



Unified
Investigations & Sciences, Inc.



Atlantic Coast Service Center

Richard H. Berry, P.E.
Senior Forensic Engineer

Charlotte, North Carolina
704-426-6130
rberry@uis-usa.com

EDUCATION:

University of Illinois
Urbana-Champaign, Illinois
Bachelor of Science, Aeronautical & Astronautical Engr.

REGISTRATIONS:

Registered Professional Engineer in North Carolina (#032303)
Registered Professional Engineer in South Carolina (#27186)
Registered Professional Engineer in Virginia (#046033)
Registered Professional Engineer in Georgia (#PE035547)
Registered Professional Engineer in Ohio (#E-43065)
National Council of Examiners for Engineering and Surveying (#29707)

EMPLOYMENT:

Unified Investigations and Sciences, Inc. (UIS)
Unified Forensics, PLLC (Affiliate Company of UIS)
Charlotte, North Carolina
February 2009 to present

EMPLOYMENT (CON'T):

Senior Forensic Engineer – Consulting in general forensic engineering typically involving [but not limited to] mechanical equipment failures, hydraulic system failures, piping failures [including CSST], HVAC systems, vehicular accident reconstruction [passenger, truck, motorcycle & pedestrian]; vehicle airbag control module downloads/analysis; vehicle fires; tire failures; gas and electric appliance fires; water intrusion.

INDEPENDENT CONSULTING ENGINEER

Charlotte, North Carolina

November 2003 – January 2009

Consultant - Provided contract-engineering services in tire manufacturing and failure analysis to the tire industry and automotive engineering firms (part-time).

MICHELIN AIRCRAFT TIRE CORPORATION

Charlotte/Norwood, North Carolina

April 1996 – October 2002

Dynamic Testing Engineer - Scheduled and provided oversight for all indoor dynamic test operations. Included monitoring and calibrating equipment, writing testing procedures, training research technicians, performing specialized tests, monitoring safety, tracking testing efficiency, and certifying/documenting all results.

Manufacturing Liaison - Served as a liaison between Research & Development and Manufacturing. Maintained an office within the manufacturing facility and represented the needs of both R&D and manufacturing in discussions related to the launch of new products. Monitored the quality and cost of putting new products in production. Made recommendations to resolve departmental conflicts in timely manner and allow production to proceed. Tracked the quality of existing products and implemented changes within the process.

EMPLOYMENT (CON'T):

MICHELIN-SIME AIRCRAFT TYRE COMPANY, BHD.
Charlotte, North Carolina/Kuala Lumpur, Malaysia
August 1989 – March 1996

Senior Design Engineer - Provided engineering design needs in support of an international joint-venture operation in Kuala Lumpur, Malaysia. Project included visits to the site, training of local technicians and engineers, maintenance of all manufacturing specifications, development and qualification of new products, field engineering, flight test oversight and coordination of the joint-venture customer needs in Europe and in the United States.

UNIROYAL GOODRICH TIRE COMPANY
Akron, Ohio
December 1984 – July 1989

Tire Development Scientist - Responsible for the development of low aspect ratio, high performance passenger tires for the European Original Equipment market. Provided designs specific to the high speed, performance handling, durability, noise, and wet/dry traction needs of customers. Coordinated and oversaw repeated iterations of domestic and European track testing. Monitored prototype tire fabrication including follow-up testing and failure analysis. Developed and implemented logistical techniques to ensure compliance with an accelerated development schedule.

BFGOODRICH TIRE COMPANY
Akron, Ohio
September 1970 - November 1984

Senior Tire Development Engineer - Provided engineering support for passenger tires used in domestic light truck original equipment applications [Ford and General Motors]. Oversaw internal implementation of the industry conversion from alpha-numeric to P-metric sizing designations. Authored and launched initial testing procedures for newly mandated rolling resistance specifications.

EMPLOYMENT (CON'T):

Product Engineer - Provided bias ply designs for both light and heavy duty truck tires. Development processes, related internal/external documentation and testing procedures were specific to this product line.

Manufacturing Engineering - Experience in maintaining and improving aircraft tire manufacturing processes. Responsibilities included issuance of all documentation to the shop floor, monitoring of production efficiency, scrap reduction, and training machine operators in the fabrication of new products. Also served as an intermediary with the Research and Development function.

Associate Product Engineer - Entry-level engineering position in aircraft tire research and development. Assisted with the design and development of a multitude of tires sizes for military, commercial and general aviation applications. Responsibilities included selection of materials, weight calculations, bias ply configuration, mold cavity design, oversight of prototype fabrication, issuance of test procedures, test monitoring, and failure analysis. Issued certifying documentation to appropriate regulatory agencies.

SPECIALIZED TRAINING:

- IAAI Expert Vehicle Fire Investigation, Charlotte Police and Fire Academy, November 2010, Charlotte, North Carolina
- IAAI Expert Witness Courtroom Testimony, Charlotte Fire Investigation Task Force, September 2010, Charlotte, North Carolina
- Bosch Crash Data Retrieval Analyst, Collision Safety Institute, February 2010, Fairfax, Virginia
- Bosch Crash Data Retrieval Technician, Collision Safety Institute, February 2010, Fairfax, Virginia
- Investigation of Gas and Electric Appliance Fires Seminar, Fire Findings Laboratories, November 2009, Benton Harbor Michigan
- Fire Investigative Approaches, IAAI, October 2009, Myrtle Beach, South Carolina

SPECIALIZED TRAINING (CON'T):

- Basic Fire Investigation, Cleveland Community College, Brown Emergency Training Center, June 2009, Shelby, North Carolina
- Environmental Biodiesel, Central Piedmont Community College, Center for Sustainability, November 2008, Charlotte, North Carolina
- Accident Reconstruction I, Northwestern University Center for Public Safety, October 2006, Evanston, Illinois
- Accident Reconstruction Field Training, Engineering Design & Testing Corp., August-November 2006, Charleston, South Carolina
- Confined Space Entry, Compliance Solutions Occupational Trainers, Inc., August 2006, Charlotte, North Carolina
- Forensic Engineering Update, University of North Carolina at Charlotte, November 2004, Charlotte, North Carolina

PROFESSIONAL ORGANIZATIONS:

- Society of Automotive Engineers (SAE)
- American Society of Mechanical Engineers (ASME)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)
- International Association of Arson Investigators (IAAI)