



UNITED STATES MARINE CORPS

U.S. MARINE CORPS FORCES CENTRAL COMMAND
7115 SOUTH BOUNDARY BOULEVARD
MACDILL AIRFORCE BASE, FLORIDA 33621-5101

5800

SJA

AUG 03 2007

THIRD ENDORSEMENT on Detailed DC ltr 5800 RDC of 12 Jul 07

From: Commander, U.S. Marine Corps Forces, Central Command
To: Detailed Defense Counsel

Subj: REQUEST FOR DEFENSE BLOODSTAIN PATTERN EXPERT IN THE CASE
OF U.S. V. STAFF SERGEANT FRANK A. WUTHERICH, UNITED
STATES MARINE CORPS

1. Returned. Your request for expert consultation with Dr. John L. Thornton, a blood stain pattern expert, is approved.
2. You are authorized to consult with Dr. Thornton for up to 20 hours.

A handwritten signature in black ink, appearing to read "E. J. Kumagai".

E. J. KUMAGAI
By direction



UNITED STATES MARINE CORPS

U.S. MARINE CORPS FORCES CENTRAL COMMAND
7115 SOUTH BOUNDARY BOULEVARD
MACDILL AIRFORCE BASE, FLORIDA 33621-5101

5800

SJA

AUG 02 2007

SECOND ENDORSEMENT on Detailed DC ltr 5800 RDC of 12 Jul 07

From: Staff Judge Advocate, U.S. Marine Corps Forces, Central Command

To: Commander, U.S. Marine Corps Forces, Central Command

Subj: REQUEST FOR DEFENSE BLOODSTAIN PATTERN EXPERT IN THE CASE OF U.S. V. STAFF SERGEANT FRANK A. WUTHERICH, UNITED STATES MARINE CORPS

1. Forwarded. The Defense request for expert consultation with Dr. John L. Thornton, a blood stain pattern expert, is forwarded recommending approval for up to 20 hours of consultation.

T. E. SPINKS
By direction



UNITED STATES MARINE CORPS
LEGAL SERVICES SUPPORT TEAM C
MARINE CORPS FORCES CENTRAL COMMAND
BOX 555607
CAMP PENDLETON, CALIFORNIA 92055-5607

IN REPLY REFER TO:

5800

LSST-C

JUL 19 2007

FIRST ENDORSEMENT on Detailed DC ltr 5800 RDC of 12 Jul 07

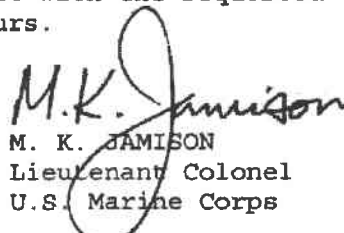
From: Trial Counsel

To: Commander, U.S. Marine Corps Forces, Central Command

Via: Staff Judge Advocate

Subj: REQUEST FOR BLOODSTAIN PATTERN EXPERT IN THE CASE OF U.S V. STAFF
SERGEANT FRANK D. WUTERICH, U.S. MARINE CORPS

1. Forwarded, recommending approval of the defense request to consult with the requested bloodstain pattern expert.
2. The accused, Staff Sergeant Wuterich, is charged, inter alia, with 13 specifications of murder in violation of Article 118(2) and (3), UCMJ.
3. Per reference (b), a request for the employment of an expert shall include a complete statement of the reasons why employment of the expert is necessary and identify with particularity how the "expert assistance" is necessary and material to the preparation of an "adequate defense" of the accused. To demonstrate "necessity" military case law sets forth a three-part test: (1) why the expert assistance is needed; (2) what the expert assistance will accomplish for the accused; and, (3) why the defense counsel is unable to gather and present the evidence the expert assistance would be able to develop.
4. The defense has made the required threshold showing of "necessity" and materiality for its request to consult with the requested expert for an initial consultation period of 20 hours.


M. K. JAMISON
Lieutenant Colonel
U.S. Marine Corps

Copy to:
DDC
File



UNITED STATES MARINE CORPS
REGIONAL DEFENSE COUNSEL WESTERN REGION
Marine Corps Base, Camp Pendleton
BOX 555240
CAMP PENDLETON, CALIFORNIA 92055-6067

IN REPLY REFER TO:
5800
RDC
12 Jul 07

From: Detailed Defense Counsel
To: Commander, U.S. Marine Corps Forces Central Command
Via: Trial Counsel

Subj: REQUEST FOR BLOODSTAIN PATTERN EXPERT IN THE CASE OF U.S. v. STAFF SERGEANT FRANK D. WUTERICH, U.S. MARINE CORPS

Ref: (a) Article 46, UCMJ
(b) R.C.M. 502, 701 and 703 MCM (C.M.A. 2005 ed.)
(c) *United States v. Garries*, 22 M.J. 288 (C.M.A. 1986)
(d) *United States v. Washington*, 46 M.J. 477 (C.A.A.F. 1997)
(e) *United States v. Ndanyi*, 45 M.J. 315 (C.A.A.F. 1996)
(f) *United States v. Gonzales*, 39 M.J. 459 (C.M.A. 1994)
(g) *United States v. Lee*, 64 M.J. 213 (C.A.A.F. 2006)

Encl: (1) Curriculum Vitae for Dr. John I. Thornton

1. Per the references, the defense requests the convening authority provide the defense the services of Dr. John I. Thornton as a defense expert consultant in the field of bloodstain pattern analysis. Under R.C.M. 701(f), this information will be subject to the attorney-client and work product privileges.
2. Staff Sergeant Wuterich is charged, *inter alia*, with 13 specifications of murder in violation of Article 118(2) and (3), Uniformed Code of Military Justice (UCMJ). If convicted of these offenses, he could receive up to life in prison without the possibility of parole. His charges and specifications arise from incidents in Haditha, Iraq on 19 November 2005.
3. Per the references, the defense is entitled to equal access to witnesses. This includes obtaining the assistance of expert witnesses. In the subject case, the government has relied upon the expertise and analysis of numerous individuals. In addition to a number of case agents, the government has used two expert forensic consultants to gather evidence and analyze the scene and events in Haditha: NCIS Special Agent Brady (Regional Forensic Consultant) and NCIS Agent Maloney (Senior Forensic NCISRA). The agents took photos and prepared sketches. They searched for friction ridge evidence, impression evidence, trace evidence, documentary evidence, firearms evidence, and biological evidence that included blood stain pattern analysis. Additionally, a supervisory agent, Special Agent Housman (Division Chief, Violent Crimes Division) reviewed the findings and conclusions. Additionally, the government has consulted with some of the top civilian forensic experts in the United States, to include Vincent DiMaio (author of the text Gunshot Wounds) and Ross M. Gardner (author of the text Bloodstain Pattern Analysis).
4. The reports from NCIS specifically included photos and analysis of 39 different bloodstain patterns located on the walls, on the walls near the floor, on the door, and on the closet. Using various forensic techniques, including a laser-scaling device, the six reporting agents were able to make important

Subj: REQUEST FOR BLOODSTAIN PATTERN EXPERT IN THE CASE OF U.S. v. STAFF SERGEANT FRANK D. WUTERICH, U.S. MARINE CORPS

findings like the directionality of the bloodstains. Agents have also consulted with civilian experts in conducting their analysis and making their findings.

5. The Defense has a right to government-funded expert assistance when the Defense shows that such assistance is necessary. *U.S.v. Ndanyi*, 45 M.J. 315 (CAAF 1996). In *Ndanyi*, the Court of Appeals for the Armed Forces provides a three-part test for determining this necessity. First, the defense must show why the expert is needed. Second, the defense must state what the expert assistance will accomplish. Finally, the defense must show that they are unable to gather and present the evidence-that the expert assistance would be able to develop.

6. In this case, expert assistance is needed to review the government bloodstain pattern analysis for accuracy and to determine what, if any, impact the failure to account for bodies being moved, the delay in investigation, and the lack of first hand observation of some of the investigated scenes. Based on the defense interview of NCIS Special Agents Brady and Maloney, the government may use the findings of their investigation and specifically the bloodstain pattern analysis to provide opinions as to the sequence of the deaths, caliber of bullet, and the direction and angle from which the accused allegedly fired his weapon. The government's methods and conclusion must be reviewed, especially in light of investigative shortcomings, to determine if those conclusions are false or that the evidence is exculpatory.

7. The government has had a great amount of time and tremendous resources to conduct and review the death scene investigation and bloodstain pattern analysis. The defense asks for only one bloodstain pattern expert.

8. No member of the defense team possesses any education, training or expertise in the area of bloodstain analysis. Bloodstain pattern analysis involves a complex scientific discipline that requires knowledge in a number of scientific areas. The defense intends on challenging the government's evidentiary analysis and fully examining the exculpatory aspects of any government discrepancies. Without such expert assistance, the defense will be unable to sufficiently evaluate or challenge the conclusions and analysis of the government's experts and investigators.

9. Due process mandates that Staff Sergeant Wuterich and his counsel be provided the opportunity to conduct a meaningful and full investigation of the charges and his possible defenses. It is imperative that he, through his counsel, be allowed to thoroughly analyze the bloodstain pattern analysis in this case. The requested expert, Dr. John L. Thornton, has the necessary qualifications and expertise to provide the defense with the needed assistance. His curriculum vitae is provided in enclosure (1).

10. As Dr. Thornton has already had initial discussions with the defense, the defense maintains that Dr. Thornton is a member of the defense team such that all communications between the defense and its expert to be confidential and fall under the attorney-client privilege as long as he serves solely as a defense consultant. If requested as an expert witness at a future time, he will be subject to discovery by the government.

11. The enclosure provides the qualifications and experience of Dr. Thornton. Dr. Thornton charges \$200 per hour of analysis. It is also anticipated that Dr. Thornton will need to travel to Camp Pendleton at least once to consult in person with the defense and would require reimbursement for travel

Subj: REQUEST FOR BLOODSTAIN PATTERN EXPERT IN THE CASE OF U.S. v. STAFF SERGEANT FRANK D. WUTERICH, U.S. MARINE CORPS

expenses and lodging. It is estimated that he will need 20 hours of review due to the large volume of evidence and photographs provided in discovery. In the event that his services are later requested as an expert witness, he charges \$200 per hour of testimony and the cost of traveling to any proceedings.

12. Denial of this request would result in a fundamentally unfair pretrial investigation and trial and would impede the accused rights under the Fifth Amendment Due Process Clause, his Sixth Amendment right to confront the witnesses against him, and his Sixth Amendment right to effective assistance of counsel.



C. C. VOKEY
Lieutenant Colonel, U.S. Marine Corps

*Dr. John I. Thornton
Consultant in Forensic Science
1093 Lokoya Road
Napa, CA 94558*

(707) 224-4656

Fax (707) 226-9234

wildthorn@starbana.net

Curriculum Vitae

Professional Experience

Dr. Thornton has twenty-two years of experience in an operational crime laboratory, four of them as a laboratory director, and twenty-four years of experience as a Professor of Forensic Science at the University of California, Berkeley. He has testified as an expert witness on a wide variety of physical evidence cases. He has extensive experience in evidence collection and processing, trace evidence analysis, firearms identification, gunshot residues, wound ballistics, crime scene reconstruction, homicide investigation, and expert testimony.

Professional Affiliations

Board Certified, American Board of Criminalistics
Fellow, American Academy of Forensic Sciences
California Association of Criminalists
International Association for Identification

Education

B.S., Criminology, University of California, Berkeley, 1962.
M.Crim., Criminalistics, University of California, Berkeley, 1968.
D.Crim., Criminalistics and Forensic Science, University of California, Berkeley, 1974.

Other Professional Experience

2004- : Evidence Specialist, Napa County Sheriff's Office, Napa, California.
1994- : Emeritus Professor of Forensic Science, University of California, Berkeley.
2006- : Professor of Forensic Science, University of California, Davis.
1994-2003 : Forensic Scientist, Forensic Analytical Specialties, Inc., Hayward.
1970-1994: Professor of Forensic Science, University of California, Berkeley.
1963-1972: Criminalist, Contra Costa Sheriff's Department, Martinez, California.

Military Service

1962-1968: Staff Sgt., US Air Force Reserve. Skill classification: Medic

Technical Presentations

American Academy of Forensic Sciences
California Association of Criminalists
American Chemical Society
California State Police Academy

Technical Presentations - Continued

National District Attorney's Association
International Association of Identification
FBI Academy Symposium on Forensic Science
California Public Defender's Association
Association of Firearms and Toolmark Examiners
Society for Applied Spectroscopy
California Association of Licensed Investigators
Association of Public Health Microbiologists
Southwest Association of Forensic Document Examiners
California District Attorney's Association
California Women Police Officer's Association
International Wound Ballistics Association
California Defense Investigators Association
International Society for Optical Engineering
Washington State Bar Association
California Attorneys for Criminal Justice
Oregon Criminal Defense Lawyer's Association
Israel National Police
Policia Nacional de la Republica de Colombia
National Conference on Science and the Law

Other Relevant Information

Board Certified, American Board of Criminalistics, 1993; Board of Directors, American Board of Criminalistics, 1994-1996; Vice President, 1995-1996.
Consultant to the California Council on Criminal Justice to draw up a Master Plan for a Crime Laboratory System for the State of California, 1970-1971.
Consultant to the Law Enforcement Assistance Administration and National Institute of Justice, U.S. Dept. of Justice, to evaluate 1974, 1975, 1978, 1981, and (now the National Institute of Justice) 2000, 2001, 2002, and 2003 Program Plans.
Member of the Project Advisory Committee, Nationwide Crime Laboratory Proficiency Testing Project, Forensic Science Foundation, 1974-1982.
President, California Association of Criminalists, 1974-1975.
Award of Merit, Forensic Sciences Foundation, 1979.
Ethics Committee, California Association of Criminalists, 1977-1981, 1997-2000.
Criminalistics Section Award (*nee* Paul L. Kirk Award), American Academy of Forensic Sciences, 1979-1980.
Chairman, Criminalistics Section, American Academy of Forensic Sciences, 1980-1981.
Representative Assembly of the Academic Senate, Univ. of California, Berkeley, 1980-1981.
Editorial Review Board, *Journal of Forensic Sciences*, 1981-1984.
Visiting Professor, University of New Mexico Medical School, Albuquerque, August 1982.
Vice-Chairman, Dept. of Biomedical and Environmental Health Sciences, Univ. of California, Berkeley, 1981-1985; Acting Chairman, March-August 1984.
Member of the Graduate Group in Agricultural and Environmental Chemistry, and member of the Graduate Group in Environmental Health Sciences, Univ. of California, Berkeley.
Participant in Crime Laboratory Improvement Project Summit 2000, National Institute of Justice, Washington, D.C., 2000.
Visiting Professor, Southwest China Institute of Political Science and Law, People's Republic of China, March-April 1987.
POST (Commission on Police Officer Standards and Training) Advanced Certificate, 1988.

Relevant Information - Continued

Biographee, *Who's Who in America, Who's Who in the West, Directory of Distinguished Americans, American Men and Women of Science*
Member of Advisory Board of the California Criminalistics Institute, Calif. Dept. of Justice, Bureau of Forensic Sciences, 1986-1992.
Certificate of Basic Competency in Criminalistics, California Association of Criminalists, 1989.
Distinguished Member Award, California Association of Criminalists, 1989.
Chair of the Faculty, School of Public Health, University of California, Berkeley, 1989-1990.
Member of Symposium Faculty for physical evidence instruction, Policia Nacional de la Republica de Colombia, Bogota, Colombia, May 1991.
Visiting Professor, La Escuela de Policia 'General Santander,' Policia Nacional de la Republica de Colombia, Santa Fe de Bogota, Colombia, January 1992.
Member of Symposium Faculty for physical evidence instruction, Universidad Nacional de Mexico, Mexico, D.F., December 1997.
Lecturer on crime scene investigation, Universidad de Andalucia, Baeza, Spain, December 2005.

Author of 185 articles in the area of forensic science. This includes the editing of one standard textbook on physical evidence, chapters in nine other texts, with the remainder being journal articles in the forensic science literature, the chemistry literature, the law literature, and an encyclopedia. Dr. Thornton is the principal author of two extensive computer databases of forensic information, the *Firearms Evidence Sourcebook* and the *Sourcebook of Forensic Science Information*, both published by the National Institute of Justice.

Consultant, on an ongoing basis, to various police agencies, public prosecutor's offices, public defender's offices, and attorneys, in connection with criminal and civil litigation. Dr. Thornton has been involved in approximately 800 homicide investigations over a period of more than 40 years. Dr. Thornton has taught physical evidence doctrine and methods in China, Mexico, Spain, India, Israel, and Colombia at the request of the governments of those countries.

Dr. Thornton has testified as an expert witness on several hundred occasions on a variety of physical evidence matters. He has testified in Superior Court in California, Alaska, Washington, Oregon, Arizona, Nevada, Idaho, Colorado, Iowa, Alabama, Massachusetts, Hawaii, and North Carolina, in Department of Defense Courts Martial, and in Queen's Court in Canada. He has testified in Federal District Court in Fairbanks, Anchorage, Boise, San Francisco, Oakland, Fresno, Spokane, Reno, Denver, and Raleigh.

Representative publications:

180. FORENSIC PAINT EXAMINATION. John I. Thornton. Chapter 8 in *Forensic Science Handbook*, Vol. 1, 2nd ed., Richard Saferstein, Ed., Prentice-Hall, Upper Saddle River, New Jersey, 2002, p. 428-478.
181. PHYSICAL EXAMINATION OF GLASS EVIDENCE. John I. Thornton. Chapter 6 in *Forensic Examination of Glass and Paint*, Ed. Brian Caddy. Taylor & Francis, London, 2001, p. 97-121.
182. GENERAL ASSUMPTIONS AND RATIONALE IN FORENSIC IDENTIFICATION. John I. Thornton and Joseph L. Peterson. Chapter 24 in *Scientific Evidence Reference Manual*, 2nd ed., Ed. David L. Faigman, David Kaye, Michael J. Saks, and Joseph Sanders. West Publishing Co., St. Paul, Minn., 2002, Vol. 3, p. 145-206.
184. THE ETHOS AND ETHICS OF CRIME SCENE RECONSTRUCTION. John I. Thornton. In *Crime Reconstruction*, Ed. Brent E. Turvey and W. Jerry Chisum, Academic Press, San Diego, CA, 2006.
186. TRACE EVIDENCE IN CRIME SCENE RECONSTRUCTION. John I. Thornton and Donna Kimmel-Lake. In *Crime Reconstruction*, Ed. Brent E. Turvey and W. Jerry Chisum, Academic Press, San Diego, CA, 2006.

Dr. John I. Thornton
Emeritus Professor of Forensic Science
University of California
Berkeley, California 94720

PUBLICATIONS

1. THE DEMONSTRATION OF THE RHESUS ANTIBODY IN DRIED BLOOD STAINS. John I. Thornton and Paul L. Kirk. *J. Forensic Medicine*, 10:23 (1964).
2. THE INDIVIDUALIZATION OF DRY BLOOD SAMPLES BY MEANS OF THE DEMONSTRATION OF THE SYPHILIS ANTIBODY. Charles I. Leister, Jr., John I. Thornton, and Paul L. Kirk. *J. Forensic Medicine*, 11:31 (1964).
3. THE IDENTIFICATION OF THE OPIUM POPPY. John I. Thornton and Duayne J. Dillon. *J. Forensic Science Society*, 6:42 (1966).
4. IDENTIFICATION NOTES ON THE GYROJET WEAPONS SYSTEM. Duayne J. Dillon and John I. Thornton. *J. Forensic Science Society*, 7:146 (1967).
5. THE IDENTIFICATION OF SEMINAL STAINS BY IMMUNODIFFUSION ON CELLULOSE ACETATE. John I. Thornton and Duayne J. Dillon. *J. Forensic Sciences*, 13:121 (1968).
6. IDENTIFICATION NOTES ON THE TROPICAL WOOD ROSE, ARGYREIA NERVOSA. Steven P. McJunkins, John I. Thornton, and Duayne J. Dillon. *J. Forensic Science Society*, 8:121 (1968).
7. THE CHEMICAL IDENTIFICATION OF MARIJUANA. (Master's Thesis). John I. Thornton. School of Criminology, University of California, Berkeley, March 1968.
8. (Obituary). PAUL L. KIRK 1902-1970. John I. Thornton. *J. Forensic Science Society*, 10:132 (1970).
9. COMPARISON OF TUNGSTEN FILAMENTS BY MEANS OF THE SCANNING ELECTRON MICROSCOPE. John I. Thornton, Gerald T. Mitosinka, and Thomas H. Hayes. *J. Forensic Science Society*, 11:197 (1971).
10. (Book Review). FORENSIC SCIENCE, by H.J. Walls. John I. Thornton. Praeger and Co., 1968, 216 pp., in *Issues in Criminology*, 6(2):13 (1972).
11. HIGH SPEED LIQUID ADSORPTION CHROMATOGRAPHY IN CRIMINALISTICS. I. THEORY AND PRACTICE. Paul J. Cashman and John I. Thornton. *J. Forensic Science Society*, 11:115 (1971).
12. DETECTION OF THE RHESUS FACTORS IN BLOODSTAINS. Robert R. Ogle, Dorothy Northy, and John I. Thornton. *American Laboratory*, 4(2):13 (1972).
13. THE DETECTION OF IBOGAINE IN BIOLOGICAL MATERIALS. H.I. Dhahair, Naresh C. Jain, and John I. Thornton. *J. Forensic Science Society*, 12:309 (1972).

14. HIGH SPEED LIQUID ADSORPTION CHROMATOGRAPHY IN CRIMINALISTICS. II. THE SEPARATION OF HEROIN, O6-MONOACETYLMORPHINE, AND MORPHINE. Paul J. Cashman and John I. Thornton. *J. Forensic Science Society*, 12:417 (1972).
15. THE IDENTIFICATION OF MARIJUANA. John I. Thornton and George R. Nakamura. *J. Forensic Science Society*, 12:461 (1972).
16. THE EXAMINATION OF THE CYSTOLITHIC HAIRS OF CANNABIS AND OTHER PLANTS BY MEANS OF THE SCANNING ELECTRON MICROSCOPE. Gerald T. Mitosinka, John I. Thornton, and Thomas H. Hayes. *J. Forensic Science Society*, 12:521 (1972).
17. MICROCHEMICAL TESTS FOR HYDANTOINS AND HYDANTOIN-BARBITURATE MIXTURES. Edward F. Rhodes and John I. Thornton. *Microchem. J.*, 17:528 (1972).
18. IDENTIFICATION OF LYSERGIC ACID DIETHYLAMIDE BY MEANS OF THE 10-HYDROXY DERIVATIVE. Edward T. Blake, Paul J. Cashman, and John I. Thornton. *Anal. Chem.*, 45(2):394 (1973).
19. QUESTIONS AND ANSWERS ON MARIJUANA. George R. Nakamura and John I. Thornton. *J. Police Science and Administration*, 1:102 (1973).
20. GLASS FRACTURE ANALYSIS--A REVIEW. Steven P. McJunkins and John I. Thornton. *Forensic Science International*, 2:1 (1973).
21. HIGH PRESSURE LIQUID CHROMATOGRAPHIC SEPARATION OF PHENETHYLAMINES OF FORENSIC INTEREST. Paul J. Cashman, Paul Batchelder, and John I. Thornton. *J. Chromatographic Science*, 11:7 (1973).
22. (Book Review). CRIMINALISTICS--THEORY AND PRACTICE, by Kevin P. O'Brien and Robert C. Sullivan. Holbrook Press, Boston, 1972, 283 pp., in *Issues in Criminology*, 8:109 (1973).
23. RESPONSIBILITIES OF THE EVIDENCE TECHNICIAN. John I. Thornton. *Law Enforcement Journal*, 3(8):8 (August 1973).
24. THE MARKING OF PHYSICAL EVIDENCE. John I. Thornton. *Law Enforcement Journal* 3(9):6 (September 1973).
25. TESTS FOR CRIME SCENE RECONSTRUCTION. John I. Thornton. *Law Enforcement Journal* 3(11):11 (November 1973).
26. A FORENSIC BIOCHEMICAL CHARACTERIZATION OF SOILS. (Doctoral Dissertation). John I. Thornton. School of Criminology, University of California, Berkeley, 1974.
27. ENZYME SOILPRINTS. John I. Thornton. *Law Enforcement J.* 4(2):26 (February 1974).
28. ANONYMOUS LETTERS. John I. Thornton. *Law Enforcement J.* 4(3):25 (March 1974).
29. (Textbook). *KIRK'S CRIME INVESTIGATION*, 2nd Edition. Edited by John I. Thornton. John Wiley and Sons, New York, 1974, 501 p. Republished by Krieger Publications, Matabar, Florida, 1985.

30. HAIR EVIDENCE. John I. Thornton. *Law Enforcement Journal*, 4(6):10 (June 1974).
31. DENSITY DETERMINATIONS ON POLYMERS AND OTHER TRACE EVIDENCE. John I. Thornton. *FBI Crime Laboratory Digest*, 1974(7):6 (October 1974).
32. (Letter to the Editor). ISOTACHOPHORESIS AND ISOELECTRIC FOCUSING OF SOIL HUMIC SUBSTANCES IN POLYACRYLAMIDE GEL. John I. Thornton. *J. Chromatography*, 103(2):402 (1975).
33. THE INTERPRETATION OF IMPACT FRACTURES IN GLASSY POLYMERS. Edward F. Rhodes and John I. Thornton. *J. Forensic Sciences*, 20:274 (1975).
34. CRIMINALISTICS - PAST, PRESENT, AND FUTURE. John I. Thornton. *Lex et Scientia*, 11(1):1 (1975). Translated into Chinese and republished by the People's University, Beijing, People's Republic of China, 1985. Translated into Spanish by the U.S. State Department, 1992.
35. THE EVIDENCE IS WRIT IN THE SOIL. John I. Thornton. *New Scientist*, 66(952):544 (June 5, 1975).
36. KINETICS OF HEROIN DEACETYLATION IN AQUEOUS ALKALINE SOLUTION AND IN HUMAN SERUM AND IN WHOLE BLOOD. George R. Nakamura, John I. Thornton, and Thomas T. Noguchi. *J. Chromatography*, 110:81 (1975).
37. THE FORENSIC CHARACTERIZATION OF SAND. Francis Fitzpatrick and John I. Thornton. *J. Forensic Sciences*, 20:460 (1975).
38. THE QUANTITATIVE ESTIMATION OF THE STRENGTH OF ASSOCIATIONS IN MODUS OPERANDI. Kim S. Wildman, Valerie Phillips, and John I. Thornton. *J. Police Science and Administration*, 3:301 (1975).
39. ENZYMIC CHARACTERIZATION OF SOIL EVIDENCE. John I. Thornton and A. Douglas McLaren. *J. Forensic Sciences*, 20:674 (1975).
40. THE USE OF AN AGGLOMERATIVE NUMERICAL TECHNIQUE IN PHYSICAL EVIDENCE COMPARISONS. John I. Thornton. *J. Forensic Sciences*, 20:675 (1975).
41. (Book Review). FORENSIC GEOLOGY, by R.C. Murray and J.C.F. Tedrow. Rutgers Univ. Press, 1975, 217 p., in *J. Forensic Sciences*, 21:229 (1976).
42. A RAPID METHOD FOR DETERMINING RIFLING PITCH. Paul J. Cashman and John I. Thornton. *Assoc. Firearms and Toolmark Examiners J.*, Vol. 7, No. 3 (December 1975).
43. A SPECIFIC MICROCRYSTALLINE TEST FOR INDOLAMINE DERIVATIVES. Paul J. Cashman and John I. Thornton. *Microchemical J.*, 20:511 (1975).
44. (Book Chapter). REDIRECTION OF THE CRIME LABORATORY. John I. Thornton. Chapter IX of *Crime Laboratory Management Forum*, edited by R.H. Fox and F.H. Wynbrandt. The Forensic Science Foundation Press, Rockville, Maryland, 1976, 289 p.
45. A NEW FERROUS METAL DETECTION REAGENT. Grady L. Goldman and John I. Thornton. *J. Forensic Sciences*, 21:625 (1976).

46. DIMETHYLAMINOCINNAMALDEHYDE TEST FOR URINE STAINS. Edward F. Rhodes and John I. Thornton. *J. Police Science and Administration*, 4:88 (1976).
47. MECHANISM OF THE RESTORATION OF OBLITERATED SERIAL NUMBERS BY ACID ETCHING. John I. Thornton and Paul J. Cashman. *J. Forensic Science Society*, 16:69 (1976).
48. RECOVERY OF SOIL PARTICLES FROM A DENSITY GRADIENT COLUMN. Grady L. Goldman and John I. Thornton. *J. Forensic Science Society*, 16:171 (1976).
49. A TABLE FOR THE CALCULATION OF DOWNRANGE PROJECTILE ENERGY. John I. Thornton and Edward F. Rhodes. *Assoc. Firearms and Toolmark Examiners J.*, Vol. 8, No. 4, p. 53 (1976).
50. PROJECTILE PERFORATIONS OF LEAD TARGETS. John I. Thornton and Paul J. Cashman. *Assoc. Firearms and Toolmark Examiners J.*, Vol. 8, No. 2, p. 41 (1977).
51. PHOTOGRAPHY OF THE LUMINOL REACTION AT CRIME SCENES. John I. Thornton and John E. Murdock. *Criminologist*, Vol. 10, No. 37, p. 15 (1977).
52. A COMPUTER BASED TABLE FOR THE CONVERSION OF TWIST. Edward F. Rhodes and John I. Thornton. *Assoc. Firearms and Toolmark Examiners J.*, Vol. 9, No. 1, p. 51 (1977).
53. GENETIC BASIS OF HUMAN HAIR MEDULLATION. John I. Thornton. *Human Heredity*, 27:381 (1977).
54. LA DOCTRINE DE LA DISSIMILITUDE UNIQUE DANS L'IDENTIFICATION DACTYLOSCOPIQUE (THE ONE-DISSIMILARITY DOCTRINE IN FINGERPRINT IDENTIFICATION). John I. Thornton. *Revue Internationale de Police Criminelle*, No. 306, (March 1977), p. 89.
55. (Book Review). AN INTRODUCTION TO CRIMINALISTICS, by Richard Saferstein. John I. Thornton. *J. Forensic Sciences*, 22:851 (1977).
56. AN IMPROVED FERROUS METAL DETECTION REAGENT. John I. Thornton and David Stoney. *J. Forensic Sciences*, 22:739 (1977).
57. SOME OBSERVATIONS ON THE HISTORICAL DEVELOPMENT OF THE COMPARISON MICROSCOPE. John I. Thornton. *Assoc. Firearms and Toolmark Examiners J.*, Vol. 10, No. 1, p. 7 (March 1978).
58. (Book Review). CRIME SCENE INVESTIGATION, by Kenneth Goddard. John I. Thornton. *J. Forensic Sciences*, 23:417 (1978).
59. LE COEFFICIENT DE FROTTEMENT DANS LE CALCUL DE LA VITESSE DES VEHICULES D'APRES LES TRACES DE FREINAGE (CONSIDERATIONS OF COEFFICIENT OF FRICTION IN COMPUTING VEHICULAR SPEED FROM SKIDMARKS). L.F. Harding and John I. Thornton. *Revue Internationale de Police Criminelle*, No. 309 (June-July 1977), p. 180.
60. DETECTION OF TAGGING DYES BY MEANS OF THE ARGON ION LASER. John I. Thornton. *J. Police Science and Administration*, 6:219 (1978).

61. THE VALIDITY OF FIREARMS EVIDENCE. John I. Thornton. *California Attorneys for Criminal Justice Forum*, Vol. 5, No. 4, p. 15, (July-August 1978).
62. MODIFICATION OF FINGERPRINT POWDER WITH COUMARIN 6 LASER DYE. John I. Thornton. *J. Forensic Sciences*, 23:536 (1978).
63. NONRANDOMNESS OF STRIATION EVIDENCE. John I. Thornton. *J. Police Science and Administration*, 6:413 (1978).
64. CRIME LABORATORY PROFICIENCY TESTING RESEARCH PROGRAM. Joseph L. Peterson, Ellen L. Fabricant, Kenneth S. Field, and John I. Thornton. Law Enforcement Assistance Administration, U.S. Government Printing Office, Washington, D.C., October 1978, 287 pp.
65. MAJOR CRIME INVESTIGATIVE GUIDELINES. John I. Thornton. Triad Press, Colorado Springs, Colorado, 1978, 129 pp.
66. RECONSTRUCTION OF FRACTURED GLASS BY LASER BEAM INTERFEROMETRY. John I. Thornton and Paul J. Cashman. *J. Forensic Sciences*, 24:101 (1979).
67. NATIONWIDE CRIME LABORATORY PROFICIENCY TESTING PROJECT. John I. Thornton. *FBI Crime Laboratory Digest*, Vol. 1979, No. 1, p. 1 (January 1979).
68. CRIME LABORATORY. John I. Thornton. *The World Book Encyclopedia*, Vol. 4, p. 903, World Book, Chicago, 1979.
69. OCCURRENCE OF EXCIPIENT MATERIALS IN ILLICIT TABLET MANUFACTURE. Edward F. Rhodes and John I. Thornton. *Microgram*, Vol. 12, No. 5, p. 98-107, (May 1979).
70. THE IMPLICATIONS OF REFINING OPERATIONS TO THE CHARACTERIZATION AND ANALYSIS OF ARSON ACCELERANTS. PART I. PHYSICAL SEPARATIONS. John I. Thornton and Bruce Fukayama. *Arson Analysis Newsletter*, Vol. 3, No. 2, p. 1-16, (May 1979).
71. SOLVENT-DEPENDENT PHOTOLYSIS FOR THE IDENTIFICATION OF LYSERGIC ACID DIETHYLAMIDE AND OTHER INDOLAMINES. David A. Stoney and John I. Thornton. *Anal. Chem.*, 51:1341 (1979).
72. THE IMPLICATIONS OF REFINING OPERATIONS TO THE CHARACTERIZATION AND ANALYSIS OF ARSON ACCELERANTS. PART II. CHEMICAL CONVERSION, TREATING PROCESSES, AND SUBSIDIARY PROCESSES. John I. Thornton and Bruce Fukayama. *Arson Analysis Newsletter*, Vol. 3, No. 3, p. 1-16, (August 1979).
73. THE USE OF THE STRONG-CAMPBELL INTEREST INVENTORY IN THE SELECTION OF POLICE EVIDENCE TECHNICIANS. Trevor S. White and John I. Thornton. *J. Police Science and Administration*, 7:300 (1979).
74. VISUALIZATION OF DYES ON THIN-LAYER CHROMATOGRAPHY PLATES BY MEANS OF THE ARGON ION LASER. John I. Thornton and Paul J. Casate. *Forensic Science International*, 14:215 (1979).

75. NINHYDRIN: A COLOR TEST FOR THE DIFFERENTIATION OF PHENETHYLAMINES OF ABUSE. Paul J. Cashman, James D. Beede, and John I. Thornton. *J. Forensic Science Society*, 19:137 (1979).
76. A SUMMARY OF THE STATE OF THE ART OF FORENSIC MICROSCOPY. Ira T. Silvergleit, Joseph L. Peterson, Harold A. Deadman, Peter D. DeForest, Barton Epstein, Dale H. Heideman, George Iehi, Walter C. McCrone, and John I. Thornton. The Forensic Science Foundation, Rockville, Maryland, 1980, 24 pp.
77. BARNETT'S HYPOTHETICAL AND THE ETHICAL DEFENSE EXPERT. John I. Thornton. *Calif. Assoc. of Criminalists Newsletter*, June 1980, p. 8-9.
78. CRIMINALISTICS METHODS OF ANALYSIS FEASIBILITY STUDY. VOL. 1. A SUGGESTED MECHANISM FOR EVALUATING FORENSIC SCIENCE METHODS. VOL. 2. A COMPENDIUM OF FORENSIC SCIENCE METHODS. Richard L. Brunelle, Mary L. Good, Gary R. Howell, Thomas A. Kubic, Douglas M. Lucas, Cornelius G. McWright, Joseph L. Peterson, Carlos L. Rabran, Anthony Romano, Jr., Eldon Straughn, and John I. Thornton. The Forensic Science Foundation, Colorado Springs, Colorado, 1980, Vol. 1, 52 pp., Vol. 2, 380 pp.
79. WEIGHT VARIABILITY OF FIRED AND UNFIRED CAST LEAD BULLETS. John I. Thornton and Ralph S. Maloney. *J. Assoc. Firearms and Toolmark Examiners*, Vol. 13, p. 31-33 (1981).
80. (Letter to the Editor), "Forensic Science." John I. Thornton. *Science Digest*, 89:120 (1980).
81. GLASS EVIDENCE. David A. Stoney and John I. Thornton. Chapter 10 (p. 239-277) in *Scientific and Expert Evidence*, 2nd Ed., Edward J. Imwinkelreid, ed., Practising Law Institute, New York, 1981, 1353 pp.
82. KINETICS OF THE REACTION OF NINHYDRIN WITH PHENETHYLAMINES OF ABUSE. Beth Hendrickson, John Thornton, and Ralph Maloney. *Calif. Assoc. of Criminalists Newsletter*, Sept. 1981, p. 15-19.
83. FORENSIC PAINT EXAMINATION. John I. Thornton. Chapter 10 (p. 529-571) in *Forensic Science Handbook*, Richard Saferstein, ed., Prentice-Hall, Englewood Cliffs, New Jersey, 1981.
84. TRICHOMES OF THE MULBERRY, MORUS NIGRA. Ralph S. Maloney and John I. Thornton. *Microgram*, Vol. 15, No. 5, p. 78, (May 1982).
85. COLOR TESTS FOR DIPHENYLAMINE STABILIZER AND RELATED COMPOUNDS IN SMOKELESS GUNPOWDER. Ralph W. Maloney and John I. Thornton. *J. Forensic Sciences*, 27:318 (1982).
86. PAINT SOLUBILITY TESTING. John I. Thornton, Shmuel Kraus, Bruce Lerner, and Beth Hendrickson. National Bureau of Standards Publication #480-40, U.S. Government Printing Office, Washington, D.C., January 1982, 16 pp.
87. HYBRID TRAJECTORIES OF BLOOD DROPLETS DISPERSED BY WINDOW SCREEN. David Kahane and John Thornton. *Calif. Assoc. of Criminalists Newsletter*, December 1982, p. 7-8.

88. ORIGIN OF THE TERM "LAND." John I. Thornton. *J. Assoc. Firearm and Toolmark Examiners*, Vol. 15, No. 4, p. 8, (October 1983).
89. CRIMINALISTICS. John I. Thornton. Chapter 1 (p. 1-64), in *Research Findings for Forensic Information Users*, Beth A. Lipskin, ed., The Forensic Science Foundation, Colorado Springs, Colorado, January 1983, 382 pp.
90. COMMENTS ON THE TRIGONOMETRICAL BASIS OF BULLET TWIST MEASUREMENTS. Ferdinand G. Rios and John I. Thornton. *J. Assoc. Firearm and Toolmark Examiners*, Vol. 15, p. 104-107, 1983.
91. FULL AUTOMATIC FIRE CONVERSIONS OF THE COLT AR-15 AND VARIANTS. John I. Thornton and Ferdinand G. Rios. *J. Assoc. Firearm and Toolmark Examiners*, Vol. 15, p. 114-117, 1983.
92. PRESUMPTIVE TESTING FOR BLOOD BY MEANS OF DERIVATIVE FORMATION. John I. Thornton and Ferdinand G. Rios. *FBI Crime Laboratory Digest*, February 1983, p. 1-11.
93. USES AND ABUSES OF FORENSIC SCIENCE. John I. Thornton. *American Bar Assoc. J.*, Vol. 69, p. 288-292, (March 1983); published also as Chapter V of *Science in Law: An Essential Alliance*, William A. Thomas, ed. American Bar Association and the American Association for the Advancement of Science, Westview Press, Boulder, Colorado, 1983.
94. SOLUBILITY CHARACTERISTICS OF AUTOMOTIVE PAINTS. John I. Thornton, Shmuel Kraus, Bruce Lerner, and David Kahane. *J. Forensic Sciences*, 28:1044 (1983).
95. STATIC VS. DYNAMIC TRIGGER PULL MEASUREMENTS. Ferdinand G. Rios and John I. Thornton. *J. Firearm and Toolmark Examiners*, Vol. 16, No. 3, p. 84-87 (1984).
96. INTERPRETATION OF TRAJECTORY BY MEANS OF POLYETHYLENE SHOTSHELL BUFFERS. John I. Thornton and Kevin Guarino. *J. Assoc. Firearm and Toolmark Examiners*, Vol. 16, No. 3, p. 132-134 (1984).
97. (Letter to the Editor). THE APPLICATION OF LINEAR REGRESSION TO RANGE-OF-FIRE ESTIMATES BASED ON THE SPREAD OF SHOTGUN PELLET PATTERNS. Ferdinand G. Rios and John I. Thornton. *J. Forensic Sciences*, 29:695 (1984).
98. CORRELATION OF GLASS DENSITY AND REFRACTIVE INDEX - IMPLICATIONS TO DENSITY GRADIENT CONSTRUCTION. John Thornton, Carol Langhauser, and David Kahane. *J. Forensic Sciences*, 29:711 (1984).
99. (Book Review). FRICTION RIDGE SKIN, by James Cowger. John I. Thornton. *J. Forensic Sciences*, 29:845 (1984).
100. FOOTPRINTING. John I. Thornton. *The World Book Encyclopedia*, Vol. 7, p. 321, World Book, Chicago, 1983.
101. FINGERPRINTING. John I. Thornton. *The World Book Encyclopedia*, Vol. 7, p. 108, World Book, Chicago, 1983.
102. FLASH POINT DETERMINATIONS IN FORENSIC PRACTICE. Kevin Guarino and John Thornton. *Arson Analysis Newsletter*, Vol. 8, No. 3, p. 73-77 (July 1984).

103. QUALITY ASSURANCE IN SHOTSHELL MANUFACTURE - IMPLICATIONS FOR DETERMINATION OF DISCHARGE DISTANCE. Peter Vincie and John Thornton. *J. Firearm and Toolmark Examiners Assoc.*, Vol. 17, No. 3, p. 70 (July 1985).
104. TOLERANCE AND UNIFORMITY OF MICROSCOPE COVERSLEIPS. John I. Thornton, Beth Hendrickson, and Carol Herratson. *The Microscope*, 35:179 (1985).
105. THE CHEMISTRY OF THE LUMINOL REACTION - WHERE TO FROM HERE? John I. Thornton and Ralph S. Maloney. *Calif. Assoc. of Criminalists Newsletter*, Sept. 1985, p. 9-17.
106. (Letter to the Editor). RESPONSE TO OPPENHEIMER GOLDBERG. John I. Thornton. *The Microscope*, 35:232 (1985).
107. INTERPRETATION OF GLASS FRACTURES OF CURVED SURFACES. John I. Thornton. *FBI Crime Laboratory Digest*, Vol. 12, No. 4, p. 82 (October 1985).
108. ISOLATION OF CAPSAICINOIDS BY SOLVENT EXTRACTION. John I. Thornton, Grady Goldman, and Beth Hendrickson. *Calif. Assoc. of Criminalists Newsletter*, January 1986, p. 13-19.
109. ENHANCEMENT OF THE LUMINOL REACTION BY MEANS OF LIGHT AMPLIFICATION. John I. Thornton, Ferdinand G. Rios, Kevin Guarino, and Paul J. Cashman. *J. Forensic Sciences*, 31:254 (1986).
110. THE FORENSIC SIGNIFICANCE OF THE CORRELATION OF DENSITY AND REFRACTIVE INDEX. David A. Stoney and John I. Thornton. *Forensic Science International*, 29:147-157 (1985).
111. A BRIEF HISTORY OF QUESTIONED DOCUMENT EXAMINATION. John I. Thornton and Edward F. Rhodes. *Identification News*, Vol. 36, No. 1, January 1986, p. 7.
112. FORENSIC SOIL CHARACTERIZATION. John I. Thornton. Chapter 1 in *Progress in Forensic Science*, ed. Andreas Maehly and Ray Williams, Springer-Verlag, Berlin, 1986.
113. NARROW MEDULLAE IN ANIMAL HAIRS. Malcolm McGinnis and John I. Thornton. *FBI Crime Laboratory Digest*, Vol. 13, No. 2, April 1986, p. 51-53.
114. THE SNOWFLAKE PARADIGM. John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 2, April 1986, pg. 399-401.
115. ENSEMBLES OF SUB-CLASS CHARACTERISTICS IN PHYSICAL EVIDENCE EVALUATION. John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 2, April 1986, pg. 501-503.
116. THREE-DIMENSIONAL PRESENTATION OF GLASS DENSITY VS. REFRACTIVE INDEX DATA. Edgard O'N. Espinoza and John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 2, April 1986, pg. 887-890.
117. THE EFFECTS OF TEMPERED GLASS ON BULLET TRAJECTORY. John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 2, April 1986, pg. 743-746.
118. CLOSE PROXIMITY GUNSHOT RESIDUES. John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 2, April 1986, pg. 756-757.

119. **ECONOMICAL FILTERS FOR REFRACTIVE INDEX DETERMINATIONS.** John I. Thornton, Ferdinand G. Rios, and Edgard O'N. Espinoza. *The Microscope*, Vol. 34, No. 1, First Quarter 1986, p. 9.
120. **ANALYTICAL DATA CONCERNING OLIVETOL, 5-n-AMYLRESORCINOL.** Kevin Guarino and John Thornton. *Calif. Assoc. of Criminalists Newsletter*, July 1986, p. 10-12.
121. **SUBSTITUTION OF p-HYDROXYBENZALDEHYDE FOR VANILLIN IN THE DUQUENOIS REAGENT.** John I. Thornton. *Calif. Assoc. of Criminalists Newsletter*, July 1986, p. 15-16.
122. **GLASS FRACTURE MECHANISMS - A RETHINKING.** John I. Thornton and Paul J. Cashman. *J. Forensic Sciences*, Vol. 31, No. 3, July 1986, p. 818-824.
123. **(Letter to the Editor). TOLERANCE TO THICKNESS OF MICROSCOPE COVER GLASS.** John I. Thornton. *Functional Photography*, Vol. 21, No. 4, July/August 1986, p. 4.
124. **THE AUSTRIAN CONNECTION - THE CONTRIBUTIONS OF LANDSTEINER, PREGI, AND GROSS.** John I. Thornton and Edgard O'N. Espinoza. *Calif. Assoc. of Criminalists Newsletter*, September 1986, p. 11-13.
125. **MULTIVARIATE STATISTICAL ANALYSIS OF SHOTGUN PELLET DISTRIBUTION.** Ferdinand G. Rios and John I. Thornton. *Forensic Science International*, Vol. 32, No. 1, pg. 21-28 (1986).
126. **A CRITICAL ASSESSMENT OF QUANTITATIVE FINGERPRINT INDIVIDUALITY MODELS.** David A. Stoney and John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 4, October 1986, p. 1187-1216.
127. **A METHOD FOR THE DESCRIPTION OF MINUTIAE PAIRS IN FINGERPRINT PATTERNS.** David A. Stoney and John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 4, October 1986, p. 1217-1234.
128. **FRACTAL SURFACES AS MODELS OF PHYSICAL MATCHES.** John I. Thornton. *J. Forensic Sciences*, Vol. 31, No. 4, October 1986, p. 1435-1438.
129. **(Letter to the Editor). DISCUSSION OF "ESTIMATING HEIGHT AND WEIGHT FROM SIZE OF FOOTPRINTS."** David Kahane and John I. Thornton. *J. Forensic Sciences*, Vol. 32, No. 1, January 1987, p. 9-10.
130. **ESTIMATION OF THE ABSOLUTE DENSITY OF GLASS FOLLOWING THE SINK/FLOAT TECHNIQUE.** David Kahane and John I. Thornton. *J. Forensic Sciences* 32:87-92 (January 1987).
131. **DITHIZONE AS A MICROCRYSTALLINE TEST FOR THE CONFIRMATION OF PROJECTILE LEAD WIPES.** Malcolm D. McGinnis, Edgard O'N. Espinoza, and John I. Thornton. *J. Forensic Sciences* 32:242-244 (January 1987).
132. **FLUORESCENCE DETECTION OF BLOODSTAIN PATTERNS.** John I. Thornton and Curtis L. Heye. *Proc. Soc. of Photo-Optical Instrumentation Engineers*, Vol. 743, *Fluorescence Detection*, Ed. E. Roland Menzel, 1987, p. 190.

133. **PHYSICAL EVIDENCE EXAMINATION METHODS.** (In Chinese; translated by Cheng Jing). John I. Thornton. Southwest China Institute of Political Science and Law, Chongqing, Sichuan, People's Republic of China, March 1987. Part I, p. 1-38; Part II, p. 1-35.
134. **THE EFFECT OF DEFORMED SHOT ON SHOTGUN DISPERSION.** Ferdinand G. Rios and John I. Thornton. *J. Forensic Sciences*, Vol. 32, No. 2, March 1987, p. 522.
135. (Letter to the Editor - Response to Robert Gault) - **FRACTAL SURFACES AS MODELS OF PHYSICAL MATCHES.** John I. Thornton. *J. Forensic Sciences*, Vol. 32, No. 4, July 1987, p. 837.
136. **A SYSTEMATIC STUDY OF EPIDERMAL RIDGE MINUTIAE.** David A. Stoney and John I. Thornton. *J. Forensic Sciences*, Vol. 32, No. 5, Sept. 1987, p. 1182-1203.
137. (Letter to the Editor - Response to Charles Kingston) - **A CRITICAL ANALYSIS OF QUANTITATIVE FINGERPRINT INDIVIDUALITY MODELS.** David A. Stoney and John I. Thornton. *J. Forensic Sciences*, Vol. 33, No. 1, Jan. 1988, p. 11-13.
138. (Forward to Textbook). John I. Thornton. Forward to *The Controlled Substances Act*, by Alexander T. Shulgin, 1988, 383 pp.
139. **FLUORESCENCE IN BLOODSTAIN DETECTION.** Curtis L. Hays and John I. Thornton. *Proc. Soc. Photo-Optical Instrumentation Engineers*, Vol. 910, *Fluorescence Detection II*, Ed. E. Roland Menzel, 1988, p. 43-44.
140. **THE DUQUENOIS REACTION AND PHENOLS OF THE CANNABINOID AND NON-CANNABINOID TYPES.** John I. Thornton and Deborah L. Fisher. *Calif. Assoc. of Criminalists Newsletter*, April 1989, p. 17-24.
141. **MULTIVARIATE ANALYSIS OF TYPEFACE DAMAGE FREQUENCIES.** David A. Stoney and John I. Thornton. *J. Forensic Sciences*, Vol. 34, No. 3, May 1989, p. 673-677.
142. **LIE DETECTOR.** John I. Thornton. *World Book Encyclopedia*, 1989, Vol. 12, p. 271.
143. **CORONER.** John I. Thornton. *World Book Encyclopedia*, 1989, Vol. 4, p. 1069.
144. **SCOTLAND YARD.** John I. Thornton. *World Book Encyclopedia*, 1989, Vol. 3, p. 220.
145. **INQUEST.** John I. Thornton. *World Book Encyclopedia*, 1989, Vol. 10, p. 277.
146. **AUTOPSY.** John I. Thornton. *World Book Encyclopedia*, 1989, Vol. 10, p. 177.
147. **NAME REACTIONS AND DRUG TESTING - AN ANTICIPATION OF A KELLY/FRYE CHALLENGE.** John I. Thornton. *Calif. Assoc. of Criminalists Newsletter*, Jan. 1989, p. 9-11. (Reprinted in the *Northeastern Association of Forensic Scientists Newsletter*, Vol. 14, No. 2, June 1989, p. 6-8.)
148. **TRUE MUZZLE VELOCITY CONSIDERATIONS - NOMINAL VALUES AND FOURTH ROOT CORRECTION FOR BARREL LENGTH.** John I. Thornton, Kris Hodge, and Edgard O'N. Espinoza. *Assoc. Firearm and Toolmark Examiners Journal*, Vol. 21, No. 1, Jan. 1989, p. 16-20.

149. GUNPOWDER STABILIZERS IN SOVIET 5.45 X 39 MM (AK-74) AND 7.62 X 39 MM (AK-47) AMMUNITION. Edgard O'N. Espinoza and John I. Thornton. *Assoc. Firearm and Toolmark Examiners Journal*, Vol. 21, No. 1, Jan. 1989, p. 42-44.
150. A TRAJECTORY ANALYSIS OF BILLY DIXON'S LONG SHOT. John I. Thornton. *J. Forensic Sciences*, Vol. 34, No. 4, July 1989, p. 1037-1041.
151. THE USE OF k VALUES IN THE INTERPRETATION OF GLASS DENSITY AND REFRACTIVE INDEX DATA. John I. Thornton. *J. Forensic Sciences*, Vol. 34, No. 6, Nov. 1989, p. 1323-1328.
152. DNA PROFILING. John I. Thornton and Malcolm McGinnis. *Chemical and Engineering News*, Vol. 67, No. 47, Nov. 20, 1989, p. 18-30.
153. (Letter to the Editor - Response to Julian Mason). A TRAJECTORY ANALYSIS OF BILLY DIXON'S LONG SHOT. John I. Thornton. *J. Forensic Sciences*, Vol. 35, No. 4, July 1990, p. 782.
154. DNA FINGERPRINTING. John I. Thornton. *World Book Encyclopedia*, 1991, Vol. 5, p. 259-260.
155. (Letter to the Editor - Response to Leon Day) A TRAJECTORY ANALYSIS OF BILLY DIXON'S LONG SHOT. John I. Thornton. *J. Forensic Sciences*, Vol. 36, No. 4, July 1991, p. 971.
156. (Letter to the Editor). PERFORMANCE OF THE WINCHESTER 9MM 147 GRAIN SUBSONIC JACKETED HOLLOW POINT BULLET IN HUMAN TISSUE AND TISSUE SIMULANT. John I. Thornton. *Wound Ballistics Review*, Vol. 1, No. 2, Winter 1992, p. 9.
157. (Letter to the Editor). HAZARD OF TESTING SMOKELESS GUNPOWDER WITH NITRIC ACID. John I. Thornton and Edgard O'N. Espinoza. *J. Forensic Sciences*, Vol. 37, No. 1, January 1992, p. 5.
158. CONCERNING THE SOLUBILITY OF SUGAR IN GASOLINE. Keith Inman, Glenn Hardin, George Sensabaugh, and John Thornton. *J. Forensic Sciences*, Vol. 38, No. 4, July 1993, p. 767.
159. REDUCTION OF SPECULAR REFLECTION ON PROJECTILES AND TOOLMARKS BY AMMONIUM CHLORIDE FUMING. Ferdinand G. Rios and John I. Thornton. *J. Forensic Sciences*, Vol. 38, No. 4, July 1993, pp. 840-842.
160. BERTILLON SYSTEM. John I. Thornton. *World Book Encyclopedia*, 1993, Vol. 2, p. 272.
161. *FIREARMS EVIDENCE SOURCEBOOK*. (Computer Database). John I. Thornton and Ferdinand G. Rios. National Institute of Justice, Washington, D.C., 1993, 29.8 Mbytes.
162. (Letter to the Editor). STABILIZATION OF CUPRIC CHLORIDE CORROSION. John I. Thornton. *Ocean Navigator*, July-August 1993, p. 34.
163. COURTS OF LAW VS. COURTS OF SCIENCE. John I. Thornton. *Shepard's Expert and Scientific Evidence Quarterly*, Vol. 1, No. 3, Winter 1994, p. 475.

164. THE CHEMISTRY OF DEATH BY GUNSHOT. John I. Thornton. *Analytica Chimica Acta*, Vol. 288, No. 1-2, March 30, 1994, p. 71
165. FIREARM CARTRIDGE CASE COMPARISON BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROCHEMICAL DETERMINATION OF NICKEL, IRON AND LEAD. Curtis Heye and John I. Thornton. *Analytica Chimica Acta*, Vol. 288, No. 1-2, March 30, 1994, p.83.
166. THE CHARACTERIZATION OF SMOKELESS GUNPOWDER BY MEANS OF DIPHENYLAMINE STABILIZER AND ITS NITRATED DERIVATIVES. Edgard O'N. Espinoza and John I. Thornton. *Analytica Chimica Acta*, Vol. 288, No. 1-2, March 30, 1994, p. 57.
167. DENSITY CHARACTERIZATION OF ARMOR PIERCING AMMUNITION. Curtis L. Heye, Ferdinand G. Rios, and John I. Thornton. *J. of Forensic Sciences*, Vol. 40, No. 3, May 1995, p. 401
168. NEW TOOLS OF THE FORENSIC SCIENTIST. John I. Thornton. *Science Year 1996*. World Book Publishing, Chicago, 1995, p. 158.
169. GENERAL ASSUMPTIONS AND RATIONALE IN FORENSIC IDENTIFICATION. John I. Thornton. Chapter 17 In *Scientific Evidence Reference Manual*, Ed. David L. Faigman, David Kaye, Michael J. Saks, and Joseph Sanders. West Publishing Co., Chicago, 1997.
170. SPECIFICITY OF MICROCRYSTALLINE TESTS FOR HEROIN. John I. Thornton. *California Association of Criminalists Newsletter*, Summer 1995, p.20.
171. SIMILARITY BETWEEN HUMAN AND HYENA HAIR. John I. Thornton. *California Association of Criminalists Newsletter*, Fall 1995, p. 8.
172. THE USE OF ULEXITE TO COLLIMATE AN ILLUMINATION BEAM FOR BECKE LINE DETERMINATIONS. John I. Thornton. *California Association of Criminalists Newsletter*, Winter 1995, p. 19.
173. (Book Review). HUNG JURY: THE DIARY OF A MENENDEZ JUROR, by Hazel Thornton. John I. Thornton. 174 pg., Temple University Press, Philadelphia, 1995. *Journal of Forensic Sciences*.
174. VISUAL COLOR COMPARISONS IN FORENSIC SCIENCE. John I. Thornton. *Forensic Science Review*, Vol. 9, No. 1, (1997), p. 37-57
175. THE DNA STATISTICAL PARADIGM VS. EVERYTHING ELSE. (Letter to the Editor). John I. Thornton. *J. Forensic Sciences*, Vol. 42, No. 4, (1997), p. 758-759.
176. NATIONAL INSTITUTE OF JUSTICE SOURCEBOOK OF FORENSIC SCIENCE INFORMATION. (Computer database). John I. Thornton and Ferdinand G. Rios, Eds., National Institute of Justice, Washington, D.C., 1997, 640 MB.
177. SCIENCE IN CRIME SOLVING. John I. Thornton. *Science Year 1999*. World Book Encyclopedia, Chicago, 1998

178. **ESTABLISHMENT OF A WILDLIFE FORENSIC CAPABILITY AT THE WILDLIFE INSTITUTE OF INDIA.** John I. Thornton and R.K. Tewari. Bureau of Police Research and Development, Ministry of Home Affairs, Govt. of India, New Delhi, October 1998, pp. 19.
179. **SETTING OF STANDARDS IN THE COMPARISON AND IDENTIFICATION OF FINGERPRINTS.** John I. Thornton. *80th Annual Conference California State Division of the International Assoc. for Identification*. May 2000. HYPERLINK <http://www.latent-prints.com/Thornton.htm> , 11 pages.
180. **FORENSIC PAINT EXAMINATION.** John I. Thornton. Chapter 8 in *Forensic Science Handbook*, Vol. 1, 2nd ed., Richard Seferstein, Ed., Prentice-Hall, Upper Saddle River, New Jersey, 2002, p. 429-478.
181. **PHYSICAL EXAMINATION OF GLASS EVIDENCE.** John I. Thornton. Chapter 6 in *Forensic Examination of Glass and Paint: Analysis and Interpretation*. Ed. Brian Caddy, Taylor & Francis, London, 2001.
182. **GENERAL ASSUMPTIONS AND RATIONALE IN FORENSIC IDENTIFICATION.** John I. Thornton and Joseph L. Peterson. Chapter 24 in *Scientific Evidence Reference Manual*, 2nd ed., Ed. David L. Faigman, David Kaye, Michael J. Saks, and Joseph Sanders, West Publishing Co., St. Paul, Minn, 2002, Vol. 3, p. 145-206.
183. **(Forward to Textbook).** John I. Thornton. Forward to *Criminal Profiling* , by Brent E. Turvey, 2nd ed., Academic Press, San Diego, CA, 2002.
184. **THE ETHOS AND ETHICS OF CRIME SCENE RECONSTRUCTION.** John I. Thornton. in *Crime Reconstruction*, Ed. Brent E. Turvey and W. Jerry Chisum, Academic Press, San Diego, CA, (in press).
185. **TRACE EVIDENCE IN CRIME SCENE RECONSTRUCTION.** John I. Thornton and Donna Kimmel-Lake, in *Crime Reconstruction*, Ed. Brent E. Turvey and W. Jerry Chisum, Academic Press, San Diego, CA, (in press).

Dr. John I. Thornton
Consultant in Forensic Science
1095 Lokoya Road
Napa, CA 94558

(707) 224-4656

Fax (707) 226-9234

Wildthorn@Starband.net

Fax Transmission

Date: 6/29/07 Time Out: 1615

To: Lt. Col. Colby Vokey

Re: SSgt Wuterich

This facsimile is from Dr. John I. Thornton. A total of 17 pages, including this cover sheet, are being sent. If you do not receive all pages indicated, please contact John at (707) 224-4656.

Message: _____

Col. Vokey -

My fee would be \$200/hour

Fax number called: (760) 725-4162

Fax reply number: (707) 224-4656