

# CURRICULUM VITAE

## **BRYAN REEDER BURNETT**

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## **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**

- Scanning electron microscopy - preparation/operation/imaging
- Energy dispersive X-ray analysis - elemental analysis
- Gunshot forensics - Gunshot residue analysis & interpretation
- Crime-scene reconstruction
- 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
- Booth setup, display and demonstrations in technical shows
- Testimony in court (civil and criminal)
- Use of statistics in ecology and other sciences
- Technical/scientific illustration (>35 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**

Jan. 1982- Present: 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.
- 6) Award-winning artist: sculptures

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 in the central North Pacific. Nano-, meio- and macrobenthos; organisms associated with ferromanganese nodules. Chief scientist in oceanographic expeditions.

## **HOBBIES**

Antique furniture restoration

Sculpture in wood

## **AFFILIATIONS (none current)**

American Academy of Forensic Sciences (1986 to 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, bur professional articles still available online)

## **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: "Sculpture Under my Avocado Tree"

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

## **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: Emrick 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 & blood spatter ).
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).

## **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)

## **CASE LOAD**

Approximately 25 cases per year (total career cases approximately 3000).

## **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.
2. 1972. Burnett, B.R. Notes on the lateral arteries of two stomatopods. *Crustaceana* 23:303-305.
3. 1973. Burnett, B.R. and R.R. Hessler. 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. 1977. Burnett, B.R. Blood circulation in the balanomorph barnacle, *Megabalanus californicus* (Pilsbry). *Journal of Morphology*. **153**:299-306.
6. 1981. Burnett, B.R. Compound eyes in the cephalocarid crustacean *Hutchinsoniella macracantha*. *Journal of Crustacean Biology*. **1**:11-15.
7. 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., C.L.Ingram, Yayanos,A.A. and 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., B.R. Burnett and R.R. Hessler. 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. and H. Thiel. 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. and K.H.Nealson. Organic films and microorganisms associated with manganese nodules. Deep-Sea Research **28**:637-645

### **MARINE GEOLOGY**

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

7. 1990. Abraham, J.L., B.R. Burnett, and A. Hunt. 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., B.R. Burnett, and A. Hunt. 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., B.R. Burnett, and A. Hunt. 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., L.E. Stettler, B.R. Burnett, A. Hunt and F. Platck. Interlaboratory comparison of non-fibrous particle lung burden, Quantitative techniques. *Ann.occup.Hyg.* **38**:541-550.
11. 1994. Abraham, J.L., A. Hunt and B.R. Burnett. 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., and B.R. Burnett. 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., L. Newman. and B.R. Burnett 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., J.L. Abraham and B.R. Burnett Silicate and metal dust in lungs of Greyhounds. *American Journal of Veterinary Research*. **57**(7): 1006-1009.
15. 1997. Abraham, J.L., A. Hunt and B.R. Burnett. 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., J.L. Abraham, P. Harber and B.R. Burnett 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., B.R. Burnett and A. Hunt. 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., C. Thakral, B.R. Burnett and J.L. Abraham. 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., A. Hunt, B.R. Burnett and 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., J.A. Crawford, B.R. Burnett and S.D. Fitzgerald. 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., B.R. Burnett and A. Hunt. The influence of analytical methodology on apparent frequency and dimensions of asbestos fibers in lungs. *Amer.J.Resp.CriticalCare 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 lung fiber burden analysis. 2017. American Thoracic Society Annual Meeting. Poster session.\
23. Abraham JL, Crawford JA, Sanyal S, Burnett BR, Wisenfeld.SL. Relevance of accelerated silicosis (AS) in Sandblasters to rapidly progressive pneumoconiosis (RPP). 2019. American Thoracic Society Annual Meeting. Poster session.

#### **ENVIRONMENTAL TOXICOLOGY**

1997. Hunt, A., B.R.Burnett, T.M. Basford and J.L. Abraham. 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. and S. Blaauw. Macroimaging with digital cameras. *Microscopy Today*. July/August **11**(4):32-35 (Posted on [meixatech.com/articles/](http://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/](http://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/](http://meixatech.com/articles/))

#### **CRIMINALISTICS - BLOODSTAINS AND SPATTER**

1. 1997. Burnett, B.R. and 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. 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. and J.D. Sabow. People v. Jackson Daniels: The shooting of Riverside police officers Dennis Doty and Philip Trust. *Investigative Sciences Journal*. 2(2)
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* .
6. 2018 Burnett, B.R. 2018. An Extraordinary Crime Scene. *GSL Journal of Forensic Research (peer reviewed)* 2018; 1:104/ 1-31.

## **CRIMINALISTICS - GUNSHOT RESIDUE**

1. 1988. Burnett, B.R. Modification of gunshot residue as a result of exposure to blood, bone fragments and water. *Abstract D20*, p 77. American Academy of Forensic Sciences, Philadelphia, PA.
2. 1989. Burnett, B.R. The form of gunshot residue is modified by target impact. *Journal of Forensic Sciences*. **34**: 808-822. (also Abstract B51 p.58. American Academy of Forensic Sciences, Las Vegas, NV)
3. 1989. Burnett, B.R. Evidence for elemental fractionation in the formation of gunshot residue. Abstract B49, p 58. American Academy of Forensic Sciences, Las Vegas, NV.
4. 1991. Burnett, B.R. Detection of bone and bone-plus-bullet particles in backspatter from close-range shots to heads. *Journal of Forensic Sciences*. **36** (6): 1745-1752. (Also Abstract B30, p 68. American Academy of Forensic Sciences, Cincinnati, OH., 1990)
5. 1993. Burnett, B.R. Detection of gunshot residue on fabric that has been previously been soaked in blood. Abstract, California Association of Criminalists, Semiannual Meeting, October, 1993.
6. 1995. Burnett, B.R. Scanning electron microscopy/energy dispersive X-ray analysis of gunshot residue associated with clothing. *Proceedings of the American Academy of Forensic Sciences*. **1**:85.
7. 1995. Burnett, B.R. 1995. Observation of .22 caliber gunshot residue on fabric targets by scanning electron microscopy. Abstract, California Association of Criminalists, Semiannual Meeting, October, 1995.
8. 1995. Burnett, B.R. Observation of .22 caliber gunshot residue on fabric targets by scanning electron microscopy. Abstract, California Association of Criminalists, Semiannual meeting, October, 1995.
9. 1997. Burnett, B.R. Shooting from the hip: Gunshot residue evidence collection, analysis and interpretation. *Proceedings, Scanning '97, Scanning* **19**(3): 183.
10. 1998. Burnett, B.R. The form and composition of .22 caliber gunshot residue from muzzle and breech deposits. *Proceedings American Academy of Forensic Sciences*, **4**:26.

11. 2003. Burnett, B.R. Observations on the composition of breech gunshot residue from a .22 pistol. *International Association for MicroAnalysis* **4**(1):12-15. (Posted on [meixatech.com/articles/](http://meixatech.com/articles/))
12. 2003. Burnett, B.R. Antimony coats .22 caliber bullets. *International Association for MicroAnalysis* **4**(3):4-5. (Posted on [meixatech.com/articles/](http://meixatech.com/articles/))
13. 2003. Burnett, B.R. .22 rimfire ammunitions. *International Association for MicroAnalysis* **4**(3):14. (Posted on [meixatech.com/articles/](http://meixatech.com/articles/))
14. 2005. Burnett, B.R. People v. Aceves - A case of .22 rimfire gunshot residue matching (Summary). *Proceedings of Scanning 2005*. **27**(2):91.
15. 2007. Burnett, B. R. The Colonel Sabow homicide: The gunshot residue evidence. Paper presented at Scanning, Monterey, CA, April 12, 2007.
16. 2009. Burnett, B.R. Gunshot residue inserted under hair scales as a result of a muzzle blast. *Proceedings of SPIE - Scanning Microscopy 2009*: 7378-94.
17. 2014. Burnett, B.R. A tale of three trials: From science to junk science. *Proc. SPIE 9236. Scanning Microscopies 2014*, 92369 (September 16, 2014); doi 10.1117/12.2065556.
18. 2015. Burnett, B.R. The gunshot residue evidence of People vs. Robert Blake, the actor. *Proceedings. American Academy of Forensic Sciences Annual Meeting, Orlando, Florida*. LW2
19. 2016. Burnett, B.R. The effect of skin debris on gunshot residue sampling and detection. Doi: 10.1111/1556-4029.13149. *Journal of Forensic Sciences*. **61**(6):1632-1638.
20. 2017. Burnett, B.R. Gunshot residue (GSR) identification errors and sample significance. *Proceedings, American Academy of Forensic Sciences. New Orleans 2017*: B175.
21. 2017. Burnett, B.R. Analysis of bullet wipes by scanning electron microscopy/energy dispersive x-ray spectroscopy. *Proceedings, American Academy of Forensic Sciences. New Orleans. 2017*: E74.
22. 2017. Burnett, B.R. and J. Lebidzik. Discharge of a pistol out a car window with the breech within the interior of the car: Analysis of gunshot residue on a car's interior surface. *Journal of Forensic Sciences* **62**(3):768-772.
23. 2018 Burnett, B.R. A case of alleged discharge of a firearm within a vehicle. *Forensic Science International*. DOI 10.1016/i.forsciint.2018.06.027.

#### **CRIMINALISTICS – PAINT ANALYSIS**

1998. Burnett, B.R. The forensic analysis of interior semi-gloss house paint. *Proceedings American Academy of Forensic Sciences*, **4**:58.

#### **MISCELLANEOUS**

1. 1966. Burnett, B.R. The fifty dollar inverted green: a new variety. *Paper Money*. **5**:45.
2. 2000. Burnett, B.R. and P. Golubovs. The first mail bomb? *Journal of Forensic Sciences*. **45** (4): 935-936.

3. 2016. Burnett, B.R. Small town forensics in the Land of Oz. Proceedings American Academy of Forensic Sciences Annual Meeting, Las Vegas. LW5.
4. 2017. Burnett, B.R. and R. MacLachlan. Pathological and physiological principles of instantaneous vs. sudden death. Forensic Studies. 2017:1-9. DOI

**RECENT PUBLICATIONS 2016 -2018 (ALSO LISTED ABOVE BY CATEGORY)**

2016. Burnett, B.R. The effect of skin debris on gunshot residue sampling and detection. Doi: 10.1111/1556-4029.13149. Journal of Forensic Sciences. 61(6):1632-1638.
2016. Burnett, B.R. Bloodstain evidence of trophy taking in a homicide. Proceedings American Academy of Forensic Sciences Annual Meeting, Las Vegas. E22.
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.
2017. Burnett, B.R. Gunshot residue (GSR) identification errors and sample significance. Proceedings, American Academy of Forensic Sciences. New Orleans 2017: B175.
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 .
2017. Burnett, B.R. Analysis of bullet wipes by scanning electron microscopy/energy dispersive x-ray spectroscopy. Proceedings, American Academy of Forensic Sciences. New Orleans. 2017: E74.
2017. Burnett, B.R. and J. Lebieczik. Discharge of a pistol out a car window with the breech within the interior of the car: Analysis of gunshot residue on a car's interior surface. Journal of Forensic Sciences 62(3):768-772.
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 lung fiber burden analysis. 2017. American Thoracic Society Annual Meeting. Poster session.
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.
- 2018 Burnett, B.R. 2018. An Extraordinary Crime Scene. GSL Journal of Forensic Research (peer reviewed) 2018; 1:104/ 1-31.
- 2018 Burnett, B.R. A case of alleged discharge of a firearm within a vehicle. Forensic Science International. DOI 10.1016/i.forsciint.2018.06.027.
2019. Abraham JL, Crawford JA, Samyal S, Burnett BR, Wisenfeld.SL. Relevance of accelerated silicosis (AS) in Sandblasters to rapidly progressive pneumoconiosis (RPP). 2019. American Thoracic Society Annual Meeting. Poster session.

**SUBMITTED (June 2019)**

- Burnett, B.R. and Nunziata, F. Gunshot residue analysis by scanning electron microscopy/energy dispersive x-ray spectroscopy in shooting cases: Interpretation of spectra.

## **IN PREPARATION**

Burnett, B.R. and Nunziata, F. Hybrid gunshot residue: a discrimination approach

Nunziata, F. and Burnett, B.R. Observations by SEM/EDS of firearm energetic materials (primer mixture and gunpowder)

Burnett, B.R. and Nunziata, F. Gunshot residue analysis by scanning electron microscopy/energy dispersive x-ray spectroscopy in shooting cases: Gunshot residue populations.

## **POSTED ON WEBSITE (meixatech.com/articles)**

1. 2005. Burnett, B.R. Errors in gunshot residue assessment by scanning electron microscopy/elemental analysis in criminal cases: I. Arsenic/sulfur mistaken for lead. [meixatech.com/ARSENIC\\_SULFUR-MISTAKEN\\_FOR\\_LEAD.pdf](http://meixatech.com/ARSENIC_SULFUR-MISTAKEN_FOR_LEAD.pdf).
2. 2005. Burnett, B.R. Errors in gunshot residue assessment by scanning electron microscopy/elemental analysis in criminal cases: II Missed tin (Sn) and antimony (Sb) in an unusual, non-gunshot residue population of particles containing phosphorus (P). [meixatech.com/MISTAKEN\\_ID\\_II.pdf](http://meixatech.com/MISTAKEN_ID_II.pdf).
3. 2005. Burnett, B.R. The gunshot residue evidence of People v. Robert Blake: A case of forensic alchemy. [meixatech.com/blake.pdf](http://meixatech.com/blake.pdf).
4. 2007. Burnett, B.R. Errors in gunshot residue assessment by scanning electron microscopy/elemental analysis in criminal cases: III. Apparent automotive brake-origin particles identified as “highly specific” gunshot residue. [meixatech.com/MISTAKES3.pdf](http://meixatech.com/MISTAKES3.pdf).
5. 2012. Burnett, B.R. People v. Flechtner: Analysis of the shootings of Adam Owen, Angela Leird and Robert Light. [www.meixatech.com/FLECHTNER.pdf](http://www.meixatech.com/FLECHTNER.pdf).

## **POPULAR PRESS**

1. 2006. Burnett, B.R. Stranger in a strange land: A scientist working in the criminal justice system. The Daily Transcript (San Diego). Wednesday, April 12, 2006.
2. 2006. Burnett, B..R. Lead associated with house and automotive keys. The Daily Transcript (San Diego). Wednesday, May 3, 2006. Also posted on [meixatech.com](http://meixatech.com).
3. 2007. Burnett, B.R. No justice for Delia Contreras. The Daily Transcript (San Diego). Wednesday, May 2, 2007. Also posted on [meixatech.com](http://meixatech.com).
4. 2007. Burnett, B.R. People v. Phil Spector. The missing gunshot residue evidence and misinterpreted blood spatter evidence. The Daily Transcript (San Diego). Wednesday, August 22, 2007
5. 2007. Burnett, B.R. The ultimate cold case. The Daily Transcript (San Diego). Wednesday, November 21, 2007. [www.sdfca.org/pdf/news1107.pdf](http://www.sdfca.org/pdf/news1107.pdf)
6. 2010. Burnett, B.R. The evidence of People v. Robert Blake: Forensic alchemy in wonderland. The Daily Transcript (San Diego). Wednesday, July 21, 2010.
7. 2011. Burnett, B.R. Forensic science is an oxymoron . The Daily Transcript (San Diego). Thursday, May 12, 2011.

8. 2014. Burnett, B.R. Defrauding of the US Congress by Elements within the US Military: The Murder of Marine Colonel James E. Sabow. The Daily Transcript (San Diego). Thursday, September 5, 2014.
9. 2015. Burnett, B.R. An ignored witness to homicides: A criminal defense expert's dilemma. The Daily Transcript (San Diego). Thursday, January 8, 2015.
10. 2015 Burnett, B.R. The Murder of Marine Colonel James E. Sabow: Staging of the body. The Daily Transcript (San Diego). Saturday, August 8, 2015.