

EDUCATION

Degree	Place	<u>Graduation Date</u>
High School.	Cedar City, Utah	26 May 1956
Associate Science	College of Southern Utah. Cedar City, Utah	29 May 1958
BS	University of Utah. Salt Lake City, Utah	18 August 1962
MD	University of Utah. Salt Lake City, Utah	11 June 1965
Internship	Tripler Army Medical Center. Honolulu, Hawaii	30 June 1966
Anesthesia Residency	Brooke Army Medical Center. Ft. Sam Houston, Texas	31 August 1968
Anesthesia Research	Brooks School of Aerospace Medicine. Ft. Sam Houston, Texas	31 August 1969

PROFESSIONAL SOCIETIES MEMBERSHIP – PAST AND PRESENT

American Society of Anesthesiologists
Philippine Society of Anesthesiologists
Anesthesia History Association
Navy Anesthesia Society
Australian Patient Safety Foundation
Association of University Anesthesiologists
International Trauma and Anesthesia Critical Care Society

New Zealand Society of Anesthesiologists
World Federation Society of Anesthesiologists
Costa Rica Society of Anesthesiologists
Anesthesia Patient Safety Foundation (US)
Tri-Service Anaesthetic Society
American Society of Zoologists
Philippine Society of Anesthesiologist, Inc.

PROFESSIONAL EXPERIENCE

<u>Dates</u>	<u>Position</u>	<u>Institution</u>
1 Sept1968-1Sept1969	Chief Resident in Anesthesia	Brooke Army Medical Center, Ft. Sam Houston, Texas
1 October 1969-30 July 1970	Chief of Anesthesia	24 th Evacuation Hospital. U.S. Army. Long Bien, Vietnam
1 September 1970-June 1973	Assistant Chief Anesthesiology Research Director	Brooke Army Medical Center. Ft. Sam Houston, Texas
1970-1973	Clinical Instructor	University Texas Medical School. San Antonio, Texas
July 1973-July 1975	Assistant Professor	University of Arizona. Tucson, Arizona
1 August 1975-1 December 1981	Chief of Anesthesiology	Dixie Medical Center. St. George, Utah
June 1979-June 1980	Chief of Medical Staff	Dixie Medical Center. St. George, Utah
1976-1981	Assistant Professor	University of Utah. Salt Lake City, Utah

1981-1987	Professor	University of Utah. Salt Lake City, Utah
July 1984-Jul 1985	Acting Chairman, Department Anesthesia	University of Utah. Salt Lake City, Utah
July 1985-Jul 1987	Chief of Anesthesia	144 th Evacuation Hospital. Utah National Guard. Salt Lake City, Utah
1986-1987	Vice Chairman	Department of Anesthesiology, University of Utah. Salt Lake City, Utah
July 1987-August 1990	Chairman	Department of Anesthesiology, Aultman Hospital. Canton, Ohio
1987-1990	Professor	Northeast Ohio University College of Medicine. Rootstown, Ohio
1989-1990	Chairman, Operating Room Oversight Committee	Aultman Hospital. Canton, Ohio
1988-1990	Chairman, Council Surgery - Anesthesia	Northeast Ohio University College of Medicine. Rootstown, Ohio
1988-2002	Professor	Department of Anesthesiology, Uniformed Services University of Health Sciences. Bethesda, Maryland
September 1990-May 1991	Staff Anesthesiologist	Desert Storm, National Naval Medical Center. Bethesda. Maryland
July 1991-December 1992	Staff Anesthesiologist	St. Mark's Hospital. Salt Lake City, Utah
1990-1993	Clinical Professor	Department of Anesthesiology, University of Utah. Salt Lake City, Utah
1991-1992	Assistant Director	Same Day Surgery Center, St. Mark's Hospital. Salt Lake City, Utah
1 January 1993	Vice Chairman	Department of Anesthesiology, Uniformed Services University of Health Sciences. Bethesda, Maryland
October 1994	Acting Chairman	Department of Anesthesiology, Uniformed Services University of Health Sciences. Bethesda, Maryland
October 1994		
31 May 1995	Professor and Chairman	Department Anesthesiology and Operative Services, Madigan Army Medical Center. Ft. Lewis, Washington
1995-1998		
1996-1998	Adjunct Faculty	Academy of Health Sciences, Ft. Sam Houston, Texas
1998- 2001	Professor	Department of Anesthesiology, University of Utah. Salt Lake City, Utah
2004-2005	Adjunct Professor	Department of Anesthesiology, University of Utah. Salt Lake City, Utah

2012-To date

Adjunct Professor

Southern Utah University. Cedar City, Utah

PROFESSIONAL, CHURCH, AND COMMUNITY ACTIVITIES

<u>Date</u>	<u>Position</u>	<u>Organization</u>
1978	President	Washington County Medical Society. St. George, Utah
1984	Reference Committee	House of Delegates, American Society of Anesthesiologists
1984	President	Utah State Society of Anesthesiologists. Salt Lake City, Utah
1990	Selection Committee	Department of Surgery, Northeast Ohio University College of Medicine. Rootstown, OH
1992	Education Committee	St. Mark's Hospital. Salt Lake City, Utah
February 1994	Directorate Anesthesia Service	Search Committee, VA Administration. Washington, D.C.
1954	Life Rank	Boy Scouts of America
1956-2001	Officer [Final rank: CAPTAIN)	United State Navy and United States Army
July 1978-1981	Surgery Committee	Dixie Medical Center, St. George, Utah
July 1978-1981	Joint Conference Committee	Dixie Medical Center, St. George, Utah
1979-1987	Industrial Committee	Utah State Medical Society. Salt Lake City, Utah
1981-1987	Consultant in Anesthesia	Intermountain Health Care, Inc. Salt Lake City, Utah
1983-1987	Board of Directors	Anesthesia History Association
1984-1987	Blood Bank Committee	University of Utah Medical Center. Salt Lake City, Utah
1984-1988	Professional Liability Committee	American Society of Anesthesiologists
1985-1987	Board of Directors	Biennial Western Conference in Anesthesia
1985-1987	Chairman, Bylaws Committee	University of Utah Medical Center. Salt Lake City, Utah
1985-1987	Delegate for University of Utah	Utah State Medical Association. Salt Lake City, Utah
1986-1987	Alternate Director, District #29	American Society of Anesthesiologists
1986-1988	Board of Directors	American Academy Clinical Anesthesiologists
1988-1991	Editor	Wellcome Trends in Anesthesiology. Park Row Publishers
1986-1996	Alternate, American Society Anesthesiologists	World Federation Society of Anesthesiologists Committee Representative
1987-1993	Council on Public Interest in Anesthesia	American Association of Nurse Anesthetists
1988	Delegate of American Society	9 th World Federation Society Anesthesiologists

	Anesthesiologists	
1988-1995	Advisory Panel Education Committee	World Federation Society of Anesthesiologists
1988-1995	Committee on Technology	Anesthesia Patient Safety Foundation
1989-1990	Chairman, Public Relations	Ohio Society of Anesthesiologists
1991-1992	Ethics Committee	Utah State Medical Society. Salt Lake City, Utah
October 1992	Consultant	Anesthesia Machine Standards Task Force, Ministerio de Salud. Santiago, Chile
1992-1996	Chairman, Appointment and Promotion Committee	Department of Anesthesiology, Uniformed Services University of Health Sciences Bethesda, Maryland
1992-2001	Reviewer	American Society of Anesthesiologists Closed Claims Project
1992-1996	Military Technical Consultant and Expert	Navy Surface Medical AMAL and USAMMA Field Anesthesia working groups
1992-1996	Marine Corps representative on anesthesia	Defense Medical Standardization Board and Quad- Service Consultants for the interests of the Military Field Anesthesia Machine
1992- 2001	Committee Member	ASTM F-29 Anesthesia Equipment, American Society for Testing and Materials
1993	Organizer	First American-Hungarian Conference of Military Medicine. Balatin, Hungary
1994	Interviewer, First-Year Class	Uniformed Services University of the Health Sciences. F. Edward Hebert School of Medicine, 4301 Jones Bridge Road, Bethesda, Maryland
1993-1995	Chairman	Appointment and Promotion Committee, Department Anesthesiology, Uniformed Services University Health Sciences. Bethesda, Maryland
1993-1996	Consultant	School Nurse Anesthesia, Graduate School Nursing, Uniformed Services University Health Sciences. Bethesda, Maryland
1993-1996	Task Force Member	New Anesthesia Machine Committee, Department of Defense, Uniformed Services and VA Affairs
1993-1997		American Society of Anesthesiologists Committee
1993-1997	Equipment and Facilities Committee	American Society of Anesthesiologists
1994-1995	Admissions Committee	Medical School, Uniformed Services University of Health Sciences. Bethesda, Maryland

1994-2000	Medical Equipment Committee	Compressed Gas Association
1995	Technical Consultant	USS Austin anesthesia disaster. Navy JAGMAN
1995-2001	Council Public Interest Anesthesia	American Association Nurse Anesthetists
1998-2011	Editor	Quality Review in Anesthesia, American Association of Nurse Anesthetists
2000-2004	Liaison Committee on Excellence in Anesthesia Practice	American Association of Nurse Anesthetists
45 years	Gospel Doctrine Teacher	Church of Jesus Christ of Latter-day Saints
16 years	Youth Sunday School Teacher	Church of Jesus Christ of Latter-day Saints
1959-1961	Missionary to Australia	Church of Jesus Christ of Latter-day Saints
1966	Master M-Man Certificate	Church of Jesus Christ of Latter-day Saints
1967-1968	Bishopric, San Antonio	Church of Jesus Christ of Latter-day Saints
1968-1969	High Council, San Antonio Stake	Church of Jesus Christ of Latter-day Saints
1971-1973	High Council, San Antonio Stake	Church of Jesus Christ of Latter-day Saints
1971-1973	Stake Teacher Development Director	Church of Jesus Christ of Latter-day Saints
1973-1974.	Bishopric, Tucson	Church of Jesus Christ of Latter-day Saints
1974-1975	Ward Financial Clerk, Tucson	Church of Jesus Christ of Latter-day Saints
1975-1976	Teacher Quorum Advisor	Church of Jesus Christ of Latter-day Saints
1979-1981	High Council, St. George Stake	Church of Jesus Christ of Latter-day Saints
1985-1987	Ward Welfare Coordinator	Church of Jesus Christ of Latter-day Saints
1988-1989	Ward Missionary Leader	Church of Jesus Christ of Latter-day Saints
2001-2003	Missionary to Tanzania, Kenya, Uganda, Ethiopia, Africa	Church of Jesus Christ of Latter-day Saints
2001-To Date	Advisory Board	Nursing Program, Southern Utah University. Cedar City, Utah
2003-2004	High Priest Quorum Teacher	Church of Jesus Christ of Latter-day Saints
2004-2006	Neonatal Resuscitation Training Short-term Specialist Missionary	Church of Jesus Christ of Latter-day Saints
2008-2012	Neonatal Resuscitation Training Short-term Specialist Missionary	Church of Jesus Christ of Latter-day Saints
2008-2015	Anesthesia Consultant	SPRIX. Los Angeles, California
2009-2015	Advisory Board	Friends of the Sherratt Library, Southern Utah University. Cedar City, Utah
2012-2018	High Priest Quorum Teacher	Church of Jesus Christ of Latter-day Saints
2014		
2014-2021	Library Dean Selection Committee	Southern Utah University. Cedar City, Utah
2017-2020	Southern Utah Board of Health College of Science and Engineering	Southern Utah University, Cedar City, Utah

HONORS, AWARDS, CERTIFICATES, EXHIBITS

<u>Date</u>	<u>Awards, Honors, Certificates, Etc.</u>	<u>Organization</u>
28 November 1962	Avalon Foundation Scholarship	University of Utah School of Medicine. Salt Lake City, Utah
13 December 1963.	Avalon Foundation Scholarship	University of Utah School of Medicine. Salt Lake City, Utah
25 September 1964 to 27 August 1972	Certificate of Appreciation	President Nixon
1965.	James Bush Memorial Research Award	University of Utah School of Medicine. Salt Lake City, Utah
April 1965	Certified by National Board of Medical Examiners	Taken at Tripler Army Medical Center. Honolulu, Hawaii
1966	Narcotic License #AP6477790	Drug Enforcement Agency, U.S. Government
25 June 1968	License #3950	Utah State Medical License, Physicians Licensing Board
1971		Fellow, American College of Anesthesiologist: Certificate #5180,
August 1971	Staff Anesthesiologist, Apollo 15 Recovery mission	US Navy, USS Okinawa Aircraft carrier
19 February 1971	Operation, Application and Maintenance of IL pH and blood gas analyzers	Instrumentation Laboratory, Inc. Boston, Massachusetts
22 April 1971	Diplomat, American Society Anesthesiologists	Board Certification #5283, American Society of Anesthesiologists
10 December 1971	Gas Chromatography Course	Sadler Research Laboratories. Philadelphia, Pennsylvania
April 1972	Staff Anesthesiologist, Apollo 16 Recovery mission	US Navy, USS Ticonderoga Aircraft carrier
27 November 1972 to 8 December 1972	Olivetti-Underwood Programma 101 Computer Course	Brooks School of Aerospace Medicine. San Antonio, Texas
13 April 1973	License # 7447	State of Arizona Medical License, Arizona State Board of Medical Examiners
1974	Exhibit: Technique for Central Venous Pressure Monitoring	28 th Postgraduate Assembly Anesthesia. New York State Society Anesthesiologists
1974	Exhibit: Technique for Central Venous Pressure Monitoring	Certificate of Merit, Annual meeting, American Medical Association
1974	Certificate of Merit	American Medical Association. Scientific Exhibit. Chicago, Illinois. For: External and Internal Jugular Vein Catheterization for Central Venous Pressure Monitoring
16-20 March 1975	Exhibit: Unique "J-wire" Technique for Central Venous Pressure Monitoring via the external jugular vein	International Research Society 49 th Congress, Hollywood, Florida
1976-1984	Certificate of Recognition	Medical Student Preceptorship Program, American Society of Anesthesiologists
1983	Distinguished Teaching Award	Anesthesia Residents, University of Utah School of Medicine. Salt Lake City, Utah
8 April 1983	Certificate of Achievement	Anesthesia Machine Technician Course. Technical Service Department. North

1984	Distinguished Teaching Award	American Drager. Telford, Pennsylvania Anesthesia Residents, University of Utah School of Medicine. Salt Lake City, Utah
1985	Outstanding Teacher Award	Anesthesia Residents, University of Utah School of Medicine. Salt Lake City, Utah
1986	Distinguished Teaching Award	Anesthesia Residents, University of Utah School of Medicine. Salt Lake City, Utah
June 1987	Distinguished Teacher Award	Anesthesia Residents, University of Utah School of Medicine, Salt Lake City, Utah
2 April 1987	License #55088	Ohio State Medical License [Expired 1995]
May-June 1987	Intensive Bioethics Course XII	Kennedy Institute Ethics, Georgetown University. Washington, D.C.
22 September 1988	Dr. WFK Morrow Memorial Lecture	Northern Ireland Anaesthesia Society. Belfast, Northern Ireland
1 April 1989-1 May 1992	Physician's Recognition Award	American Medical Association
31 October 1989.	First U.S. Visiting Professor to address the Lithuania Anesthesia Society	Lithuania Anesthesia Society. Lithuania, SSR, USSR
1990-1991	ABMS Compendium of Certified Medical Specialists	Third Edition, Volume 1, Anesthesiology
31 May 1991	Letter of Appreciation	National Naval Medical Center. Bethesda, Maryland
5 December 1992	Letter of Appreciation	Naval Readiness Center. Salt Lake City, Utah
1992	Jamie Blue Lecture	American Society of Anesthesia Technicians and Technologists Annual Meeting
1992-1993	Listed in <i>American Men & Women of Science</i>	American Society of Men & Women of Science. R.R. Bowker, 121 Chanlon Road, New Providence, New Jersey. 1992-1993. 18 th Edition, Vol. 5, pp. 1047.
15 January 1993	BOC Health Care Lecture	Association Anaesthetists Great Britain and Ireland. London, England
1993	Jamie Blue Lecture	American Society of Anesthesia Technicians and Technologists Annual Meeting
12 November 1993.	Inaugural Cecil Gray Eponymous Lecture	Tri-Service Anaesthetic Society Meeting, Royal Army Medical College. Millbank, England
1 January 1994-1 January 1997	Physicians Recognition Award	American Medical Association
1994	Exhibit "Evolution of Military Anesthesia"	Public Service Recognition Week. Military Day. Washington, D.C.
1995, 1998.	Defense Meritorious Service Medal	Department of Defense
1 November 1996 - 1 December 1999	Physician's Recognition Award	American Medical Association
1996, 1999	Listed in <i>Who's Who in America. Science and Engineering</i>	Marquis Who's Who. 4 th Ed. and 5 th Ed. 121 Chanlon Road, New Providence, New Jersey
2000	Listed in <i>Who's Who in the World</i>	Marquis Who's Who. 17 th Edition. 121 Chanlon Road, New Providence, New Jersey.
2000-2001	Listed in <i>Who's Who in the West</i>	Marquis Who's Who. 27 th Edition. 121 Chanlon Road, New Providence, New Jersey.

2001	Public Interest in Anesthesia Award	American Association of Nurse Anesthetists
April 2014	Mary Hanna Memorial Journalism Award	American Society of PeriAnesthesia Nurses, Journal of Perianesthesia Nursing, Clinical Category: First Place. Las Vegas, Nevada
18 March 2015.	Honored Lifetime Member	Covington <i>Who's Who</i> . 4601 Sheridan Street, Hollywood, Florida, 33021

VISITING PROFESSOR

<u>Date</u>	<u>Institution</u>
May 1971	Division of Anesthesiology, University of Utah. Salt Lake City, Utah
May 1975	Division of Anesthesiology, University of Utah. Salt Lake City, Utah
August 1986	Department of Anesthesiology, Scott and White Clinic. Temple, Texas
September 1986	Department of Anesthesiology, Veterans General Hospital. Taipei, Taiwan
November 1986	Department of Anesthesiology, Virginia Mason Clinic, Seattle. Washington
January 1987	Subsection of Anesthesiology, Northeast Ohio University College Medicine. Rootstown, Ohio
August 1987	Department of Anesthesiology, University of Texas Southwestern Medical School. Parkland Hospital. Dallas, Texas
October 1987	Department of Anesthesiology, Merida Huron Hospital. Cleveland, Ohio
October 1987	Department of Anesthesiology, Long Island Jewish Hospital. Long Island, New York
September 1988	Department of Anaesthesia, Royal Victoria Hospital. Belfast, Northern Ireland
April 1989	Department of Anesthesiology, Merida Huron Hospital. Cleveland, Ohio
April 1990	Department of Anesthesiology, Merida Huron Hospital. Cleveland, Ohio
April 1991	Department of Anesthesiology, Hospital Nacional de Ninos. San Jose, Costa Rica
April 1991	Department of Anesthesiology, University de Catholica de Chile Hospital. Santiago, Chile
March 1993	Whitacre Department of Anesthesiology, Merida Huron Hospital. Cleveland, Ohio
October 1994	Whitacre Department of Anesthesiology, Merida Huron Hospital. Cleveland, Ohio
December 2007-June 2007	King Hussein Cancer Center. Amman, Jordan
March 2007-June 2007	Jordan Hospital. Amman, Jordan
March 2007-May 2007	The Islamic Hospital. Amman, Jordan

PUBLICATIONS

1. **Petty WC, Karler R:** The influence of aging on the anticonvulsant activity of drugs. *Texas Reports on Biology Med* 1965;23:663
2. **Petty WC, Karler R:** The influence of aging on the activity of anticonvulsant drugs. *JPET* 1965;150:443-448
3. **Karler R, Petty WC, Sulkowski TS:** Some comparative biochemical effects of 5-substituted congeners of salicylic acid. *Arch Int Pharmacodyn Thera* 1968;173:270-280
4. **Petty C:** Let's end the cold war between surgeons and anesthesiologists. *Resident Physician* 1968;pp. 74-78 [Nov]
5. **Sulkowski TS, Petty WC, Merritt JH:** The effect of carbon dioxide anesthesia on brain 5-hydroxytryptamine metabolism in rats. *Pharmacologist* 1968;10:210
6. **Petty C:** Theories of the mechanism of action of inhalation anesthetics. *Aeromedical Review* 2-69, USAF School of Aerospace Medicine. 1969;pp. 1-35
7. **Petty WC, Hegggers JP, Shelton DF, Mendenhall MK:** Viral and bacterial contamination of multiple-dose drug vials kept in anesthesia machines. *Anesthesiology* 1969;30:465-468

8. **Smith** EB, Petty WC, Carr JS: Effect of methoxyflurane on clotting properties in the rat, dog, and man. American Society Anesthesiologists, Annual meeting Proceedings. 1969
9. **Petty** C: Letter to the Editor: Support nurse anesthetists. ASA Newsletter, Nov 1970
10. **Petty** C, Gunther RC: Anesthesia for non-facial surgery in polydysplastic epidermolysis bullosa (dystrophic). Anes Analg 1970; 49:246-250
11. **Petty** C, Gunther RC: Anesthesia for non-facial surgery in polydysplastic epidermolysis bullosa (dystrophic). Exerpa Medica. 1971;p.92
12. **Petty** WC, Mendenhall MK: Anesthesia, resuscitation and early care of wounded, use of morphine. Army Technical Bulletin. TB MED 234, Ago 3143A, 1971;pp. 1-6
13. **Kesler** MG, Petty WC: Massive blood transfusion and resuscitation in the severely injured patient. J Amer Assoc Nurse Anes 1971; 39:105-118
14. **Petty** C, Sulkowski TS: CO₂ narcosis in the rat: I Effects on respiration and blood parameters. Aerospace Med 1971; 42:547-552
15. **Petty** C, Sulkowski TS: CO₂ narcosis in the rat: II Effects on the ECG. Aerospace Med 1971;42:553-558
16. **Petty** C, Fleming WH: A simple technique for measuring lung compliance. Anes Analg 1971;50:546-547
17. **Petty** C, Taylor W: Inhalation therapy: Experience in an Army evacuation hospital in Vietnam. Mil Med 1971; 136:891-893
18. **Kapp** JP, Gielchinski I, Petty C, McClure C: An internal shunt for use in the reconstruction of dural venous sinuses. J Neurosurgery 1971; 35:351-354
19. Fleming WH, Bowen JC, Petty C: The use of pulmonary compliance as a guide to respiratory therapy. Surg Gynec Obstet 1972;134:292
20. **Petty** WC, Sulkowski TS: CO₂ narcosis in the rat. 1. Effects on respiration and blood parameters. Exerpta Medica Anes. 1972;#317
21. **Petty** C: Uptake, distribution and excretion of gaseous anesthetics. J Amer Assoc Nurse Anes 1972;40:21-41
22. **Petty** C, Sutherland Jr HC: Maintaining optimum audibility of Korotkoff sounds during blood-pressure monitoring. Anesthesiology 1972; 36:300-303
23. **Gielchinski** I, Petty C, Dierdorff S: Treatment of hemorrhagic necrosis within a pheochromocytoma with symptoms of acute abdomen. Amer Surg 1972; 38:380-384
24. Fleming WH, Petty C, Gielchinski I: The evolution of an intensive care unit in Vietnam. Amer Surg 1972;39:422-423
25. **Petty** C, Mendenhall MK: A practical approach to anesthetic management in severe trauma. J Amer Assoc Nurse Anes 1973;41:53-56
26. **Carden** WD, Petty WC: The lack of effect of lidocaine on oxyhemoglobin dissociation. Anesthesiology 1973;38:177-180
27. **Petty** C: Naloxone: a new potent narcotic antagonist. J Amer Assoc Nurse Anes 1973;41:127-137
28. **Petty** WC, Carden WD: A personal cross-reference filing system for anesthetic literature. Anesthesiology 1973;38:498-510
29. **Brown** EN, Daugherty MJ, Petty WC: Integrity of intestinal anastomoses following muscle relaxant reversal with neostigmine. Anes Analg 1973;52:117-120
30. **Counts** HK, Carden WD, Petty WC: Use of the Fluotec Mark II for Halothan-air anesthesia. Anes Analg 1973;52:181-187
31. **Petty** WC: A simple technique for inserting catheters intravenously in difficult anatomic areas. Anesthesiology 1973;39:555-556
32. **Bageant** TE, Petty C: Ketamine and the oxyhemoglobin dissociation curve. Anes Analg 1973;52:905-907
33. **Carden** WD, Petty WC, Hubbard B: The effect of premedication and angiography on arterial blood gases. Mil Med 1974;139:476-478
34. **Daubeck** JL, Daughety MJ, Petty C: Lincomycin induced cardiac arrest: A case report and laboratory investigation. Anes Analg 1974;53:563-567
35. **Petty** C, Cunningham NL: Insulin absorption by glass infusion bottles, polyvinylchloride infusion containers, and intravenous tubing. Anesthesiology 1974;40:400-404
36. **Quigley** RG, Petty C, Tobin G: Unusual placement of a central venous catheter via the internal jugular vein. Anes Anal 1974;53:478
37. **Petty** C, Carden W, Hubbard B: Anesthetic technique to simplify and improve bronchography in children. Radiology 1974;112:222
38. **Petty** C, Bageant T: In vitro manipulation of 2, 3-diphosphoglycerate levels in acid-citrate-dextrose blood with steroids. Life Science 1974;14:1279-1283
39. **Petty** C, Bageant T: The effect of morphine, meperidine, fentanyl and naloxone on the oxyhemoglobin dissociation curve. JPET 1974;190:176-179
40. **Blitt** CD, Wright WA, Petty WC, Webster TA: Central venous catheterization via the external jugular vein: A technique employing the "J-wire". JAMA 1974;229:817-818

41. **Petty WC:** Catheter placement from a different angle. *Mod Med* 1974;62:67
42. **Petty C:** Duration of action of naloxone. *Excerpta Medica. Abstracts, IV European Cong Anaes* 1974;p. 132, #298
43. **Petty C:** Needle venting of air from intravenous tubing. *Anes Analg* 1974;53:1016-1017
44. **Petty C, Bageant T:** Lack of thiopental effect on the oxyhemoglobin dissociation curve. *Anes Anal* 1974;53:817-818
45. **Wallace JE, Hamilton HE, Blum K, Petty C:** Determination of morphine in biologic fluids by electron capture gas liquid chromatography. *Annals Chemistry* 1974;46:2107-2111
46. **Petty C:** Drug waste. *JAMA* 1975;232:595
47. **Petty C, Bethlenfalvai NC, Bageant T:** Spectrophotometric measurement of hemoglobin oxygen saturation in the opossum, *Didelphis Viginiana*. *Comparative Biochemistry Physiology* 1975;50A:273-276
48. **Kloss J, Petty C:** Obstruction of endotracheal intubation by a mobile pedunculated polyp. *Anesthesiology* 1975;43:380
49. **Blitt CD, Petty WC:** Reversal of lorazepam delirium with physostigmine. *Anes Analg* 1975;54:607-608
50. **Petty C:** An alternate method for internal jugular venipuncture for monitoring central venous pressure. *Anes Analg* 1975;54:157
51. **Blitt CD, Petty WC, Wright WA, Wright B:** Clinical evaluation of injectable lorazepam as a premedication: The effect on recall. *Anes Analg* 1976;55:522-525
52. **Blitt CD, Petty WC, Albersternst EE, Wright BJ:** Correlation of plasma cholinesterase activity and duration of action of succinylcholine during pregnancy. *Anes Analg* 1977;56:78-83
53. **Petty C:** Recruiting? *American Medical Association Newsletter*. 23Jun1978
54. **Petty C, Bageant T:** Propranolol and the dissociation curve. *Anesthesiology* 1979;51:S130
55. **Petty C:** Right radial artery pressure during mediastinoscopy. *Anes Analg* 1979;58:428-430
56. **Petty C, Dunlap I:** Positive identification of the patient. *Point of View* 1980;17:10
57. **Larsen LC, Petty C:** A comparison of lidocaine and bupivacaine during general anesthesia. *J Amer Pod Assoc* 1981;71:2023
58. **Liu WS, Petty WC, Jeppsen A, Wake EJ, Pace NL:** Attenuation of hemodynamic and hormonal responses to ECT with propranolol, xylocaine, sodium nitroprusside, or clonidine *Anes Analg* 1984;63:244
59. **Petty C:** ASA preceptorship: Success in a rural setting. *Anesthesiology* 1984;60:78-79
60. **Petty C:** Anesthesiology and the prospective payment system. *Curr Rev Clin Anes* 1984;5:39-43
61. **Petty C:** Risk Management in anesthesia. *Curr Rev Clin Anes* 1984;4:127-130
62. **Petty C:** Assisting the patient receiving a regional anesthetic. *Point of View* 1984;21:16-17
63. **Petty C, Hopkins JH:** Anesthesia drugs and supplies: Calculating their cost per DRG. *Assoc Operating Room Nurses* 1984;40:606-613
64. **Petty C:** To the Editor: Pre-anesthetic form. *J Amer Assoc Nurse Anes* 1984;52:484, 501
65. **Petty C:** To the Editor: Follow up. *J Amer Assoc Nurse Anes*. 1984;52:484, 501
66. **Petty C:** Risk Management: Friend, not enemy. *West J Med* 1984;34:8
67. **Petty C:** A task-oriented anesthesia record. *J Amer Assoc Nurse Anes*. 1984;52:51-54
68. **Petty C:** A physician's perspective on allaying patient's fears. *Assoc Operating Room Nurses* 1984;40:537-542
69. **Petty C:** ASA patient safety program. *New York State Anesthesiologists Sphere* 1985;p.16 [Jan-Feb]
70. **Petty C:** Opinion: Standing orders are out. *Utah State Med Assoc Bulletin*, Nov 1985;33:2-4. In: *West J Med* 1985;143
71. **Petty C:** AMA Professional Liability Report. *ASA Newsletter* Sept 1985, p.10
72. **Petty C:** Special Issue Introduction. *Anesthesiology: The Utah Perspective*. *Utah State Medical Association Bulletin*. 1986;34:2
73. **Petty C:** Risk Management: Friend, Not enemy. *Utah State Medical Association Bulletin*. 1986;34:8
74. **Fine P, Petty C:** Myofascial trigger point pain: Diagnosis and treatment. *Curr Rev Clin Anes* 1986;7:34-39
75. **Petty C:** The role of the circulating nurse is vital in preventing aspiration pneumonia. *Point of View* 1986;23:18

76. **Petty C:** Near Misses: A fact of life. ASA Newsletter 1986;50:7
77. **Petty C:** We do need precordial and esophageal stethoscopes. J Clin Monit 1987;3:192-193
78. **Petty C:** Memorial service for Sir Ivan Whiteside Magill. 17 March 1987. London, England. Anes Hx Assoc Newsletter 1987;5:2
79. **Petty C:** Risk Management in Anesthesia: An Update. Curr Rev Clin Anes, Lesson 23, 1988;8:179-184
80. **Petty C:** Recruiting? AMA News 23 June 1988
81. **Petty C:** Risk Management in Anesthesia: An Update. Curr Rev Nurse Anes, Lesson 7, 1988;11:51-56
82. **Petty C:** Professional liability – still alive. ASA Newsletter 1988;52:7
83. **Petty C:** Guest Editorial: Cost awareness is needed for cost containment. J Amer Assoc Nurse Anes 1988;56:188-189
84. **Petty C:** Reply. J Clin Monit 1988;4:231
85. **Petty C:** Pulse oximeter – A risk management tool in the PACU. Par-aide. Utah Society Post Anes Nurses Newsletter 1988;9:1-2
86. **Petty WC:** Activity in risk management and professional liability. ASA Newsletter 1988;52:3
87. **Petty C:** Today's anaesthesia systems. In: Proceedings of Regional Seminar on Minimum Monitoring Standards and Safety in Anaesthesia and Intensive Care. Singapore. 13-14 Nov 1988A
88. **Petty C:** Risk management in anesthesia. New Zealand Anaesthetists Newsletter. Part I. 1988;3:23-26
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100. **Petty C:** Safety features of the anesthesia machine. Update on Modern Anaesthetics. An International Symposium. Proceedings. Milan, Italy. 7-9 December 1989. pp.133-137
101. **Petty C:** Risk management and minimum safety standards for the anesthesia gas machine. Abstracts. International Symposium Fur Anaestheticsia Notfall. Schmerz, und Intensivbehandlungsprobleme. St. Anton/Osterreich, Austria. 1-10 Feb 1990. Pp 49-50
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- Petty WC: Medical Gas Pipelines for Health Care Facilities and Anesthesia Machines. In: Anesthesia Equipment Manual. Ed. Sosis M. Lippincott-Raven, Philadelphia, PA. 1997;pp.63-72
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Setup and use of the Military Field Anesthesia Machine. Uniformed Services University of the Health Sciences. Bethesda, Maryland. Production identification number 503005
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 Medical Gas Pipeline Distribution Systems and Medical Gas Cylinders: How Safe Are They? Hill-Rom Medaes. Batesville, Indiana

LECTURES

<u>Date</u>	<u>Meeting</u>	<u>Subjects</u>
1965	Student Research Forum University of Texas, Galveston, Texas	Influence of aging on the anticonvulsant activity of drugs
17 May 1971	University of Utah, Salt Lake City, Utah	Uptake and Distribution of Inhalation Anesthetics Choice of anesthesia in the severely injured patient
16 July 1972	Kentucky Association Nurse Anesthetists, Park City, Kentucky	Anesthesia for trauma Narcan
March 1973	Brooke Army Medical Center, San Antonio Texas	Anesthesia for trauma
18-19 May 1974	Arizona Association Nurse Anesthetists, Casa Grande, Arizona	Small town approach to trauma Neuromuscular blockers
30-31 March 1974	New Mexico Association Nurse Anesthetists, Albuquerque, New Mexico	Pulmonary complications of severe trauma Anesthesia management and complications of burns Choice of anesthesia in the severely injured patient Massive blood transfusion for severe trauma Acute complications of severe trauma Small town approach to trauma
12-15 May 1974	University of Utah, Salt Lake City, Utah	Naloxone Anesthesia for burns
6-10 May 1979	16 th Biennial Western Conference in Anesthesia, Honolulu, Hawaii	The traumatized pediatric patient Outpatient anesthesia in a rural setting Medicolegal considerations in outpatient anesthesia

16-19 November 1979	Utah Assoc Nurse Anesthetists, St. George, Utah	Outpatient surgery Monitoring in the operating room Care of the trauma patient in a small hospital
21 October 1982	American College Veterinary Anesthesia, Las Vegas, Nevada	Immobilization of elk and moose with carfentanil
24 February 1984	Arizona Society Anesthesiologists, Scottsdale, AZ	Reducing perioperative risk in geriatric patients
10 April 1984	Utah Society Anesthesiology, Salt Lake City, UT	Risk management in anesthesia
21 August 1984	Department of Anaesthesia, Flinders Medical Center, Adelaide, S.A., Australia	Research techniques in the rat
29 September 1984	South Dakota Association Nurse Anesthetists, Fargo South Dakota	Atracurium
15 October 1984	Annual meeting, American Society Anesthesiologists	DRG's and the future of reimbursements
2 November 1984	Illinois Society Anesthesiologists, Chicago, Illinois	Risk management in anesthesia
20 March 1985	Teleconference on Atracurium, Los Angeles, California	Atracurium in outpatient anesthesia
23-25 April 1985	Biennial Western Conference Anesthesia, Maui, Hawaii	Risk management in anesthesia Government and the anesthesiologist Effect of prospective payment system and the anesthesiologist New anesthesia machines-A blessing or a liability? Anesthesia record-Use, abuse, and the future
5-6 May 1984	Idaho/Utah Association Nurse Anesthetists, Elko, Nevada	Atracurium pharmacology Atracurium-clinical application Anesthesia risk management
25 May 1985	Idaho/Utah Association Nurse Anesthetists, Pocatello, Idaho	Anesthesia for burns Anesthesia for the trauma patient Experience in Vietnam: A practical approach in massive transfusion
10-12 May 1984	South Dakota Association Nurse Anesthetists, Yankton, South Dakota	Sufentanil Prospective payment system and the nurse anesthetist
14-17 May 1985	Ogden Surgical Society, Ogden, Utah	Anesthesia and the prospective payment system Evaluation for adequate preoperative care of a surgical patient
19-22 August 1984	Annual Meeting American Association Nurse Anesthetists Anaheim, California	Update on muscle relaxants
2-4 September 1984	St. Joseph's Anesthesia Society South Bend, Indiana	Update on muscle relaxants
25 October 1985	Legal Nursing Conference, University Utah, College of Nursing Salt Lake City, Utah	Risk management in anesthesia

14-16 November 1985	Annual Conference Anaesthetists New Zealand, Auckland, New Zealand	Isoflurane-A review Safety aspects of newer anesthetic machines Comparative effects of anaesthetic drugs on the heart
5 December 1984	Risk Management Seminar, Intermountain Healthcare Inc. Salt Lake City, Utah	Quality assurance in anesthesia
10 December 1984	Reno Area Anesthesia Seminar, Reno, Nevada	Update on muscle relaxants and reversal agents
5 December 1985	Intermountain Healthcare Corporation Risk Management Seminar Salt Lake City, Utah	A Better Solution: Enhancing communication and managerial effectiveness through joint practice management intervention
11-14 December 1985	20 th Annual Convention, Philippine Society Anesthesiologists Manila, Philippines	Isoflurane-an update Edrophonium chloride
4 January 1986	144 th Evacuation Hospital, Utah National Guard, Salt Lake City, Utah	Massive blood transfusion
17 February 1986	31 st Ann Postgraduate Course Anesthesia, University of Utah Salt Lake City, Utah	Risk management in anesthesia
22 February 1986	Aultman Research Seminar, Canton, Ohio	Enlon for muscle relaxants
23 February 1986	California Association Nurse Anesthetists, San Mateo, California	Update on muscle relaxants Muscle relaxant reversal agents
7-9 March 1986	Idaho/Utah Association Nurse Anesthetists, Sun Valley, Idaho	Update on muscle relaxants Safety in anesthesia machines Reversal of muscle relaxants Pulse oximetry
21 March 1986	Fargo Anesthesia Group, Fargo, North Dakota	Update on muscle relaxants
5 April 1986	Rio Grande Valley Anesthesia Symposium, South Padre Island, Texas	Update on muscle relaxants
11-13 April 1986	Montana Association Nurse Anesthetists, Big Sky, Montana	Neuromuscular blockade Update on muscle relaxants Reversal of muscle relaxants Risk management in anesthesia Vietnam and massive transfusions Safety in anesthesia machines
25-27 August 1986	Scott & White Clinic, Temple, Texas	Update on muscle relaxants Risk management in anesthesia Safety in anesthesia machines

28 August 1986	Houston Anesthesiologists Meeting, Houston, Texas	Update in muscle relaxants
30-31 August 1986	First Anesthesia Seminar, University Kansas, Wichita, Kansas	Update in muscle relaxants
11-14 September 1986	Legal/Managerial trends in Anesthesia Practice Practice, Kiawah Island, South Carolina	Concerns about risk management Factors influencing the cost of drugs and anesthesia equipment
24-26 September 1986	Department of Anesthesiology, Veterans General Hospital Taipei, Taiwan	Edrophonium chloride Safety features of the anesthesia machine Pulse oximetry
27 September 1986	Society Anesthesiologists of the Republic of China, Taipei, Taiwan	Risk management in anesthesia
11 October 1986	New England Assembly Nurse Anesthetists, Newport, Rhode Island	Edrophonium chloride
19 October 1986	American Society Anesthesiologists, Las Vegas, Nevada	DRG's and the future of reimbursement
31 October 1986	University of Utah, College of Nursing, Salt Lake City, Utah	The legal side of nursing
5 November 1986	Virginia Mason Clinic, Seattle, Washington	Safety features of the anesthesia machine
6 November 1986	Madigan/Tacoma Anesthesia Seminar, Seattle, Washington	Update on muscle relaxants
15 November 1986	Utah Society PACU Nurses, Salt Lake City, Utah	Risk management in the recovery room
19 November 1986	Fresno Anesthesia Group, Fresno, California	Update on muscle relaxants
8-9 January 1987	Northeast Ohio University College Medicine and Aultman Hospital Canton, Ohio	Risk management in anesthesia Quality assurance in anesthesia Safety features of the anesthesia machine
21 February 1987	First Annual Intermountain Military/Civilian Trauma Conference Salt Lake City, Utah	Massive Blood transfusion: a practical approach
27 February 1987	Auckland Branch New Zealand Society Anesthetists Auckland, New Zealand	Minimal monitoring standards in the USA
1 March 1987	New Zealand Society Anaesthetists, Postgraduate Workshop Pakota Island, New Zealand	Massive blood transfusion Anesthesia for trauma
2 March 1987	Wellington Anaesthetists, Wellington, New Zealand	Pulse oximetry in anesthesia
3 March 1987	Timaru Anaesthetists, Timaru, New Zealand	Pulse oximetry in anesthesia
4 March 1987	Dunedin Anaesthetists, Dunedin, New Zealand	Pulse oximetry in anesthesia
12 March 1987	Official Unveiling of the Excel (Anesthesia Machine) Your day with Ohmeda. Tower Hotel, London, England	Minimum Monitoring in the USA

13 March 1987	Safety in Anaesthesia, Guy's Hospital, London, England	Monitoring the machinery
2 April 1987	Catholic Graduate School, Catholic Medical Hospital, Seoul, Korea	Pulse oximetry
4 April 1987	Korean Anesthesiology Association Annual Meeting, Pusan, Korea	Pulse oximetry in anesthesia
7 April 1987	Tokyo Anesthesiologists, Tokyo, Japan	Risk management in anesthesia Monitoring standards in the USA
15-16 August 1984	Department of Anesthesiology, Parkland Hospital, University of Texas Dallas, Texas	Piping systems Compressed gases Safety features of the anesthesia machine Historical development of the anesthesia machine Risk management and the anesthesia machine Carbon dioxide absorption
3 September 1987	University Texas Cancer Center, MD Anderson Hospital/Tumor Institute Houston, Texas	Risk management and the anesthesia machine
26 September 1987	Ohio Soc Anesthesiologists Annual Meeting, Columbus, Ohio	Practical aspects of massive blood transfusion
1 October 1987	Merida Huron Hospital, Cleveland, Ohio	Anesthesia for the geriatric patient
22 October 1987	Long Island Jewish Hospital, Long Island, New York	Anesthesia for the geriatric patient
8 November 1987	Hawaiian Association Nurse Anesthetists, Honolulu, Hawaii	Risk management in anesthesia Quality assurance in anesthesia Safety features of the anesthesia machine
12-14 November 1987	16 th Annual Refresher Course Nurse Anesthesia, Orlando, Florida	Risk management in anesthesia Massive blood transfusion, a practical approach Pulse oximetry: mechanisms and limitations
19 November 1987	Cleveland Clinic Association Anesthesia, Cleveland, Ohio	Anesthesia for the geriatric patient
1-5 February 1988	Biennial Western Conference Anesthesia, Maui, Hawaii	Oxygen and the anesthesia machine Exclusive contracts: One anesthesiologist's point of view Anesthesia care team: Does it work? Past and future development of the anesthesia machine Bells and chimes of the anesthesia machine: What they do and how they work
11-13 March 1988	Nurse Anesthesia Kaleidoscope, Columbus, Ohio	A new look at muscle relaxants and the use of reversal agents Anesthesia for the geriatric patient with coronary artery disease
22 September 1988	Annual WFK Marrow Memorial Lecture, Royal Victoria Hospital Belfast, Northern Ireland	History of curare Medical defense subscriptions-a solution for anaesthetists

12 October 1988	Workshop panel on anesthesia machines. ASA Annual Meeting San Francisco, California	What is an obsolete anesthesia machine?
25 October 1988	Milwaukee Society Anesthesiologists, Milwaukee, Wisconsin	Exclusive contracts: One anesthesiologist's point of view
2 November 1988	Department of Anesthesia, Norwalk Hosp, Norwalk, Connecticut	Anesthesia for the geriatric patient
11 November 1988	8 th Annual Meeting, Japan Society Clinical Anesthesia, Miyazak, Japan	Risk management and patient safety in anesthesiology: A USA perspective
13 November 1988	Regional Seminar on Minimum Monitoring Standards and Safety In Anaesthesia and Intensive Care. Singapore	Today's anesthesia systems
1 December 1988	Department of Anesthesiology, Akron Children's Hospital. Akron, Ohio	Risk management and safety features of the anesthesia machine
7 January 1989	Postgraduate Seminar Anesthesia. Miami, Florida	Safety features of the anesthesia machine Fundamentals of risk management in anesthesia
25 February 1989	Tennessee Society Anesthesiologists. Nashville, Tennessee	Anesthesia and the geriatric patient
16 March 1989	University of Birmingham Symposium: Safe Anaesthetic Practice. Birmingham, England	Risk management in anesthesia
12 April 1989	Merida Huron Hospital. Cleveland, Ohio	Risk management for anesthesia machines
14 April 1989	North Dakota Association Nurse Anesthesia. Fargo, North Dakota	Excerpts from the history of anesthesia Standards of care in the USA-How we got to where we are at
15 April 1989	Northeast Ohio Anesthesia Conference. Youngstown, Ohio	Safety features of the anesthesia machine
11 May 1989	Uniformed Services University Health Sciences. Bethesda, Maryland	Delivery of general anesthesia in the field
20 September 1989	University of Louisville. Louisville, Kentucky	Review and reversal of neuromuscular blockers
21 September 1989	Kentucky Anesthesiologists Society Annual Meeting. Louisville, Kentucky	Risk management in anesthesia
24-25 September 1989	XX Congreso Latinoamericano. Buenos Aires, Argentina	Safety features of the anesthesia machine Errors and consequences of monitoring in anesthesia
17 October 1989	Annual Meeting, American Society Anesthesiologists New Orleans, Louisiana	History of the anesthesia machine
26 October 1989	Moscow Anesthesia Society, All-Union Medical Engineering Research Institute. Timiryazevskaygl, Russia, USSR	Enhancing patient safety through the anesthesia machine
28 October 1989	Departments Anesthesia & Cardiovascular Surgery, Estonia Heart Center Tallinn, Estonia, SSR, USSR	Enhancing patient safety through the anesthesia machine
30 October 1989	Department of Anesthesia, University of Riga. Riga, Latvia, SSR, USSR	Enhancing patient safety through the anesthesia machine

31 October 1989	Lithuania Society Anesthesiologists. Vilnius, Lithuania, SSR, USSR	Enhancing patient safety through the anesthesia machine
29 November 1989	6 th ASEAN Congress Anesthesia. Manila, Philippines	Safety features of the anesthesia machine Case discussions in safety in anesthesia
9 December 1989	University Delgi Studi DiMilano. Milan, Italy	Safety requirements in anesthesia apparatus
18 January 1989	Ohio State University. Columbus, Ohio	Risk management in anesthesia
8 February 1990	International Symposium Anesthesia. St. Anton, Austria	Risk management and minimum safety standards for anesthesia gas machine
12 April 1990	Merida Huron Hospital. Cleveland, Ohio	Safety features of the anesthesia machine History of general anesthesia and muscle relaxants
15 June 1990	Third Annual Trauma Anesthesia Symposium, Baltimore, Maryland	The military field anesthesia machine
15 August 1990	Annual Meeting American Association Nurse Anesthetists Atlanta, Georgia	Safety features of the anesthesia machine
23 September 1990	Postgraduate Refresher Lectures, Eighth Asian-Australian Congress Anaesthesia. Seoul, Korea	Safety features of the anesthesia machine
26 September 1990	Eighth Asian-Australian Congress Anesthesia. Seoul, Korea	Standard specifications for minimal performance and safety requirements for components and systems of anesthesia gas machines
November 1990	School Nurse Anesthesia, National Naval Medical Center Bethesda, Maryland	The anesthesia machine
11 December 1990	Anaesthesia '90, Kensington New Town Hall. London, England	Safe practice as we see it: USA
12 December 1990	University of Nottingham. Nottingham, England	Risk management in anesthesia: USA perspective
8 January 1991	School Nurse Anesthesia, National Naval Medical Center Bethesda, Maryland	Neuromuscular blocking agents
18 January 1991	National Naval Medical Center. Bethesda, Maryland	The anesthesia machine: Part I
1 February 1991	National Naval Medical Center. Bethesda, Maryland	The anesthesia machine: Part II
14-15 February 1991	Simposid de Seguridad en Anesthesia, Sociedad Columbiana de Anesthesiologia Y Reminacion. Bogota, Columbia	Risk management in anesthesia Safety features of the anesthesia machine History of the development of the anesthesia machine, where we are going in the future
3 April 1991	Hospital R.A. Calderon Guarida. San Jose, Costa Rica	Safety features of the anesthesia machine
4 April 1991	Hospital Mexico. San Jose, Costa Rica	Safety features of the anesthesia machine

4 April 1991	Hospital Nacional de Nino, San Jose, Costa Rica	Safety features of the anesthesia machine
4 April 1991	Society Anesthesia Costa Rica. San Jose, Costa Rica	Risk management in anesthesia History of the development of the anesthesia machine
5 April 1991	Hospital San Juan de Dios. San Jose, Costa Rica	Safety features of the anesthesia machine
13 April 1991	Seventh Annual Cherry Blossom Anesthesia Conference. Washington, D.C.	Safety features of the anesthesia machine
24 April 1991	Northern Region, Society Chilean Anesthesiologists. Antofagasta, Chile	Safety features of the anesthesia machine
25 April 1991	Soterodel Rio Hospital. Santiago, Chile	Safety features of the anesthesia machine
25 April 1991	University Catholica de Chile Hospital. Santiago, Chile	Safety features of the anesthesia machine
26 April 1991	Southern Region, Society Chilean Anesthesiologists. Sociedad Medica Cautin. Temuco, Chile	Safety features of the anesthesia machine
27 April 1991	Dr. Alejandro del Rio Memorial Lecture Symposium. Sobre La Maquina de Anes. Society Chile Anesthesia. Santiago, Chile	Safety features of the anesthesia machine History of the anesthesia machine Risk management in anesthesia
29 April 1991	National Naval Med Center. Bethesda, Maryland	Risk management in anesthesia
4 May 1991	Fourth Annual Trauma Symposium. Baltimore, Maryland	The military field anesthesia machine
14 May 1991	National Naval Med Center. Bethesda, Maryland	History of anesthesia
23 November 1991	23 rd Congreso Argentio de Anestesiologia. Mar del Plata, Argentina	Safety in anesthesia
16-19 February 1992	CRASH '92, University of Colorado. Vail, Colorado	Safety features of the anesthesia machine History of the anesthesia machine Interaction between the anesthesiologist and the machine Anesthesia safety Monitoring the anesthesia machine
27-28 March 1992	8 th Annual Cherry Blossom Anesthesia Conference. Washington, D.C	Risk management in anesthesia Monitoring the anesthesia machine
11-12 September 1992	Wisconsin Society Anesthesiologists. Oshkosh, Wisconsin	Safety features of the anesthesia machine Risk management in anesthesia
12-13 September 1992	2 nd Annual Anesthesia Technicians Seminar. Oshkosh, Wisconsin	History of anesthesia machines Trouble shooting the anesthesia machine Pre-anesthesia checkout of the anesthesia machine Risk management of the anesthesia machine

3 October 1992	Fall Meeting, California Association Nurse Anesthetists San Francisco, CA	Safe anesthesia machine: Part I Safe anesthesia machine: Part II
18 October 1992	Annual Meeting, ASATT. New Orleans, Louisiana	Risk management and the anesthesia machine
11-14 November 1992	VIII Curso Internacional de Anesthesiologic Sociedad de Anesthesiologic de Sociedad, Equatoriana de Anesthesia. Quito, Ecuador	Safety in anesthesia Risk management in anesthesia Safety features of the anesthesia machine: Parts I, II
15 January 1993	Association Anaesthetists Great Britain & Ireland, Annual Meeting London, England	Risk management in anesthesia
17-19 February 1993	CRASH'93, University of Colorado. Vail. Colorado	Risk management in anesthesia Safety features of the anesthesia machine Responding to emergencies: Trouble shooting and problem solving in the operating room: Part I Responding to emergencies: Trouble shooting and problem solving in the operating room: Part II
11 March 1993	Merida Huron Hospital. Cleveland, Ohio	The anesthesia machine Risk management
23 March 1993	Military Anesthesia Symposium. San Diego, California	Field anesthesia machines: Present and future
15 Apr 1993	Uniformed Services University Health Sciences. Bethesda, Maryland	New horizons in anesthesia equipment
17 April 1993	Anesthesia Technician Seminar. Syracuse, New York	Risk management and the anesthesia machine
10-13 May 1993	44 th Military Medical/Surgical Clinical Congress. Willigen, Germany	Risk management in anesthesia Safety features of the anesthesia machine What's happening with military anesthesia machines?
21 May 1993	6 th Annual Trauma Anesthesia Symposium. Baltimore, Maryland	Field anesthesia machines: Past and present
28 July 1993	Georgetown University Medical Center. Washington, D.C.	Future anesthesia machines
24-28 August 1993	8 th ASEAN Congress of Anesthesia. Bali, Indonesia	Safety in anesthesia Risk management in anesthesia Safety features of the anesthesia machine
28 August 1993	Townsville Anaesthesia Group. Townsville, Australia	Safety features of the anesthesia machine Risk management in anesthesia Safety in anesthesia
31 August 1993	Queensland Anaesthesia Society. Brisbane, Australia	Safety features of the anesthesia machine
1 September 1993	New South Wales Anaesthesia Society. Sydney, Australia	Safety features of the anesthesia machine

19-23 September 1993	First American-Hungarian Conference of Military Medicine Balaton, Hungary	Safety features of the anesthesia machine Risk management in anesthesia Future anesthesia machines and the military field anesthesia machine
9 October 1993	ASATT 4th Annual Meeting. Washington, D.C.	Anesthesia machines
5-6 November 1993	Illinois Society of Anesthesia Technologists, Chicago, Illinois	Risk Management and the Anesthesia Machine
12 November 1993	Third Tri-Service Anaesthesia Society. Millbank, England	The United States military anesthesia machine: History, present, and future
17 November 1993	George Washington University Medical Center. Washington, D.C.	The anesthesia machine: Then, now and the future
24 January 1994	Portsmouth Naval Hosp. Portsmouth, Virginia	Safety features of the anesthesia machine
8 February 1994	Wilford Hall Air Force Medical Center. San Antonio, Texas	Safety features of the anesthesia machine
9 February 1994	Brooke Army Medical Center. Ft. Sam Houston, Texas	Military field anesthesia machine
27 February 1994	CRASH '94, University of Colorado. Vail, Colorado	Safety features of the anesthesia machine Responding to emergencies: Trouble shooting and problem solving in the operating room
8 March 1994	Navy Anesthesia Society. Orlando, Florida	Field anesthesia machine issues
10 March 1994	Walter Reed Army Medical Center. Washington, D.C.	Safety features of the anesthesia machine
25 March 1994	10 th Cherry Blossom Anesthesia Conference. Washington, D.C.	The evolution of anesthesia safety
14 April 1994	Madigan Army Medical Center. Ft. Lewis, Washington	Safety features of the anesthesia machine Risk management in anesthesia Military field anesthesia machines: Now and the future
16 April 1994	ASATT, Region 7. Bellevue, Washington	The past, present, and future of anesthesia machines
18 April 1994	National Naval Medical Center. Bethesda, Maryland	Risk management in anesthesia
27 July 1994	14 th Annual Seminar, Colby College. Waterville, Maine	Risk management in anesthesia Preventable accidents involving anesthesia machines
16 August 1994	61 st Annual Meeting American Association Nurse Anesthetists Washington, D.C.	Adaptation of anesthesia technology to Third World countries
16 October 1994	5 th Annual Meeting ASATT. San Francisco, California	The critical trilogy
27 October 1994	Merida Huron Hospital. Cleveland, Ohio	Safety features of the anesthesia machine History of anesthesia machines
10 November 1994	Collegium Aesculapium. Honolulu, Hawaii	Recent advances in anesthesiology

3-8 March 1994	CRASH '94, University of Colorado. Vail, Colorado	Evolution of anesthesia monitors Medical gases: How safe are they? Trouble shooting the anesthesia machine in the OR
18-21 March 1994	Northwest Anesthesia Seminars. Atlanta, Georgia	The anesthesia machine: How safe are they? The anesthesia machine: Safety 1995 Trouble shooting the anesthesia machine Anesthesia in austere conditions Risk management: Where are we? How did we get there?
28 March 1995	Thailand Society Anesthesiologists. Bangkok, Thailand	Medical gases, hospital pipelines, medical gas cylinders: Are they as safe as we think they are?
29 March 1995	Malaysia Society Anesthesiologists. Kuala Lumpur, Malaysia	Medical gases, hospital pipelines, medical gas cylinders: Are they as safe as we think they are?
30 March 1995	Singapore Society Anesthesiologists. Singapore	Medical gases, hospital pipelines, medical gas cylinders: Are they as safe as we think they are?
31 March 1995	Madras Society Anesthesiologists. Madras, India	Medical gases, hospital pipelines, medical gas cylinders: Are they as safe as we think they are?
1 April 1995	New Delhi Society Anesthesiologists. New Delhi, India	Medical gases, hospital pipelines, medical gas cylinders: Are they as safe as we think they are?
11 May 1995	Anesthesia and Critical Care. Baltimore, Maryland	Hands-on workshop on the military field anesthesia machine
21 October 1995	Annual Meeting, American Society Anesthesia Technicians Technicians & Technologists. Atlanta, Georgia	Trouble shooting the anesthesia machine: An interactive approach
23 October 1995	Annual Meeting, American Society of Anesthesiologists Atlanta, Georgia	Working Group on Technology: Medical Gas Vacuum Systems
22 January 1996	Senior Biology Seminar, Southern Utah University. Cedar City, Utah	Roots of anesthesia in biology
20-24 February 1996	Anesthesia Summit 1996. Park City, Utah	Evolution of physiological monitors Risk management: Where are we? How did we get here? Trouble shooting the anesthesia machine in the OR Medical gas supplies: Pipelines and gas cylinders: How safe are they?
2-3 March 1996	CRASH '96, University of Colorado. Vail, Colorado	The history of inhalation anesthesia Machine fundamentals and trouble shooting Anesthesia under austere conditions: What if you are invited to go along?
19 April 1996	12 th Cherry Blossom Anesthesia Conference. Washington, D.C.	The history of safety in anesthesia
5-9 May 1996	Northwest Anesthesia Seminars. Scottsdale, Arizona	The history of safety in anesthesia

		Risk management: Where are we? How did we get there? Trouble shooting the anesthesia machine in the OR
15 September 1996	Northwest States Anesthesia Conference. Coeur d'Alene, Idaho	Trouble shooting the anesthesia machine in the OR
19 October 1996	American Society of Anesthesia Technologist and Technicians New Orleans, Louisiana	Trouble Shooting the Anesthesia Machine
20 October 1996	Annual Meeting, ASATT. New Orleans, Louisiana	Trouble shooting the anesthesia machine in the OR
22 October 1996	Annual Meeting, American Society Anesthesiologists. New Orleans, Louisiana	Workshop on the anesthesia machine: Structure, function, and troubleshooting
1-4 March 1997	CRASH '97, University of Colorado. Vail, Colorado	The evolution of safety in anesthesia Trouble shooting the anesthesia machine in the OR
7-9 March 1997	Arkansas Nurse Anesthetists Meeting. Hot Springs, Arkansas	A visitor from the past Evolution of physiological monitors Trouble shooting the anesthesia machine in the OR Safety features of the anesthesia machine Medical gas supplies: How safe are they? Risk management 1997: Then where?
14 March 1997	7 th Annual Navy Anesthesia Society Symposium. San Francisco, California	The new military field anesthesia machine: What will it be like?
2-4 April 1997	Northwest Anesthesia Seminars. Las Vegas, Nevada	Trouble shooting the anesthesia machine in the OR Medical gas supplies: Pipelines and gas cylinders: How safe are they? The evolution of physiologic monitoring Risk management: Where are we? How did we get there?
18 May 1997	Oregon Society Anesthesiologists. Gleneden Beach, Oregon	Trouble shooting the anesthesia machine
25 May 1997	Veterans General Hospital, Department of Anesthesia. Taipei, Taiwan	Vaporizers: History, standards, maintenance
26 May 1997	National Taiwan General Hospital, Department of Anesthesia Taipei, Taiwan	Vaporizers: History, standards, maintenance
29 May 1997	Thailand Society Anesthesiologists. Bangkok, Thailand	Vaporizers: History, standards, maintenance
30 May 1997	Chiengmal Society Anesthesiologists. Chiengmal, Thailand	Vaporizers: History, standards, maintenance
31 May 1997	Kuala Lumpur Society Anesthesiologists. Kuala Lumpur, Malaysia	Vaporizers: History, standards, maintenance
18 October 1997	ASATT Annual Meeting. San Diego, California	Trouble shooting the anesthesia machine Awareness under anesthesia
1-7 November 1997	Northwest Anesthesia Seminars. Baja, Mexico	Medical gas supplies: How safe are they? The anesthesia machine: Yesterday and tomorrow

		Evolution of physiological monitors Early history of inhalation anesthesia Trouble shooting the anesthesia machine More challenges in trouble shooting Anesthesia in austere conditions Risk management: Where are we now? How did we get here?
27 January 1998	Tripler Army Medical Center. Honolulu, Hawaii	Awareness under anesthesia
28 February-6 March 1998	CRASH '98, University of Colorado. Vail, Colorado	Anesthesia equipment: Trouble shooting Principles of operations and preventive maintenance of vaporizers Carbon dioxide absorption Changing faces of risk management in anesthesia
6-7 June 1998	ASATT, Region 2. Anesthesia Technicians Seminar Pittsburgh, Pennsylvania	Trouble shooting the anesthesia machine History of inhalation agents
16-19 August 1998	Northwest Anesthesia Seminars. San Diego, California	The new anesthesia machines for '98 Trouble shooting the anesthesia machine Think you are burning out? Let's talk "Vietnam Doc": Anesthesia for trauma Anesthetic agent monitoring: "Should" to "Shall": The 1998 standards of the ASTM
17-18 August 1998	Department Anesthesia, Naval Hospital. San Diego, California	Trouble shooting the anesthesia machine
19-22 September 1998	Clinical Update, Northwest Anesthesia Seminars. Lake Geneva, Wisconsin	Medical gas supplies: How safe are they? The anesthesia machine: Yesterday and tomorrow Evolution of physiological monitors The anesthesia machine: How did we get here? Risk management: Where are we now? How did we get here?
9-11 October 1998	Florida Association Nurse Anesthetists. Safety Harbor, Florida	Hands-on workshop: Troubleshooting anesthesia machines
8-13 November 1998	Anesthesia Update, Northwest Anesthesia Seminars Nuevo Vallarta, Mexico	New anesthesia machines: An update CO2 absorption: A review and recent advances Trouble-shooting the anesthesia machine "Vietnam Doc": Anesthesia for trauma Legal cases: who won? The changing faces of risk management
18-21 November 1998	Third Central American Conference of Anesthesiology. Resuscitation and Treatment of Pain. San Jose, Costa Rica	Workshop: Anaesthetic equipment Risk management in anesthesia Awakening during anesthesia Complications arising from anaesthetic equipment
30 November-4 December 1998	Anesthesia Jackpot, Northwest Anesthesia Seminars. Las Vegas, Nevada	Anesthetic agent monitoring: "Should" to "Shall" AIMS: Australia's voluntary anesthesia incident study: What does it mean to

		us? "Vietnam Doc": Anesthesia for trauma Carbon dioxide absorption: A review and recent advances New anesthesia machines: An update Trouble shooting the anesthesia machine The changing faces of risk management
27 February-5 March 1999	CRASH '99, University of Colorado. Vail, Colorado	Awareness during anesthesia Flowmeters: Past and present Machine checkout and troubleshooting Compressed gases-physics/pipelines
22 March 1999	British Oxygen Company. Murray Hill, New Jersey	Oxygen
28-31 March 1999	Anesthesia Update, Northwest Anesthesia Seminars. Panama City, Florida	Medical gas supplies: How safe are they? Carbon dioxide absorption: New questions, new answers Trouble shooting the anesthesia machine Anesthetic agent monitoring: "Should" to "Shall" "Vietnam Doc": Anesthesia for trauma Think you are burning out: Let's talk Legal cases: Who won? The changing faces of risk management
1 April 1999	Staff, Hill-Rom Medaes. Norcross, Georgia	Medical gases, hospital pipelines, and medical gas cylinders: How safe are they?
6-9 April 1999	Winning Topics '99, Northwest Anesthesia Seminars. Las Vegas, Nevada	Legal case review: Who won? New anesthesia machines: An update Trouble shooting the anesthesia machine Medical gas supplies: How safe are they? The changing faces of risk management
23 June 1999	Hospital Engineers and Anesthesiologists. Cairo, Egypt	Piped medical gas distribution systems and medical gas cylinders: how safe are they?
26-29 August 1999	Summer Anesthesia Update, Northwest Anesthesia Seminars San Diego, California	New anesthesia machines: An update Medical gas supplies: How safe are they? Trouble shooting the anesthesia machine Legal case reviews: Who won? The changing faces of risk management
1-3 October 1999	Rocky Mountain Update. Colorado State Society Nurse Anesthetists Steamboat Springs, Colorado	Malpractice issues Trouble shooting the anesthesia machines Awareness during anesthesia Risk management: Where are we going? Carbon dioxide absorption Medical gas pipelines: How safe are they?

9-10 October 1999	ASATT 10 th Anniversary, Annual Meeting. Dallas, Texas	Fire in the operating room Motivational talk
18 October 1999	U.S. Army Nurse Anesthetists School. Ft. Sam Houston, Texas	History of the field anesthesia machine Workshop on the anesthesia machine
24-28 October 1999	4 th Annual Reviews in Anesthesia, Northwest Anesthesia Seminars Scottsdale, Arizona	Risk management in anesthesia: How did we get here? Risk management in anesthesia; Where are we going? Evolution of physiological monitors Trouble shooting the anesthesia machine Medical gas pipelines & compressed gas cylinders: How safe are they? Burnout of the anesthesia provider Legal case review: Who won?
11 November 1999	Southern Utah University/Weber Combined RN/BS Nursing Program Cedar City, Utah	Blood and transfusion
4-10 March 2000	CRASH 2000. University of Colorado, Vail, Colorado	Anesthesia machine checkout Fire in the operating room Carbon dioxide Anesthesia incident monitoring study of Australia vs. the Closed Claim Project of the ASA
12 April 2000	Department of Anesthesiology, University of Utah. Salt Lake City, Utah	History of safety in anesthesia Vietnam Doc
20-22 October 2000	Issues in Anesthesia and Critical Care. Colorado Springs, Colorado	Awareness under anesthesia Burnout Malpractice in anesthesia Trouble shooting the anesthesia machine: Part I Trouble shooting the anesthesia machine: Part II
14 November 2000	Tripler Army Medical Center. Honolulu, Hawaii	Awareness under inadequate anesthesia
5 December 2000	Tripler Army Medical Center. Honolulu, Hawaii	Vietnam Doc
12-14 January 2001	38 th Annual Postgraduate Seminar Anesthesia. Ft. Lauderdale, Florida	Trouble shooting the anesthesia machine Malpractice in anesthesia Awareness under anesthesia
10-12 February 2001	CRASH 2001, University of Colorado. Vail, Colorado	Carbon dioxide absorption Compressed medical gases Anesthesia machine difficulties (workshop)
3 March 2001	Virginia Association Nurse Anesthetists. Richmond, Virginia	Trouble shooting the anesthesia machine in the operating room
5-6 May 2001	Kansas State Society of Nurse Anesthetists	Trouble shooting the Anesthesia Machine Risk Management: How did we get there?

		Risk Management: Where are we going? Burnout
September 2001 to September 2003	Muhimbili University School of Medicine, Dar Es Salaam, Tanzania	Multiple lectures on Anesthesia Subjects to Anesthesia Residents
September 2001 to September 2003	Hospitals and Schools in Tanzania, Uganda, Ethiopia, Kenya, and South Africa	Apollo 15 and Apollo 16 Recovery Missions
2004-2012	Church groups in Jordan, Tanzania, and Ethiopia	Apollo 15 and Apollo 16 Recovery Missions
2004-2012	Egypt, Jordan, Ethiopia, Angola, Namibia, Lesotho, Botswana, Swaziland, Lebanon, Rwanda, Tanzania, Mozambique, Morocco	Conducted Neonatal Resuscitation Training Programs for nurses, midwives, and physicians
19-22 March 2007	First Annual Forum for Healthcare Quality Professionals in the Arab World Sharm Al Sheikh, Egypt	Risk Management
4 April 2007	25 th Anniversary, Islamic Hospital. Amman, Jordan	Risk Management
22 April 2008	Second International Jordan Nursing Council, Nursing Council Amman, Jordan	Improvement in Resuscitation Knowledge after a Two-day Neonatal Resuscitation Program in the Royal Medical Services
30 June 2014	Church Fireside. Single Adults. Cedar City, Utah	Neonatal Resuscitation Training Program
16 March 2007	Ground Rounds. King Hussein Cancer Center. Amman, Jordan	Fire in the Operating Room Early History of Inhalation Anesthetics
7 March 2007	Ground Rounds. King Hussein Cancer Center. Amman, Jordan	15 Apollo and Apollo16 Recovery Missions
11 April 2014	Church Fireside. Flagstaff, Arizona	Neonatal Resuscitation Training Initiative
February 2007	Ground Rounds. King Hussein Cancer Center. Amman, Jordan	Risk Management
4 May 2007	6 th National Congress, Jordan Society Anaesthesia. Amman, Jordan	Developing a Policy & Procedure Manual ASA Closed Claims Project
October 2007	ASATT Annual Meeting	Trouble Shooting the Anesthesia Machine
20 March 2011	Church Fireside. Benal Building. San Jose, California	Adventures in Africa
18 Oct 2008	ASATT Annual Meeting. Florida	Trouble Shooting the Anesthesia Machine Fire in the Operating Room
15-19 October 2009	20 th Annual ASATT Educational Conference	Hand hygiene for the Anesthesia Technician
14 May 2010	AVANA Annual Meeting. Minneapolis, Minnesota	What is the reason we wash our hands?
7 February 2011	Southern Calif. Patient Safety Collaborative	Hand Hygiene – Science or Fiction?

	Industry Hills, California	
21 November 2011	Nutrition Meeting. Southern Utah University. Cedar City, Utah	Nutrition in Western Africa
5 June 2012	Patient Safety First Central Valley Regional Meeting Visalia, California	Patient Safety is impaired by Burnout
17 April 2012	BEACON Multidisciplinary Collaboration Meeting San Mateo, California	Hand Hygiene: Science or Fiction?
Winter Semester 2013 Spring Semester 2014 Winter Semester 2014 Spring Semester 2015 Winter Semester 2015 Spring Semester 2016	History of Medicine Seminar (12 lectures)	Southern Utah University, Cedar City, Utah
Spring Semester 2014	Medical Ethics Seminar [8 lectures]	Southern Utah University, Cedar City, Utah
18 April 2014	Church Fireside on Neonatal Resuscitation Training	Flagstaff, Arizona
4 October 2015	Anesthesia in Vietnam-A Personal Experience Ten Years Teaching Neonatal Resuscitation in Africa and the Middle East	Minnesota Association of Nurse Anesthetists Minneapolis-St. Paul, Minnesota
26 October 2015	History of Medicine – Introduction	Snow College, Ephraim, Utah
27 October 2015	History of Medicine – Introduction	Utah State University, Eastern Campus, Price, Utah
10 April 2016	Snippets from the History of Medicine	Snow College, Ephraim, Utah
11 April 2016	Snippets from the History of Medicine	Utah State University, Eastern Campus, Price, Utah
Bi-Yearly Lecture	History of Medicine Subject	Snow College, Ephraim, Utah
Frequently	Apollo 15-16, Vietnam Doc, Neonatal Resuscitation Training	Church and School Groups