TARA TROXEL

Director, Biomechanical Engineering
ASP, CSP, CXLT

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CREDENTIALS

- **ASP** | Associate Safety Professional
- **CSP** | Board of Certified Safety Professionals, Certified Safety Professional CSP-51140
- **CXLT** | Certified English XL Tribometrist
- **WACH** | National Floor Safety Institute, Walkway Auditor Certificate Holder
- **CHWT** | Certificate Holder of Walkway Tribometry

PROFESSIONAL EXPERIENCE

- **2014 - 2026** | Principal Biomedical/ Safety Consultant | SEA Limited
- **2008 - 2014** | Research Scientist | TRC, Inc. for NHTSA VRTC
- **2008 - 2008** | Test Engineer | MGA Research
- **2008 - 2008** | Independent Safety Consultant | NASCAR
- **2003 - 2008** | Academic Researcher | Wayne State University
- **2001 - 2003** | Corporate Health and Fitness Advisor | Harris Health Trends, Inc.
- **2000 - 2001** | Certified Personal Trainer | 24 Hour Fitness/ AXIS Performance Center
- **1997 - 2000** | Exercise Science Research Assistant | Colorado State University
- **1994 - 1997** | Sales Associate and Mechanic | Bikeworks/ Rock 'N Road Cyclery

PRACTICES & SKILLSETS

- Biomechanics
- Failure Analysis
- Human Factors
- Premises Liability
- Products Liability
- Slip and Fall Evaluations
- Sight Distance Visibility

EDUCATION

- Wayne State University - Doctor of Philosophy (PhD) - Biomedical Engineering - Detroit, Michigan
- Wayne State University - Master of Science (MS) - Biomedical Engineering - Detroit, Michigan
- Northwest Ohio Consortium for Public Health - Master of Public Health (MPH) - Administration and Management - Toledo/ Bowling Green, Ohio
- Colorado State University - Bachelor of Science (BS) - Exercise and Sport Science - Fort Collins, CO

TRAINING COURSES

- Field Inspection 101 - Amusement Industry Manufacturers and Suppliers International - Denver, Colorado - 2026
- Situational Awareness - Amusement Industry Manufacturers and Suppliers International - Denver, Colorado - 2026
- Facility Inspection - Amusement Industry Manufacturers and Suppliers International - Denver, Colorado - 2026
- Certificate Holder in Walkway Tribometry - Slip-Test LLC - Tampa, Florida - August 2026
- KSS Pendulum Tribometer training - Slip-Test LLC - Columbus, Ohio - 2023
- Fair Housing Act and International Building Code - Great Lakes ADA Center - Columbus, Ohio - 2022
- Accessible Temporary Events - Great Lakes ADA Center - Columbus, Ohio - 2022
- Accessible Swimming Pools and Spas - Great Lakes ADA Center - Columbus, Ohio - 2022
- Using Warnings and Instructions to Increase Safety and Reduce Liability - University of Wisconsin-Madison - Madison, Wisconsin - 2021
- Accessible Play Areas - Great Lakes ADA Center - Columbus, Ohio - 2021
- Mark IIIB Operator Training - Slip-Test LLC - Columbus, Ohio - 2021

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- Takeout and Delivery: COVID 19 Precautions - ServSafe - Columbus, Ohio - 2020
- Powered Industrial Trucks, Developing a Training Program - Ohio Bureau of Workers Compensation - Columbus, Ohio - 2016
- English XL Tribometry - English XL - Indianapolis, Indiana - 2016

AFFILIATIONS

- ASTM F13 Committee for Pedestrian/Walkway Safety and Footwear: including subcommittees for traction, footwear, research, walkway surfaces, and terminology
- ASTM F08 Committee for Sports Equipment, Playing Surfaces, and Facilities: including subcommittees for trampolines and related equipment, headgear and helmets, playground and surfacing systems, natural playing surfaces, artificial turf surfaces and systems, sports facilities, US TAG to TC 83 on Sports and other recreational facilities and equipment
- ASTM D13 Textiles, Subcommittee for Home Furnishings/ Bathmats
- ASTM F15 Committee on Consumer Products: including subcommittees on bathtub and shower structures, home playground equipment, playground equipment for public use, and constant air inflatable play devices for home use
- ASTM F24 Committee on Amusement Rides and Devices: including subcommittees on water related amusement rides and devices
- ASTM F27 Committee on Snow and Water Sports: including subcommittees on binding test procedures, skiing and snowboarding equipment, new projects, freestyle terrain jump features, and water sports equipment

SERVICE SPECIALTIES

- **Accident Reconstruction & Biomechanics**

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