

CURRICULUM VITAE

BRYAN REEDER BURNETT

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Cardiff-by-the-Sea, California 92007-1102
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meixatech.com

EDUCATION

Scripps Institution of Oceanography: M.S. Marine Biology
San Diego State University: M.S. Biology (Physiology)
San Diego State University: B.S. Zoology

PROFESSIONAL EXPERIENCE

- Gunshot forensics - Gunshot residue analysis & interpretation
- Crime scene reconstruction
- Scanning electron microscopy - preparation/operation/imaging
- Energy dispersive X-ray analysis - elemental analysis
- Quantification of asbestos and non-asbestos particle burden in lung tissue by electron microscopy.
- Digital imaging - application development/training in the PC environment
- Detection of manipulation in color photographs
- Testimony in court (civil and criminal)
- Booth setup, display and demonstrations in technical shows
- Use of statistics in ecology and other sciences
- Technical/scientific illustration (> 40 years experience)
- Beta testing of software for scientists for a digital camera company
- Specialized software development - documentation/debugging (Basic)
- Biological Oceanography/Marine Biology - set up of sampling programs, etc. (6 months total sea time)

EMPLOYMENT

May 2021- Present: Director of MEIXA TECH, Cardiff-by-the-Sea, California. We provide:

- 1) Analysis and interpretation of gunshot residue in criminal cases (publications).
- 2) Digital imaging: macro imaging, image enhancement and processing (publications).
- 3) Crime-scene reconstruction (publications).

Jan. 1982- May 2021: Director of MEIXA TECH, Cardiff-by-the-Sea, California. We provide:

- 1) Documentation of inorganic particle exposure (e.g. asbestos, heavy metals) in lung and other tissue. Meixa Tech has worked on hundreds of pulmonary-injury cases throughout the country (publications).
- 2) Analysis and interpretation of gunshot residue in criminal cases (publications).
- 3) Digital imaging: macro imaging, image enhancement and processing (publications).
- 4) Crime-scene reconstruction (publications).
- 5) Industrial testing, past & current clients include: Maxwell Labs, Cymer Laser, Kelco, Ryan Aeronautical, Biosensors International and Professional Water Technologies.

Jan. 2002- Mar. 2005: Associate with NYOPTICS, INC. Duties include demonstration of digital cameras to professional engineers and scientists, booth preparation and product demonstration for trade shows, training professionals on the use of Adobe® Photoshop and beta-testing of a manufacturer of scientific digital cameras and software.

Feb. 1997- Oct.2000: Associate with PACIFIC CREST IMAGING SYSTEMS. Duties include demonstration of digital cameras to professional engineers and scientists, booth preparation and product demonstration for trade shows, training professionals on the use of Adobe Photoshop and beta-testing of a major manufacturer of scientific digital cameras and software.

Nov. 1992- Sept. 1997: Senior Scientist with FORENSIC SCIENCE CONSULTING GROUP, Cardiff-by-the-Sea, California (Director: Joseph Orantes). We provided forensic support for almost all aspects in the investigation of criminal cases. My expertise includes gunshot residue and other particle analyses by scanning electron microscopy/energy dispersive X-ray analysis. I also contribute expertise in other forensic areas where scanning electron and light microscopy are applicable.

July 1987- July 1988: Senior Research Analyst with MEC Analytical Systems. 531 Encinitas Blvd., Suite 110, Encinitas, CA 92024.

Oct. 1981- Aug. 1982: Scientific illustrator and illustration consultant for environmental impact reports involving shallow marine and fresh water projects. Lockheed Ocean Systems, San Diego.

Oct. 1980- June 1982: Staff Research Associate, University of California, San Diego. Duties: finding particulates in human lung sections with scanning electron microscopy and identifying elemental composition using X-ray analysis.

June 1980- Oct. 1980: Freelance scientific illustration. Clients included Marine Ecological Consultants and Marine Review Committee.

Oct. 1975- June 1980: Staff Research Associate, Scripps Institution of Oceanography. Duties: ecological impact study for DOE of the abyssal benthos (5700 to 6100 m depth) in the central North Pacific. Nano-, meio- and macrobenthos; organisms associated with ferromanganese nodules. Five expeditions as Chief Scientist on the R/V Thomas Washington - .25 square meter box coring.

HOBBIES

Sculpture in wood (award winning)
Antique furniture restoration

AFFILIATIONS

Associate Editor, International Journal of Forensic Sciences
Carlsbad Oceanside Art League
Muck Rack

American Academy of Forensic Sciences, Retired Fellow (resigned, 2018)
San Diego Forensic Consultants Association (1982 to 2015; defunct as of March 2015))
 Vice President, 2008, 2009, 2010, 2011
 President, 1998, 1999
 Secretary, 1992, 1993, 1994
 Newsletter Editor, 1992, 1993, 1994
International Association for MicroAnalysis (defunct, but professional articles still available online)

REFERENCES

Conard Metcalf Asbestos Injury
Simmons Hanly Conroy.
One Court Street
Alton, IL 62002

John Comerford Asbestos Injury
Lipsitz Ponterio & Comerford
424 Main Street, Suite 1500
Buffalo, NY 14202

Joseph D. Satterley Asbestos Injury
Kazan McCain Satterley Greenwood
55 Harrison Street, STE 400
Oakland, CA 94607

Gary Wenkle Smith Crime Scene Reconstruction
198 N Arrowhead Ave
San Bernardino, CA 92408

Steven C. Glickman Gunshot Residue
Glickman & Glickman
9460 Wilshire Blvd, Suite 330
Beverly Hills, CA 90212

Judge Howard Shore Expert witness in mock trials (3X) at USD Law School
Central Courthouse
1100 Union Street
San Diego, CA 92101

CERTIFICATIONS & AWARDS

Invited speaker, International Association of Meiobenthologists, Hamburg , Germany 1977.

Early '90s: certified by the EPA for asbestos analysis by PLM.

Provisional certification to Meixa Tech as a medical laboratory (CLIA# 05D0565549) by the U.S. Department of Health and Human Services. Certification was solely contingent that Meixa Tech's director has a M.D. or Ph.D. degree - all other requirements for certification have been met. Provisional certification status cancelled sometime prior to May 2008.

Los Angeles County Superior Court Judges - List of Approved Experts: Crime Scene Reconstruction & Gunshot Residue, since 2011.

San Diego County Fair Fine Art Show: 2015 - First Place and Best of Show 3D: "Sculpture Under my Avocado Tree"

San Diego County Fair Fine Art Show: 2019 – Donated Award: "Eye on the Wall"

San Diego County Fair Fine Art Show: 2022 – Honorable Mention: "Angel Fish"

San Diego County Fair Fine Art Show: 2022 – Honorable Mention: "Rising Sun and Cloud"

San Diego County Fair Fine Art Show: 2023 – Honorable Mention and Donated award: "Kef!spirations"

San Diego County Fair Fine Art Show: 2024 – Donated award: "Celestial Cascade"

CONFERENCES ATTENDED

Law Enforcement Ammunition and Ballistics Seminar, 1995
American Academy of Forensic Sciences - 1987, 1988, 1989, 1990, 1991, 1994, 1995, 1998, 2000, 2014, 2015, 2016, 2017 (original papers presented for most)
California Association of Criminalists - 1993, 1995, 1996, 2002
Canadian Society of Forensic Science & Northwest Association Forensic Scientists - November, 1994, Vancouver, BC - Round Table Discussion on Gunshot Residue
Scanning 96, 1996 – Forensic course/workshops/original papers.
Short Course: Digital Image Acquisition, Handling, Processing and Archiving
Short Course: Scanning Electron Microscopy and Microelectronics
Scanning 97, 1997 – Forensic course/workshops/original papers (presenter).
Short Course: Practical Digital Imaging
Short Course: Forensic Sciences Work Shop
Symposium: Invited Paper Presentation
Scanning 03, 2003 – Forensic course/workshops/original papers.
Scanning 05, 2005 – Forensic course/workshops/original papers (presenter).
Short Course: Scanning Microscopy in Forensic Science
Scanning 07, 2007 – Forensic course/workshops/original papers (presenter).
Short Course: Scanning Microscopy in Forensic Science
Scanning 09, 2009 – Forensic course//original papers (presenter).
SPIE Scanning 2014 – Original papers (presenter).
Los Angeles County Bar Association – Indigent Criminal Defense Appointments Program Presentation (LACBA-ICDA Panel) April 27, 2019. (presenter on GSR).

COURT APPEARANCES (as an expert)

1. July 1988: People v. Joselito Cinco, Superior Court, Orange County, California (accepted as a expert on SEM/EDXA- gunshot residue)
2. May 1990: Royal v. Colvin, Superior Court, Contra Costa County, California (accepted as a expert on SEM/EDXA- particle analysis)
3. Dec. 1991: Jacobs v. Wittaker Corporation, Superior Court, Los Angeles County, South Central District, Compton, CA (accepted as a expert on SEM/EDXA- particle analysis)
4. Oct. 1993: USMC v. Williams. Military Court, Camp Pendleton, California (accepted as a expert on SEM/EDXA- gunshot residue)
5. Aug. 1994: People v. Edmunds. Superior Court, El Cajon, California (accepted as an expert on SEM/EDXA- gunshot residue)
6. Sept. 1995: People v. Morrison. Oklahoma City, Oklahoma (accepted as an expert on SEM/EDXA- gunshot residue)
7. Oct. 1995: People v. Rogers. Superior Court, San Diego (accepted as an expert on SEM/EDXA- gunshot residue)
8. May 1996: People v. Leon, Superior Court, Orange County (accepted as an expert on SEM/EDXA - gunshot residue)
9. Nov. 1996: USMC v. Quintanilla. Military Court, Camp Pendleton, California (accepted as a expert on SEM/EDXA- gunshot residue, paint analysis)
10. Dec. 1996: People v. Murphy. Superior Court, Los Angeles (accepted as an expert on SEM/EDXA - gunshot residue)
11. Mar. 1997: People v. Chrisman. Superior Court, San Diego (accepted as an expert on SEM/EDXA - gunshot residue)
12. Apr. 1997: People v. Pena. Superior Court, San Diego (accepted as an expert on SEM/EDXA - gunshot residue)
13. July 1999: People v. Contreras. Superior Court, San Diego (accepted as an expert on SEM/EDXA, crime scene reconstruction & gunshot residue).
14. Oct. 2000: Enrick v. Asbestos Defendants. Superior Court, Portland, OR. (asbestos injury)

15. Feb. 2003: People v. Pasillas. Superior Court, San Diego (accepted as an expert on SEM/EDXA - gunshot residue)
16. Feb. 2004: People v. Lepore. Superior Court, Pasadena, CA (accepted as expert on SEM/EDXA & crime scene reconstruction).
17. Feb. 2004: People v. Rountree. Superior Court, San Diego, CA (accepted as expert on SEM/EDXA - gunshot residue)
18. May 2004: People v. Crowder. Superior Court, San Diego, CA (accepted as expert on SEM/EDXA - gunshot residue)
19. Sept. 2004: People v. Plasencia. Superior Court, Riverside, CA (accepted as expert on SEM/EDXA - gunshot residue)
20. Nov. 2005: People v. Owens. Superior Court, Kotzebue, AK (accepted as expert on SEM/EDXA - paint analysis)
21. March, 2006: People v. Andrews. Superior Court, San Diego, CA. (accepted as expert on SEM/EDXA - gunshot residue).
22. April 2006: People v. New. Superior Court, El Cajon, CA. (accepted as expert on SEM/EDXA - gunshot residue).
23. May, 2006: People v. Lawrie. Superior Court, Vista, CA (accepted as expert on SEM/EDXA - gunshot residue).
24. Aug. 2006: People v. Maldonado, Superior Court, Compton, CA (accepted as expert on SEM/EDXA - gunshot residue).
25. March 2007: Webb, C. (Martin, S) v. ACandS et al. Superior Court, Baltimore, MD. (asbestos injury).
26. May 2008: People v. Alvarez. Superior Court. Los Angeles, CA (accepted as expert on SEM/EDXA - automotive tire transfer)
27. May 2008: People v. McIntyre. Juvenile Court, Tucson, AZ (accepted as expert on SEM/EDXA - gunshot residue).
28. April 2009. People v. Lopez. Superior Court, Los Angeles, CA (accepted as expert: SEM/EDXA - crime scene reconstruction and gunshot residue).
29. July 2009. People v. Baldwin. Superior Court, Los Angeles, CA (accepted as expert: SEM/EDXA - gunshot residue).
30. August 2011. People v. Flechtner. Superior Court, Victorville, CA (accepted as expert: SEM/EDXA - gunshot residue and crime scene reconstruction)
31. September 2011. People v. Birdsong. Superior Court, Airport Court, Los Angeles County, CA (accepted as expert: SEM/EDXA -gunshot residue).
32. October 2011. People v. Ochoa. Superior Court, Van Nuys, Los Angeles County, CA (accepted as expert: SEM/EDXA -gunshot residue).
33. April 2013. People v. Mintz. Superior Court, Los Angeles, CA. (accepted as expert: SEM/EDXA - gunshot residue).
34. April 2013. People v. Salas. Superior Court, San Fernando, CA (accepted as expert: gunshot residue).
35. August 2013. People v. Hill. Superior Court, Van Nuys, CA (accepted as expert: physical evidence evaluation of attempted burglary).
36. March 2015. People v. Lovato, Superior Court, Compton, CA (accepted as expert: SEM/EDXA - gunshot residue)
37. August 2017. People v. Santana, Superior Court, Pomona, CA (accepted as expert: SEM/EDXA - gunshot residue).
38. March 2018, People v. Delarosa, Superior Court, Lancaster, CA (accepted as expert: SEM/EDXA - gunshot residue).
39. July 2018. People v. Fay, Superior Court, Compton, CA (accepted as expert: SEM/EDXA - gunshot residue).
40. November 2018. People v. Nerio, Superior Court, Los Angeles, CA (accepted as expert: Bloodstain & bloodspatter).
41. March 2019. People v. Lemos. Superior Court, Lancaster, CA (accepted as expert: SEM/EDXA - gunshot residue)
42. May 2019. People v. Harris. Superior Court, Torrance, CA (accepted as expert: crime scene analysis).
43. July 2019. People v. Scott, Superior Court, Los Angeles, CA (accepted as expert: crime scene analysis).

44. April 2022. People v. Lopez. Superior Court, Van Nuys, CA (accepted as expert: crime scene analysis).
45. April 2024. People v. Jackson. Superior Court, Los Angeles, CA (accepted as expert: SEM/EDXA – gunshot residue).

DEPOSITIONS & ARBITRATIONS

1. Weeks v. Fibreboard et al.; Duda vs. Fibreboard et al., February 10, 1987 (asbestos injury)
2. Lostal v. Johns-Mansville Corp., et al., March 26, 1987 (asbestos injury)
3. Zaragoza v. Solis, et al., July 16, 1987, November 2, 1987 & October 14, 1988 (gunshot forensics)
4. Johnson v. Pfizer Corp., et al., March 15, 1991 (asbestos injury)
5. Jacobs v. Whittaker Corp. et al. November 9, 1991 (industrial exposure)
6. Hollywood v. Becker, March, 1992 (asbestos injury)
7. Jablon v. A.U.M., July, 1993 (paint analysis)
8. Prafke v. Alvarado Hospital, October, 1993 (surgical error)
9. Barry v. Owens-Illinois, Inc., February, 1994 (asbestos injury)
10. Wild v. AC and S, Inc., et al. 1995 (asbestos injury)
11. Blanco v. McMillin Realty et al. December, 1995 (paint analysis)
12. Sparco Trial Group - limited to Mitchell, October, 1997 (asbestos injury)
13. Hilgen v. Burlington Northern, Inc. March, 1998 (asbestos injury)
14. Edwards: PA2 Trial Group, Wilmington, DE. August, 1999 (asbestos injury)
15. Mabile v. The Executive Officers et al. April, 2000 (industrial exposure)
16. Hernandez v. Acheson Industries et al. November, 2003 (industrial exposure)
17. Pannell v. Nalco et al. February, 2004 (industrial exposure)
18. Nuriddin v. Asbestos Defendants (BHC). November, 2004 (asbestos injury)
19. Lopez v. U.S. Filter. December, 2004 (industrial exposure)
20. Coulter v. AC and S et al. January, 2005 (asbestos injury)
21. Nuriddin v. Asbestos Defendants (BHC). February, 2005 (asbestos injury)
22. Coffey v. American Standard, et al. March, 2005 (asbestos injury).
23. Rosen v. Sybron Dental Specialities et al., June, 2005 (asbestos injury).
24. Hicks v. Garlock Sealing Technologies et al., September, 2005. (asbestos injury).
25. St.Louis et al. v. City of El Cajon, et al., November, 2005 (gunshot residue, crime scene reconstruction).
26. Delaney v. Lennar Homes. March, 2006 (asbestos injury).
27. Haanstra v. Asbestos Corporation, et al. May, 2006 (asbestos injury).
28. Lilly v. John Crane et al. September, 2007. (asbestos injury).
29. Webb, C. (Martin, S) v. ACandS et al., February, 2008. (asbestos injury).
30. Watson v. B.F.Goodrich Company, et al., June , 2008 (asbestos injury).
31. Dietz (Smith, A.) v. ACand S et al., February, 2009 (asbestos injury).
32. Colaizzi v. Plus Orthopedics, et al., July, 2009 (medical device injury).
33. McCurdy v. John Crane et al., May, 2012 (asbestos injury).
34. Ureta v. Los Angeles PD (November, 2016) (crime scene reconstruction).
35. Gonzalez v. 3M Company et al., Los Angeles, CA BA592935 August, 2017. (asbestos injury).
36. Kleinhans v. Jushi USA et al., Los Angeles, CA BC670098 June, 2019 (fiberglass injury).
37. Lockett v. Los Angeles County 2:18-cv-5838-PJM April 7, 2021 (GSR)
38. Reyes-Gonzalez v. Aaroha Radiant Marble & Granite. June 2024 (industrial exposure).

CASE HISTORY

Total career cases approximately 3000, civil and criminal.

PUBLICATIONS (by discipline)

MARINE BIOLOGY

1. 1972 Burnett B.R. Aspects of the circulatory system of *Pollicipes polymerus* J.B.Sowerby (Cirripedia: Thoracica). Journal of Morphology. **136**:79-107. (also MS thesis, San Diego State University)
2. 1972 Burnett B.R. Notes on the lateral arteries of two stomatopods. Crustaceana 23:303-305.
3. 1973 Burnett B.R. Hessler R.R. Thoracic epipodites in the Stomatopoda (Crustacea): a phylogenetic consideration. Journal of Zoology. **169**:381-392.
4. 1975 Burnett B.R. Blood circulation in four species of barnacles (*Lepas*, *Conchoderma*: Lepadidae). Transactions San Diego Society of Natural History. **17**:293-304.
5. 1975 Burnett, B.R. Structure of the Eumalacostracan arterial wall. Master's Thesis. Digitized June 25, 2018. University of California, San Diego. 174 pages.
6. 1977 Burnett B.R. Blood circulation in the balanomorph barnacle, *Megabalanus californicus* (Pilsbry). Journal of Morphology. **153**:299-306.
7. 1981 Burnett B.R. Compound eyes in the cephalocarid crustacean *Hutchinsoniella macracantha*. Journal of Crustacean Biology. **1**:11-15.
8. 1984 Burnett B.R. Striated muscle in the wall of the dorsal abdominal aorta of the California spiny lobster, *Panulirus interruptus*. Journal of Crustacean Biology. **4**:560-566.

PHYLOGENY (EVOLUTION)

1. 1987 Burnett B.R. The cirripede circulatory system and its evolution. pp. 175-190 In: Crustacean Issues 5 - Barnacle Biology. A.J. Southward (ed.), F.R. Schram (gen.ed). A.A. Balkema, Rotterdam.

MARINE ECOLOGY

1. 1973 Burnett B.R. Observations of the microfauna of the deep-sea benthos using light and scanning electron microscopy. Deep-Sea Research. **20**:413-418.
2. 1977 Burnett B.R. Quantitative sampling of microbiota of the deep-sea benthos - I. Sampling techniques and some data from the abyssal central North Pacific. Deep-Sea Research, **24**:781-789.
3. 1977 Burnett B.R. Microbiota. In: Annual Report of Sandia Laboratories Seabed Disposal Program: Benthic biological studies. D. Talbert (ed.) pp. 38-45.
4. 1978 Hessler R.R., Ingram C.L., Yayanos A.A., Burnett B.R. Scavenging amphipods from the floor of the Philippine Trench. Deep-Sea Research **25**:1029-1047.
5. 1978 Burnett B.R. Microbiota and meiofauna. In: Annual Report of the Sandia Laboratories Seabed Disposal Program: Benthic biological studies. D. Talbert (ed.) pp. 29-47.
6. 1979 Burnett B.R. Quantitative sampling of microbiota of the deep-sea benthos- II. Evaluation of technique and introduction to the biota of the San Diego Trough. Transactions of the American Microscopical Society. **98**:233-242.

7. 1981 Burnett B.R. Quantitative sampling of nanobiota (microbiota) of the deep-sea benthos- III. The bathyal San Diego Trough. Deep-Sea Research. **28**:649-663.
8. 1984 Snider L., Burnett B.R., Hessler R.R. The composition and distribution of meiofauna and nanobiota in a central North Pacific deep-sea area. Deep-Sea Research. **31**: 1225-1249.
9. 1988 Burnett B.R., Thiel H. The Nanofauna (Chp.15). In: Introduction to the Study of Meiofauna. R.P.Higgins & H. Thiel (eds.) Smithsonian Institution Press. Blue Ridge Summit, PA. 488pp.

MARINE BACTERIOLOGY

1981 Burnett B.R, Nealson K.H. Organic films and microorganisms associated with manganese nodules. Deep-Sea Research **28**:637-645

MARINE GEOLOGY

1983 Burnett B.R., Nealson K.H.. Energy dispersive X-ray analysis of the surface of a deep-sea ferromanganese nodule. Marine Geology **53**:313-329.

MICROTECHNIQUE

1975 Burnett B.R. A new method for serially mounting resin sections (Spurr) for light microscopy. Stain Technology **50**:288-290.

PATHOLOGY- PNEUMOCONIOSIS

1. 1982 Abraham, J.L., Burnett B.R. Rodriguez-Roisin R. Correlated environmental, radiological, physiologic, pathologic and mineralogical analysis in asbestos workers. American Review of Respiratory Diseases. 125:154.
2. 1983 Abraham, J., Burnett B.R. Quantitative analysis of inorganic particle burden *in situ* in tissue sections. Scanning Electron Microscopy/1983/II pp. 681-696.
3. 1984 Abraham, J.L., Smith C.M., Burnett B.R. Changes in lung chrysotile asbestos burden during and following six weeks exposure in rats. Abstract. Laboratory Investigation **50**: 1A.
4. 1986 Abraham, J.L., Burnett B.R. Inorganic particulates in human lungs-quantitative *in situ* analysis in 156 cases. Lab Invest **54**:2A.
5. 1989 Abraham, J.L., Burnett B.R. Quantitative *in situ* analysis of inorganic particle burden in tissue sections - an update. Chapter 6. In: Microprobe Analysis in Medicine. Ingram, Shelburne and Roggli (eds). Hemisphere Publishing Corporation, New York. 352pp.
6. 1990 Abraham J.L., Hunt, A., Burnett B.R. Allison, M. Gerszten E. Light microscopic and microanalytic study of lungs from pre-Columbian Chilean mummies. Paleopathology Newsletter 41.
7. 1990 Abraham J.L., Burnett B.R., Hunt A. Asbestosis and mesothelioma: Non commercial amphibole asbestos fibers in New York State talc miners. Abstract: presented at American Thoracic Society, Toronto, Canada, September, 1990.

8. 1991 Abraham J.L., Burnett B.R., Hunt A. Development and use of a pneumoconiosis database of human pulmonary inorganic particulate burden in over 400 lungs. *Scanning Microscopy*. **5** (1): 95-108.
9. 1992 Abraham J.L., Burnett B.R., Hunt A. Talcosis and asbestosis in New York talc miners: dose-response analysis of occupational exposure, lung pathology and lung particulate burden.: Abstract, American Thoracic Society Meeting, 1992.
10. 1994 Abraham J.L., Stettler L.E., Burnett B.R. Hunt A. Platck F.. Interlaboratory comparison of non-fibrous particle lung burden, Quantitative techniques. *Ann.occup.Hyg.* **38**:541-550.
11. 1994 Abraham J.L., Hunt A., Burnett B.R. Steel (Fe-Cr) particles as a marker of welding fume exposure, frequency of occurrence and prevalence in a series of over 400 human lungs. *Ann.occup.Hyg.* **38**:551-557.
12. 1994 Abraham J.L., Burnett B.R. Mineralogic analysis in lung tissue using scanning electron microscopy-energy dispersive X-ray analysis. In: Structural methods in experimental lung research. J.Gill and J. Kleinerman (eds.)
13. 1995 Abraham J.L., Newman L., Burnett B.R. Beryllium disease: Pathologic and quantitative electron probe and secondary ion mass spectroscopic (SIMS) analysis of lung biopsies. Abstract. *Am. J.Resp.Crit.Case Med.*
14. 1996 Schoning, P., Abraham J.L., Burnett B.R. Silicate and metal dust in lungs of Greyhounds. *American Journal of Veterinary Research*. **57**(7): 1006-1009.
15. 1997 Abraham J.L., Hunt A., Burnett B.R Lung pathology and mineralogy associated with high pulmonary burden of metal particles: Fe, Ti, Al and Cr in a pneumoconiosis data base. 1997. *Annals of Occupational Hygiene*.
16. 2002 Wright, R.S., Abraham J.L., Harber P., Burnett B.R. Fatal asbestosis 50 years after brief high intensity exposure in a vermiculite expansion plant. *Amer. J. Respiratory and Critical Care Medicine* **165**(8):1145-1149.
17. 2002 Abraham J.L., Burnett B.R, Hunt A. Quantification of non-fibrous and fibrous particulates in human lungs: Twenty year update on pneumoconiosis database. *Ann.occup.Hyg.* **46**(Suppl. 1): 397-440.
18. 2007 Tolocia, I., Thakral C., Burnett B.R., Abraham J.L. Asbestos and asbestos fibers documented in pleural and lymph biopsies and autopsy lung associated with mesothelioma and lung cancer in two co-workers with sole exposure to asbestiform talc. Poster for European Respiratory Society meeting.
19. 2008 Naqui, A.H., Hunt A., Burnett B.R., J.L. Abraham. Pathologic spectrum and lung dust burden in giant cell interstitial pneumonia (hard metal disease/cobalt pneumonia): Review of 100 cases. *Archives of environmental & Occupational Health* **63**(2).
20. 2010 Abraham, J.L., Crawford J.A., Burnett B.R., Fitzgerald S.D. Non-fibrous particles and fibers in the lungs of rescue dogs deployed on 9/11 at the Pentagon and World Trade Center. Abstract, American Thoracic Society.
21. 2015 Abraham, J.L., Burnett B.R., Hunt A. The influence of analytical methodology on apparent frequency and dimensions of asbestos fibers in lungs. *Amer J Resp Critical Care Med.* **149**:A404,1994.
22. 2017. Sanyal, S., Abraham, J.L., Crawford, J.A., Burnett B.R. Mesothelioma with no evidence of commercial amphibole exposure – 35 cases with chrysotile, non-commercial amphibole or asbestiform talc by ling fiber burden analysis. 2017. American Thoracic Society Annual Meeting. Poster session.\

23. 2019 Abraham J.L., Crawford J.A, Samyal S, Burnett B.R., Wiesenfeld.SL. Relevance of accelerated silicosis (AS) in Sandblasters to rapidly progressive pneumoconiosis (RPP). American Thoracic Society Annual Meeting. Poster session.
24. 2024 Crawford J.A, Saeuyl S, Burnett B.R, Wiesenfeld S.L, Abraham J.L. Accelerated Silicosis in Sandblasters: Pathology, Mineralogy and Clinical Correlates. Am J Ind Med. 2024;1–21. DOI: 10.1002/ajim.23561

JURISPRUDENCE

1991 Burnett B.R. Misuse of expert witnesses by attorneys in asbestos-injury litigation. Abstract, American Academy of Forensic Science. www.meixatech.com/expertmisuse.pdf.

ENVIRONMENTAL TOXICOLOGY

1997 Hunt A., Burnett B.R., Basford T.M., Abraham J.L. Lead and other metals in play-kit craft items composed of vinyl and leather. American Journal of Public Health. **87**(10):1724-1727.

SCANNING ELECTRON MICROSCOPY/ENERGY DISPERSIVE X-RAY SPECTROSCOPY

1. 2001 Burnett B.R. Copper contamination of gunshot residue and other particle spectra. Microscopy Today, **01**(3):24-25
2. 2014 Burnett B.R. An electro-conductive organic coating for scanning electron microscopy (déjà vu). Proc. SPIE 9236. Scanning Microscopies 2014, 92360L (September 16, 2014); doi 10.1117/12.2065553.

DIGITAL IMAGING

1. 2003 Burnett B.R., Blaauw. S. Macro imaging with digital cameras. Microscopy Today. July/August **11**(4):32-35 (Posted on meixatech.com/articles/)
2. 2003 Burnett B.R. Macro imaging with a digital camera: Examination of a .22 revolver. International Association for MicroAnalysis **4**(2):8-10. (Posted on meixatech.com/articles/)
3. 2016 Burnett B.R. Analysis of modified photographs submitted to Federal Court and the United States Congress. Journal of Forensic Research **7**(5): DOI: 10.4172/2157-7145.1000343.

CRIMINALISTICS - BALLISTICS

2003 Burnett B.R. Nose or base strike: Analysis of bullet orientation in a ricochet. International Association for MicroAnalysis **4**(2):14-15. (Posted on meixatech.com/articles/)

CRIMINALISTICS - BLOODSTAINS AND SPATTER

1. 1997 Burnett B.R., J.M. Orantes. An unusual bloodstain case. Journal of Forensic Sciences. **42**: 519-523.

2. 2016 Burnett B.R. Bloodstain evidence of trophy taking in a homicide. Proceedings American Academy of Forensic Sciences Annual Meeting, Las Vegas. E22.

CRIMINALISTICS - CRIME SCENE RECONSTRUCTION

1. 2001 Burnett B.R. A shot through the window. *Journal of Forensic Sciences*, **46** (2): 379-385. 2010.
2. 2010 Burnett B.R. The ill-fated beer run: The shooting of Christopher St. Louis. *Investigative Sciences Journal* 2(1):1-31.
3. 2010 Burnett B.R., Sabow J.D. People v. Jackson Daniels: The shooting of Riverside police officers Dennis Doty and Philip Trust. *Investigative Sciences Journal*. 2(2):30-53.
4. 2017 Burnett B.R. The homicide of United States Marine Colonel, James E. Sabow: A forensic analysis submitted to the United States Congress. *Journal of Forensic Research* 8:362 DOI:10.4172/2157.1000362.
5. 2017 Burnett B.R. Small town forensics in the land of Oz: California v. Corey Lyons. Proceedings, American Academy of Forensic Sciences. New Orleans 2017: Last Word Society .
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Burnett B, Gregory M, Marshall E, Nunziata F, Rotter, G, Zuccarello P, Raffino C, Wilkins M. 2025.
A multidisciplinary analysis of the Kurt Cobain death

Gunshot Residue Sampling and Spectral Interpretation

Case studies in American criminal justice: Forensic science in an alternate reality (book)

DECLARATION (attached)

The refutation of the libelous attack on my credibility by two criminalists, Michael Martinez (Bexar County Crime Lab, San Antonio, Texas), Joseph Cavaleri (Los Angeles County Sheriff's crime lab) and the defunct Yahoo listserve, Forensic_SEM. These unfounded attacks continue.

5/31/2025 BryanBurnett-CV.doc, cv.pdf * Business (760) 634-5939; Cell/text (619) 913-2295

DECLARATION I



*Forensic Scanning Electron Microscopy Including Gunshot Residue
Crime Scene Analysis*

I, Bryan Burnett, declare the following:

On March 6th 2015, I was called by the defense in the trial of California vs. Brandon Lovato at the Los Angeles County Courthouse in Compton, California. The trial involved a shooting. I was called to address the gunshot residue (GSR) evidence. In voir dire the prosecutor attempted an impeachment. The prosecutor introduced an email between Michael Martinez (a criminalist in Texas) and Joseph (JJ) Cavaleri, a criminalist for the Los Angeles County Sheriff's crime lab:

Cavaleri, Joseph J.

From: Martinez, Mike (Crime Lab) <mmartinez@bexar.org>
Sent: Wednesday, February 25, 2015 7:50 AM
To: Cavaleri, Joseph J.
Subject: RE: Bryan Burnett

Good morning JJ,

Since Bryan opened this topic up in public forum at the AAFS NIST OSAC meeting last week, I have no problem stating the facts.

Bryan Burnett was removed as a member from the Yahoo Forensic_SEM group last year due to several member complaints while as a member. Mr. Burnett was told on several occasions prior to being banned to stop posting active criminal cases to the group and to stop using the opinions of the members for his own financial gain as a defense expert without the explicit consent of the members for whom he was quoting. Mr. Burnett was found to be in direct violation of the Forensic_SEM group membership agreement. Therefore, I had no other recourse but to remove him from the group.

Mike

Michael V. Martinez
Forensic Scientist Supervisor
Trace Evidence Section
Bexar County Crime Laboratory
7337 Louis Pasteur
San Antonio, Texas 78229-4565

This email caught me off guard and surprisingly the defense attorney, Timothy McDermont, did not object when this was introduced without foundation.

At the time I had over 70 publications in ten fields of science – it now numbers over 80, most are now peer-reviewed publications in crime scene reconstruction and GSR.

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B2

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DECLARATION OF BRYAN BURNETT

2/23/2022

This email is libelous. The most egregious lie was that I absolutely was not warned by Mr. Martinez on "several occasions... to stop posting active criminal cases."

Mr. Martinez was appointed as moderator of the Yahoo listserve, Forensic_SEM (now defunct) by Dennis Ward of the FBI upon Ward's retirement.

Martinez had no authority according to the guidelines of Forensic_SEM to exclude me but did capriciously and with malice. There was no authorization as moderator of Forensic_SEM for him taking this action under the guidelines of Forensic_SEM:

GUIDELINES FOR USE

This group is available only to those individuals specifically involved with SEM in the Forensic environment, and subscription is available by invitation only. It is intended to provide a problem solving utility for those trying to improve the quality of their services, as well as a learning resource for those newly involved with this discipline. In order to extend invitations to all appropriate persons, it is necessary that current users consider those that would benefit from joining. The names and email addresses of those individuals should be submitted to the owner and he will then extend an invitation to join.

Although the membership will of course specifically include those government employees in crime labs, we should also judiciously broaden that definition to include those involved in Forensic-"like" activities and employment. This discussion group is unmoderated for individuals that have chosen to subscribe. Therefore it is incumbent on the individual users to post appropriately using typical, usual courtesies required of all public discussion groups.

The discussions should not include confidential, classified, or secret information, nor should specific cases be discussed, except in a general sense.

Membership and posting is structured with a significant degree of anonymity. The only identification of an individual is through their email address. Depending on how cryptic this address, a reader may not know who the author is. Although Yahoo! permits construction of a user profile, most members probably will probably not choose to complete it. Therefore perhaps it would be useful to list members identifications in the "contact list" in the database section, which will identify individuals and their institutions from their email address. Please add this information to the database. You can add and edit your own data.

This group has been established for the use and good of this entire community. If you have suggestions for more effective structure and utilization, and usage guidelines, please post your ideas to the group or contact the owner. Please feel free to add photos, bookmarks, files that would be of use to the entire community. (downloaded from Forensic_SEM – boldface by author)

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BBD

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DECLARATION OF BRYAN BURNETT

2/23/2022

The bold text pertains, and also provides justification, for my several postings at issue by Martinez on Forensic_SEM, Notable, **"...except in a general sense"** This is exactly what I did.


The listserve, Forensic_SEM, was an important international communication vehicle with my colleagues in GSR and the forensic applications of scanning electron microscopy/energy dispersive X-ray spectroscopy (SEM/EDS). A listserve is NOT a professional organization. A professional organization must operate under a constitution and bylaws and in most states be registered as a nonprofit organization. At this time, likely due to Martinez's incompetent tactics, Forensic_SEM no longer exists.

Considering Mr. Martinez was the moderator of Forensic_SEM, you would think he would have promoted a discussion on Forensic_SEM on the issues brought up by this unfortunate email. And then modify the Guidelines according to a member vote on the criteria for appropriate posts concerning current case work. But, Martinez on Sept 5, 2015 stated to me by email, **"At this point I don't believe we don't [sic] need to inform the members anything as I think its [sic] best to keep this confidential."** So, Mr. Martinez acted on his own in poor English, ousts a member from Forensic_SEM. He doesn't tell members of Forensic_SEM of the exclusion and then goes further by continuing promulgating lies. I was libeled by any measure. You will also note according Forensic_SEM guidelines that this listserve was supposed to be "unmoderated."

Martinez from the above email, **"...and to stop using the opinions of the members for his own financial gain as a defense expert without the explicit consent of the members for whom he was quoting."** As a defense expert, my overall concern is that my client gets the best defense possible. If I have a technical question it behooves me to get that answer, if it exists regardless of source. How does Martinez even know if I charge for this or if I was quoting other members in my reports or testimony? Even if researching a technical question via Forensic_SEM is billable task, so what? For the latter, I never have.

Criminalist Cavaleri wrote in an email to me on March 15, 2015, **"Why would you think it is OK to circumvent the rules for your personal benefit?"** Technician Cavaleri apparently does not know if such "rules" even exist. I was not informed as noted above just what it was I was allegedly doing wrong prior to the exclusion.

I discussed with the defense attorneys involved those few supposed "objectionable posts" what I was going to post, the reason (I needed input from an expert with more experience than I on an issue) and then got permission for the actual post. Of course, the case name was removed and the details that would have identified the case were removed in the posting on Forensic_SEM. The bottom line is Martinez and Cavaleri decided to harass an opposing expert without foundation. I believe Mr. Martinez as well as Los Angeles County Sheriff's criminalist Dr. Cavaleri were interfering with due process in our criminal justice system by attempting to disqualify a defense expert who may challenge, on legitimate grounds, their work product. In science this is called peer review.

02/23/2022


All this is dumfounding. I thought, upon entering criminal forensic science more than 30 years ago, that my background in so many fields of science would benefit the criminal justice system. It was just the opposite: rather than considering my work, I got "you must be mistaken" and ad hominem attacks rather than these individuals actually examining my work product. I believe Martinez and Cavaleri represent what is wrong with our criminal justice system. Martinez and other criminalists (no scientists) were the OSAC GSR Subcommittee and generated a document that is just a repeat of the similarly flawed SWGGSR report. The lack of balance on the OSAC GSR Subcommittee was glaring. There should have been university-associated researchers making up at least half of the subcommittee.

My mandate as a defense expert in the criminal justice system is to be above all an advocate for science. I have not and will not be an advocate for the defendant. Everything I have done in the cases I worked has been under the supervision of the defense attorney. By attempting to impeach me in court with a libelous email whose allegations have no foundation does a disservice to our justice system.

I hereby affirm all the above is true to the best of my knowledge.


Bryan R. Burnett

Feb 23, 2022
Date

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego
Subscribed & sworn to (or affirmed)
before me this 23rd day of FEB, 2022
by BRYAN R. BURNETT, proved to
me on the basis of satisfactory evidence
to be the person(s) who appeared before me



