



EDWARD C. SEBAK, B.E.

***BACHELOR OF ENGINEERING
TIRE SPECIALIST***

CURRENT EMPLOYMENT

Ruhl Forensic, Inc., since 1997.

Staff engineer, specializing in the forensic analysis of the design, development, production, and evaluation of tires including high-performance tires, truck tires, retreaded tires, light truck tires, farm tires, off-road tires, industrial tires, aircraft tires-military, aircraft tires-commercial. Engineering expertise in the inspection of mechanical and vehicular systems. Accident investigation and reconstruction.

PREVIOUS EMPLOYMENT

Continental / General Tire, 1962 – 1996.

Designed, developed, specified materials and coordinated with production for manufacturing passenger tires (including radial and radial high performance, replacement and OEM), truck tires, retread tires, off-the-road tires, farm tires, industrial tires, aircraft tires. Work responsibilities included:

Forensic Analysis Experience. Assumed responsibility for forensic evaluations for over seven years. Reconstructed product failure modes/environments, analyzed specific failures with respect to conditions and product, performed visual inspections, physical evaluation, chemical analysis as needed/permitted by legal process, assisted with in-house determinations of liability, recommended company posture in litigation issues, provided expert testimony in court and depositions, prepared company representatives for trial, prepared visual aids for courtroom demonstrations.

Engineer, Medium and Light Truck Tire Development . Designed, developed, specified materials for, and coordinated with production for new line of truck tires, designed retread matrices and wrote specifications for off-the-road tires, farm tires, and industrial tires

Engineer, Aircraft Tires Development. Analyzed and modified designs to meet strict customer specifications for commercial/military aircraft tires, specified testing, evaluated cycles, monitored and evaluated wear tests, performed failure analysis, verified product performance and specifications on-site.

Equipment Development. Developed a methodology which utilized injection molding, similar to those found in the plastics industry, to produce rubber components for use in tire production which significantly improved the uniformity and durability of the tires. Introduced and developed segmented molds for passenger vehicle tires; developed parameters for green tire development for passenger, segmented molds; designed

container mechanisms for various molds. Played key role in design and implementation of bead lock drum. Provided consulting/promotional services for vendors, introducing equipment to visiting international clients, answered random questions, recommended strategies for effective implementation.

Coordinated with vendors to procure new equipment or design modifications to suit production methods.

Retread tires. Retread development for radial truck / bus tires and retread equipment including matrix design.

EDUCATION

Post-Graduate:	University of Akron
Major Field:	Business Coursework
B.E., 1962:	Youngstown University
Major Field:	Mechanical Engineering

SPECIAL TRAINING

31st Clemson University Global Tire Industry Conference, Hilton Head, SC, April, 2015

International Tire Exhibition and Conference, Akron, Ohio, September, 2014

Tire Society Conference, Akron, Ohio, September, 2014

29th Clemson University Global Tire Industry Conference, Hilton Head, SC, April 2013

International Tire Exhibition and Conference, Cleveland, Ohio, September, 2012

Tire Society Conference, Cleveland, Ohio, September, 2012

International Tire Exhibition and Conference, Cleveland, Ohio, September, 2010

International Tire Exhibition and Conference, Akron, Ohio, September, 2008

Tire Society Conference, Cleveland, Ohio, September, 2008

Clemson University's 24th Annual Tire Industry Conference, Hilton Head, SC, March, 2008

International Tire Exhibition and Conference, Akron, Ohio, September, 2006

Tire Society Conference, Cleveland, Ohio, September, 2006

International Tire Exhibition and Conference, Akron, Ohio, September, 2004

Tire Society Conference, Cleveland, Ohio, September, 2004

International Tire Exhibition and Conference, Akron, Ohio, September, 2002

International Tire Exhibition and Conference, Akron, Ohio, September, 2000

Graduate, Traffic Accident Reconstruction I, Northwestern University, Evanston, IL, January, 1999

Graduate, Traffic Accident Investigation II, Northwestern University, Evanston, IL, March, 1999

Auto Accident Reconstruction, Society of Automotive Engineers

Commitment to Excellence program, Time Management, Human Issues, Management Training

Product Liability and the Engineer, Kent State University

Design of Experiments, University of Kentucky extension course

PROFESSIONAL SOCIETIES

American Chemical Society
National Safety Council (Firm Membership)
Ohio Rubber Group
Society of Automotive Engineers
Tire Industry Association
The Tire Society

PATENTS

US Patent 5676980 Center Split Segmented Mold for Curing Pneumatic Tires, 10/14/97

US Patent 4466473 Tire Ply Splice Construction and Method of Making the Same, 8/21/84

PRESENTATIONS

“Tire and Wheel Failure Analysis”, Pennsylvania Bar Institute’s Litigating Tractor Trailer Accidents Seminar, Pittsburgh, PA, November 6, 2007

“Tire and Wheel Failure Analysis”, Pennsylvania Bar Institute’s Litigating Tractor Trailer Accidents Seminar, Philadelphia, PA, November 2, 2007
(Mechanicsburg, PA participated via videoconference.)

PUBLICATIONS

Sebak, Ed. Tires and Wheels, published in *Truck Accident Litigation, Third Edition*, American Bar Association, 2012.

Sebak, Ed. Tires and Wheels, published in *Truck Accident Litigation, Second Edition*, American Bar Association, 2006.

Editorial duties on *Truck and Trucking Handbook: A Primer*, published by Ruhl and Associates, May, 2000