Cleveland, OH October 2008, Article published in Rubber World March 2008, Volume 237, No. 6, p. 31-34.

### **Presentations**

“The Effects of Multiple Repurposed Materials for Reinforcements of Standard Rubber Compounds”, International Elastomer Conference, Knoxville, TN (Virtually), October 2020.

“Dynamic Testing of Elastomers”, Presented to the Canada Rubber Meeting, Toronto, May 2016.

“Natural Amorphous Silica (Finely Ground Pumice) as an Enhancer for Carbon Black in EPDM Formulations”, ACS Rubber Division Meeting, Cleveland, OH October 2015.

“Commercializing Nanotechnology”, Energy Rubber Group, Houston, TX January 2013.

“Composite Railroad Ties”, Society for Advanced Materials for Process Engineering, Charleston, SC 2013.

“Aluminum Silicate Glass for Rubber Roll Formulations”, Rubber Roller Group Annual Technical Meeting, Charlotte, NC May 2013.

“Reground Rubber for Aggressive Environments”, Energy Rubber Group Spring Technical Meeting, Arlington, TX May 2010.

“Effects of Nanoclay Structure on the Mechanical Properties of EPDM”, PJ Yoon & CD McAfee, ACS Rubber Division Meeting, October 2009.

“Thermoplastic Elastomers for Industrial Applications”, National Plastics Exposition, Chicago, IL 2008.

“Designed Experiments for Formulating”, Energy Rubber Group, Arlington, TX May 2008.

“Modern Methods of Polymer Characterization”, Energy Rubber Group, Houston, TX Jan 2007.

“Ultrafine Particle Size Ground Elastomers in Novel TPO Applications”, ACS Polycom Conference, Galveston, TX September 2008.

“Nanomaterial Reinforced Nitrile Rubber for Industrial Rollers”, Roller Group, Orlando, FL May 2005.

“TPE and TPU for Industrial Rollers” Russian Roller Federation, St. Petersburg, Russia, October 2004.

“TPEs and TPUs for Industrial Roller Applications”, Rubber Roller Group, Kansas City, MO May 2002.

“Design of Experiments: The Fundamentals” Energy Rubber Group, Arlington, TX May 2001.

### **Hosted Symposium**

“Therapeutic Drug Delivery Symposium”, Berkeley CA October 2001. Over 100 companies represented.

### **Corporate Seminars**

“Successful Application of Designed Experiments”, 2 day seminars presented onsite to companies including: Coca-Cola, General Electric, National Oil Well Varco, Chiron, Stryker Biotech, etc. (30+ total).

### **Book Chapter**

Tire Waste and Recycling, Chapter 8, “Make Rubber, Sell Rubber: Building a Sustainable Industry.”

### **Edited Books**

Technical Editor of Rubber Roller Handbook, prepared for the Rubber Roller Group, ACS Rubber Division.