

SUMMARY OF CURRICULUM VITAE

Dr. C. J. Abraham, P.E.

3 Baker Hill Road, Great Neck, NY 11023
cjabraham1@aol.com
www.scientificadvisory.com

EDUCATION & CERTIFICATIONS

- P. E. - Licensed Professional (Safety Engineer, CA)
- P. E. - Licensed Professional Engineer (State of Mississippi)
- CPC, CChE - Certified Professional Chemist & Chem. Engineer (National Inst. of Chemists & Chemical Engineers)
- FRSC, CChem - Chartered Chemist and Fellow (Royal Institute of Chemistry, London, England)
- DEE, IH - Diplomate, American Academy of Environmental Engineers, Industrial Hygiene Engineer
- LFAIC - Life Fellow, The American Institute of Chemists
- FTI, Ctext-Fellow, The Textile Institute (Manchester, England)
- BCEE - Board Certified Environmental Engineer
- BCFE - Board Certified Forensic Examiner
- Certified - Arson Detection by the Federal Bureau of Alcohol, Tobacco and Firearms (U.S. Dept. of the Treasury)
- Certified - Chemical Engineer, Senior Member: #0118-003-3, The American Institute of Chemical Engineers (Senior Grade)
- Certified by The Steel Erectors Association of America in Connector Safety (OSHA Subpart R 1926.761(c)(2)) and Fall Hazards Safety (OSHA Subpart R 1926.761(b))
- Certified - Warnings & Instructions Specialist (University of Wisconsin, Madison, College of Engineering - 1988)
- Certified in Motorcycle & Motor Scooter Safety and Operation
- Fellow - American College of Forensic Examiners
- Permanent Certification, University of the State of New York - Chem., Physics, Math, Gen. Science
- Board Certified Forensic Examiner in Chemistry and Chemical Engineering (American Board of Forensic Examiners)
- Board Certified Forensic Examiner in Safety Engineering and Design (American Board of Forensic Examiners)
- Board Certified Forensic Examiner in Fires and Explosions (American Board of Forensic Examiners)
- Board Certified Forensic Examiner in Industrial Hygiene (American Board of Forensic Examiners)
- Board Certified Forensic Examiner in Sports Safety (American Board of Forensic Examiners)
- Senior Classification Systems Safety Society
- Fellow of the Board - American Board of Forensic Examiners
- Diplomate in Forensic Engineering - American Board of Forensic Engineering and Technology (Lifetime)
- Professional Member - American Society of Safety Engineers
- Senior Grade - Systems Safety Society
- MS, PhD, DSc, JD

AREAS OF EXPERTISE (Technical)

- Experience in new product development, manufacturing, packaging, standards, warnings and instructions
- Extensive experience in the identification, elimination and control of hazards to people and property. This includes the development, establishment, manufacturing, construction, assembly, testing,

operation, training and procedures including manuals, environmental engineering and industrial hygiene, warnings & instructions for consumer and industrial products

- Authority in the fields of products liability, OSHA, Labor Law (Industrial Code), architectural safety, safety engineering and construction accidents
- Lectured and taught at various universities in the United States and Europe
- Published and presented papers in the areas of fires, explosions (gas, bottle, battery), plastics, toxic torts, flammable fabrics, safety engineering and design, sports safety, household and industrial product safety, industrial equipment, warnings and instructions for both industrial and consumer products
- Patentee of many products, including protective headgear (face mask used in football - licensed to Riddell), enhancement of energy absorption for protective headgear and equipment, safety shields for batteries, insulation materials used on missiles, household products, and non-toxic insect repellents worldwide. Copyright Registrations in the areas of battery warnings and instructions, toxic materials, household products and insect repellents
- Experienced in animal and human health products, new product development, EPA, product data specifications, testing and analysis
- Diplomate-American Board of Forensic Examiners in Safety & Safety Engineering
- Member (former) of the Advisory Board -World Congress on Industrial, Technical, and High Performance Textiles (Great Britain); former member of the Advisory Board - American Board of Engineering and Technology (USA)
- Member, Architectural Review Board, Village of Great Neck, Great Neck, NY
- Member-ISO/TC 181/SC: Safety of Toys
- Member of the ASTM, (1964-present)
- Over 90 publications and presentations
- Patentee of products produced and used throughout the world (over 38)
- Consulted to ABC and CBS News, Eyewitness News (ABC), USA Today and the Discovery Channel
- Consulted to the Department of Agriculture (Bureau of Mines)
- Consulted to the National Highway Traffic Safety Administration (NHTSA)
- Consulted to the Department of Labor (OSHA)
- Consulted to NIOSH (National Institute for Occupational Safety and Health)
- Consultant on Warnings & Instructions to the Unified Abrasives Manufacturer's Association
- Consultant to Microsoft - Kinesiology Studies, Human Movements and Muscle Activity Impacts, Warnings and Instructions
- Consulted to Wave Loch, Inc. (manufacturer of the Flow Rider)
- Consulted to Hudson Bay stores, Canada in risk assessment and human factors
- Consulted to Home Depot in risk assessment and human factors
- Consulted to Big Lots Stores, Inc. on display safety
- Consulted to the American Textile Company (warnings & instructions)
- Consulted to Estwing Manufacturing Co. (warnings and instructions)
- Consulted to the Long Island Railroad
- Consulted to the New York Transit
- Consulted to the Queensborough Bridge Authority
- Consultant for the Kaprun fire disaster case (Austria)
- Consultant to Intamin AG (Switzerland-roller coasters)
- Consulted to Family Dollar Stores (safety of products)
- Consulted to Northern Lights (mfg. of fitness equipment - safety engineering & design)
- Consulted to Sherwin Williams
- Consulted to Kohl's Department Stores (retail displays and safety)
- Consulted to The Thompson's Company-Water Seal Product
- Consulted to The London Hotel, NYC, ADA (American Disability Act) evaluation
- Consulted to Reliable Bakery (Brooklyn) - Safety & OSHA
- Consultant to Win Win Printing, Inc. - OSHA compliance and employee training

PROFESSIONAL EXPERIENCE (Sports & Recreation)

- Diplomate - American Board of Forensic Examiners in Sports and Recreational Safety
- Former Director of Sports, Recreation & the Athletics Division of a national consulting firm for twenty-eight years.
- Experienced in the identification, elimination, and control of hazards in recreation facilities, parks and school environments.
- Directly involved with sports & recreation safety standards, safety and design analysis of protective equipment, consumer products, warnings and instructions.
- Member of the Executive Committee and consultant in the area of engineering and human factors to the Hockey -Equipment Certification Council (HECC) (1980-1998)
- U.S. Delegate - International Standards Organization (ISO) (1988-1998)
- Member Safety & Protective Equipment Committee (SPEC) of USA Hockey (1996-2008)
- Member of the ASTM (1964-present)
- Inventor of the Bio-Lite football facemask licensed to Riddell
- Inventor of the ForceField FF Headband (www.forcefieldheadbands.com)
- USPTA-certified tennis instructor (United States Professional Tennis Association)
- Creator of warnings and instructions for many sports products
- Consulted to municipalities on park & recreation facilities, and Set Makers, Inc., the manufacturer of recreation facilities for Burger King and McDonald's restaurants
- Consulted to Lobster, Inc. on safety and warnings (High speed tennis machine)
- Consulted to various municipalities on park, recreation safety and swimming pools
- Tested and evaluated every type of protective sports head gear
- Consultant to Microsoft - Kinesiology Studies, Human Movements and Muscle Activity Impacts, Warnings and Instructions
- Consulted to Wave Loch, Inc. (manufacturer of the Flow Rider)
- Consultant to Intamin AG (Switzerland-roller coasters)
- Consulted to Northern Lights (mfg. of fitness equipment - safety engineering & design)
- Consulted to ABC and CBS on Amusement Park accidents
- Consulted on safety of activities on amusement parks including water parks (Splish Splash, Suffolk County, NY, Coney Island, Six Flags and Disney World)
- Consulted on cruise lines with safety of their recreational activities and exercise equipment
- Consulted to Chuck E. Cheese on the safety of their amusement facility
- Consulted on cases involving amusement parks, roller coasters, tennis pitching machines, exercise machines, recreational facilities for McDonalds and Burger King, lazar facilities, residential playgrounds, safety in indoor and outdoor basketball courts, bleacher safety, natural versus synthetic surfaces, headgear for sports, baseball base design, golf carts, ice hockey facilities, cruise line recreational activities (i.e. wave runners, track and exercise equipment), and many others.

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- **Presentations and Papers**