

# Leighton Spadone, Tire Technology and Analytics

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## CAREER SUMMARY

President of DAAS, Tire Technology and Data Analytics Consulting firm with tire manufacturing clients in Romania, China, India, and Poland. Expert Witness for Earthmover Tires R&D, manufacturing, and mine site performance retained for London Arbitration between Titan Tire and BHP Billiton Group Mines in Feb2017.

Chief Technical Officer, Eurotire Inc. responsible for managing OTR Tire technology, including Compound Formulations, Curing Systems, Manufacturing Processing, Material Technology, Tire Design, Statistics, Application Programming, Quality Assurance, and Technical Services for Radial OTR Production.

R&D Technical Associate at Goodyear Tire & Rubber with a record of success in Materials Research, Compounding, Tire Curing, Radial Truck and OTR Product Development, Manufacturing Process Development, and Design of Experiments and Modeling, Project Management, Data Modeling, and experience in SAS and JMP technical application program development. Assignments in Jamaica, Brazil, and Indonesia.

## CONFERENCE PRESENTATIONS:

2020 "CURE PROFIT ENGINE" ITEC Tire Conference.

2018 "DMPH: Predicting OTR Tire Deflection"

2017 "Rubber Mixing Uniformity" 2017 ITEC and ACS Rubber Division and published in RPN

2016 "Overview of Tire Curing Technology" University of Akron

2016 "Paired Design for Treadwear Testing" ITEC and published in RPN Magazine

2015 "Efficient Paired Design Treadwear Testing and Analysis" ACS Rubber Division

2015 "Introduction to Split Plot Design's Analysis" Central Ohio JMP Users Group

2015 "Predicting OTR tire TMPH field ratings from Test Wheel results" ITEC Tire Conference

2007 "Predicting Radial Truck and Passenger Road Tire Performance from Test Wheel results" ASTM Papers

Recognized as an expert in *Heavy Tire Curing Methodology*, with strategies that reduced cure times by 40% for Radial Truck and EM Tires.

Expertise in Radial Truck and Earthmover tire compounding for all tire components. Assigned as a compounding consultant for all major R&D product groups including Radial Truck & EM Tires, Passenger and Light Truck, Farm and Aircraft.

A Manufacturing Product Development and Formulation Creation Specialist who is knowledgeable in *Quality Systems Analysis* and applying Statistical Process Control to reduce cost and variation.

An experienced designer of Technical Computer Applications including Data Modeling, GUI design, Coding and Flow-charting who has contributed to both Laboratory Information Systems and tire and compound Performance modeling systems.

Black Belt Six-Sigma project manager credited with building successful team environments. Has an ability to solve technically complex problems and provide solutions with positive impact on bottom line. Leighton has experience as teacher and consultant for Six-Sigma and JMP Statistical methodology.

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## HIGHLIGHTS

Field Engineering determining tire performance, tire failures causes, and tire returns.  
R&D Tire Design and Compounding for Domestic and International Clients  
Product Development for Radial Medium Truck, Light Truck, OTR and Farm Tires  
Off-the-Road Tire Temperature and Performance Modeling  
Heavy Tire Cure Modeling and Thermocoupling  
Tire Running Temperature Prediction for Wheel and Road testing

- Tire Performance Modeling  
Six Sigma Mixing Optimization  
RMT, OTR, and Farm Heavy Tire Compound Development  
Radial Tire Wire Coat Formulations  
Halobutyl Innerliner formulations  
Reversion Resistant Compound Development

## EDUCATION

### **BA in Chemistry**

University of Colorado, Boulder, Colorado

US Air Force Academy

Colorado Springs, Colorado

## TRAINING

Goodyear International Tire Materials Engineering Training  
Goodyear Six-Sigma Black Belt Certification  
JMP Programming and Statistical Training: Regression, ANOVA, Hazard Analysis, Neural Net, and Multivariate, Design of Experiments, Quality and Process, Mixed Models, and Mixture Models, Relational Database Design at System Advisors, London  
Project Management Training at Battelle Institute and ETP Corporation  
Management Training at Kent State University, Battelle Institute, and Vance Institute  
Sales and Project Management Training  
Principles of Electron Accelerators

## TECHNICAL TOOLS

Software Apps: MS Office, MS Project, SAS and JMP

Programming: SAS, JMP, and REXX

Instructor: JMP Statistical Data Exploration, ANOVA and Regression Analysis, Design and Analysis of Experiments, Six Sigma Courses, Cure Technology and Statistical Compounding.

## ASSIGNMENTS:

1986 Akron, Ohio: Project Manager Data Modeling System and Principal Compounder for RMT

1989 Akron, Ohio: Project Manager Corporate Materials Information Database Modeling. Reversion Resistant Compound Development.

1992 Akron, Ohio: R&D Associate Radial Off the Road Tire Materials, Applied Statistics and Heavy Tire Curing Processes. Project Manager of Advanced Wire Coat Development.

1996 Akron, Ohio: R&D Associate support for Aircraft, Farm, RMT, RLT, and OTR Materials, Compounding, and Curing

2003 Akron, Ohio: Project Mix Efficiency – Completed Goodyear Six Sigma Black Belt Certification

2004 Akron, Ohio: Six Sigma and JMP Statistical Training Instructor

2007 Akron, Ohio: Senior R&D Associate – ASTM Statistical Modeling of RMT Temperature Response to Flat vs. Curved Surfaces for Tire Industry and NHTSA

2009-2014: Chief Technical Officer Eurotire Inc. Radial OTR tire development and production in Romania.

2012-Present: President of DAAS Inc. Tire Technology and Data Analytics in India, Poland, & China

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