PRESENTATIONS AND PAPERS

Dr. Carl J. Abraham, P.E.

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 hyperthermal 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., Sept. '74.
- 5. "Forensic Evaluation and Defense", by C. J. Abraham, Suffolk County Criminal Bar Assoc., 1975.
- 6. "Used of Experts in Forensic Sciences", C. J. Abraham, Queens County Criminal Bar Assoc., Jan. 1976.
- 7. "Adaptation of Testing Standards to Practical Requirements", C. J. Abraham & F.L. Ryder, Nat'l Symposium on Technical Standards in Products Liability Litigation, American Society for Testing & Materials, Toronto, Canada, May 5, 1977.
- 8. "Hazards Relating to Hospital Procedures and Standards of Care", by C. J. Abraham & F.L. Ryder, ibid
- 9. "Safety Design in Plastic Sports Equipment", by C. J. Abraham & F.L. Ryder, Nat'l Technical Conference on Safety and Health with Plastics, Denver, CO., November 8, 1977.
- 10. "Product Liability and Negligence Within the Hospital Environment", by C. J. Abraham, Nassau Bar Assoc. June, 1978.
- 11. "The Law and Use of Videotaping Depositions", by C. J. Abraham, NY State Trial Lawyers Assoc., NYC, October 1978.
- 12. "An Analysis of a Defective Product from the Manufacturer to the Consumer", by C. J. Abraham, NY State Trial Lawyers Assoc., ibid.
- 13. "Product Liability & the Expert's Role", C. J. Abraham & F. L. Ryder, NY State Trial Lawyers Assoc.
- 14. "The Importance of Discovery in Handling Cases Prior to the Deposition", by C. J. Abraham, John Jay College of Criminal Justice, NYC, March 27, 1979.
- 15. "An Overview of Ford Transmissions from 1971-1979", by C. J. Abraham presented at the DOT's public proceeding, Aug. 21, 1980, on "Initial Determination of a Safety Related Defect in Ford Vehicles with C-3, C-4, C-6, FMX and Jatco Transmissions", (NHTSA Proceedings).
- 16. "Products Liability Aspects of Asbestos", presented to the Toxic Tort Section of the American Trial Lawyer's Association, Hilton Head, SC, October 1981.
- 17. "Flammable Fabrics A Critique", presented to NY State Trial Lawyers Association., October 23, 1982.
- 18. "Explosion Accidents", by C. J. Abraham, ibid.
- 19. "Labeling Liability in the Toxic Tort Case", by C. J. Abraham, et al., 1983 Annual Convention, Assoc. of Trial Lawyers of America, July 15-22, 1983, Washington, DC; Trial Lawyers Quart., Vol. 15, No. 4, 1983, NY State Trial Lawyers Assoc., pp.19-35; presented 5th Int'l Conf. on Toxic Products, San Francisco, CA, June 4, 1984.
- 20. "Foreseeable Fire Hazards in Mobile Home Construction", C. J. Abraham, et al., Proc. 5th California Conf. on Product Toxicity, Vol. 5, 1984, pp. 68-72; presented to the 9th Int'l Conf. on Fire Safety, San Francisco, CA, January 17, 1984.
- "Systems Safety Approach Relating to Fire Hazards in Mobile Homes", C. J. Abraham, Joint Meeting - Systems Safety Society and American Society of Safety Engineers, East Meadow, NY February 9, 1984.
- 22. "Labeling Liability Standards and Household Products", C. J. Abraham, Joint Meeting-Systems Safety Society and American Society of Safety Engineers, East Meadow, NY, 2/9/84.
- 23. "Warnings with Respect to Swimming Pools and Sports Equipment: Are They Effective?", C. J. Abraham, et al, NYS Trial Lawyers Assoc., NY, March 10, 1984.
- 24. "Household Products Drain Cleaners", C. J. Abraham, Product Defect Handbook, Lawyers Cooperative Publishing Company, Rochester, NY 1984.
- 25. "Controlling Fires in Buildings and Products", C. J. Abraham, et al., 10th Int'l Conf. on Fire Safety, San Francisco, CA, 1985. (Paper presented by C. J. Abraham)

- 26. "Product Toxicity Warnings and Instructions", by C. J. Abraham, et al., Proc. 5th California Conf. on Product Toxicity, Vol. 5, 1985, pp. 25-48.
- 27. "Fire Safety Aspects of Battery Explosions", C. J. Abraham, et al., 11th Int'l Conf. on Fire Safety, 1986 (San Francisco, CA).
- 28. "Drain Cleaners Warnings", C. J. Abraham, et al., Product Defect Handbook, Lawyers Cooperative Publishing Company, Rochester, NY, May, 1986.
- 29. "Methylene Chloride: Toxicology, Detection and Tort Experience", C. J. Abraham, et al., 2nd Conference on Current Concerns on Toxicology, October 6-7, 1986 (San Francisco, CA.
- 30. "Analysis of Standards and Testing of Fireman's Protective Clothing", C. J. Abraham, et al., 2nd Int'l Symposium on Performance of Protective Clothing sponsored by ASTM Committee F-23, American Industrial Hygiene Assoc., and the Royal Institute of Technology, Stockholm, Sweden. Jan. 1987, Tampa, FL.
- 31. "State-of-the-Art Technology of Firemen's Protective Clothing", C. J. Abraham, et al., 12th International Conference on Fire Safety, January, 1987 (San Francisco, CA).
- 32. "Liabilities in Sports and Recreational Accidents", C. J. Abraham, et al., Trial Lawyers Association of Metropolitan Washington, DC, April 7, 1987.
- 33. "Assumption of Risk Hockey Injuries", C. J. Abraham, et al., ASTM Symposium on SAFETY IN ICE HOCKEY, October 27, 1987 (Montreal, Canada); published in Safety in Ice Hockey, pp. 44-51, ASTM Publication Code Number (PCN) 04-01050-47, September, 1989.
- 34. "The Forensic Implications of a Gasoline Spill Caused by a Leaking Underground Storage Tank", C. J. Abraham, et al., Int;I Assoc. of Forensic Sciences, 11th Meeting, Aug. 2-7, 1987, (Vancouver, BC, Canada).
- 35. "Mannequin Simulation Studies in the Flammability Evaluation of Garments", C. J. Abraham, et al. 13th Int'l Conference on Fire Safety, January 11-15, 1988 (San Francisco, CA).
- 36. "A Protective Shield for Prevention of Battery Explosion Injuries", C. J. Abraham, et al., 13th International Conference on Fire Safety, January 11-15, 1988 (San Francisco, CA).
- 37. "Battery Explosions Cause and a Solution", C. J. Abraham, Presented to U.S. DOT National Highway Traffic Safety Administration, Washington, DC, February 19, 1988.
- 38. "Automotive Battery Explosions-A Solution", C. J. Abraham, et al., SAFE Symposium, Las Vegas, December, 1988.
- "Design Criteria for Footwear and Functional Testing on Artificial and Natural Surfaces", C. J. Abraham, et al., ASTM Symposium on The Characteristics and Safety of Playing Surfaces (Artificial & Natural) for Field Sports, Phoenix, AZ, Dec. 6, 1988. ASTM STP1073 Publication, 1990.
- "Analysis of Standards and Testing for Firemen's Protective Clothing", C. J. Abraham, et al., Performance of Protective Clothing-Second Symposium, ASTM Publ. Code 04-989000-55, p. 422-439.
- 41. "Standards and Flammability Characteristics of Blankets and Sheets", C. J. Abraham, et al., 14th International Conference on Fire Safety, Jan. 9-11, 1989, San Francisco, CA.
- 42. "Automobile Battery Explosions: A New Standard of Care", C. J. Abraham, et al., 46th Annual Belli Seminar, July 15, 1989, Boston, MA (The Melvin Belli Society).
- 43. "Development of the International Standard for Aircraft Batteries", C. J. Abraham, et al., 1989 SAFE Symposium, New Orleans, LA, December 5-8, 1989.
- 44. "A New Standard of Care for Wearing Apparel, Blankets and Sheets", C. J. Abraham, et al., 15th International Conference on Fire Safety, January 8-10, 1990, San Francisco, CA.
- 45. "Tracking the Source of a Gasoline Storage Tank Leak", C. J. Abraham, et al., The Society of Forensic Toxicologists, Huntington, NY, September 11-15, 1990.
- 46. "Automotive Battery Explosions: A Solution", C. J. Abraham, Adelphi University Chemistry Faculty, Garden City, New York, October 1, 1990.
- 47. "Flammable Fabrics: Populations at Risk A Solution", C. J. Abraham, et al., Conference on Fire Safety and Thermal Insulation, Nov. 5-6, 1990, St. Petersburg, FL.
- 48. "Flammable Fabrics: New Standards of Care for Populations at Risk", C. J. Abraham, et al., Textile Institute World Conference, Dundee, Scotland, November 19-22, 1990.
- 49. "Flammable Fabrics: New Standards for Populations at Risk", C. J. Abraham, et al., Trial Lawyers Quarterly, Fall 1990, Vol. 21, No. 1.
- 50. "Toxic Exposures in Industry: A Case Study", C. J. Abraham. American Chemical Society, Hofstra University, Hempstead, NY, December 6, 1990.
- 51. "Flame Retardancy Technology and Standards for Wearing Apparel A Time for Upgrading", C. J. Abraham, Conference on Recent Advances in Flame Retardancy of Polymeric Materials, Stanford, CT, May 14-16, 1991.
- 52. "Technical Investigations for the Claims Adjustor", C. J. Abraham, Akron Claims Assoc, Akron, OH, February 12, 1992.
- 53. "A Critique of Ice Hockey Equipment and Facilities", C. J. Abraham and J. P. Doolan, 2nd International Symposiumon Safety in Ice Hockey sponsored by ASTM Committee F08 on Sports Equipment & Facilities, F.08.15 on Ice Hockey and The Hockey Equipment Certification Council, Pittsburgh, PA, May 20-21, 1992.

- 54. "Battery Explosions Status and Solutions", C. J. Abraham, International Electronics Council, 56th IEC General Meeting, September 29, 1992, World Trade Center, Rotterdam, The Netherlands.
- 55. "Protection Of The Manufacturer, Or Protection Of The Consumer", C. J. Abraham, 5th Fire Safety Conference, Clarion Plaza Hotel, Orlando, FL, Feb. 15-17, 1993 (Session Chairman: Fire Risk Assessment/Training).
- 56. "The Flammable Fabrics Act: An Unreasonably Dangerous Act", C. J. Abraham, Standards Engineering, May/June, 1993, pp. 1 & 3-7 (Presented at the Belli Seminar, July 31, 1993, San Francisco, CA).
- 57. "Death In The Campgrounds", A Forensic Investigation, C. J. Abraham, et al., Canadian Society of Forensic Science and the Association of Official Analytical Chemists (Mid-Canada Regional Section), Winnipeg, Manitoba, September 8-11, 1993.
- 58. "The Forensic Investigations of "Death In The Campgrounds", C. J. Abraham, S.O.F.T/C.A.T 1993 Joint Meeting, Phoenix, Arizona, October 10-16, 1993.
- 59. "The Flammable Fabrics Act: An Unreasonably Dangerous Act", C. J. Abraham, Trial Lawyers Quarterly, Vol. 23, No. 4, Summer 1993.
- 60. "Tent Design-The Hidden Dangers", C. J. Abraham, et al.,, 6th Fire Safety Conf./Exhibition, Orlando, FL, Feb 14-16, 1994. (Session III Chairman, Fire Risk Assessment/Training).
- 61. "Tent Design- The Hidden Dangers", C. J. Abraham, et al., 1994 Annual BCC Conference, Recent Advances in Flame Retardancy of Polymeric Materials, Stamford, Connecticut, May 24-26, 1994.
- 62. "Linseed Oil A Hazardous But Necessary Ingredient?", C. J. Abraham, et al, 1994 Annual BCC Conference, Stamford, Connecticut, May 24-26, 1994.
- 63. "Chemical Safety and the Law", C. J. Abraham, American Chemical Society (Long Island Subsection), Hofstra University, Hempstead, New York, March 9, 1995.
- 64. "Recommended Design Factors For The Ideal Sports Sneaker", C. J. Abraham, et al., Conference on Textiles in Sports and Sportswear, The University of Huddersfield, Queensgate, Huddersfield, Great Britain, April 10-11, 1995.
- 65. "Tent Fabric Design Defects and Recommended Solutions", C. J. Abraham, et al., Conference on Textiles in Sports and Sportswear, The University of Huddersfield, Queensgate, Huddersfield, Great Britain, April 10-11, 1995.
- 66. "A Solution To Spontaneous Combustion in Linseed Oil Formulations", C. J. Abraham, International Conference on Fire Retardant Polymers, 5th European Conference, University of Salford, Salford, England, Sept. 4-7, 1995.
- 67. "A Solution to Spontaneous Combustion In Linseed Oil Formulations,: C. J. Abraham, Adelphi University, Department of Chemistry, Garden City, New York, October 19, 1995.
- 68. "A Solution To Spontaneous Combustion in Linseed Oil Formulations", C. J. Abraham, Polymer Degradation and Stability, Elsevier Applied Science, Vol. 54, 1996.
- 69. "The Flammable Fabrics Act: Legal and Technical Analysis", C. J. Abraham, Hispanic National Bar Association 1996 Convention, Miami, Florida, October 3-5, 1996.
- 70. "A Viable Product vs. The Legal System", C. J. Abraham, Safety In Ice Hockey, Third International Symposium, Sponsored by ASTM and supported by HECC and USA Hockey, May 4-5, 1997, St. Louis, Missouri, Session Chairman of Session VII, May 5, 1997.
- 71. "A Viable Product vs. The Legal System", C. J. Abraham, Connecticut Bar Association, New Haven, Connecticut, May 15, 1997. (presentation)
- 72. "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.
- 73. "A Solution to Prevent Spontaneous Combustion in Linseed Oil Formulations", C. J. Abraham, 6th European Meeting on Fire Retardancy of Polymeric Material, Lille, France, Sept. 24-26, 1997.
- 74. "Reduced Flammability Fibers", C. J. Abraham, World Textile Congress on Industrial, Technical & High Performance Textiles, The University of Huddersfield, Huddersfield, England, July 15 & 16,1998.
- 75. "Reduced Flammability Fibers", C. J. Abraham, Seventh International Symposium on Performance of Protective C lothing Issues and Priorities for the 21st Century, June 28-30, 1999, Seattle, WA.
- 76. "A Viable Product vs. The Legal System", C. J. Abraham, Trial Lawyer's Quarterly, 2001
- 77. "Site Monitoring", C. J. Abraham, Emergency Preparedness and Response, Educational Program Innovations Center, Toronto, Canada, February 6, 2001 (presentation).
- 78. "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).
- 79. "Characteristics of Hazardous Materials", C. J. Abraham, Storage and Handling of Hazardous Materials, Educational Program Innovations Center, Toronto, Canada, March 20, 2001.
- 80. "Fire Protection", C. J. Abraham, Storage and Handling of Hazardous Materials, Educational Program Innovations Center, Toronto, Canada, March 21, 2001
- 81. "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.

- 82. "Correcting The Flaws In The Flammability Testing Of Woven And Knitted Apparels", C. J. Abraham and Sanjeev Gahndi, International Conference on Textiles, Manchester, England, October 5-6, 2002.
- 83. "Correcting The Flaws In The Flammability Testing Of Textiles", C. J. Abraham and Sanjeev Gahndi, The 3rd International Conference on Safety & Protective Fabrics, Charlotte Convention Center, Charlotte, N.C., Oct. 23-24, 2002.
- 84. "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.

PATENTS AND PRODUCTS

- 1. High temperature carbonaceous and siliceous materials; dental and medical fields, industrial formulations for air and water pollution fields; polymers and novel adhesives; formulations for cleaning - industrial and consumer applications; glass and coating formulations.
- 2. Head Gear in Sports 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 U.S. Patent No. 4,631,758, dated December 30, 1986.
- 4. Protective Shield For Battery U.S. Patent 4,699,855 granted June 1987; issued Oct. 13, 1987
- 5. Canadian Patent, issued May 14, 1991, No. 1284174.
- 6. Japanese Patent Application No. 60888/1987
- 7. Protective Shield for Battery Improvement U.S. Patent No. 4,770,958, September 13, 1988.
- 8. West German Patent Application No. P38 04 447.1.9. Great Britain Patent No. 2208032, dated May 31, 1988
- 10. Italian Patent Application, No. 67503-A/88
- 11. French Patent Application No. 88 10747
- 12. Storage Battery Having a Protective Shield Deflectable Battery Shield, U.S. Patent No. 4,952,468, August 28, 1990
- 13. Spanish Patent No. 2,021,505, March 21, 1992
- 14. British Patent, issued September 7, 1989, No. 2,235,085
- 15. Italian Patent Application 68583-A/89.
- 16. French Patent Application No. 89 17442/140644.
- 17. 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. Apparatus For Enhancing Absorption And Dissipation Of Impact Forces For All Protective Headgear, Abraham, C. J., U. S. Patent No. 6,272,692, 8/14/01.
- 23. Apparatus For Enhancing Absorption And Dissipation Of Forces For All Helmets And Protective Equipment, Abraham, C. J., et al., U. S. Patent No. 6,282,724, Sep. 4, 2001.
- 24. Impact And Energy Absorbing Product For Floors, Walls, Panels, And Other Flat Surfaces. Abraham, C. J., et al., Patent applied for in June 2001, approved 2/02.
- 25. Impact And Energy Absorbing Product For Helmets And Protective Gear, C. J. Abraham, et al. U. S. Patent 6,378,140, April 30, 2002.
- 26. Enhanced Impact And Energy Absorbing Product For Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces, U. S. Patent applied for in November 2001.
- 27. Enhanced Impact And Energy Absorbing Product For Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces", U. S. Patent applied for in May 2002.
- 28. Animal Repellent, U.S. Patent 5,554,377, September 10, 1996.
- 29. Self Locking Adjustable Bracelet, U.S. Patent 5,603,231, February 18, 1997.
- 30. Self Locking Breakaway Band, U.S. Patent 5,657,645, July 19, 1997.
- 31. Solid And Liquid Compositions For Dispersion Of Insect Repellent Based On DEET, U.S. Patent 2,738,862, April 14, 1998.
- 32. Insect Repellent Candle And Method Of Making Same, U.S. Patent 5,854,284, December 29,
- 33. Apparatus For Enhancing Absorption And Dissipation Of Impact Forces For Sweatbands, C. J. Abraham, US Patent applied for August 2002.