

# **DR. C. J. ABRAHAM**

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## **EDUCATION & CERTIFICATIONS**

- **P. E. - Licensed Professional (Safety Engineer, CA)**
- **P.E. - Licensed Professional Engineer (State of Mississippi)**
- **DFE, Board Certified Diplomat in Forensic Engineering, The National Academy of Forensic Engineers, (Senior Member)**
- **National Society of Professional Engineers-Member**
- **New York State Society of Professional Engineers-Member**
- **Queens Chapter, Society of Professional Engineers-Member**
- **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)**
- **LFAIC-Life Fellow, The American Institute of Chemists**
- **DEE, Board Certified Environmental Engineer (American Academy of Environmental Engineers and Scientists)-Life Member**
- **IH, Board Certified Industrial Hygienist (American Academy of Environmental Engineers)**
- **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**
- **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**
- **Licensed Fire Safety Examiner - Arson Investigation and Prevention Unit, Virgin Islands Fire Service, Department of Licensing and Consumer Affairs**
- **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)**
- **Fellow of the Board—American Board of Forensic Examiners**
- **Diplomat 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**
- **Certified-Safety and Field Management Consultant, US Virgin Islands; License No: 1-31246-1L, Business No: 31246**
- **Technical Director-Risk Analysis & Safety, Amateur Athletic Union (AAU) Men and Women's Basketball (Former)**
- **Certification-Measurement in Residual Strains in Transparent and Translucent Materials, Strainoptic Technologies, Inc.: April 23, 1987**
- **Certification - University of Wisconsin-Madison, College of Engineering: Product Safety and Liability: The Role of Warnings: March 22-23, 1988 (Graduate Credit/Certification).**
- **Certification in Fires and Arson Accelerant Detection by the Bureau of Alcohol/Tobacco/Firearms, Sponsored by the Northeastern Association of Forensic Scientists and the Suffolk County Crime Laboratory, October 14-18,1991.**

#### **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.**
- **Evaluated the cause of many brain injuries as a result of accidents nationally and internationally.**
- **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 100 publications and presentations.**
- **Patentee of products produced and used throughout the world (over 47).**
- **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 Walter Kidde (fire extinguishers)**
- **Consulted to Kohl's Department Stores (retail displays and safety)**
- **Consulted to Bed Bath & Beyond, Inc. (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**
- **Consulted to US Department of Justice, Eastern District of New York**
- **Consultant to Win Win Printing, Inc. – OSHA compliance and employee training**
- **Consulted to Hamaco Industries Corporation. A Japanese manufacturer of material handling equipment such as mechanical and electric lift tables. Preparation of warnings and instructions for lifts and creations of warnings and instructions for service and user manuals**
- **Consulted to CBS TV News, New York on 10-15-2013. Analysis of the safety protocol related to retail stores and stacking helms with merchandise. (televised 10-31-13, 11 p.m.)**
- **Consulted to Tylo Helo (Tylö AB), the largest sauna (dry and steam) company in the world**
- **Consulted to EBRU TV: Fresh Outlook, 05-17-14, Soma, Turkey (Mine Explosion in Turkey)**
- **Consulted to Transpo Industries, Inc.**
- **Consulted to Landscape Forms, Inc.**
- **Consulted to the Office of the United States Attorney**
- **Consulted to Tuff Stuff Fitness Equipment, Inc.**
- **Consulted to City of San Diego, CA (Playground safety)**
- **Consulted to Blue World Pools**
- **Consulted on the Vortex amusement ride accident at the North Carolina Fair (10-24-2013)**
- **Consulted to the City of Fort Lauderdale, Florida School District on Sports Injuries**
- **Consulted to the California Department of Transportation (Highway railing systems)**
- **Consulted on the cause of iPhones catching on fire, leaking, and exploding**
- **Consulted to the New York City School Construction Authority**
- **Consulted to the New York City Department of Education, City of New York, and the New York City Board of Education**
- **Consulted to Bed Bath & Beyond-Retail Displays**

**PROFESSIONAL EXPERIENCE (Sports & Recreation)**

- **Diplomat-American Board of Forensic Examiners in Sports and Recreational Safety**
- **Former Director of Sports, Recreation & the Athletics Division of Inter-City Testing & Consulting Corporation 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.**
- **Evaluated and tested every type of protective headgear in contact and collision sports.**

- **Consulted on a large number of brain injury cases in contact and collision sports and have made presentations at national and international conventions in the area of concussive and sub-concussive brain injuries.**
- **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](http://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.**
- **Technical Director-Risk Analysis & Safety, Amateur Athletic Union (AAU) Men and Women's Basketball**
- **Consulted to Lobster, Inc. on safety and warnings (High speed tennis machine)**
- **Consulted to various municipalities on park, recreation safety and swimming pools relating to the designs of the activities including, but not limited to, general and hands-on supervision for challenged, handicapped and special needs children**
- **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 to ABC affiliates, KGTV News, in West Palm Beach, Florida and San Diego, California on the Safety of Playgrounds and Playground Activities**  
**<http://www.10news.com/news/investigations/safety-consultant-finds-various-problems-at-san-diego-public-parks> and <http://www.10news.com/news/investigations/10news-report-spurs-changes-at-san-diego-public-parks>**
- **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.**
- **Consulted to City of San Diego, CA (Playground safety)**
- **Consulted on the Vortex amusement ride accident at the North Carolina Fair (10-24-2013)**
- **Consulted to the City of Fort Lauderdale, Florida School District on Sports Injuries**
- **Consulted to the Salvation Army (Wooden Surfaced Skating Rinks)**
- **Consulted on trampoline park accidents throughout the United States involving trampoline and foam Over 45 years of experience in creating, reviewing and critiquing waivers, disclosures, disclaimers, warnings and instructions for a variety of products including, but not limited to: sports, recreational activities; household, commercial and industrial products.**

### Experience in Head & Brain Injuries

1. Extensive experience in the impact and dissipation of forces to the head and brain.
2. Experience extends over 49 years in sub-concussive and concussive brain injuries to children and adults in contact and collision sports.
3. Over 49 years of training and experience in sub-concussive and concussive brain injuries to children and adults involved in slip, trips and falls and other types of personal injuries.
4. Former experience as one of three delegates to the ISO (International Standards Organization) with 15 other countries that created safety standards for protective helmets in the sport of hockey worldwide.
5. Former guest speaker to a large number of national conventions involving head and brain injuries in sports.
6. Has presented scientific papers at international and national technical meetings involving concussions and sub-concussive brain injuries.
7. Sole author of several peer reviewed articles on concussive brain injuries.
8. Inventor and provider of the leading protective headgear used in soccer, basketball, cheerleading, curling, Veteran's hospitals for the traumatically brain injured veterans, for seniors prone to falling in nursing homes, for seniors prone to falling, dwarfs and young children learning to walk, children in playgrounds, challenged and handicapped children, and many more applications.
9. Consults on one or more brain injury accidents per week over the last 10+ years.
10. Member of the ASTM (American Society for Testing and Materials) from 1964 to the present time creating safety standards for every type of contact and collision sport.
11. Observed a number of autopsies in which head and brain injuries were involved with the demise of the individual.
12. Directly involved with the creation of every safety standard relating to protective headgear used in both contact and collision sports and every type of recreational activity involving the use of headgear.

### PROFESSIONAL ASSOCIATIONS

- Member of the Human Factors and Ergonomics Society
- National Society of Professional Engineers
- New York State Society of Professional Engineers
- Queens Chapter, Society of Professional Engineers
- The National Academy of Forensic Engineers
- American Academy of Environmental Engineers, Diplomate
- American Industrial Hygiene Association (Full Membership)
- Royal Society of Chemistry (London), Fellow
- The Textile Institute, Fellow (Manchester, England)
- National Fire Protection Association
- American Society of Civil Engineers
- Human Factors and Ergonomics Society
- American Society of Safety Engineers (Professional Member)
- Systems Safety Society - Senior Grade
- American Society of Safety Professionals (ASSP), Long Island Section
- Standards Engineering Society
- American National Standards Institute (ANSI)
- Society of Automotive Engineers
- American Chemical Society (over 50 years)
- The American Institute of Chemical Engineers (Senior Member)
- Society of Plastics Engineers
- American Association of Textile Chemists and Colorists (AATCC)
- Human Factors and Ergonomics Society
- American Society of Mechanical Engineers (9073529)
- International Code Council
- American Society for Testing and Materials: ASTM (1964- to present)
  - C-8 Refractories
  - C-14 Glass & Glass Products
  - C-01 Cement
  - D-1 Paint, Varnish, Lacquer & Related Products
  - D-9 Electrical Insulating Materials
  - D-12 Soaps & Other Detergents
  - D-13 Textiles
  - D-13.52 Flammability
  - D-14 Adhesives

**D-19 Water**  
**D-20 Plastics**  
**D-21 Polishes**  
**D-26 Halogenated Organic Solvents**  
**D-30 High Modulus Fibers and their Composites**  
**E-5 Fire Tests of Materials and Construction**  
**E-7 Non-destructive Testing**  
**E-15 Analysis & Testing of Industrial Chemicals**  
**E-17 Skid Resistance**  
**E-20 Temperature Measurement, Chemicals**  
**E-27 Hazard Potential of Chemicals**  
**E-30 Forensic Sciences**  
**E-34 Occupational Health & Safety Aspects of Materials, Physical & Biological Agents**  
**E-28 Mechanical Testing**  
**F-8 Sports Equipment & Facilities**  
**F-9 Tires**  
**F-13 Safety & Traction of Footwear**  
**F-15 Consumer Product Safety**  
**F-23 Protective Clothing**  
**F-27 Snow Skiing**  
**F-08 on Sports Equipment and Facilities**  
**F08-Main Committee**  
**F08-10 Bicycles**  
**F08-11 In-Line Skating**  
**F08-12 Wrestling and Gymnastics**  
**F08-13 Fencing Equipment**  
**F08-15 Ice Hockey**  
**F08-16 Archery Products**  
**F08-17 Trampolines and Related Equipment**  
**F08-18 Golf Clubs and Shafts**

**F08-19 Bicycle Accessories**  
**F08-21 Climbing and Mountaineering**  
**F08-22 Camping Equipment**  
**F08-23 Tennis Courts and Running Tracks**  
**F08-24 Paintball and Equipment**  
**F08-25 Residential Basketball Equipment**  
**F08-26 Baseball and Softball**  
**F08-30 Fitness Products**  
**F08-51 Medical Aspects and Biomechanics**  
**F08-52 Playing Surfaces and Facilities**  
**F08-52.1 Task Group Playground Surfacing**  
**F08-53 Headgear and Helmets**  
**F08-54 Athletic Footwear**  
**F08-55 Body Padding**  
**F08-56 Facilities-Baseball and Softball**  
**F08-57 Eye Safety for Sports**  
**F08-61 Ice Hockey Rinks**  
**F08-63 Playground Surfacing Systems**  
**F08-64 Natural Playing Surfaces**  
**F08-65 Artificial Turf Systems**  
**F24 on Amusement Rides and Devices**  
**F24-10 Test Methods**  
**F24-20 Specifications and Terminology**  
**F24-24 Design and Manufacture**  
**F24-30 Maintenance and Inspection**  
**F24-40 Operations**  
**F24-60 Special Rides & Attractions**  
**F15- Consumer Products**  
**F15- Aquatic Play Equipment**  
**F15-29 Public Playground Equipment**  
**F15-36 Soft Contained Play Equipment**  
**F15-44 Play Equipment for Children Under Two**

### **EXPERIENCE IN THE AREAS OF FIRES AND EXPLOSIONS**

1. Kaprun fire disaster case in Austria
2. Coal barbeque starter
3. Cigarette lighters
4. Paint thinners
5. Flammable sprays
6. Hair sprays
7. Hair treatment
8. Flammable fabrics
9. Automobile battery explosions
10. Gasoline fires and explosions
11. Dust explosions
12. Spontaneous combustion cases
13. Gas tank explosions
14. Propane tank- truck supply fires
15. Vapor explosions from varnishes, paints, floor finishers
16. Total release sprays
17. 55-gallon drums/cutting them in 1/2 explosions filled with explosive vapor
18. Exploding automobile tires with temporary isopropane/butane
19. Aerosols - flash back
20. Paints
21. Dept. of Agriculture Bureau of Mines
22. Spontaneous combustion
23. Exploding automobile batteries
24. iPhones, cell phones leaking, catching on fire and explosions
25. Fireworks
26. Fireworks manufacturing facility
27. Gasoline tanks explosions
28. Gasoline containers
29. Propane tank explosions (pool heater and household use)
30. Chemical tanker explosions
31. Power plant explosions
32. Ship explosions
33. House explosion due to natural gas leaking from supply pipes from street to basement
34. Static electricity discharge- fires and explosions
35. High voltage discharge
36. Household product fires
37. Natural gas leaks- fires and explosions
38. Trailer home fires and explosions
39. Deflagration of plastic containers containing flammable liquids
40. Mobile phone and iPad lithium battery explosions

## PATENTS

1. High temperature carbonaceous and siliceous materials in aerospace fields assigned to corporations; dental and medical fields-assigned to corporations, industrial formulations for air and water pollution fields-assigned to corporations; polymers and novel adhesives-assigned to corporations; formulations for cleaning - industrial and consumer applications-assigned to corporations; glass and coating formulations-assigned to corporations.
2. Head Gear in Sports – C. J. Abraham, U.S. Patent No. 4,342,122, August 3, 1982. (Licensed to Riddell - BIOLITE face masks, a new generation of protective equipment).
3. Flexible Face Mask Improvement – C. J. Abraham, U.S. Patent No. 4,631,758, dated December 30, 1986.
4. Storage Battery Having a Protective Shield – C. J. Abraham, U.S. Patent 4,699,855 granted June 1987; issued October 13, 1987
5. Storage Battery Having a Protective Shield, C. J. Abraham, Canadian Patent, issued May 14, 1991, No. 1284174.
6. Storage Battery Having a Protective Shield, C. J. Abraham, Japanese Patent Application No. 60888/1987
7. Storage Battery Having a Protective Shield – Improvement, C. J. Abraham, U.S. Patent No. 4,770,958, September 13, 1988.
8. Storage Battery Having a Protective Shield, C. J. Abraham, West German Patent Application No. P38 04 447.1.
9. Protective Shield for Battery, C. J. Abraham, Great Britain Patent No. 2208032, dated May 31, 1988
10. Protective Shield for Battery, C. J. Abraham, Italian Patent Application, No. 67503-A/88
11. Protective Shield for Battery, C. J. Abraham, French Patent Application No. 88 10747
12. Storage Battery Having a Storage Battery Having a Protective Shield - Deflectable Battery Shield, U.S. Patent No. 4,952,468, August 28, 1990
13. Storage Battery Having a Protective Shield for Battery, C. J. Abraham, Spanish Patent No. 2,021,505, March 21, 1992
14. Storage Battery Having a Protective Shield for Battery, C. J. Abraham, British Patent, issued September 7, 1989, No. 2,235,085
15. Storage Battery Having a Protective Shield Italian Patent Application 68583-A/89.
16. Storage Battery Having a Protective Shield, French Patent Application No. 89 17442/140644.
17. Storage Battery Having a Protective Shield, West German Patent Application No. A228P102.
18. Flame Retardants for Linseed Oil: Formulations and Applications - C. J. Abraham, et al. U.S. Patent. 5,540,762, issued July 30, 1996.
19. Non-Toxic Animal Repellent: C. J. Abraham, U.S. Patent 5,554,377, September 10, 1999.
20. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for All Protective Headgear: C. J. Abraham, U.S. Patent 6,272,692, Aug. 14, 2001.
21. Fog-Free Protective Glasses, Goggles, and Non-Protective Glasses: C. J. Abraham. U.S. Patent applied for in June 2001.
22. Enhanced Impact and Energy Absorbing Product for Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces, U. S. Patent applied for in November 2001.
23. Enhanced Impact and Energy Absorbing Product for Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces", U. S. Patent applied for in May 2002.
24. Animal Repellent, U.S. Patent 5,554,377, September 10, 1996.
25. Self-Locking Adjustable Bracelet, U.S. Patent 5,603,231, February 18, 1997.
26. Self-Locking Breakaway Band, U.S. Patent 5,657,645, July 19, 1997.
27. Solid and Liquid Compositions for Dispersion of Insect Repellent Based On DEET, U.S. Patent No.: 2,738,862, April 14, 1998.
28. Insect Repellent Candle and Method of Making Same, U.S. Patent No.: 5,854,284, December 29, 1998.

29. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for All Helmets and Protective Equipment, filed February 21,2001,
30. Impact and Energy Absorbing Product for Helmets and Protective Gear (filed September 7, 2001 Appl. No. 09/949,237), C. J. Abraham, US Patent No.: 6,378,140, April 30, 2002.
31. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for All Protective Headgear (filed January 4, 2001 Appl. No. 09/754/472), C. J. Abraham, US Patent No.: 6,272,692, August 14, 2001.
32. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for All Helmets and Protective Equipment for All Helmets and Protective Equipment, (filed August 22, 2002 Appl. No. 10/225,866), C. J. Abraham, U.S. Patent No.: 6,282,724, September 4, 2001.
33. Impact and Energy Absorbing Product for Floors, Walks, And Other Flat Surfaces, C. J. Abraham, Filed October 12, 2001, U.S. Patent 6,598,365 July 29, 2003.
34. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands Used in Connection with Helmets (filed June 10, 2003 Appl. No. 10/457,856), C. J. Abraham, U.S. Patent No.: 6,978,487, December 27, 2005.
35. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands (filed August 22, 2002 Appl. No. 10/225,866), C. J. Abraham, U. S. Patent No.: 6,675,395, Jan.13, 2004.
36. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands (filed November 17, 2005 Appl. No. 11/281,073, published March 30, 2006) C. J. Abraham, U.S. Patent No.: 7,234,174 issued June 26, 2007 (Continuation-in-Part claiming the benefit of the filing date of the August 22, 2002 non-provisional patent application No. 10/225,866).
37. Impact and Energy Absorbing Mouth Guard, C. J. Abraham, Applied for U.S. Patent December 12, 2002. Publication No. US-2004-0112389-A-1, 6/17/2004.
38. Fog-Free Protective Glasses, Goggles, And Non-Protective Glasses, C. J. Abraham, Filed January 2, 2001, U. S. Patent 6,450,639 September 17, 2002.
39. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands Used in Connection with Helmets, C. J. Abraham; Application No. 10-457856, Notice of Allowance, August 8, 2005.
40. Apparatus for Absorbing and Dissipating Forces for Sweatbands, International Patent applied for, September 2005. Patent applications in Italy, England, Canada, South Africa and Australia (C. J. Abraham)
41. Focus Enhancing Blinders, C. J. Abraham, U.S. patent 7,322,693, January 29, 2008.
42. Registration Certificate No.: 2008/03600 covering APPARATUS FOR ENHANCING ABSORPTION AND DISSIPATION OF IMPACT FORCES FOR SWEATBANDS (South Africa): Accepted and issued on February 25, 2009.
43. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands PCT/US2005/034267 (pending) C.J. Abraham.
44. Apparatus for Enhancing Absorption and Dissipation of Impact Forces for Sweatbands South Africa Patent No.: 2008/03600 C. J. Abraham
45. Universal Protective Headgear, C. J. Abraham U.S. and International Patent applied for, April 2015.
46. Universal Chest and Breast Protector, C. J. Abraham, U.S. and International Patent applied for, August 2015.
47. Protective Headgear for Insertion within a Helmet, C. J. Abraham Provisional Patent Application, February 8, 2016, 62/292,601
48. Universal Protective Headgear, C.J. Abraham, U.S. Patent Application Publication No.: 2016/0286888 A1, October 6, 2016
49. XENA, with two FF's, Reg. No. 5,172,136, Registered March 28, 2017, Trademark, United States Patent and Trademark Office, Class 28: breast protective garment for absorbing and dissipating impact forces to the breasts that occur while participating in contact and collision sports. The mark consists of a letter "F" facing backwards followed by the word "XENA" followed by the letter "F" facing forward all within a chevron type shape with a border.



## PRESENTATIONS AND PUBLICATIONS

- Peer reviewer of manuscripts for the American Society for Testing & Materials (ASTM) 1991-Present
  - Peer reviewer of manuscripts for the Journal of Forensic Examiners, 1994-Present
  - Numerous papers written and/or presented during 1961-1965 under confidential and/or secret clearance in areas of ablation, insulation, material evaluation, fiber analysis in hyper-thermal environments.
1. A Survey of Insulation Materials, by C. J. Abraham, R. L. Keller and A. A. Stenersen, Report No. 339, Aerojet Corporation, August, 1961.
  2. Evaluation of specific DuPont Research Fiber Reinforcing Agents, C. J. Abraham and A. A. Stenersen, Report No.MF-525; Aerojet General Corporation, November, 1963.
  3. The Treatment & Analysis of Power Plant Operations, by C. J. Abraham, Engineering Society of Power Plant Engineers, Suffolk County, 1967.
  4. Chemical Defense of Drugs and Narcotics, by C. J. Abraham, Suffolk County Criminal Bar Assoc., 9/74.
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  17. Flammable Fabrics - A Critique, presented to NY State Trial Lawyers Association., October 23, 1982.
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73. Enhancing the Flame Retardancy of Natural and Natural-Polymer Fibers, C. J. Abraham, World Textile Congress on Natural and Natural Polymer Fibers, The University of Huddersfield, Huddersfield, England, July 9-11, 1997.
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78. Site Monitoring, C. J. Abraham, Emergency Preparedness and Response, Educational Program Innovations Center, Toronto, Canada, February 6, 2001 (presentation).
79. Hazard Communication-Manufacturer, Importer, Distributor, Employer and Employee, C. J. Abraham, Emergency Preparedness and Response, Educational Program Innovations Center, Toronto, Canada, February 6, 2001 (presentation).
80. Characteristics of Hazardous Materials, C. J. Abraham, Storage and Handling of Hazardous Materials, Educational Program Innovations Center, Toronto, Canada, March 20, 2001.
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82. A New Standard of Care in Absorbing and Dissipating Forces, C. J. Abraham, Fourth International Symposium on Safety in Ice Hockey, May 5-6, 2002, Pittsburgh, Pennsylvania.
83. Correcting the Flaws in The Flammability Testing of Woven and Knitted Apparels, C. J. Abraham and Sanjeev Gandhi, International Conference on Textiles, Manchester, England, October 5-6, 2002.
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85. Environmental Forensic Techniques - The Investigator/Scientist - An Overview, Abraham, C. J., Conference on Environmental Litigation: Advanced Forensics and Legal Strategies, EPIC Educational Program Innovations Center, Toronto, Canada, Nov. 19-20, 2002.
86. Product Safety-Product Liability and Torts, C. J. Abraham, Glasgow School of Law, Glasgow, Scotland, March 16, 2004.
87. Reducing the Impact Force on Hockey Helmets, C. J. Abraham, Safety & Protective Committee, USA Hockey 2005 Annual Congress, Miami, FL, January 19, 2005.
88. Subdural Hematoma and the Sport of Hockey: A Case Study, C. J. Abraham, Safety & Protective Committee, USA Hockey 2006 Annual Congress, Miami, FL, January 20, 2006.
89. Risk Analysis in Product Design, Columbia University, School of Engineering, New York, March 31, 2009; C. J. Abraham
90. Risk Analysis of Horizontal Ladders Above Another Playground Activity, ASTM, Tampa, Florida, January 29, 2008.
91. The Design Criteria for a Safe Design of Products, Columbia University, Department of Mechanical Engineering, (Seniors & Masters Class), NYC, February 12, 2008.
92. Risk Analysis in Product Design, Columbia University, Department of Mechanical Engineering, New York, March 31, 2009; C. J. Abraham
93. Points of Law Associated with Mechanical Engineering and Designing Products, C. J. Abraham, Columbia University School of Mechanical Engineering, November 3, 2009
94. Your Body Is Nothing Without A Brain, C. J. Abraham, Forensic Examiner, Spring Issue, 2011, pp. 109-113.
95. Mechanical Engineering: The Product & The Law, C. J. Abraham, Columbia University School of Engineering, Department of Mechanical Engineering, March 24, 2011 (Seminar)
96. Concussions, Head Injuries and the Textile Industry, C. J. Abraham, The Textile Institute in Manchester, UK, November 30, 2011 (International Conference)
97. Concussions and Head Injuries in Soccer, C. J. Abraham. Testimony before the Senate and Congressional Representatives of the Commonwealth of Massachusetts, Committee on Education
98. Concussions and Head Injuries - interview on Mind Games Radio in St. Louis, Missouri on November 5, 2011.
99. Concussions, Head Injuries and The Textile Industry, C. J. Abraham, The Textile Institute, Managing Innovation in Textiles, Manchester, United Kingdom on November 30, 2011.

100. US Youth Soccer Workshop, February 16-18, 2012, at the Hynes Convention Center in Boston, Mass. Head Injuries and Concussions
101. Propellant Systems for Household Spray Products, C. J. Abraham, American Institute of Chemical Engineers, Houston Texas, April 2, 2012.
102. Sub-Concussive Head Impacts in Soccer and a Method for Significantly Reducing and Dissipating Those Forces, Abraham, C. J. and Abraham, S. R., presented at the ASTM International Symposium on the Mechanism of Concussion in Sports, November 13, 2012, Atlanta, Georgia.
103. Sub-Concussive and Concussive Head Impacts in Soccer and a Method for Significantly Absorbing, Reducing and Dissipating Those Forces, C. J. Abraham, Expo Soccer, Montreal, Canada, March 31, 2013.
104. Concussive and Sub-Concussive Brain Injuries in Soccer, C. J. Abraham, 2013 Soccer Expo, Lake Tahoe, Nevada, April 12, 2013
105. Facts, Myths and Misconceptions in Concussive and Sub-Concussive Brain Injuries, C. J. Abraham, Lake Tahoe, Nevada, April 13, 2013
106. Failure Analysis of a PVC Bottle Containing a Fire Starter Gel Designed for Wood and Wood Pellet Stoves, C. J. Abraham, Columbia University School of Engineering, Department of Mechanical Engineering, October 15, 2013 (Graduating Senior Seminar).
107. Structural Forensic Engineering: Using Forensic Engineering Information in Litigation, C. J. Abraham, HalfMoon Education, Nashville, TN January 22, 2014
108. Structural Forensic Engineering: Understanding the Forensic Engineering Process, C. J. Abraham, HalfMoon Education, Nashville, TN January 22, 2014
109. Determining the Liability of a Fire-Starting Product, C.J. Abraham, 2014 AIChE Spring Meeting, New Orleans, LA, April 1, 2014
110. Total Fog Release Chemical Products: The Hidden Dangers and Enhanced Risks, C.J. Abraham, AIHce (American Industrial Hygiene - Conference and Exposition) 2014, San Antonio, TX June 5, 2014
111. A Brief Outline of Tort Law and the Mechanical Engineer, C.J. Abraham, The City Univ. of New York, (CUNY), Department of Mechanical Engineering, New York, October 21, 2014
112. A Brief Outline of Tort Law and the Mechanical Engineer, C.J. Abraham, Columbia University, Department of Mechanical Engineering, New York, October 23, 2014
113. The Mechanical Engineer & Consumer Product Design Safety Requirements & The Law, C.J. Abraham, Columbia University, Department of Mechanical Engineering, two-hour seminar for all of the graduating seniors in mechanical engineering, New York, NY, November 5, 2015.
114. The Mechanical Engineer & Consumer Product Design Safety Requirements & The Law, C.J. Abraham, City College of New York (CUNY), Department of Mechanical Engineering, two-hour seminar for all of the graduating seniors in mechanical engineering, New York, NY, November 12, 2015.
115. University of the Pacific presentations to faculty and graduate students in (a) Chemistry & Chemical Engineering, (b) Coaching Sports & Recreational Activities (c) Challenged, handicapped activities and learning (e) Opportunities by applying various aspects of learning through experience, education and work ethic. (f) Entrepreneurial endeavors, C.J. Abraham, February 9 & 10, 2016.
116. Chemistry & Alternative Career Opportunities, C.J. Abraham, 44th ACS Middle Atlantic Regional Meeting the College of St. Vincent, Riverdale, New York, June 10, 2016 (2-hour presentation)
117. Brain Injuries in Recreational & Competitive Basketball, C. J. Abraham, 125th AAU National Convention in San Antonio, Texas, October 13, 2016
118. The Mechanical Engineer & Product Design Safety, Risk Analysis & The Law, C.J. Abraham, Manhattan College School of Engineering, October 18, 2016
119. Product Designs, Risk Analysis & Standards, The Legal Responsibilities of Mechanical Engineers, C.J. Abraham, Columbia University, Department of Mechanical Engineering, November 10, 2016
120. The Law & Mechanical Engineering Responsibilities, C.J. Abraham, Manhattan College Department of Mechanical Engineering, January 24, 2017
121. The Law & Mechanical Engineering Responsibilities, C.J. Abraham, Columbia University Department of Mechanical Engineering, January 26, 2017
122. Engineering Designs & The Mechanical Engineer: Responsibilities of the Engineer in the Design of Products for Consumer and Industrial Applications, C.J. Abraham, Manhattan College Department of Mechanical Engineering, October 17, 2017
123. Industrial Accidents, Types and Causes Integrating Mechanical Engineering and The Law, C.J. Abraham, Columbia University, Department of Mechanical Engineering, October 19, 2017

124. **Engineering Designs & The Mechanical Engineer: Responsibilities of the Engineer in the Design of Products for Consumer and Industrial Applications, Columbia University, Department of Mechanical Engineering, September 28, 2017**
125. **The Most Common Indoor Volleyball Injuries and the Non-delegable Responsibilities of Coaches, Schools and Leagues with Reference to the Safety and Welfare of Players, C. J. Abraham, 2017 American Volleyball Coaches Association, Kansas City, Kansas, December 16, 2017**
126. **Engineering Designs & The Mechanical Engineer (Part I): Responsibilities of the Engineer Involved in the Design of Products for Consumer and Industrial Applications, C. J. Abraham, Columbia University, Department of Mechanical October 11, 2018**
127. **Engineering Responsibilities & The Mechanical Engineer (Part II): Responsibilities of the Engineer Involved in the Design of Products for Consumer and Industrial Applications, C. J. Abraham, Columbia University, Department of Mechanical Engineering, October 23, 2018**
128. **The Kaprun Ski Train-A Disaster Waiting to Happen, C.J. Abraham, National Academy of Forensic Engineers (NAFE), Orlando Florida, January 5, 2019**

## **Dr. C.J. Abraham**

PhD, JD, PE, DPE, CPC, FRSC, DEE, IH  
FTI, BCFE, DCEE, CChE, CChem

Dr. Abraham is a licensed P.E. and a Senior Member and a Diplomat in The National Academy of Forensic Engineers. Over the last 45 years, C. J. Abraham has created warnings and instructions for many products and protocols applied and used worldwide. He has consulted to major news channels, NHTSA, OSHA, NIOSH, State of California (CalTrans), Microsoft, New York Transit, Queensborough Bridge Authority, Department of Agriculture, the Federal Government, office of the United States Attorney, State Attorney General's Offices, and municipalities throughout the United States, Canada and Europe in a variety of technical areas.



Dr. Abraham is also the author of over 120 publications and presentations. His current interests are in the areas of head and brain protection in sports and recreation and personal injury accidents and litigations. In addition, he is also involved in the reconstruction of all types of sports injuries in a large variety of recreational and sports activities, amusement parks, sports facilities, as well as accidents involving a variety of products and vehicles. His background may be found at [www.scientificadvisory.com](http://www.scientificadvisory.com). He has also invented and commercialized many products.

In the past, Dr. Abraham was a United States representative to the International Standards Organization (ISO), a member of the Executive Board of the Hockey Equipment Certification Council (HECC), a member of the Safety and Protective Equipment of USA Hockey. He has also been an active member of the American Society of Testing and Materials (ASTM) from 1964 to the present time participating in the creation of safety standards for all types of recreational activities, sports and a variety of products. He is also a Diplomat in Sports and Recreation. As a result of Dr. Abraham's involvement in personal injury and litigation cases, many products, including recreational and sports activities, have been made safer.