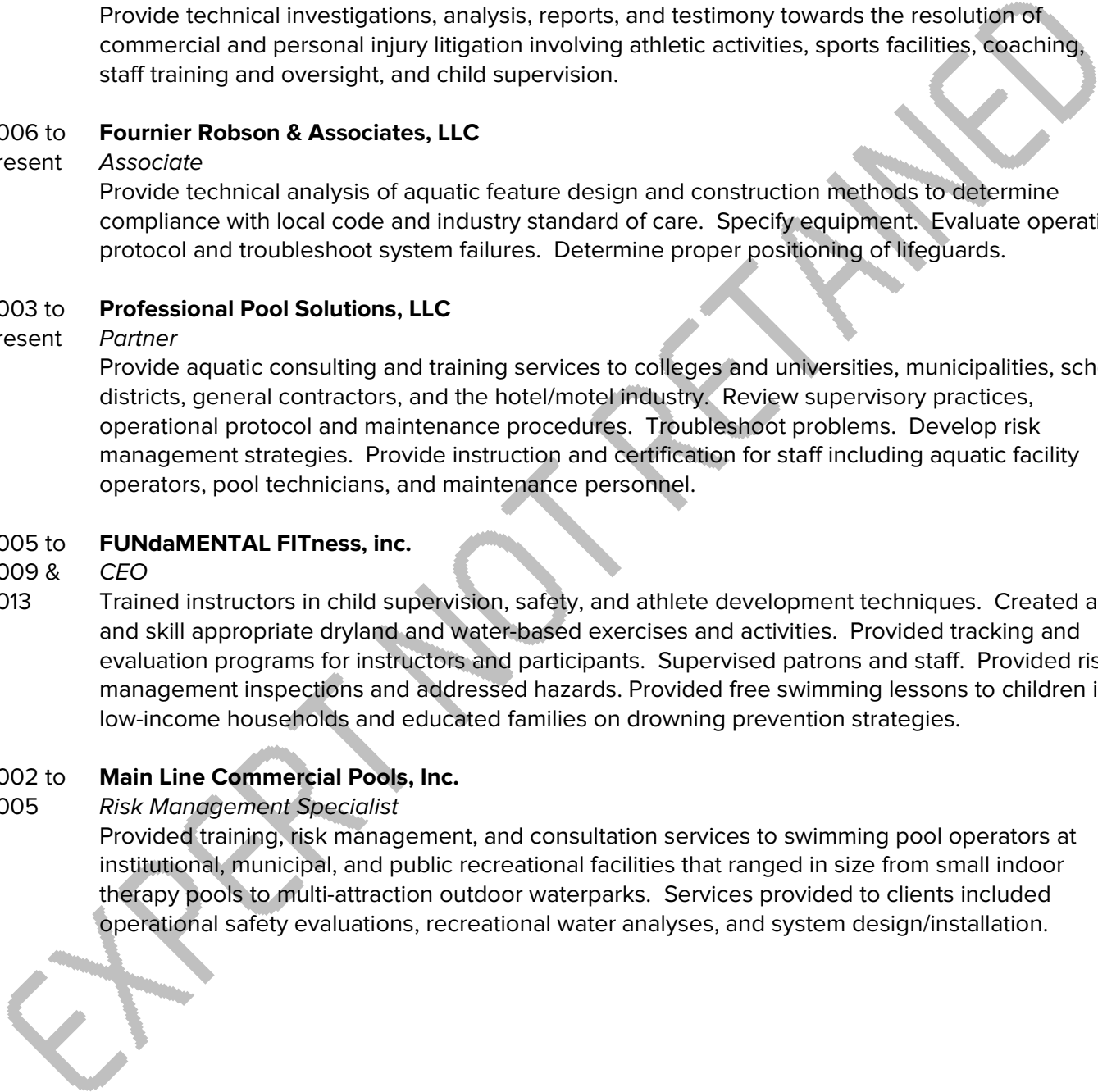


PROFESSIONAL EXPERIENCE

- 2004 to present **Robson Forensic, Inc.**
Associate
Provide technical investigations, analysis, reports, and testimony towards the resolution of commercial and personal injury litigation involving athletic activities, sports facilities, coaching, staff training and oversight, and child supervision.
- 2006 to present **Fournier Robson & Associates, LLC**
Associate
Provide technical analysis of aquatic feature design and construction methods to determine compliance with local code and industry standard of care. Specify equipment. Evaluate operation protocol and troubleshoot system failures. Determine proper positioning of lifeguards.
- 2003 to present **Professional Pool Solutions, LLC**
Partner
Provide aquatic consulting and training services to colleges and universities, municipalities, school districts, general contractors, and the hotel/motel industry. Review supervisory practices, operational protocol and maintenance procedures. Troubleshoot problems. Develop risk management strategies. Provide instruction and certification for staff including aquatic facility operators, pool technicians, and maintenance personnel.
- 2005 to 2009 & 2013 **FUNDaMENTAL FITness, inc.**
CEO
Trained instructors in child supervision, safety, and athlete development techniques. Created age and skill appropriate dryland and water-based exercises and activities. Provided tracking and evaluation programs for instructors and participants. Supervised patrons and staff. Provided risk management inspections and addressed hazards. Provided free swimming lessons to children in low-income households and educated families on drowning prevention strategies.
- 2002 to 2005 **Main Line Commercial Pools, Inc.**
Risk Management Specialist
Provided training, risk management, and consultation services to swimming pool operators at institutional, municipal, and public recreational facilities that ranged in size from small indoor therapy pools to multi-attraction outdoor waterparks. Services provided to clients included operational safety evaluations, recreational water analyses, and system design/installation.



THE EXPERTS
Robson Forensic

MARIA BELLA, AFOIT, CPOI
Sports and Recreation Expert

- 2001 to 2004 **Meyer Jabara Hotels**
Athletic Facilities Champion
Inspected aquatic and recreation facilities and developed systems to increase safety. Trained company engineers in athletic facility operations including equipment selection, operation, and maintenance; chemical selection, storage and handling; hazard identification, evaluation and risk management processes. Provided ongoing education in recreational water illness prevention, suction entrapment protection, and staff development.
- 1999 to 2004 **Sheraton Hotel**
Health Club Director
Developed, implemented, and oversaw operation and maintenance program for recreation areas including fitness center, swimming pool and hot tub, volleyball court and miniature golf. Specified, purchased and when necessary repaired associated equipment. Brought facility into compliance with all codes and the standard of care. Contributed to R&D of chemical feed system for high-use pools and developed ancillary chemical treatment process. Implemented advanced training for staff, including processes for crowd control and handling intoxicated patrons. Served on hotel safety committee. Served as Manager on Duty for hotel as requested.
- 1986 to 2000 **Albright Aquatic Club; Barracuda Swim Team; Dynamic Aquatics, Inc.**
USA Swimming Head Coach
Schuylkill Valley High School, Centaurus High School
Head Swim Coach
Coached all levels of competitive swimmers, from novice through elite athletes. Created systems that incorporated traditional race development, water exercise, and cross-training for athletes. Developed and oversaw weight-lifting and nutritional programs for participants. Introduced mental training skills. Selected, instructed and supervised assistant coaching staff. Worked as liaison between administration and parents' organizations. Supervised all team-related activities including marketing, fund raising, equipment purchase and maintenance, pool scheduling and operation of multiple athletic facilities. Served as editor of *North Texas Swimming News*. Organized competitions and coordinated meet administration.
- 1986 to 1990 **Saine Concepts Inc.**
Owner
Created start-up business responsible for final-clean on new and renovated commercial properties. Budgeted and bid all projects. Hired, trained, and supervised staff at multiple job sites. Purchased and maintained equipment. Expanded into general contractor duties including project development, sub-contractor scheduling and oversight, budgeting, cost-control, and risk management.

THE EXPERTS
Robson Forensic

MARIA BELLA, AFOIT, CPOI
Sports and Recreation Expert

1984 to **A Child's Adventureland**

1986 *Aquatics Director*

Coordinated and scheduled all pool-related activities. Trained childcare staff in swimmer supervision. Water Safety Instructor. Lifeguard. Maintained swimming pool enclosure and associated equipment.

1976 to **City of Boulder, City of Broomfield, City of Lafayette**

1990 *Pool Manager/Swim Coach/Water Safety Instructor/Lifeguard*

Responsible for all aspects of swimming pool operation. Coordinated and scheduled all pool-related activities. Hired, trained, and supervised aquatic staff. Instituted new budget and financial control procedures. Developed maintenance program for pool, enclosure, and grounds. Oversaw chemical treatment and monitoring of pool water sanitation levels. Initiated infant and toddler learn-to-swim program. Introduced adult water exercise program. Advised on all other swimming instruction from beginner through competitive swimmer. Devised child supervision program. As swim team coach, trained competitive swimmers; oversaw all team activities; recruited participants; organized swim meets; planned budgeting, fund raising, and promotional activities; instituted and provided oversight on risk management procedures.

PROFESSIONAL CREDENTIALS

National Association of Amusement Ride Safety Officials

Certified Amusement Ride Safety Inspector
Operations Certification

National Recreation & Park Association

Aquatic Facility Operator
Aquatic Facility Operator Instructor
Aquatic Facility Operator Instructor Trainer

National Swimming Pool Foundation

Certified Pool Operator
Certified Pool Operator Instructor

Pennsylvania Department of Agriculture

Certified Pesticide Applicator, Category 24
Pesticide Applicator Instructor, Core and Category 24
Amusement Ride General Qualified Inspector

SCUBA Schools International

Certified Master Diver

Specialty training:

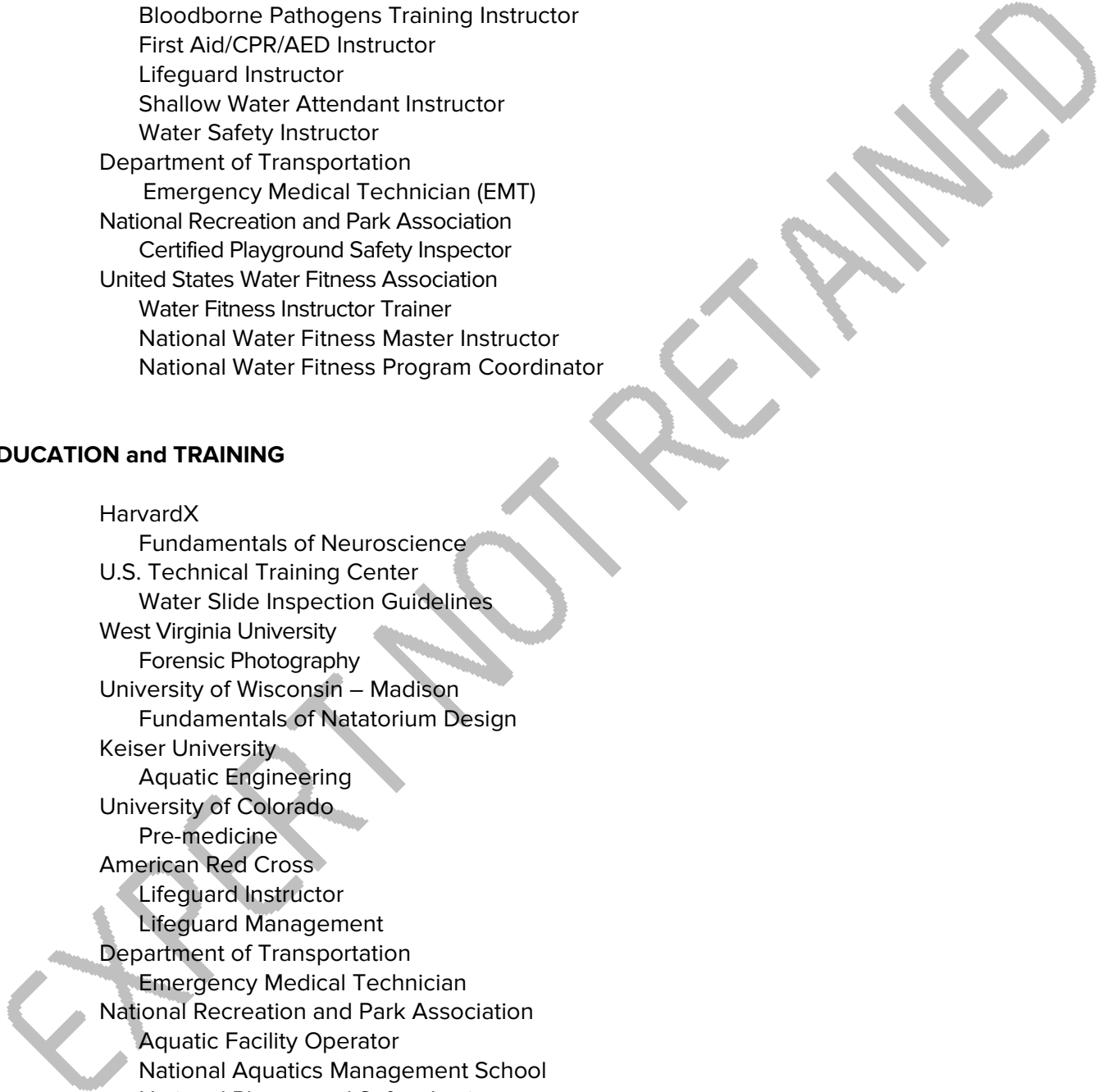
Deep diving
Drysuit diving
Navigation
Night and Limited Visibility
Stress & Rescue
Waves, Tides, and Currents
Wreck diving

PAST CERTIFICATIONS

American Red Cross
Administering Emergency Oxygen Instructor
Bloodborne Pathogens Training Instructor
First Aid/CPR/AED Instructor
Lifeguard Instructor
Shallow Water Attendant Instructor
Water Safety Instructor
Department of Transportation
Emergency Medical Technician (EMT)
National Recreation and Park Association
Certified Playground Safety Inspector
United States Water Fitness Association
Water Fitness Instructor Trainer
National Water Fitness Master Instructor
National Water Fitness Program Coordinator

EDUCATION and TRAINING

HarvardX
Fundamentals of Neuroscience
U.S. Technical Training Center
Water Slide Inspection Guidelines
West Virginia University
Forensic Photography
University of Wisconsin – Madison
Fundamentals of Natatorium Design
Keiser University
Aquatic Engineering
University of Colorado
Pre-medicine
American Red Cross
Lifeguard Instructor
Lifeguard Management
Department of Transportation
Emergency Medical Technician
National Recreation and Park Association
Aquatic Facility Operator
National Aquatics Management School
National Playground Safety Institute
National Swimming Pool Foundation
Certified Pool Operator
Incident Investigation



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Sports and Recreation Expert

CDC & CMAHC Webinar: COVID-19 and Aquatics (5/19/20)

World Aquatic Health Conference, 2005-2008, 2010, 2012-2017, 2019

Advanced Filtration Science:

Understanding the Mechanisms of Swimming Pool Filters

Pre-coat Filtration: Benefits & Disadvantages of Filtering with DE & Perlite

Sand Filtration: Using Coagulants to Improve Pathogen Removal

Pool Filtration Innovations: Hybrid Filters, Ceramic Media, & the Future

Aqua-Activity: A Pathway to Health and Function

Aquatic Attractions Management—Slides, Waves, Rivers, and Play Structures

Aquatic Facility Design and Risk Reduction

Aquatic Health Benefits and Therapy

Better Indoor Air: MAHC as a Vehicle for Change; Air Quality Ad Hoc Committee Update

Chlorine Dioxide as a Potential Disinfectant for Emergency Response to Suspected

Cryptosporidium Contamination

CMAHC Conference 2020 Listening Post: Plans for 2020 CMAHC Conference, Change

Request (CR) Process Changes, Submitted CR Summary, New CR Ideas & Suggestions

Communicating Pool Chemical-Safety Messages: A Public/Private Partnership

CPR and AED use in Aquatic Environments

Designing for Operational Success: Health & Safety are #1

Disinfection & Water Quality – Model Aquatic Health Code Recommendations & Rationale

Disinfection By-Products

Distracted Lifeguards: Reducing Distractions to Improve Lifeguard Readiness

Drowning Prevention and Lifeguarding

Effect of Cyanuric Acid on the Inactivation of *Cryptosporidium parvum* under

Hyperchlorination Conditions

Enhanced Filtration to Cope with Oocysts

Filtration & Circulation – Model Aquatic Health Code Recommendations & Rationale

The Good, The Bad, & The Volatile: Can We Have Both Healthy Pools & Healthy People

Impact of Different Treatment Processes on Concentrations of DBPs and Their Precursors

Industrial New Technology

International Conference on Swimming Pool & Spa, Rome 2013: Key Advances in Disinfection By-

Products and Microbiology

International Conference on Swimming Pool & Spa, Rome 2013: Key Advances in Science &

Regulations

Investigating Chlorine Dioxide as an Alternative for Inactivating *Cryptosporidium* in Aquatic

Venues that Use Stabilized Chlorine

Juvenile Obesity: Program Creation for Successful Aquatic Intervention

Key Messages from the World Conference on Drowning Prevention

Legionella Spp. Test with a Multi-Parameter Photometer

Mobile Inflatable Water Attractions

Model Aquatic Health Code: Planning for Continual Renewal and Research Needs

Model Swimming Pool, Spa and Hot Tub Code Provisions - Working to Mitigate Drowning, Injuries & Illnesses

National Aquatic Facility Inspection Surveillance System Data on Immediate Closures and

Violations—Unlocking the Potential Power of Aquatic Inspection Data

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Sports and Recreation Expert

Neuroscience for Brain-Friendly Communication
Neuroscience of Leadership
Operator Training – Model Aquatic Health Code Recommendations and Rationale
Outbreak of Gastrointestinal Illness Among Patrons and Employees of a Water Park Following a Backflow Prevention Error—Colorado, 2018
Preventing Chemical Release at Commercial Aquatic Facilities
Preventing Drowning & Other Injuries: Top Ten Model Aquatic Health Code Provisions
Preventing Outbreaks & Other Illnesses: Top Ten Model Aquatic Health Code Provisions
Recreational Water Illness and Injury Prevention – Lessons Learned
Recreational Water Illness (RWI) Advanced Chemistry: Advanced Chemistry and its Impact on Disinfection
Reducing Trihalomethane and Chloramines in Pools
Relationship Between Organic Load, Disinfection Byproducts, and Sphagnum Moss
Rescue Statistics for the Waterpark Environment
Running Pools Safely on Low Free Chlorine Residuals (DIN)
The Science behind Advanced Oxidation Processes (AOPs) and their Applicability in Aquatics
The Science behind the MAHC: Safety Topics
The Science behind the MAHC: Circulation, Ventilation and Air Quality
The Science behind the MAHC: Disinfection, Operations & Maintenance
The Science behind the MAHC: Hygiene & Regulatory Program Administration
Solving Poor Indoor Air Quality, High Operating Costs, and Limited Capital for Weyerhaeuser King County Aquatics Center
Swiftly Moving: Float Tank Standards & Regulations
Team Approach: Creating an Effective Partnership between Building Departments & Environmental Health
Understanding the Importance of Biofilm in Recreational Water
Using Electronic Meters in Swimming Pool Inspections and Posting Scores
WAHC Public Health Code Track – Adoption, Renewal, Research
Association of Aquatic Professionals Conference 2020, 2021
Auditing 201
Drowning Prevention: Real Stories & Tips for Your Facility & Guard Trainings
Forgotten Victim: Lifeguards and Critical Incident Stress
High Performance Drowning Response
How to Implement AAP & CDC Water Safety Guidelines
How to Lose a 21 Million Dollar Lawsuit
Incorporating National Standards into Daily Operations
Latest on High Performance Drowning Response
Protecting Swimmers from Drowning Using the MAHC
Sometimes You Look But Don't See – Internal & External Audits
Tapping Into Video Footage to Train Your Lifeguards
The Dangers of Shallow Water
Training Outside the Box
Where Have all the Lifeguards Gone? Recruiting and Retention - Do's & Dont's Learned from the Road

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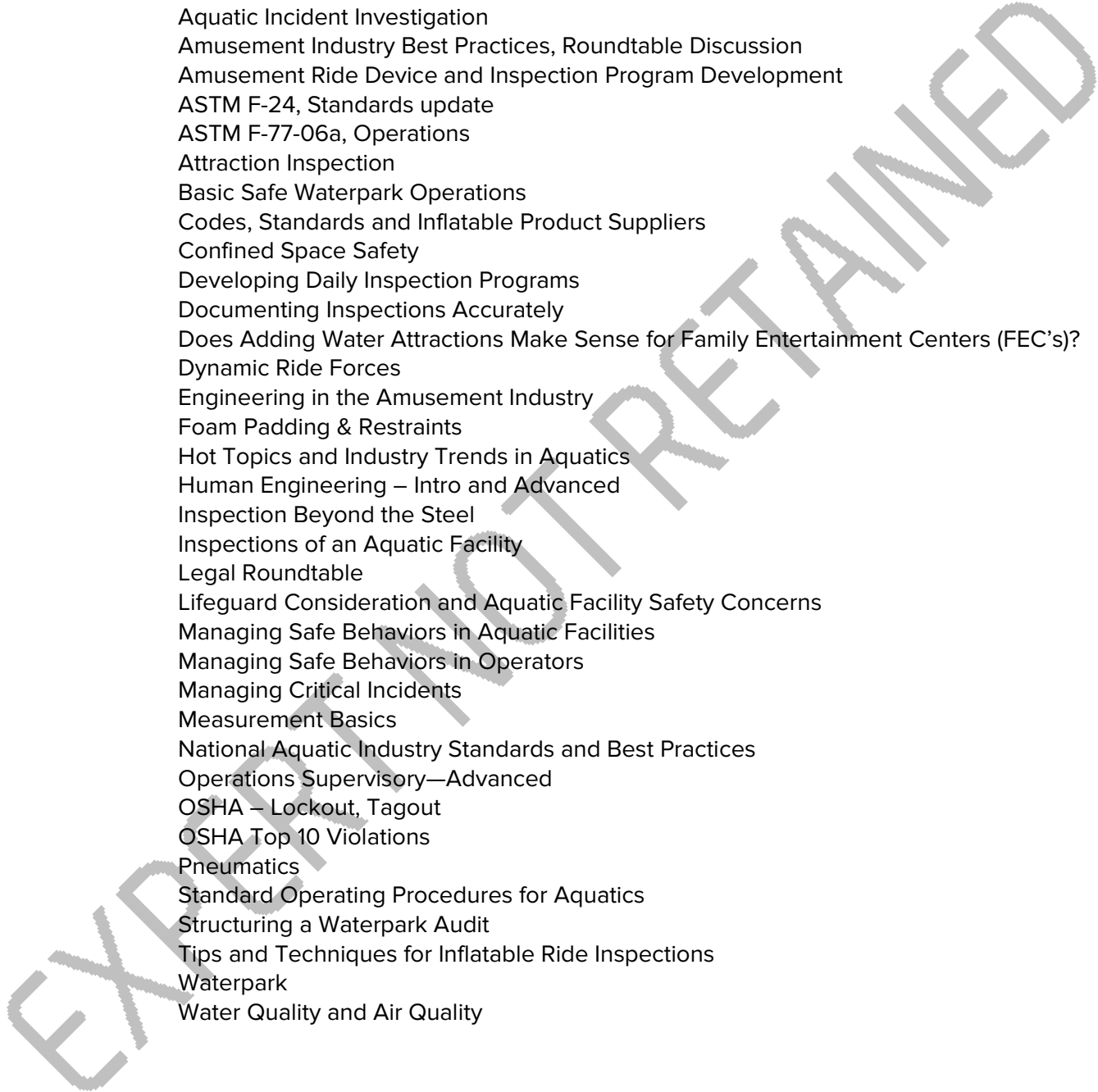
National Association of County & City Health Officials
Floatation Tanks: A Review and Discussion of MAHC Requirements
National Drowning Prevention Alliance Symposium 2010-2013, 2017- 2018, 2019, 2021
Asking the Right Questions: The Final Step in Managing Aquatic Risk
Aquatic Legal and Risk Management Symposium
Autism – Drawn to Water
Barriers to Barriers: Ecological Psychology & Layers of Protection
CDC New Drowning Prevention Initiative
CPSC Pool Safely
Don't let tragedy be your teacher
Drowning in the Autism Community
Drowning medical response
Drowning Risk Panel—Prevention of Incidents, and Litigation Perceptions and Reality
Drowning “social and behavioral issues”
How to Create a Drowning Prevention Task Force in Your Area
Immunization for Drowning Prevention—The Public Health Approach to Save Lives in Asia
and the USA
In the Air Tonight – The Physiology of Drowning
ISPSC panel discussion
Legislation: A Case for Change/Hannah's Foundation
Let's start treating kids like little adults: A paradigm shift in pediatrics
Medical Aspects of Drowning
Pediatric Resuscitation—Time to ACT!
Righting the ship: Proper usage of drowning terminology
Risks Involving Bodies of Water and the Legal System
Scientific Benefits of Early Swim Lessons for Babies, Water SMART Babies Prescription Plan
Surveillance in the Age of Lifeguard Shortages
Technology Panel Discussion
Technology to End Childhood Drowning
Technology to Prevent Drowning: Interacting with Innovation
Unaccounted for variables—realities of offshore rescue and survival
Understanding & Preventing Liability—Safety Programming
Update on Lifeguard Training in the United States
Water Safety & Drowning Prevention Legislation
What Child Death Review Teams Can Tell Us about Drownings
Your Eyes Could Change Everything
Aquatic Legal & Risk Management Symposium 2017, 2018
Northeast Pool & Spa Expo, 2000, 2005, 2012
Certified Diving Board Installer
Pool Popping & Floating Liners



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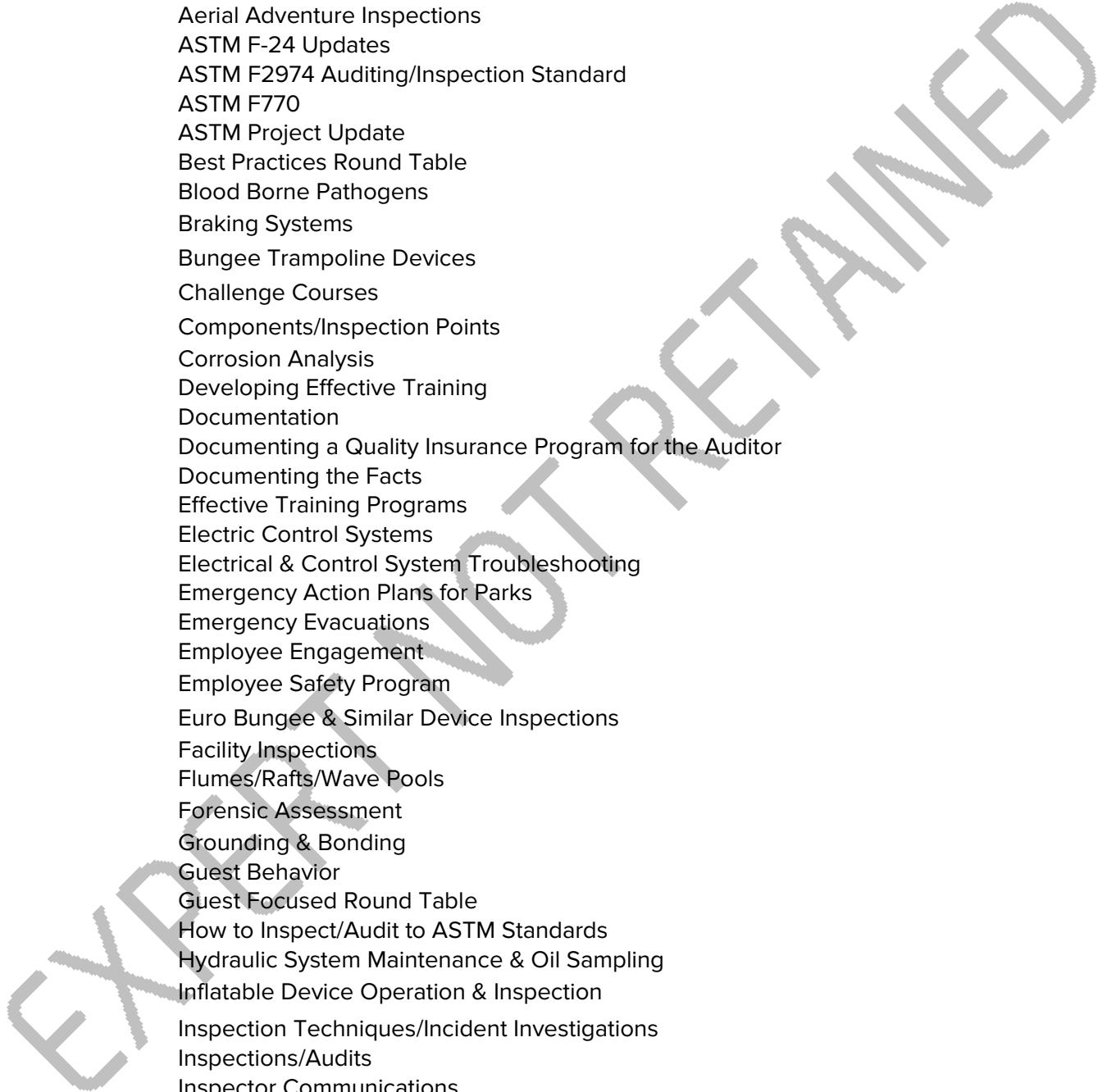
Amusement Industry Manufacturers & Suppliers International/International Association of Amusement Parks and Attractions, 2009, 2011

Advanced Hydraulics
Aquatic Incident Investigation
Amusement Industry Best Practices, Roundtable Discussion
Amusement Ride Device and Inspection Program Development
ASTM F-24, Standards update
ASTM F-77-06a, Operations
Attraction Inspection
Basic Safe Waterpark Operations
Codes, Standards and Inflatable Product Suppliers
Confined Space Safety
Developing Daily Inspection Programs
Documenting Inspections Accurately
Does Adding Water Attractions Make Sense for Family Entertainment Centers (FEC's)?
Dynamic Ride Forces
Engineering in the Amusement Industry
Foam Padding & Restraints
Hot Topics and Industry Trends in Aquatics
Human Engineering – Intro and Advanced
Inspection Beyond the Steel
Inspections of an Aquatic Facility
Legal Roundtable
Lifeguard Consideration and Aquatic Facility Safety Concerns
Managing Safe Behaviors in Aquatic Facilities
Managing Safe Behaviors in Operators
Managing Critical Incidents
Measurement Basics
National Aquatic Industry Standards and Best Practices
Operations Supervisory—Advanced
OSHA – Lockout, Tagout
OSHA Top 10 Violations
Pneumatics
Standard Operating Procedures for Aquatics
Structuring a Waterpark Audit
Tips and Techniques for Inflatable Ride Inspections
Waterpark
Water Quality and Air Quality



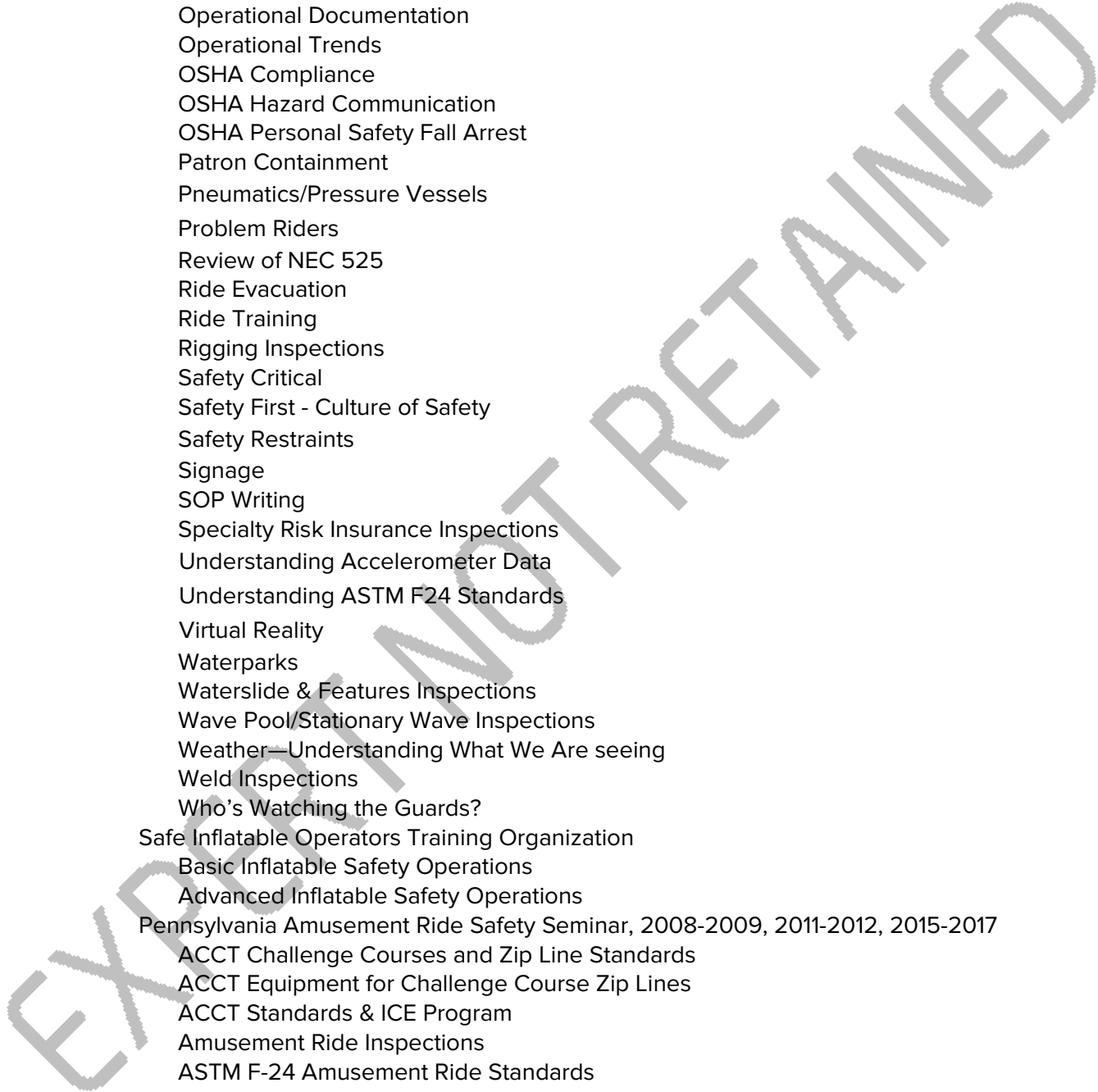
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National Association of Amusement Ride Safety Officials
Ride Safety Inspection Forum, 2007-2009; 2011, 2014, 2016, 2018, 2019, 2020
Accelerometer Data
Accessibility
Aerial Adventure Inspections
ASTM F-24 Updates
ASTM F2974 Auditing/Inspection Standard
ASTM F770
ASTM Project Update
Best Practices Round Table
Blood Borne Pathogens
Braking Systems
Bungee Trampoline Devices
Challenge Courses
Components/Inspection Points
Corrosion Analysis
Developing Effective Training
Documentation
Documenting a Quality Insurance Program for the Auditor
Documenting the Facts
Effective Training Programs
Electric Control Systems
Electrical & Control System Troubleshooting
Emergency Action Plans for Parks
Emergency Evacuations
Employee Engagement
Employee Safety Program
Euro Bungee & Similar Device Inspections
Facility Inspections
Flumes/Rafts/Wave Pools
Forensic Assessment
Grounding & Bonding
Guest Behavior
Guest Focused Round Table
How to Inspect/Audit to ASTM Standards
Hydraulic System Maintenance & Oil Sampling
Inflatable Device Operation & Inspection
Inspection Techniques/Incident Investigations
Inspections/Audits
Inspector Communications
Leadership Development
Meeting New Inspection Challenges
NFPA 70/NFPA 101



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NFPA Life Safety Code
Ongoing Training
Operational Audits
Operational Case Studies
Operational Documentation
Operational Trends
OSHA Compliance
OSHA Hazard Communication
OSHA Personal Safety Fall Arrest
Patron Containment
Pneumatics/Pressure Vessels
Problem Riders
Review of NEC 525
Ride Evacuation
Ride Training
Rigging Inspections
Safety Critical
Safety First - Culture of Safety
Safety Restraints
Signage
SOP Writing
Specialty Risk Insurance Inspections
Understanding Accelerometer Data
Understanding ASTM F24 Standards
Virtual Reality
Waterparks
Waterslide & Features Inspections
Wave Pool/Stationary Wave Inspections
Weather—Understanding What We Are seeing
Weld Inspections
Who's Watching the Guards?
Safe Inflatable Operators Training Organization
Basic Inflatable Safety Operations
Advanced Inflatable Safety Operations
Pennsylvania Amusement Ride Safety Seminar, 2008-2009, 2011-2012, 2015-2017
ACCT Challenge Courses and Zip Line Standards
ACCT Equipment for Challenge Course Zip Lines
ACCT Standards & ICE Program
Amusement Ride Inspections
ASTM F-24 Amusement Ride Standards
Best Practices for Zip Lines, Ropes Courses and Canopy Lines
Biomechanics of Amusement Rides
Bulletins and NDT Requirement Enforcement in Pennsylvania
Climbing Walls - Operations, Maintenance & Inspection



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Crowd Control at Special Events
Daily Inspections
Documentation for Inflatable Amusement Rides
Effective Operation of Waterpark Attractions
Emergency Planning - Are You Ready?
Examination of Incident/Accidents and Steps to Immunize Trampoline Parks from Claims
Facility Inspections
Fasteners
ICC Code for Waterpark Signs
Inflatable Amusement Rides
Inflatable Devices from an Inspector's Perspective
Ins & Outs of Waterpark Pump Rooms and Sanitation
Inspection of Challenge Course & Canopy/Zip Lines
Inspection of Inflatable Amusement Rides
Inspection Reporting System for Pennsylvania Amusement Ride Inspectors
Inspector/Employee at Height
Life Cycle and Troubleshooting Waterslides
Litigation & Risk
Lock Out/Tag Out for Amusement Rides
Looks Good, Looks Bad/Sounds Good, Sounds Bad
Maintenance of Waterslides and Interactive Aquatic Equipment
Managing Waterpark Risk
Metal Fatigue, Corrosion & Rust
New Jersey Carnival & Amusement Rides Safety Act Update
New Jersey Recognized Certified Maintenance Technician (RCMT)
New Jersey Amusement Ride Regulation & Enforcement
Online Training Programs for Owners, Operators & Customers
Overview of Risk Management for Trampoline Parks
Patrons Perspective of Amusement Ride Safety
Pneumatics
Post Incident Investigations
Pennsylvania Amusement Ride Inspection Act & Inspector Qualifications
Pennsylvania's Approval Process
Post Incident Investigations: Reconstruction, Litigation Assistance, Expert Witness,
 Technical Support
Proper Setup of Tents and Portable Structures
Role of U.S. Consumer Product Safety Commission
Safe Hydraulics & Industrial Power
Safety Netting - Amusement Industry Applications
Suspicious Activity Reporting, Use of Social Media & Active Shooter
Suspicious Activity, Social Media and the Fusion Center (PACIC)
Trampoline Parks Roundtable
Uncommon Problems Discovered During Regulatory Reviews
Water Quality & Sanitation for Waterparks & Amusement Rides
Weather's Impact on Outdoor Events

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What Will Inspectors Look for at Your Waterpark
Entrapment Education Seminar, Accredited Education Program provided by the Association of Pool and Spa Professionals, Penn-Jersey Chapter, 2006
Design Tips for Detention Ponds presented by GAE Engineering, 2006
World Waterpark Resorts Leadership Development Conference, 2006-2007
The Main Attraction: Transforming Your Community Pool with the Waterpark Model, 2018
International Pool & Spa Expo, 2004, 2006, 2010, 2014
Genesis 3 – Construction 251: Commercial Pools & Waterparks
Engineering 201: State-of-the-Art Spa Details
Designing and Installing Portable Spas
Water Features
Pool Shell Structural Failures – Case Studies
Selecting proper main drain and pump
Diagnosing hydraulic issues
Selecting energy-efficient equipment
United States Water Fitness Association Clinic, 2004, 2006
National Recreation and Park Association Aquatic Conference, 2001, 2004, 2007
Eastern States Coaches Conference, 1995, 1997, 1999
United States Swimming Coaches Clinic, 1986-1997
American Swim Coaches Association Educational Program, 1988-1997
Department of Justice
Accessible Pools: Means of Entry and Exit,
Existing Pools under Title II of the ADA, 2012
Pennsylvania Department of Health Emergency Medical Services
Advance Shock Treatment
Airway Management/Heart Failure/Defibrillation
Assessment and Treatment of Submersion Injuries
BLS Statewide Protocol Update, 2015
Child Abuse: An EMS Professional's Role and Responsibilities
Demystifying the Central Line
Emergency Care for Lightning Strike Victims
Excited Delirium
Fetal Trauma from Motor Vehicle Collisions
High Frequency CPR, Bringing Science to the Pit Crew
Management of C-Spine Injuries during Athletic Events
Methicillin Resistant Staphylococcus Aureus (MRSA)
Pain Management
Patient Assessment
Pediatric Fluid Resuscitation & Airway Management
Recognition and Treatment of Heat Emergencies
Unstable Pelvic Fractures
Designing with Water: Indoor Water Applications Make a New Wave in Architecture
Servers and Managers Alcohol Responsibility Training (S.M.A.R.T.) Certified

PROFESSIONAL MEMBERSHIPS

ASTM International
National Association of Amusement Ride Safety Officials
National Drowning Prevention Alliance
National Recreation & Park Association
Northeast Spa & Pool Association
Pool & Hot Tub Alliance

PROFESSIONAL COMMITTEES

ASTM International Technical Committee
Co-Chair Focused Task Group - ASTM Computer Vision Based Drowning Detection Systems/Residential Pools
F24 – Amusement Rides and Devices
F24.60 – Special Rides/Attractions
F24.70 – Water Related Amusement Rides and Devices
WK56745 – Design, Manufacture, Operations, Maintenance and Use of Air Captured Inflatable Devices in an Aquatic Commercial Environment
Association of Pool and Spa Professionals/International Association of Plumbing and Mechanical Officials
APSP/IAPMO-17 Safety Vacuum Release Systems, Automatic Pump Shut-Off Systems, and Vacuum Limiting Systems for Swimming Pools, Spas, Wading Pools, Hot Tubs, and Catch Pools
Association of Pool and Spa Professionals
ANSI Standards Technical Committee
ANSI/APSP-7 Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins Technical Committee
Builder's Manual Technical Committee
Centers for Disease Control
Model Aquatic Health Code Risk Management/Safety Technical Committee
Council for the Model Aquatic Health Code
International Code Council
International Swimming Pool and Spa Code
Drafting Committee
2013 Committee Action Hearing Group B Codes
International Association of Plumbing and Mechanical Officials
Uniform Swimming Pool, Spa & Hot Tub Code Technical Committee - Special Expert
National Recreation and Park Association
Aquatic Facility Operator Manual—Invited Contributor
Aquatic Facility Operator Training—Curriculum Committee
Splashpad Advisory Panel
Subject Matter Expert—AFO Job Analysis and Item Writing Group
Subject Matter Expert—Splash Pad Curriculum Committee

MARIA BELLA, AFOIT, CPOI
Sports and Recreation Expert

Pool and Hot Tub Alliance (PHTA) Technical Committee
Professional Pool Operators of America
Executive Board Member
United States Water Fitness Association
Editor – Instructor Training Manual, *Understanding the Mature Participant*

SPEAKING ENGAGEMENTS

National Drowning Prevention Alliance webinar (5/13/20)
Drownings in Pools with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
POOLaide webinar (5/11/20)
Drownings in Pools with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
National Water Safety Conference (4/9/20)
Management's Role - Equipping Lifeguards for Success
Association of Aquatic Professionals Conference, Frisco, TX, 2020 When & Why Drownings Occur
with Lifeguards on Duty
World Aquatic Health Conference, Williamsburg, VA, 2019, Drownings in Pools with Lifeguards on
Duty: Why Submerged Victims Go Unnoticed
National Association of Amusement Ride Safety Officials, Myrtle Beach, SC, 2019, 2020 Water
Quality for the Ride Inspector
National Drowning Prevention Alliance Symposium, New Orleans, LA, 2019, Drownings in Pools
with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
National Recreation and Park Association Inaugural Aquatics Learning Series Webinar, 2019,
Drownings in Pools with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
Arizona Paralegal Association Annual Legal Conference, Phoenix, AZ, 2018, Water Safe? Liability
Associated with Residential and Commercial Swimming Pools
Pennsylvania Amusement Ride Safety Seminar, Harrisburg, PA, 2018, Drownings in Pools with
Lifeguards on Duty: Why Submerged Victims Go Unnoticed
National Recreation and Park Association Conference, New Orleans, LA, 2017, Drownings in Pools
with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
World Aquatic Health Conference, Broomfield, CO, 2017, Drownings in Pools with Lifeguards on
Duty: Why Submerged Victims Go Unnoticed
National Drowning Prevention Alliance Symposium, Pittsburgh, PA, 2017
Drownings in Pools with Lifeguards on Duty: Why Submerged Victims Go Unnoticed
Defense Research Institute, Chicago, I,L 2017
Litigating Swimming Pool and Aquatic Attraction Claims: Make it Safe to go in the Water
New York State Bar Association Torts, Insurance and Compensation Law,
Annapolis, MD, 2013
Safety on and in the Water
Delaware Recreation and Parks Society 33rd Annual Conference, Rehoboth Beach, DE, 2013
Aquatic Facility Standards: MAHC-ANSI-ICC and You
Risk Management: Protecting You, Your Facility, and Your Bottom Line
National Recreation and Park Association, Ashburn, VA, 2013
Aquatic Facility Operator Training

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Pennsylvania Recreation and Park Society Conference, Seven Springs, PA 2012
The Model Aquatic Health Code, ANSI Standards, International Swimming Pool and Spa Code and YOU
Risk Management--Protecting You, Your Facility, and the Bottom Line
International Pool Spa Patio Expo & Conference, Las Vegas, NV 2011
Selling Safety: Safer Pools/Spas = More Pools/Spas
National Drowning Prevention Alliance, Colorado Springs, CO 2011
How New Barrier Codes Can Help You Effect Change
National Drowning Prevention Alliance, Phoenix, AZ 2011
Pool & Spa Safety Technician Pilot Training
Hospitality Law Conference, Houston, TX 2011
Managing Risk in Pools, Spas, and Workout Facilities
Workers Injury Law & Advocacy Group, Annual Conference, Aventura, FL 2010
Aquatics Exposure
Parks and Carnival Education Seminar, Lancaster, PA, 2008 & 2009
Water Quality for Waterparks
National Intramural-Recreation Sports Association Conference, Baltimore, MD 2009
Aquatic Facility Operator Training
National Association of Amusement Ride Safety Officials Conference, Pigeon Forge, TN, 2009
Recreational Water Quality & Disease Transmission Prevention
Lorman Education Services, Cherry Hill, NJ. 2009; Scranton, PA. 2008
Building Codes for Aquatic Facilities.
Parks and Carnival Education Seminar, Altoona, PA, 2008
Water Quality for Waterparks
Sioux Falls Parks & Recreation Organization, Sioux Falls, SD, 2008
Lifeguard Awareness Workshop
Pennsylvania Department of Agriculture, Wilkes-Barre, PA, 2008-2017; Reading, PA 2007-2017, Hershey, PA 2011-2018
Pesticide Applicator Training
National Swimming Pool Foundation, Wilkes-Barre, PA, 2008-2017; Reading, PA 2007-2018, Hershey, PA 2012-2018
Certified Pool Operator Training
The American Association for Justice, Chicago, IL, 2007
Water Hazards at Resort Waterparks
Athletic Business Conference and Expo, Orlando, FL, 2004
Aquatic Facility Operator Training

PATENTS

10329785 Lifeguard Positioning System
9828784 Lifeguard Positioning System and Submersible Devices for Use Therewith
9727979 Lifeguard Positioning System and Method

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Sports and Recreation Expert

SPORTS AND RECREATION EXPERIENCE

- As Subject Matter Expert for the National Recreation & Park Association, developed Aquatic Facility Operator Job Analysis & Certification Exam.
- Served on design and evaluation committees tasked with new construction and renovation of buildings and grounds used for sports and recreation activities.
- Served on oversight committees during new construction and renovation of buildings and grounds used for sports and recreation activities.
- Pre-inspected, bid, organized and managed crews, provided safety training and oversight, and performed final inspection on post-renovation and construction of commercial facilities.
- Developed, initiated, and monitored dynamic programmatic content for sports and recreation activities.
- Inspected sports and recreation facilities for safety, including proper equipment selection, equipment placement and operation, equipment and facility maintenance, warning signage selection and placement.
- Designed facility specific warning signage.
- Developed and implemented Emergency Evacuation procedures for sports and recreation facilities.
- Directed various event planning, patron safety, and staff management teams.
- Actively participated in planning, operations, and oversight committees for recreation, athletic, and non-athletic events.
- Inspected facilities and made safety recommendations.
- Inspected fitness equipment. Removed dangerous equipment from service until repair or replacement could be completed.
- Specified equipment to be purchased for facilities.
- Established guidelines and enforced compliance with proper fitness facility layout to provide for safe traffic flow and unobstructed use of equipment.
- Identified and eliminated hazardous conditions in recreation and non-recreation facilities.
- Recruited, hired, fired, and trained employees.

RISK MANAGEMENT EXPERIENCE

- Inspected facilities and resolved or removed hazards.
- Reviewed and revised safety procedures used at conferences, recreation, and sporting events. Trained and provided oversight and evaluation of employees who were implementing safety procedures.
- Developed Emergency Response training programs for large group functions. Trained and evaluated employees in proper application of Emergency Response procedures and protocol.
- Trained and evaluated employees in Emergency Evacuation procedures and protocol.
- Created documentation program for tracking employee training and development, facility safety and sanitation, and equipment inspections and maintenance.
- Worked with Health Departments, Departments of Agriculture, and Fire Marshalls to develop and implement proper chemical storage, use, handling and disposal procedures.
- Led teams responsible for event planning, patron safety, and staff management.

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- Trained Advanced First Aid personnel in emergency response and triage procedures.
- Provided employee and patron training in proper and safe use of fitness equipment.
- Trained waterpark resort operators in specialized field of aquatic operation and hospitality guest satisfaction standards.
- Trained operators of aquatic facilities in traditional venues.
- Instructed private pool owners on proper safety procedures.
- Repaired and maintained mechanical operating systems.
- Replaced, repaired, and maintained chemical operating systems.

COACHING EXPERIENCE

- Created, implemented, and evaluated cross-training programs for competitive athletes.
- Constructed and evaluated nutritional programs for competitive athletes.
- Taught strength training programs to recreational and competitive athletes.
- Provided Personal Training instruction and fitness and technique evaluations for recreational and competitive athletes.
- Designed and instructed self-defense classes for women and children.
- Created motivation and tracking programs for participants in sports and recreation activities.
- Professionally coached competitive sports.
- Trained professional coaches of recreational and competitive athletes.
- Played on numerous teams and engaged in various sports competitions and recreational activities on land and in water.

CHILD SUPERVISION EXPERIENCE

- Developed, implemented, and evaluated supervision programs for children at daycare centers.
- Instructed daycare staff in child safety measures including oversight of indoor and outdoor recreational activities.
- Created, taught, and evaluated age and skill appropriate activity programs for children.
- Devised and taught programs used to enhance awareness, creativity, and self-esteem in children and young adults.
- Originated and instructed mentoring program for parents of children involved in recreational and competitive activities.
- Planned, organized, and ran recreational and competitive sporting events for children.

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Sports and Recreation Expert

DIVER TRAINING EXPERIENCE

- Performed all responsibilities as Head Coach of high school swimming and diving teams, and USA swimming teams.
- Instructed participants on proper entry into pool from deck level, starting blocks, diving boards, and elevated platforms.
- Taught proper body position during dives and steering technique designed to prevent injury when entering water head first.
- Developed and coordinated physical and mental/psychological training.
- Tracked, evaluated and augmented athlete progression.
- Interfaced with state and local authorities and boards of directors to ensure proper training in a safe environment.

WATER QUALITY and DISEASE TRANSMISSION PREVENTION EXPERIENCE

- Performed all related responsibilities as instructor of Aquatic Facility Operator, Certified Pool Operator, and Pesticide Applicator Training programs.
- Taught courses to commercial swimming pool operators at municipalities, universities, colleges, public and private schools, YMCAs, hotel/motel and condominium/apartment complexes.
- Instructed private pool owners on proper operating procedures.
- Taught proper sanitation methods, water testing and balance, chemical treatment options, and proper dosing procedures to prevent disease transmission.
- Provided troubleshooting of water quality and mechanical problems.
- Taught plant operations, safety and risk management procedures.
- Resolved indoor air quality problems.
- Instructed pool operators on automation, system design considerations, and alternative sources of disinfection.
- Developed disease prevention programs for swimming pools, changing rooms and first aid stations.
- Interfaced with city officials, state/local authorities, and various boards of directors on water quality issues and facility safety.

EXPERT WITNESSES RETAINED