

Director, Force Science Institute, Ltd.
124 East Walnut Street, Suite 120
Mankato, MN 56001
T: 507-387-1290, F: 507-387-1291

EDUCATION

Ph.D. **Psychology:** Union Institute and University, Cincinnati, Ohio (1988).
Concentration: Police Psychology
Dissertation: "Calm in the Face of Death: A Training Program for Maximizing Performance in Crisis Decision Making"
Internship: "Behavioral Science Unit," Tucson Police Department

Other Graduate Study: University of Vermont
University of Ottawa
Alfred Adler Institute (Chicago)
Minnesota State University, Mankato

M.A. **Counseling:** University of Arizona, Tucson, Arizona (1979)
Thesis: "An Alternative Explanation for the Stockholm Syndrome"

B.A. **Psychology and Sociology:** Lakehead University, Thunder Bay, Ontario, Canada (1967)

PREVIOUS RELEVANT EMPLOYMENT

Chair - Political Science/Law Enforcement Department
Professor/Director - Law Enforcement Program
Consultant and Trainer - Law Enforcement
Hostage Situations
Martial Arts

Clinical Psychologist
Consulting Psychologist
Justice of the Peace

HONORS AND SPECIAL AWARDS

- May 2013 – Appointed as a member of the **Visiting and Collaborative Graduate Faculty** at Minnesota State University Mankato
- April 2013 – The Lewinski Lecture Series, "**Dissecting Law Enforcement Decision Making: How Science is Revolutionizing the Analysis of Officers' Actions**" Sponsored by Minnesota State University Mankato: College of Social and Behavioral Sciences, Mankato, MN
- **Faculty Emeritus**, Minnesota State University, 2010 – Present
- Appointed by New York Governor David Paterson to be an advisor/consultant to the **New York State Police-On-Police Shootings Task Force** focusing on Trends in Fatal Mistaken Identity, 2009-2010
- **2004 Distinguished Professor in the College of Social and Behavioral Sciences at Minnesota State University**
- **The Best of the Police Marksman, Volume II – 1995 to 2000**, authored by Connie Adams (2002), featured two articles entitled "Why Is The Suspect Shot In The Back? Finally, Hard Data On How Fast The Suspect Can Be - In 11 Different Shooting Scenarios" and "The Suspect is Shot in the Back - Is Your Shooting Clean?" (pp. 239-250)

- **National Commission On Law Enforcement Integrity**, Appointed in 2001. Chair of the section on Lethal Force
- **National Advisory Board**, Police Marksman Magazine, 2001
- **Appointment to the Community Mental Health, Peace Officer Advisory Board by the MN Commissioner of Public Safety**, 2001
- **The Royal Canadian Mounted Police Commanding Officer's Certificate**, For assistance rendered to the R.C.M.P. under exceptional circumstances
- **Pima County (Tucson) Attorney's Victim/Witness Program**, Service Award
- **International Association of Women Police**, Service Award
- **Mankato State University**, Service Award
- **Minnesota Association of Law Enforcement Firearms Instructors**, Honorary Lifetime Membership
- **Task Force on Families of Catastrophe**, Invited to join the *Task Force to advise the U.S. State Department and the White House* regarding American hostages in Iran. Crisis resolved before formal activity on Task force was initiated.
- **World Conference on Police Psychology**, Invited to Attend FBI Academy, Quantico, Virginia, December 1985. Main focus was on how the behavioral sciences could assist law enforcement agencies in fulfilling their operational missions.
- **Justice of the Peace**, Legislative nomination and approval, *Province of Manitoba, Canada*. Nomination and appointment, Lieutenant-Governor of Canada in the name of Her Majesty, Queen Elizabeth the Second.

EMPLOYMENT

FULL TIME

2003-Present	Director - Force Science Institute, Ltd.
2007-2010	Full-Time Release from Minnesota State University to do research and direct research institute
1997-1998	Chair - Political Science/Law Enforcement Department , Fifteen faculty, combined student population of 850 students including undergraduate and graduate majors in law enforcement, political science, paralegal, and public administration
1987-1992	Director - Law Enforcement Program , Mankato State University, Mankato, Minnesota - 450 majors and 100 minors in program - Largest, highest standing, four-year law enforcement and/or criminal justice degree program in the State of Minnesota - Developed an applied research/consultation institute at Mankato State University - Developed an integrated clinical program resulting in a four year law enforcement degree and a police officer licensure program in Minnesota
1981-2011	Professor - Law Enforcement Program , Minnesota State University Mankato, Mankato, MN - Teach Police Psychology (Police Stress, Crisis Intervention (PERP), and Sex Crimes Investigation) - Teach Police Tactics (Tactical Communication)
1979-1981	Developmental Disabilities Coordinator - Blue Earth County Human Services, Mankato, MN Therapist - Blue Earth County Human Services, Mankato MN Teacher/Therapist - Blue Earth County, Family and Marriage Education Center, Mankato, MN
1973-1978	Psychologist - Child Development and Support Services, Manitoba Department of Education, Winnipeg, Manitoba, Canada

- 1970-1973 **Clinical Psychologist** - Society for Crippled Children and Adults of Manitoba, Winnipeg, Canada
Consultant, Winnipeg Association for the Mentally Retarded, Canada
- 1968-1969 **High School Teacher** to emotionally disturbed, learning disabled students, Thunder Bay, Ontario, Canada (English, mathematics, geography, physical education)
- 1967 **Head Instructor** - Open Arms Day Care Center for adults who are developmentally disabled, Mankato, MN
- PART-TIME**
- 2002- 2010 **Executive Director – Force Science Institute, Ltd.** A research and consulting business.
- 1997- 2000 **Co-Director - Complaint Institute** - This is a unique coalition with MSUM, William Mitchell Law School and the Law Enforcement Minority Relations Steering Committee (Supreme Court Task Force.) We developed an institute in cooperation with the minority communities in Minnesota to provide a two-week certification course for Internal Affairs Investigators. We received federal and state grants totaling over \$70,000 and ran three courses in 1998 and one in 1999. We also ran three supervisory courses in this time for department administrators.
- 1990-1993 **Staff Member** - Minneapolis Police Department Academy, Minneapolis, MN
- 1982-present **Consultant in Law Enforcement**
- 1981-1984 **Presenter/Therapist** - Blue Earth County Family Education Center, Mankato, MN
- 1980-present **Founder, Chief Instructor** - Mankato Goju-Kai Karate-Do Club, Minnesota State University, Mankato, MN (**Regional Director, and Member of the National Board of Examiners, Goju-Kai Karate-Do, USA.**)
- 1979-1982 **Consultant-Hostage Negotiations** - Southwest Security and Management Training, Tucson, AZ
- 1979 **Adjunct Faculty** - Psychology Department, Pima Community College, Tucson, AZ
- 1978 **Consultant** - *Royal Canadian Mounted Police*, Manitoba, Canada. 100 plus hours of negotiation and consultation
- 1971-1972 **Unarmed Combat Instructor** - *Queen's Own Cameron Highlanders of Canada*, Winnipeg, Manitoba, Canada

PEER REVIEWED CONFERENCES/PRESENTATIONS:

- March 2012 **“Witnesses in Action: The Effect of Physical Exertion on Recall and Recognition”** *American Psychology – Law Society Conference*, presented by Lorraine Hope, San Juan, Puerto Rico.
- March 2010 **“Weapon Focus in Elite and Rookie Police Officers”** *American Psychology - Law Society Conference*, AP-LS is Division 41 of the American Psychological Association, presented by Joan Vickers, Vancouver, Canada
- September 2009 **“Police Officers’ Gaze Behaviors and Shooting Performance During a Live Force on Force Encounter”** Invited presenter, presented with Joan Vickers, *Fourth International Conference on Space and Cognition: Spatial Cognition and Action*, Rome, Italy
- September 2004 **“Lethal Force Encounters – Yet Another Opportunity for Engineering Education”** *American Society for Engineering Educators, International Colloquium*. Beijing, China (Chinese Academy of

Engineering, National Science Foundation of China & Tsinghua University) – paper accepted and invitation extended.

- June 2004 **“Lethal Force Encounters – Yet Another Opportunity for Engineering Education”** *American Society for Engineering Educators*. Salt Lake City, UT
- March 2004 **“Perception and Reaction Factors in Lethal Force Encounters - Tempe Study, A Compilation of Four Studies”** *Academy of Criminal Justice Sciences*. Las Vegas, NV (with William Hudson, Sgt. Craig Stapp & Tamara Wilkins)
- January 2004 **“Biomechanics of Lethal Force Encounters - Action/Reaction Parameters”** *American Society of Law Enforcement Trainers*. St. Louis, MO
- March 2003 **“Biomechanics of Lethal Force Encounters, Officer’s and Subject’s Movement and Speed – A Compilation of Three Studies”** *Academy of Criminal Justice Sciences*. Boston, MA (with Tamara Wilkins)
- January 2003 **“Biomechanics of Lethal Force Encounters”** *American Society for Law Enforcement Trainers*. Ontario, CA
- March 1992 **“Clinical Education in Law Enforcement”** Chaired a roundtable. *Academy of Criminal Justice Sciences*, Cincinnati, OH
- March 1986 **“The Use of Psychological Power in Hostage Situations”** *Academy of Criminal Justice Sciences*, Orlando, FL
- March 1983 **“Managing Hostage Situations In Small Towns and Rural Areas”** *Academy of Criminal Justice Sciences*, San Antonio, TX
- March 1982 **“Profiling for Effective Negotiation Strategies in Hostage Situations”** *Academy of Criminal Justice Sciences*, Louisville, KY
- June 1980 **“More On The Stockholm Syndrome”** An Adlerian Perspective and Elaboration on Hostage Situations and Victim Trauma, *North American Society of Adlerian Psychology*, Amherst, MA
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PEER REVIEWED ARTICLES

- Lewinski, W., Hudson, W., & Dysterheft, J., (2013). Police Officer Reaction Time to Start and Stop Shooting: The Influence of Decision-Making and Pattern Recognition. *Law Enforcement Executive Forum*, October, 14(2), 1-6
- Dysterheft, J., Lewinski, W., Seefeldt, D., Pettitt, R. (2013, Approved for Publication). The Influence of Start Position, Initial Step Type, and Usage of a Focal Point on Sprinting Performance. *International Journal of Exercise Science*.
- Lewinski, W., Dysterheft, J., Seefeldt, D., & Pettitt, R. (2013, March). The Influence of Officer Positioning on Movement During a Threatening Traffic Stop Scenario. *Law Enforcement Executive Forum*.
- Hope, L., Lewinski, W., Dixon, J., Blocksidge, D., & Gabbert, F. (2012). Witnesses in Action: The Effect of Physical Exertion on Recall and Recognition. *Psychological Science Journal*, article in press.
- Vickers, J., & Lewinski, W. (2012). Performing Under Pressure; Gaze Control, Decision Making & Shooting Performance of Elite and Rookie Police Officers. *Human Movement Science Journal*, 31, 101-117.
- Lewinski, W., Hudson, W., Karwoski, D., & Redmann, C. (2010). Fired Cartridge Case Ejection Patterns from Semi-Automatic Firearms. *Investigative Sciences Journal*, 2, (3), 1 - 32.

- Sztajnkrycer, M., Lewinski, W., & Buhrmaster, S. (2010, May). Leave No One Behind: Downed - Officer Rescue and Risk Perception. *FBI Law Enforcement Bulletin*.
- Lewinski, W., & Redmann, C. (2009, October). New Developments in Understanding the Behavioral Science Factors in the “Stop Shooting” Response. *Law Enforcement Executive Forum*.
- Lewinski, W. (2008, December). The Attention Study: A Study on the Presence of Selective Attention in Firearms Officers. *Law Enforcement Executive Forum*, December 2008
- Honig, A., & Lewinski, W. (2008, August). A Survey of the Research on Human Factors Related to Lethal Force Encounters: Implications for Law Enforcement Training, Tactics, and Testimony. *Law Enforcement Executive Forum*.
- Vandermay, J., Houlihan, D., Klein, L.A., Lewinski, W., & Buchanan, J. (2008, June). Command Sequence in Police Encounters: Searching for a Linguistic Fingerprint. *Law Enforcement Executive Forum*.
- Schwarzkopf, E., Houlihan, D., Kolb, K., Lewinski, W., Buchanan, J., & Christenson, A. (2008, March). Force Science Forum: Command Types Used in Police Encounters. *Law Enforcement Executive Forum*.
- Page, J., Thibeault, C., Page, K., & Lewinski, W. (2007). Pursuit Driver Training Improves Memory for Skill-Based Information. *Police Quarterly*.
- Bumgarner, J., Lewinski, W., Hudson, W., & Stapp, C. (2005, September). An Examination of Police Officer Mental Chronometry: “I Swear... I Don’t Know How I Shot Him in the Back.” *Journal of The Association for Crime Scene Reconstruction*.

JOURNAL REVIEWER

- Policing: A Journal of Policy and Practice
- Cognitive Processing - International Quarterly of Cognitive Science
- Law Enforcement Executive Forum
- Psychology, Public Policy and Law (APA Journal)
- Policing: An International Journal of Police Strategies and Management

MEDIA/ARTICLES

- 2013 **“Behavioral Scientist Lectures LAPD Officers About Science of Using Deadly Force”** CBS Los Angeles, October 9th, 2013
- 2013 **“Officer Shootings and Hostage Situations”** Podcast interview, *Police Magazine*, May 2013
- 2012 **“Force Science Certification Course: The Harvard of law enforcement training.”** *Law Officer: Police & Law Enforcement*, online article, December 2012
- 2012 *Daily Planet*, a televised program on the ***Discovery Channel Canada***, filmed and aired a segment featuring ***The Influence of Officer Positioning on Movement During a Threatening Traffic Stop Scenario Force Science Research Project***, April 2012
- 2012 **“Hillsboro police and Force Science Institute hold traffic stop study on officer memory, safety.”** *The Oregonian*, April 2012
- 2010 *Daily Planet*, a televised program on the ***Discovery Channel Canada***, filmed and aired a segment featuring ***The Force Science Exhaustion Study Research Project***, October 2010
- 2010 *Daily Planet*, a televised program on the ***Discovery Channel Canada***, filmed and aired a segment featuring ***The Force Science Prone Study Research Project***, March 2010

- 2007 **“Civilian Use of Taser.”** *KJZZ Public Radio of Phoenix, AZ*, August 2007
- 2007 **“Tunnel Vision and Tunnel Hearing – Time to Update.”** *The Thin Blue Line*, January 2007
- 2007 **“Tunnel Vision and Tunnel Hearing – Time to Update.”** *The Colorado Law Enforcement Officer*, January 2007
- 2006 Variety of publications in professional law enforcement journals in England, from Jane’s publication to the Home Office’s publications.
- 2006 **Panorama** – BBC television program focusing solely on the research and science of the Force Science Research Center and the implications for the British Legal System in both officer involved and civilian cases where lethal force was used.
- 2005-11 **Force Science News** – Distributed every two weeks to a readership of approximately 200,000. Selected articles are loaded on the **International Association of Chiefs of Police** password protected website for worldwide distribution to police chiefs.
- 2003 **“The Impact of Visual Complexity, Decision Making and Anticipation, The Tempe Study – Experiments 3 & 5.”** *The Police Marksman*, November/December 2003
- 2003 **“Time to START Shooting? Time to STOP Shooting? The Tempe Study.”** *The Police Marksman*, September/October 2003
- 2003 **“48 Hours Investigates – The Investigators.”** 03/07/03 - CBS News Show (Mark Goldbaum, producer) on the consultants in the Anthony Dwain Lee, Halloween Shooting case. (Johnny Cochran’s lawsuit against LAPD)
- 2002 **“Biomechanics of Lethal Force Encounters.”** *The Police Marksman*, November/December 2002
- 2002 **“Stress Reactions Related to Lethal Force Encounters.”** *The Police Marksman*, May/June 2002
- 2001 **Annual Conference of International Association of Chiefs of Police**, Toronto, Ontario, Canada. Roundtable discussion on Ethical Issues with Law Enforcement Administrators recorded and presented as a verbatim article in the *Law and Order Magazine*, May 2002
- 2001 **“Why Is The Suspect Shot In The Back? Finally, Hard Data On How Fast The Suspect Can Be - In 11 Different Shooting Scenarios.”** Report/Electronic Publication - *Calibre Press Website*. This website receives one and a quarter million hits per month, August & September 2001
- 2000 **“Why Is The Suspect Shot In The Back? Finally, Hard Data On How Fast The Suspect Can Be - In 11 Different Shooting Scenarios.”** *The Police Marksman*, November/December 2000
- 2000 **“The Lethal Employee.”** *The Police Marksman*, January/February 2000
- 1999 **“The Suspect is Shot in the Back. Is Your Shooting Clean?”** *The Police Marksman*, September/October 1999
- 1999 **“New Study Reveals How Suspects Sometimes Get Shot In The Back.”** Report/Electronic Publication *Calibre Press Newslines*, #353, March 9, 1999. Newslines are distributed in electronic or print form to one quarter million law enforcement officers worldwide
- 1998 **“Hostage Officer Survival.”** Video, *Calibre Press*, Technical Consultant
- 1993 **“Pursuit Driving - Stress, Decision Making, Training.”** MNSAT statewide satellite presentation for the Minnesota POST Board - co-presented with attorney, William Everett

- 1992 **“Use of Deadly Force.”** Video - The psychological aspects of the 1992 P.O.S.T. Learning Objectives, used by numerous police departments throughout the State of Minnesota
- 1992 **“The Use of Deadly Force”** Created a video production for the Wright County Sheriff’s Department and the Annandale, Prior Lake, Minnetonka, Kimball, Fairmont, and Buffalo, Minnesota Police Departments to meet the 1992 P.O.S.T. training requirements on the use of deadly force.
- 1986 Consulting Expert **Tactical Edge Calibre Press**

PUBLICATIONS ABOUT MY WORK:

Squires, P. & Kennison, P. (2010). *Shooting to Kill? Policing, Firearms and Armed Response*, West Sussex, UK: Wiley – Blackwell.

Scarry, L. (2010, August). Setting the Bar – At the Force Science Institute, testing is part of the certification requirement. *Law Officer*, pp. 32–36.

Rossi, G. (2010, July – September). Force Science Institute - Force Science Analyst Certification Course, Course Review. *ILEETA Review*, pp. 3–5.

Bahde, D. (2010, July). Force Science Institute, Applying Sound Scientific Principles to Protect Officers During and After a Shootout! *Guns & Weapons for Law Enforcement*, pp. 12–13.

Griffith, D. (2010, March). The Force Scientist. *Police The Law Enforcement Magazine*, pp. 36–43.

Pilgrim, B. (2009, April). A Killer Awaits – Be Ready, Be Quick. *Guns & Weapons for Law Enforcement*, pp. 46-48, 84-85.

Bovingdon, T. (2009, December). Gaze Control and Shooting Performance. *Police Review IHS Jane’s*.

Itabashi, H.H., Andrews, J.M., Tomiyasu, U., Erlich, S.S., Sathyavagiswaran, L. (2007). *Forensic Neuropathology: A Practical Review of the Fundamentals* (pp. 237-9). Academic Press – Amsterdam, Netherlands.

Graham, B. (2005, November). Bulletproof. *Police - The Voice of the Service*

Weeg, J. (2002, May/June). What You Need to Tell the Prosecutor in Your Next Use-of-Force Case. *Police Marksman*.

DuCharme, S. (2002, May). The Search For Reasonableness in Use-Of-Force Cases: Understanding the Effects of Stress On Perception and Performance. *Fordham Law Review*.

MEMBERSHIPS

- International Association of Chiefs of Police (IACP)
 - Police Psychological Services Section of the International Association of Chiefs of Police
 - Patrol and Tactical Operations Committee
- Society of Police & Criminal Psychology
- International Law Enforcement Educators and Trainers Association (ILEETA)

CERTIFICATION COURSES

May 2014 **Force Science Certification Course**, sponsored by the Glenview Police Department, Glenview, IL

April 2014 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

March 2014 **Force Science Certification Course**, sponsored by the Glenview Police Department, Glenview, IL

February 2014 **Force Science Certification Course**, sponsored by the Fort Worth Police Department, Fort Worth, TX

February 2014 **Force Science Certification Course**, sponsored by the Seattle Police Department, Seattle, WA

January 2014 **Force Science Certification Course**, sponsored by the Scottsdale Police Department, Scottsdale, AZ

December 2013 **Force Science Certification Course**, sponsored by the Las Vegas Metropolitan Police Department, Las Vegas, NV

November 2013 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

October 2013 **Force Science Certification Course**, sponsored by the Los Angeles Sheriff's Department, Los Angeles, CA

September 2013 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

May 2013 **Force Science Certification Course**, sponsored by the Glenview Police Department, Glenview, IL

April 2013 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

March 2013 **Force Science Certification Course**, sponsored by the Calgary Police Service, Calgary, AB, Canada

February 2013 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

January 2013 **Force Science Certification Course**, sponsored by the Scottsdale Police Department, Scottsdale, AZ.

December 2012 **Force Science Certification Course**, sponsored by Las Vegas Metro, Las Vegas, NV.

October 2012 **Force Science Certification Course**, sponsored by Cincinnati Police Department, Cincinnati, OH.

September 2012 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

May 2012 **Force Science Certification Course**, sponsored by the Hillsboro Police Department, Hillsboro, OR

April 2012 **Force Science Certification Course**, sponsored by the Department of Homeland Security, Alexandria, VA

February 2012 **Force Science Certification Course**, sponsored by the San Jose Police Department, San Jose, CA

January 2012 **Force Science Certification Course**, presented exclusively for and sponsored by the Royal Canadian Mounted Police, Winnipeg, Canada

December 2011 **Force Science Certification Course**, sponsored by the San Jose Police Department, San Jose, CA

October 2011 **Force Science Certification Course**, sponsored by the Toronto Police Department, Peel, Canada

August 2011	Force Science Certification Course , sponsored by the Department of Homeland Security, Alexandria, VA
June 2011	Force Science Certification Course , sponsored by the Hillsboro Police Department, Hillsboro, OR
April 2011	Force Science Certification Course , sponsored by the Milwaukee Police Department, Milwaukee, WI
February 2011	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
November 2010	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
August 2010	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
June 2010	Force Science Certification Course , sponsored by the Milwaukee Police Department, Milwaukee, WI
April 2010	Force Science Certification Course , sponsored by the Milwaukee Police Department, Milwaukee, WI
February 2010	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
October 2009	Force Science Certification Course , sponsored by the Milwaukee Police Department, Milwaukee, WI
July 2009	Force Science Certification Course , sponsored by the Calgary Police Service, Calgary, AB, Canada
June 2009	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
October 2008	Force Science Certification Course , sponsored by the San Jose Police Department, San Jose, CA
March 2008	“Lewinski Conference” Force Science Certification Course , sponsored by the London Metropolitan Police and the Metropolitan Police Federation, Mayfair Conference Centre, London England

PRESENTATIONS

(All presentations, conferences, seminars, etc. have been by invitation.)

SPECIAL PRESENTATIONS

October 2013	“Force Science Research as Applied to Force Encounters” Sponsored by Los Angeles Police Department, Police Protection League, for the Press and their Civilian Review Board (Police Commissioner). Los Angeles, CA.
September 2010	“Force Science Training Program” <i>Indiana Association of Chiefs of Police Conference</i> , Sponsored by the Indianapolis Metropolitan Police Department, Indianapolis, IN
September 2010	“Force Science Training Program” <i>Public Forum</i> , Sponsored by the District Attorney’s Office, Waterloo, IA
April 2010	“Implications of Force Science Research for Training and Deployment of Armed Officers” <i>Republic of Ireland Police - Garda Siochana Headquarters</i> - Dublin, Ireland
October 2009	“Understanding and Investigating Officer-Involved Shootings” <i>Public Forum</i> , Sponsored by The Lane County District Attorney’s Office, Eugene, OR
March 2008	Presentation to the Command Staff and London Metropolitan Police Federation on the Quadrant of Attention research project with the London Metropolitan Police, <i>New Scotland Yard</i> , London, England
December 2007	Presentation about the work of Force Science , <i>The Joint Human Rights Committee of the House of Commons and House of Lords</i> , London, England

- October 2007 **“Psychological Aspects of Deadly Force Encounters: New Research With Substantial Policy Implications”** *Police Psychological Services Section: International Association of Chiefs of Police*, New Orleans, LA
- April 2007 **“The Use of Force and Community Notification”** *ReEntry House along with the Minneapolis and St. Paul Police Departments*, Minneapolis, MN
- October 2006 **Presentation about the work of Force Science**, *The Joint Criminal Justice Committee of the House of Commons and the House of Lords*, London, England
- October 2006 **“Chief’s Response to Controversial Use of Force Incidents: Balancing the Interest of Agency, Officer, Community and Media”** Panel presentation for the *International Association of Chiefs of Police, Inc.*, Boston, MA

INTERNATIONAL CONFERENCES

- October 2013 **“Officer Involved Shootings: Investigative Procedures”** Speaker, 120th Annual International Association of Chiefs of Police Conference, Philadelphia, PA
- June 2012 **“Presentation on Force Science Research”**, 19th *Annual Symposium International Homicide Investigators Association*, New Orleans, LA
- December 2011 **“Behavioral Aspect of Hostage Negotiations”** Training for the Polizia di Stato, *Guest Professor*, University of Padua, Padua, Italy
- November 2011 **“Behavioral Science Aspects of Hostage Negotiation for United Nations Peace Keepers Program and for the Arma dei Carabinieri”** *Guest Professor*, University of Padua, Padua, Italy
- April 2011 **“Presentation of Force Science Research”** *International Law Enforcement Educators and Trainers Association 2011 Conference & Expo*, Wheeling, IL
- September 2010 **“Force Science Training Course”** *Legacy of Excellence Conference*, Calgary, Canada
- April 2008 **“Current Research and FSRC Projects”** *International Law Enforcement Educators and Trainers Association*, Wheeling, IL
- April 2007 **“Current Research and FSRC Projects”** *International Law Enforcement Educators and Trainers Association*, Wheeling, IL
- February 2007 **“Representing Police Officers in Shootings and Critical Incidents”** *International Union of Police Associations AFL-CIO*, Sarasota, FL
- January 2007 **“Impact of Human Factors on Forensic Evidence”** Keynote speaker for *Association of Crime Scene Reconstruction*, Tacoma, WA
- May 2006 **“Force Science Research Center Presentation on Human Factors in Lethal Force Encounters”** *National Police Conference*, Bournemouth, United Kingdom
- April 2006 **“Current Force Related Research Results”** *International Law Enforcement Educators and Trainers Association Training Conference*, Chicago, IL
- September 2005 **“Research from the Force Science Research Center”** *Canadian Officer Safety Conference*, Victoria, British Columbia, Canada

- September 2005 **“An Eye to the Future - Leading Edge Research in Law Enforcement Safety Training”** *Canadian Officer Safety Conference*, Victoria, British Columbia, Canada (Panel presentation)
- June 2005 **“Latest Research from the Force Science Research Center”** *International Association of Law Enforcement Firearms Instructors*, Reno, NV
- June 2005 **“Panel Presentation from FSRC on the Latest Research from the Force Science Research Center”** *International Association of Law Enforcement Educators and Trainers Association*, Chicago, IL
- October 1991 **“Building Passionate Intimacy Into Your Police Relationship”** *The International Association of Chiefs of Police*, Minneapolis, MN
- September 1990 **“Stress Within Police Families”** *The International Association of Women Police*, Minneapolis, MN

INTERNATIONAL SEMINARS

- January 2012 **“Presentation on Force Science Research”** *Manitoba Police Commission*, Winnipeg, Canada
- September 2011 **“Presentation of Force Science Research”** Sponsored by the Vancouver Police Department, Vancouver, Canada
- September 2011 **“Presentation of Force Science Research”** Sponsored by the Vancouver Police Department, New Westminster, Canada
- March 2011 **“Presentation of Force Science Research”** Sponsored by the Royal Canadian Mounted Police, St. Albert, Alberta, Canada
- April 2010 **“Force Science Seminar”** *Republic of Ireland Police, Garda Siochana College*, Templemore, Ireland
- May 2009 **“Application of Force Science Research to Officer Involved Shooting-Tactical Workshop”** *International SWAT Competition*, Graves End, United Kingdom
- May 2008 **“Application of Force Science Research to Officer Involved Shooting -Tactical Workshop”** *International SWAT Competition*, Belfast, United Kingdom
- May 2008 **“Understanding Human Performance in High Stress Encounters”** *Police Federation of Northern Ireland and Police Service of Northern Ireland*, Belfast, United Kingdom
- December 2007 **“Understanding Officer Involved Shootings”** *Special Investigations Unit, Investigators’ Training Seminar*, Toronto, Ontario, Canada
- June 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center*, Vancouver, British Columbia, Canada
- April 2007 **“Bringing Science to the Streets”** *Metropolitan Police Federation*, Imperial War Museum, London, England
- April 2007 **“Human Factors in Use of Force”** *London Metropolitan Police I.A. and Independent Police Complaints Commission*, London, England
- November 2006 **“Research from the Force Science Research Center”** *London Parliament*, United Kingdom
- October 2006 **“Death Following Police Contact”** *London Metropolitan Police*, London, England

- August 2006 **“Meeting of FBI National Executives Institute”** *Leadership Academy for Policing*, Bramshill, United Kingdom
- January 2006 **“Force Science Research Center Presentation on Human Performance in Lethal Force Encounters”** *Annual Conference, American Society of Law Enforcement Trainers*, Albuquerque, NM
- May 2006 **“Force Science Research Center Presentation on Responding to Lethal Force Encounters”** with Dr. Alex Artwohl, *Centrex-Bramshill*, England
- October 2005 **“Critical Incident Policing”** *London Metropolitan Police Federation, Constables’ Branch Board*, (presented with Dr. Alexis Artwohl, Scott Ingram, and Colonel Bob Stewart), London, England

NATIONAL CONFERENCES

- November 2009 **“Force Science Principles”** *NACOLE (National Association of Civilian Oversight of Law Enforcement) Annual Conference*, Austin, TX
- October 2008 **“Legal, Psychological and Biomechanical Aspects of Officer-Involved Lethal and Less Lethal Force”** *AELE Law Enforcement Legal Section Seminar*, Las Vegas, NV
- March 2008 **“Legal, Psychological and Biomechanical Aspects of Officer-Involved Lethal and Less Lethal Force”** *AELE Law Enforcement Legal Section Seminar*, San Francisco, CA
- November 2007 **“Legal, Psychological and Biomechanical Aspects of Officer-Involved Lethal and Less Lethal Force”** *AELE Law Enforcement Legal Section Seminar*, Las Vegas, NV
- September 2007 **“The Impact of Human Factors on Forensic Evidence in Lethal Force Encounters”** *Rocky Mountain Division of the International Association for Identification – Fall Training Symposium*, Westminster, CO
- September 2005 **“Research from the Force Science Research Center” & “Deadly Force Experts Panel.”** *International Law Enforcement Educators and Trainers Association*, Chicago, IL
- January 2005 **“Panel Presentation by Force Science Research Center”** *American Society of Law Enforcement Trainers*, Gainesville, FL

NATIONAL SEMINARS

- March 2010 **“New Force Sciences Finding Into the Human Dynamics of Deadly Force and Other High Stress Encounters”** **William Lewinski, Keynote Speaker:** *2010 Police TREXPO West Conference*, Long Beach, CA
- March 2009 **“Police Behavior in Force Encounters”** Alpha Phi Sigma, Boston, MA
- April 2008 **“Force Science Research”** *National Fish and Wildlife Investigators*, Shepardstown, WV
- March 2008 **“Force Science Research”** *National Fish and Wildlife Investigators*, Shepardstown, WV
- March 2008 **“Force Science Seminar”** California Homicide Investigators’ Association, Las Vegas, NV
- December 2007 **“Winning Extreme Encounters from Street to Court”** Oakland Police Academy, Oakland Community College, Auburn Hills, MI
- October 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center*, Green Bay, WI

- September 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center, Spokane, WA*
- July 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center, Louisville, KY*
- July 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center, Richmond, VA*
- May 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center, Bethlehem, PA*
- May 2007 **“Winning Extreme Encounters from Street to Court”** *Force Science Research Center, Provo, UT*
- April 2007 **“Understanding and Investigating Officer Involved Shootings”** *Force Science Research Center and The Law Firm of Snyder and Hoag, LLC, Seattle, WA*
- December 2006 **“Research from the Force Science Research Center”** *Customs and Border Protection Advanced Training Center Department of Homeland Security, Harpers Ferry, WV*
- November 2006 **“Actions During Deadly Force Encounters”** *Police National Training Center, Sioux City, IA*
- November 2006 **“Latest Research on Critical Incidents”** *Labor Relations Information System, Fort Lauderdale, FL*
- October 2006 **“Research from the Force Science Research Center”** *States Self-Insurers Risk Retention Group in care of Berkley Risk Administrators Company, LLC, San Antonio, TX*
- September 2006 **“The Force Science Seminar: Winning Extreme Encounters from Street to Court”** *Force Science Research Center and Santa Clara Police Department, Santa Clara, CA*
- April 2006 **“Human Performance in Lethal Force Encounters”** *The Federal Bureau of Investigation-National Academy Associates, Salem, OR*
- February 2006 **“Legal, Psychological and Biomechanical Aspects of Officer-Involved Lethal and Less Lethal Force”** *AELE Law Enforcement Legal Section Seminar, one of nine presenters, Las Vegas, NV*
- September 2005 **“Research from the Force Science Research Center”** *Labor Relations Information Systems, Use of Force Seminar, San Antonio, TX*
- August 2005 **“Research from the Force Science Research Center”** *Association of Threat Assessment Professionals, Anaheim, CA*
- May 2001 **“Subject Movement & Speed in Shooting Situations” and “Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States, Hutchinson, MN*
- May 2000 **“Subject Movement & Speed in Shooting Situations” and “Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States, Hutchinson, MN*
- May 1999 **“Psychophysiological Responses in Critical Incidents, Survival Techniques, the Role of CISD Teams”** *Labor Relations Information Systems, Use of Force Seminar, Newport, RI*
- April 1999 **“Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States, Hutchinson, MN*

- April 1998 **“Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States, Hutchinson, MN*
- April 1997 **“Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States Hutchinson, MN*
- April 1996 **“Management’s Response to CI’s and Traumatic Stress After Care”** *FBI Law Enforcement Executive Development Seminar, North Central States, Chaska, MN*
- November 1995 **“Psychophysiological Responses in Critical Incidents, Survival Techniques, the Role of CISD Teams”** *Labor Relations Information Systems, Use of Force Seminar, Orlando, FL*
- August 1995 **“Post Traumatic Stress Disorder and the Police Chaplin”** *North Central Police Chaplin’s Conference, Eden Prairie, MN*
- April 1995 **“Management’s Response to CI’s and Traumatic Stress Aftercare”** *FBI Law Enforcement Executive Development Seminar, North Central States, Chaska, MN*
- October 1994 **“Psychophysiological Responses in Critical Incidents, Survival Techniques, the Role of CISD Teams”** *Labor Relations Information Systems, Use of Force Seminar, Portland, OR*
- March 1992 **“Post Traumatic Stress Disorder”** *Labor Relations Information Systems, Use of Force Seminar, Palm Springs, CA*
- August 1991 **“Coping with the Different Levels of Stress in Law Enforcement”** *U.S. Customs Special Agents, Tucson/Nogales, AZ*
- January 1991 **“Post Traumatic Stress Disorder”** *Labor Relations Information Systems, Use of Force Seminar, Phoenix, AZ*
- December 1990 **“Police Relationships”** *U.S. Marshals Annual Meeting, Miami, FL*
- April 1990 **“Police Stress”** *IRS Criminal Investigators, Minneapolis, MN*
- 1986-1990 **“Use of Force and Critical Incident Trauma and Police Relationships”** *Street Survival Seminar, Calibre Press, Inc. 24 cities per year, across the US and Canada. Seminar attendees came from every major law enforcement agency in North American, many attended from Europe, Asia, Africa and Australia.*
- October 1986 **“Shooting Decisions and Post Shooting Trauma”** *FAA Sky Marshals, Presented with Dr. Kevin Gilmartin, Tucson P.D., Tucson, AZ*

STATE CONFERENCES/SEMINARS

- October 2012 **“Presentation of Force Science Research”** Keynote speaker. Sponsored by Illinois Homicide Investigators Association and The Northeast Multi-Regional Training, Oak Brook, IL.
- October 2010 **“Presentation of Force Science Research”** *Arizona Police Association Annual Conference, Scottsdale, AZ*
- June 2010 **“Force Science Training Program”** *King County Police Officers’ Guild, Seattle, WA*
- June 2010 **“Force Science Training Program”** *Garfield County Sheriffs’ Department, Glenwood Springs, CO*
- May 2010 **“Force Science Training Program”** *Medford Police Officers’ Training Seminar, Medford, OR*

- February 2010 **“The Science Behind The Use Of Force”** *Wisconsin Chief of Police Association Training Conference, Wisconsin Dells, WI*
- October 2009 **“Force Science Insights Into Officer Involved Shootings and Other Uses of Force”** *The New Jersey International Association for Identification Conference sponsored by NJIAI, Hamilton, NJ*
- October 2009 **“Understanding & Investigating Officer-Involved Shootings”** *Law Enforcement Intelligence Network (LEIN) Seminar, Des Moines, IA*
- September 2009 **“Understanding & Evaluating Deadly Force Encounters”** *Hillsboro Police Department, Hillsboro, OR*
- November 2008 **“Force Science Seminar”** *California Narcotic Officers’ Association, San Diego, CA*
- January 2008 **“Force Science Seminar”** *Wisconsin Law Enforcement Executive Development Association, Wisconsin Dells, WI*
- August 2007 **“Winning Extreme Encounters from Street to Court”** *Florida Department of Law Enforcement-High Liabilities Trainer’s Conference, Ponte Vedra, FL*
- June 2007 **“Winning Extreme Encounters from Street to Court”** *Public Safety and Homeland Security Law and Practices, Arizona Peace Officers Association, Scottsdale, AZ*
- Dec 2006 **“Force Science Research Center’s Research & Excited Delirium”** *Minnesota Sheriff’s Association Annual Meeting, Mankato, MN*
- July 2006 **“Research from the Force Science Research Center”** *Tucson Police Department, Tucson, AZ*
- June 2006 **“Understanding and Investigating An Officer Involved Shooting”** *co-sponsored by Force Science Research Center and Snyder & Hoag, LLC law firm, Clackamas, OR*
- May 2006 **“Research on Lethal Force and Action/Reaction Parameters -- from the Force Science Research Center”** *Iowa Chiefs of Police & Peace Officers’ Association Annual Conference, Sioux City, IA*
- April 2006 **“Force Science Research Center Presentation on Responding to Lethal Force Encounters”** *FBI, NAA Graduates Association, Salem, OR*
- April 2006 **“Force Science Research Center Presentation on Human Performance in Lethal Force Encounters”** *Annual Conference, Special Operations Training Association, Minnesota, Hibbing, MN*
- March 2006 **“Research from the Force Science Research Center”** *SOTA, Alexandria, MN*
- February 2006 **“Force Science Research Center Presentation on Human Performance in Lethal Force Encounters”** *Annual Conference, Association of Training Officers of Minnesota, St. Paul, MN*
- February 2006 **“Research from Force Science Research Center”** *Wisconsin Chiefs of Police, Pewaukee, WI*
- September 2005 **“Research from the Force Science Research Center”** *Iowa Department of Criminal Investigation, Des Moines, IA*
- September 2005 **“Research from the Force Science Research Center”** *Wisconsin Law Enforcement Training Officers Association, Oconomowoc, WI*
- September 2005 **“Research from the Force Science Research Center”** *2005 High Liability Trainers’ Conference, Orlando, FL*

- June 2005 **“Latest Research from the Force Science Research Center”** *Wisconsin Association of Homicide Investigators*, Green Lake, WI
- March 2004 **“Stress in Corrections”** *Correctional Officers of Minnesota*, Brainerd, MN
- November 2003 **“Emotional Survival”** *MN Criminal Justice System*, Minneapolis, MN
- October 2003 **“Biomechanics of Lethal Force Encounters, Action/Reaction Parameters”** *Arizona Field Training Officers Association*, Phoenix, AZ
- October 2003 **“Biomechanics of Lethal Force Encounters, Action/Reaction Parameters – Implications for Investigations”** *Arizona Homicide Investigators*, Annual Conference, Laughlin, NV
- May 2003 **“Biomechanics of Lethal Force Encounters, Action/Reaction Parameters”** *Police Regional Training Center*, Sioux City, IA
- August 2002 **“Biomechanics of Lethal Force Encounters”** *Arizona Homicide Investigators*, Phoenix, AZ
- May 2001 **“Situation Management: De-Escalation Strategies for Managing Crises and Incidents”** *Best Mental Health Practices in the Workplace*, *Mental Health Association of Minnesota*, William Mitchell College of Law, St Paul, MN
- April 2000 **“Verbal/Psychological Judo”** and **“Profiling the Lethal Adolescent”** *Adolescents in Need Conference*, Arden Hills, MN
- April 2000 **“Subject Movement & Speed in Shooting Situations”** *Minnesota Association of Law Enforcement Firearms Instructors*, New Ulm, MN
- March 2000 **“Verbal/Psychological Judo”** *Department of Natural Resources*, Brainerd, MN
- March 2000 **“Stress and Relationships in Corrections”** *Minnesota Association of Correctional Officers*, Cragun’s, Brainerd, MN
- March/April 2000 **“Hostage Negotiations”** 12 hour seminar, delivered twice, *Minnesota State Hospital System*, St. Peter, MN
- February 2000 **“Ethics, Internal Affairs and Discipline”** Sponsored by the *Oregon Department of Public Standards and Training*, Co-presenter - John Hoag, Esq., Redmond, WA
- October 1999 **“Complaint Investigation Course”** *Complaint Institute Presentation*, Duluth, MN
- August 1999 **“Police Relationships”** *North Dakota Peace Officers’ Association Annual Conference*, Minot, ND
- July 1999 **“Compassion Fatigue”** Keynote speaker for *“Together Again for Children,”* *Child Protection Conference for the State of North Dakota*, Bismarck, ND
- June 1999 **“Ethics, Internal Affairs and Discipline”** Sponsored by the *Oregon Department of Public Standards and Training*, Co-presenters - Dr. Kevin Gilmartin & John Hoag, Esq., Portland, OR
- March 1999 **“Verbal/Psychological Judo”** and **“Emotional Intensity and Control in High Stress Situations”** *Adolescents in Need Conference*, Rosemount, MN
- March 1999 **“Stress”** *Minnesota Association of Correctional Officers*, Cragun’s, Brainerd, MN
- September 1998 **“Emotional Control & Intensity in Hostage Situations”** *Strategies and Tactics for Negotiators*, *Minnesota Department of Corrections*, Camp Ripley, MN

- July 1998 **“Verbal and Psychological Judo”** *Department of Natural Resources, Camp Ripley, MN*
- July/Aug. 1998 **“Complaint Investigation Course”** *Complaint Institute Presentation, Bemidji, MN*
- May/June 1998 **“Complaint Investigation Course”** *Complaint Institute Presentation, Mankato, MN*
- April 1998 **“Stress”** *Minnesota Association of Correctional Officers, Cragun’s, Brainerd, MN*
- January/February 1998 **“Complaint Investigation Course”** *Complaint Institute Presentation, Minneapolis, MN*
- January 1998 **“Supervising a Complaint Investigation”** *Complaint Institute Presentation, Minneapolis, MN*
- February 1997 **“Verbal and Psychological Judo”** *Minnesota Department of Corrections, STS Crew Leaders, St. Cloud, MN*
- April 1996 **“Verbal and Psychological Judo”** *Minnesota Association of Jail Programs and Services, St. Paul, MN*
- April 1996 **“Emotional Control, Verbal and Psychological Skills in Conflict Situations”** *Minnesota Association of Correctional Officers, Cragun’s, Brainerd, MN*
- April 1995 **“Stress”** *Minnesota Association of Correctional Officers, Cragun’s, Brainerd, MN*
- March 1995 **“Critical Incident Stress and Department Policy”** *Oregon State Police - co-sponsored by Federation and Management, Eugene, Bend and Medford, OR*
- April 1994 **“Stress”** *Minnesota Association of Correctional Officers, Cragun’s, Brainerd, MN*
- March 1994 **“Police Stress”, “Tactical Communications”, “Police Relations”** *Iowa Women’s Police Association, Algona, IA*
- October 1991 **“Police Stress”, “Post-Critical Incident Trauma”, “Police Relationships”** *Iowa State Police Association, Waterloo, IA*
- September 1991 **“The Role of Profiling in Developing Tactics for Resolution” and “The Use of Psychological Power in Hostage Negotiations”** *Association of Training Officers of Minnesota, Hostage Negotiations Focus Group, Burnsville, MN*
- May 1991 **“Coping with Professional Victimization”** *Minnesota Association of County Probation Officers, Rutgers Bay Lake Lodge, Brainerd, MN*
- April 1991 **“Police Stress for the Female Officer - Building Passion and Intimacy in Your Police Relationship”** *Minnesota Association of Women Police, Minnetonka, MN*
- November 1990 **“Shooting Decisions and Post-Critical Incident Trauma”** *Focus was on the role and recovery from perceptual distortions, cognitive aberrations and memory impairment, Minnesota Association of Law Enforcement Firearms Instructors, St. Paul, MN*
- November 1989 **“Professional Victimization”** *Tennessee Correctional Association, Nashville, TN*
- October 1988 **“Professional Victimization”** *Minnesota Correctional Association, Minneapolis, MN*
- June 1983 **“Hostage Negotiations”** *All-day workshop for the 1984 Los Angeles Olympics, Tucson Police Department, Tucson, AZ*

- April 1983 **“Psychological Testing vs. Background Investigation in the Screening of Peace Officers”**
Minnesota Association of Criminal Justice Educators, St. Cloud, MN
- May 1982 **“Domestic Abuse”** *Social Science Conference on Public Policy and The American Family: Issues for the 1980’s, University of Minnesota - Morris, Morris, MN*
- October 1981 **“Anatomy of a Hostage Incident”** *Minnesota Association of Criminal Justice Educators, Minneapolis, MN*
- October 1981 **“Handling Hostility - The Aggressive Client”** *Minnesota Social Service Association, Mankato, MN*

REGIONAL SEMINARS

- May 2014 **“Force Science Seminar”** *Dallas Fraternal Order of Police Lodge 588, Texas Scottish Rite Hospital for Children auditorium Dallas Fort Worth, TX*
- May 2014 **“Force Science Seminar”** *Las Vegas District Attorney’s Office, Las Vegas, NV*
- May 2014 **“Force Science Seminar”** *Henderson Police Department, Henderson, NV*
- April 2014 **“Force Science Seminar”** *Kauai Police Department, Lihue, HI*
- October 2013 **“Presentation of Force Science Research”** *Sponsored by Valencia College, Orlando, FL*
- September 2013 **“Presentation of Force Science Research”** *Sponsored by the Syracuse Police Department, Syracuse, NY*
- May 2013 **“What Investigators Should Know About Using and Analyzing Video Evidence in Deadly Force Investigations”** **William Lewinski, Keynote Speaker:** *Deadly Force in the Digital Era, RLS Critical Incident Symposium.* *Sponsored by Rains Lucia Stern, PC, Pleasant Hill, CA and the Contra Costa County Office of the Sheriff, Martinez, CA.*
- January 2013 **“Presentation of Force Science Research”** *Sponsored by Anchorage Police Department Employees Association and Alaska Police Standards Council, Anchorage, AK.*
- November 2012 **“Presentation of Force Science Research”** *Sponsored by Salt Lake County District Attorney’s Office, Salt Lake City, UT.*
- November 2012 **“Presentation of Force Science Research”** *Sponsored by the 3rd Judicial District Attorney’s Office, Las Cruces, NM.*
- October 2012 **“Presentation of Force Science Research”** *Sponsored by the New Castle County Police Department, New Castle, DE.*
- August 2012 **“Presentation of Force Science Research”** *Sponsored by the Florida Public Safety Institute, Havana, FL.*
- June 2012 **“Presentation of Force Science Research”** *Sponsored by the Burlington Police Department, Burlington, MA*
- January 2012 **“Presentation of Force Science Research”** *Sponsored by the San Francisco Police Department, San Francisco, CA*
- November 2011 **“Presentation of Force Science Research”** *Sponsored by the Salt Lake County District Attorney’s Office, Salt Lake City, UT*

- November 2011 **“Presentation of Force Science Research”** Sponsored by the Chandler Law Enforcement Association, Chandler, AZ
- November 2011 **“Presentation of Force Science Research”** Sponsored by the Meridian Police Department, Meridian, ID
- November 2011 **“Presentation of Force Science Research”** Sponsored by the West Michigan Criminal Justice Training Consortium, Grand Rapids, MI
- October 2011 **“Presentation of Force Science Research”** Sponsored by the Atlanta Police Department and the Atlanta Police Federation, Atlanta, GA
- September 2011 **“Presentation of Force Science Research”** Sponsored by the Maine County Commissioners Association & Maine Sheriff’s Association, Bangor, ME
- August 2011 **“Presentation of Force Science Research”** Sponsored by the Los Angeles Sheriff’s Department, Commerce, CA
- August 2011 **“Presentation of Force Science Research”** Sponsored by the Amherst Police Department, Amherst College Police Department and University of Massachusetts Police Department, Amherst, MA
- May 2011 **“Presentation of Force Science Research”** Sponsored by the Jacksonville County Sheriff’s Department, Jacksonville, FL
- March 2011 **“Critical Incident Symposium”** Sponsored by the Contra Costa County Sheriff’s Department, Berkeley, CA
- March 2011 **“Presentation of Force Science Research”** Sponsored by the Columbus Police Department, Columbus, OH
- March 2011 **“Presentation of Force Science Research”** Sponsored by the Bend Police Department, Bend, OR
- January 2011 **“Presentation of Force Science Research”** Sponsored by the Eugene Police Department, Eugene, OR
- November 2010 **“Presentation of Force Science Research”** Sponsored by the Indianapolis Metropolitan Police Department Leadership Academy, Indianapolis, IN
- September 2010 **“Force Science Training Course”** Sponsored by the City of Waterloo, Waterloo, IA
- October 2010 **“Force Science Training Course”** Sponsored by the Hartford Police Union, Hartford, CT
- September 2010 **“Force Science Training Course”** Sponsored by the Waterloo Police Department, Waterloo, IA
- March 2010 **“Force Science Research and It’s Application for Leadership”** Indianapolis Metropolitan Police Department Leadership Academy, Indianapolis, IN
- December 2009 **“Force Science One Day Seminar”** Hosted by *The Bergen County Sheriff Department*, Hackensack, NJ
- October 2009 **“Understanding and Investigating Officer-Involved Shootings”** Presented with Josh Lego. *The Lane County District Attorney Community Outreach Initiative*, Eugene, OR
- September 2009 **“The Human Dynamics of Hostage Negotiations: "New Realities Revealed by Science”** *Rocky Mountain Hostage Negotiators Association Annual Conference*, Breckenridge, CO.

July 2009 **“Force Science Training”** *Garland, Texas Police Department*, Presented with Josh Lego. Garland, TX

March 2009 **“Force Science Seminar”** *Johnson County Community College*, Overland Park, KS

April 2009 **“Understanding & Investigating Officer-Involved Shootings”** *Peace Officers Association of Los Angeles*, Commerce, CA

March 2009 **“The Science of Perception”** *Northwest Leadership Seminars Annual Conference*, Portland, OR

February 2009 **“Managing and Winning Extreme Encounters”** *Southern IL Criminal Justice Summit*, Mount Vernon, IL

September 2008 **“CIT-Team Training”** *Mesa County Sheriff’s Department*, Grand Junction, CO

September 2008 **“Force Science Research”** *with Alexis Artwohl, ATOM Seminar*, Minneapolis, MN

May 2008 **“Understanding and Investigating Officer Involved Shooting”** *Colorado District Attorney Investigators Association*, Denver, CO

May 2008 **“Force Science Seminar”** *Illinois Law Enforcement Training and Standards Board*, Urbana, IL

October 2007 **“Latest Research from Force Science Research Center and the Implications for Investigating Officer Involved Shootings”** sponsored by *Force Science Research Center and Minnesota State University*, Mankato, MN

August 2007 **“Force Science Research”** Salem, OR

March 2007 **“Responding to Officer Involved Shootings”** *Police Training Services Company*, Alameda County, CA

March 2007 **“Interpersonal Violence”** *Kessel Peace Institute*, Mankato, MN

March 2007 **“Responding to Officer Involved Shootings”** *Police Training Services Company*, Salt Lake City, UT

March 2007 **“Winning Extreme Encounters from Street to Court”** *Institute of Public Safety at Broward Community College*, Davie, FL

November 2006 **“Understanding and Investigating Officer’s Actions During Shootings Involving Methamphetamine Raids”** *Police National Training Center*, Sioux City, IA

November 2006 **“Responding to Officer Involved Shootings”** *Police Training Services Company*, Indio, CA

September 2006 **“Force Science Research Center Presentation on Lethal Force Encounters”** *Santa Clara Police Department*, Santa Clara, CA

July 2006 **“Force Science Research Center Presentation on Responding to Lethal Force Encounters”** *Tucson Police Department*, Tucson, AZ

May 2006 **“Responding to Officer Involved Shootings”** *Wasatch Violent Crimes Investigators Alliance in Conjunction with APB Training and Police Training Services Company*, One of six presenters, Salt Lake City, UT

May 2006 **“Human Performance in Lethal Force Encounters”** *Police National Training Center*, Sioux City, IA

- April 2006 **“Force Science Research Center Presentation on Responding to Lethal Force Encounters”** *Police Officers Association of Los Angeles County presentation, with Dr. Alexis Artwohl, Los Angeles, CA*
- March 2006 **“Responding to Officer Involved Shootings”** *Police Training Services Company, Oakland Police Department, one of six presenters, Oakland, CA*
- December 2005 **“Threat Assessment and Survival in a Challenging Mental Health Environment”** *Los Angeles County Department of Mental Health, Los Angeles, CA*
- June 2005 **“The Tempe Study and Other Research from the Force Science Research Center”** *Tempe Police Department, Tempe, AZ*
- June 2005 **“Latest Research from Force Science Research Center and the Implications for Investigating Officer Involved Shootings”** *Kent Police Department, Kent, WA*
- March 2005 **“Latest Research from Force Science Research Center and the Implications for Investigating Officer Involved Shootings”** *Minneapolis Police Department (Homicide), Minneapolis, MN*
- October 2004 **“Research from Force Science Research Center and the Implications for Investigating Officer Involved Shootings”** *Los Angeles Sheriff’s Department Command Staff, Los Angeles, CA*
- August 2004 **“Research from Force Science Research Center and the Implications for Investigating Officer Involved Shootings”** *Los Angeles Sheriff’s Department Homicide Investigators and Department Heads, Los Angeles, CA*
- November 2003 **“Biomechanics of Lethal Force Encounters, Action/Reaction Parameters – Implications for Investigation”** *Boston Homicide Investigators, Boston, MA*
- July 2003 **“Biomechanics of Lethal Force Encounters, Action/Reaction Parameters”** *Phoenix Police Federation, Phoenix, AZ*
- February 2003 **“Biomechanics of Lethal Force Encounters”** Presented to the *CIRT, Homicide and Internal Affairs Investigators for St. Paul, Police Department, St Paul, MN*
- January 2003 **“Biomechanics of Lethal Force Encounters”** *South Central Technical College, Law Enforcement, In-service Training, Mankato, MN*
- May 2002 **“Effective Emotional Control and Focus in Negotiations”** Presented primarily for the *Brainerd Hospital Staff and Mental Health outreach workers, Brainerd, MN*
- April 2002 **“Managing Difficult Situations in the Workplace”** Presented at the annual conference of the *Qualified Rehabilitation Counselors, St. Paul, MN*
- Nov/Dec 2001 **“Managing Difficult People in the Workplace”** Four-3 hour seminars presented for the *City of Minneapolis, Mayor’s staff and central office workers, Minneapolis, MN*
- January 2000 **“Stress in Law Enforcement”** *Rice County Sheriff’s Department, Faribault, MN*
- January 2000 **“Critical Incident Stress”** *Fire Service, Mankato Department of Public Safety, Mankato, MN*
- May 1999 **“Emotional Control and Intensity in High Stress Situations”** *Century College, White Bear Lake, MN*
- February 1999 **“Psychophysiological Responses in Critical Incidents, Survival Techniques”** *Dakota County Technical College, Minneapolis, MN*

- September 1998 **“The Use of Psychologists by Public Sector Agencies”** Seminar sponsored by Hoag, Garrettson, Goldberg, Fenrich & Mackler, Inn at Ottercrest, Ottercrest, OR
- June 1998 **“Emotional Control and Intensity in High Stress Situations”** Century College, White Bear Lake, MN
- January 1997 **“Psychological Techniques for Peak Performance in Crisis Situations and How These Connect to Community Oriented Policing”** Rice County Sheriff’s Department, Faribault, MN
- December 1996 **“Psychophysiological Responses in Critical Incidents, Survival Techniques,”** Dakota County Technical College, Minneapolis, MN
- March 1996 **“Police Stress”** and **“Critical Incident Survival - Peer Response”** Stearns County Chiefs of Police Association, St. John’s University, Collegeville, MN
- April 1996 **“Police Stress”** Maple Grove Police Department, Maple Grove, MN
- November 1994 **“Psychophysiological Responses in Critical Incidents, Survival Techniques”** Dakota County Technical College, Minneapolis, MN
- October 1994 **“Stress in Corrections”** Minnesota Correctional Facility, Shakopee, MN
- April 1993 **“Deadly Force Workshop”** Psychophysiological Aspects of Deadly Force Decision Making and Coping With the Aftermath. Blue Earth County Sheriff’s Department, Mankato, MN
- February 1992 **“Psychophysiological Aspects of Critical Incidents - Implications for Internal Affairs Investigations”** Washington County Chiefs of Police Association, Stillwater, MN
- February 1992 **“Force . . . and Beyond”** Southwest Regional Training Association, Marshall, MN
- December 1991 **“Assault Prevention”** South Central Youth Health Conference, 1,600 - 7th and 8th graders, Mankato State University, Mankato, MN
- September 1991 **“Force - Does Anyone Win: The Role of Decision Making and Verbal Skills in the Force Continuum”** St. Louis Park Police Department, St. Louis Park, MN
- August 1991 **“Managing the Violent/Aggressive Client”** Scott County Office of Court Services, Shakopee, MN
- May 1991 **“Shooting Decisions and Post-Critical Incident Trauma”** Minneapolis Police Federation, Minneapolis, MN
- March/April 1991 **“Verbal Continuum - The Role of Decision Making and Verbal Skills in the Use of the Force Continuum”** Spring In-Service Training Minneapolis Police Department, Minneapolis, MN
- January 1991 **“History and Overview of the Asian Martial Arts”, “Martial Arts as an Art Form and Performance Enhancer”, “Martial Arts Demonstration”** Asian-American Symposium, Main speaker - theme - Asian Martial Arts: Contribution to Western Thought, Mankato State University, Mankato, MN
- March/April 1990 **“Police Stress”** - Spring In-Service Training Minneapolis Police Department, Minneapolis, MN
- June 1987 **“Peak Performance in Crisis Situations”** Bloomington Rescue Squad, Bloomington, MN
- April 1987 **“The Use of Verbal Tactics (Including Negotiations) to Diffuse the Hostility of Verbally and/or Physically Aggressive Patients”** Basic workshop for the in-service training staff. The training staff conducted workshops for all the hospital staff, using the information and teaching techniques provided.

This program was later used throughout the whole State Hospital System, *St. Peter State Hospital*, St. Peter, MN

- January 1987 **“Use of Psychological Power in Hostage Negotiations”** Advanced workshop for *negotiators* with extensive negotiating experience from the Twin Cities area and the FBI, Dakota County, MN
- September 1986 **“Assault Prevention”** and **“Achieving Maximum Effectiveness in Crisis Situations”** 1986 *Emergency Care Conference of South Central Minnesota, Emergency Medical Services Joint Powers Board*, Mankato, MN
- April 1986 **“Assault Prevention”** *Fairview-Deaconess Hospital*, Minneapolis, MN
- January 1986 **“Use of the Flashlight as a Defensive Weapon”** *Mankato Police Reserve*, Mankato, MN
- June 1983 **“Assault Prevention”** *Battered Women’s Shelter*, Fort Huachuca, AZ
- June 1983 **“Victim Witness Program - Assault Prevention”** *Pima County Attorney’s Office*, Tucson, AZ
- June 1983 **“Police Stress”** *Arizona Law Enforcement Training Academy*, Tucson, AZ
- May 1983 **“Police Stress”** Eight-hour workshop for police officers and spouses *Dickinson County Peace Officers Association*, Lake Okoboji, IA
- September 1982 **“Management of Violent Clients in the Workplace”** *Region IX Association of Case Aide Financial Workers*, Holiday House, St. Peter, MN
- May 1982 **“Free Trade in Ideas Conference”** Panel participant on International Terrorism, *Mankato State University*, Mankato, MN
- November 1980 **“Advanced Hostage Negotiation Training and Command Operations”** Three-day In-Service, *Hennepin County Chiefs of Police Association*, Minneapolis, MN
- July 1980 **“Police Survival”** and **“Hostage Negotiations”** Two day In-Service *Fairmont Police Department*, Fairmont, MN
- November 1979 **“Crisis Marital Counseling”** Victim/Witness and the Adult Diversion Program *Pima County Attorney’s Office and Family Violence Coalition*, Four sessions for staff and volunteers, Tucson, AZ
- October 1979 **“Hostage Negotiations as a Group Phenomenon”** and **“Hostage Negotiations in Light of Principles of Interviewing”** Guest lecturer for Counseling Classes *University of Arizona*, Tucson, AZ
- April 1979 **“Hostage Negotiations”** Two-day seminar for private security companies and members of the *U.S. Marshall’s Department, Southwest Security and Management Training*, Fort Huachuca, AZ

CONSULTATIONS (A REPRESENTATIVE LIST)

- 2009 **Consulted** by Fort Lauderdale Police Department Shooting of Bastiany Georges
- 2007 **Consulted** by agencies from Vancouver, BC to Texas on OIS investigations in progress
- 2000 **“Advisory Committee on Empty Hand Control Techniques”** *Minnesota State Hospital System*, St. Peter, MN
- May 1999 **“Evaluated Empty Hand Control Techniques”** *St. Paul Police Department Academy*, St. Paul, MN
- 1998-00 **“Law Enforcement/Minority Relations Advisory Board”** *William Mitchell College of Law*,

St. Paul, MN

- 1996-98 **“Hostage Officer”** I served as a consultant on a video project for *Calibre Press*, Northbrook, IL
- 1992-97 **“Law Enforcement/Minority Relations Steering Committee”** This committee has been activated three times over the span of 4 years. We are currently reviewing Internal Affairs Response to this issue. *Supreme Court of Minnesota*, St. Paul, MN
- 1991-00 **“Suicide Intervention”** I provide this portion of the training to new crisis intervention workers. I also consult on difficult cases. *Eclipse Crisis Intervention Center*, Mankato, MN
- 1991 **“Stress” and “Management Styles”** *Blue Earth County Sheriff’s Department*, Mankato, MN
- 1991-1992 **Invited Participant** - Curriculum Development Committee *School of Law Enforcement, Metropolitan State University and Minnesota State University System*
- 1990-1991 **Invited Participant** - Articulation Committee on transfer of credits among state technical colleges, community colleges and university systems, *Minnesota State University System*
- July 1985 **Evaluated the defensive tactics, handcuffing, impact weapons training, etc.** for a training company which provided training for the *Federal Law Enforcement Academy*, Marana, AZ
- July 1984 **Central Intelligence Agency** - Consulted on my method for assessing the motivation of terrorists in hostage situations and how this diagnostic process is linked with tactics for resolution. *CIA*, Washington, D.C.
- March 1984 **Criminal Incident Consultation** - Psychological characteristics of Exhibitionists *Bloomington Police*, Bloomington, MN
- December 1983 **Hostage Negotiation** - Assisted in design of a training program *Davis Monthan Air Force Base and Tucson Police Department*, Tucson, AZ
- March 1983 **Hostage Incident** - Advised on tactics for resolution and the treatment of hostages during a hostage taking, *Stoney Mountain Prison*, Stoney Mountain, Manitoba, Canada
- February 1983 **Criminal Incident Consultation** - Profiled an extortionist based on three letters of extortion *St. Louis Park Police Department*, St. Louis Park, MN

CONSULTATIONS FOR THE PROSECUTION

- February 2003 Los Angeles County Prosecutor in charge of Officer Involved Shootings - Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force Encounters”** Consulted on Gonzalo Martinez case (barricaded, intoxicated subject in a vehicle)
- January 2003 Stanislaus County (Modesto, CA) - Consulted with David P. Harris, Esq., Senior, Deputy District Attorney, regarding how my research on shootings applies to a civilian shooting.
- March 2002 County of Los Angeles – Consulted with Deputy District Attorney, Michael K. Pettersen regarding an investigation by the Justice System Integrity Division into the shooting death of Anthony Dwayne Lee by LAPD Officer Hopper. Opinion and research were then included in website publication of investigation.
- April 1998 Consultant to Polk County, IA on whether officers involved in the Trevor Nederhoff case should be criminally charged. Area of Expertise: **“Use of Force”** (Attorney, John Sarcone)

EXPERT WITNESS (A REPRESENTATIVE LIST)

CORONER'S INQUEST

- March 2010 Coroner's Inquest, PC Ian Terry, Deceased, Manchester, England. Areas of Expertise: ***"Perception, Decision Making, Reaction Parameters"*** (Wrote report and **Testified**- Attorney, Nick Holroyd)
- April 2004 Coroner's Inquest, (James J. Perez) Portland, OR. Areas of Expertise: ***"Biomechanics of Lethal Force"*** and ***"Action/Reaction Parameters"*** (**Testified** - Attorney, Michael Schrunk)

GRAND JURIES

- September 2013 Grand Jury, (Larry Hawkins) Polk County, Des Moines, IA. Areas of Expertise: ***"Action/Reaction/Movement Dynamics in a Deadly Force Encounter"***, ***"Effects of Ambient Light and Viewing"***, ***"Angle on Perception Judgment"***, ***"Attention/Memory"*** (**Testified** – Polk County Attorneys, Bob Diblasi and David Porter)
- April 2013 Grand Jury, (Kyle Law) Black Hawk County, Waterloo, IA. Areas of Expertise: ***"Action/Reaction elements – particularly on assault from a prone position"***, ***"Speed of Movement of officer and"*** (**Testified** - Black Hawk County Attorney, Thomas Ferguson)
- November 2012 Grand Jury, (Jeffrey Thomas) Camden, NJ. Areas of Expertise: ***"Shell Casing Ejection"***, ***"Memory"***, ***"Attention"***, ***"Low Light Encounters"***, ***"Action/Reaction"***, ***"Attribution/Misattribution"*** and ***"Subject Movement"*** (**Testified** – Deputy Attorney General, Steven Farman)
- December 2009 Grand Jury, (Steven Bose) Black Hawk County, Waterloo, IA. Areas of Expertise: ***"Perception and Memory,"*** ***"Dynamics of Physical Assault,"*** ***"Threat Assessment"*** ***"Reconstruction of the Dynamics of a Shooting"*** (Consulted and **Testified** - Black Hawk County Attorney, Thomas Ferguson)
- August 2009 Grand Jury, (Donald Ballard, Jeff Lyon and Bryan Grube) Polk County, Des Moines, IA. Areas of Expertise: ***"Biomechanics of Deadly Force/Bullet Paths"*** and ***"Shell Casing Patterns"*** (Consulted and **Testified** – Assistant Polk County Attorney, Joe Weeg)
- July 2008 Grand Jury, (Bradley Behmer) Polk County, Des Moines, IA. Areas of Expertise: ***"Perception of Threat"*** and ***"Control Technique"*** (Consulted and **Testified** – Assistant Polk County Attorney, Joe Weeg)
- December 2007 Grand Jury, (Christopher Byrd) Polk County, Des Moines, IA. Areas of Expertise: ***"Action/Reaction Parameters"*** and ***"Perception and Memory"*** (Consulted and **Testified** – Assistant Polk County Attorney, Joe Weeg)
- June 2007 Grand Jury, (David Stehl) Polk County, Des Moines, IA. Areas of Expertise: ***"Action/Reaction Parameters,"*** ***"Suicide by Cop,"*** ***"Tactics"*** and ***"Perception and Memory"*** (Consulted and **Testified** – Assistant Polk County Attorney, Joe Weeg)
- July 2005 Grand Jury, (Jonathon McCourt) Polk County, Des Moines, IA. Areas of Expertise: ***"Action/Reaction Parameters,"*** ***"Suicide by Cop,"*** ***"Tactics"*** and ***"Perception and Memory"*** (**Testified** – Deputy Attorney, Iowa Attorney General's Office, Doug Hammerand)
- May 2005 Grand Jury, (Daniel Scott) Polk County, Des Moines, IA. Areas of Expertise: ***"Biomechanics of Lethal Force"*** and ***"Action/Reaction Parameters"*** (Consulted and **Testified** – Assistant Polk County Attorney, Joe Weeg)
- April 2005 Grand Jury, (Arman Zilic) Polk County, Des Moines, IA. Areas of Expertise: ***"Action/Reaction Parameters,"*** ***"Suicide by Cop"*** and ***"Tactics"*** (Assistant Polk County Attorney, Joe Weeg)

March 2005 Grand Jury, (SPO Terrones) Polk County, Des Moines, IA. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Perception and Memory”** (Assistant Polk County Attorney, Joe Weeg)

March 2005 Grand Jury, (Brett Lynn Pace) Mills County, Glenwood, IA. Area of Expertise: **“Biomechanics of Lethal Force”** (Mills County Attorney, Marci L. Prier)

December 2004 Grand Jury, (Michael S. Reyna) Polk County, Des Moines, IA. Areas of Expertise: **“Biomechanics of Lethal Force,” “Action/Reaction Parameters”** and **“Effects of an Adverse Environment on Decision Making and Shooting”** (Assistant Polk County Attorney, Joe Weeg)

September 2004 Grand Jury, (Melvin Nagle) Dallas County, Adel, IA. Areas of Expertise: **“Suicide by Cop,” “Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (Attorney, Wayne Reisetter)

July 2004 Grand Jury, (Galbraith) Black Hawk County, Waterloo, IA. Areas of Expertise: **“Barricaded Subject”** and **“Edged Weapon Threat”** (Attorney, D. Raymond Walton)

April 2004 Grand Jury, (James J. Perez) Portland, OR. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Action/Reaction Parameters”** (Attorney, David Woboril)

April 2004 Grand Jury, (Nathan Vestal) Des Moines, IA. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Action/Reaction Parameters”** (Assistant Polk County Attorney, Joe Weeg)

March 2004 Grand Jury, (Jasper Lee Eckstein) Clarke County, Osceola, IA. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Suicide by Cop”** (Attorney, Elizabeth Reynoldson)

March 2004 Grand Jury, (Ricky Garcia, Jr.) Des Moines, IA. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Suicide by Cop”** (Assistant Polk County Attorney, Joe Weeg)

August 2003 Grand Jury, (Officer Craig Nowatka) Milwaukee, WI. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Action/Reaction Parameters”** (Milwaukee County District Attorney, Pat Kenney)

August 2003 Grand Jury, (Benjamin Fleenor) Sioux City, IA. Area of Expertise: **“Use of Force by Correctional Officers”** (Iowa Department of Justice Deputy Attorney General, Douglas Marek)

December 2002 Grand Jury, (Gary Jones) Des Moines, IA. Areas of Expertise: **“Shooting Decisions,” “Subject and Officer Movement in a Shooting Situation”** and **“Shooting into a Moving Vehicle”** (Assistant Polk County Attorney, Joe Weeg)

June 2002 Grand Jury, (Jeffrey Fletcher) Des Moines, IA. Areas of Expertise: **“Shooting Decisions,” “Police Management of Emotionally Disturbed/Suicidal Individuals”** and **“Use of Force Against Edged Weapon Attacks”** (Assistant Polk County Attorney, Joe Weeg)

May 2002 Grand Jury, (Charles Craighead) St. Paul, MN. Areas of Expertise: **“Action/Reaction Parameters,” “Subject Movement in Shooting Situations”** and **“Tactical Options for Law Enforcement”** (Scott County Attorney, Tom Harbinson)

December 2001 Grand Jury, (Carlos Rodriguez) Des Moines, IA. Areas of Expertise: **“Shooting Decisions”** and **“Tactical Options”** (Assistant Polk County Attorney, Joe Weeg)

November 2001 Grand Jury, (Marti Weber) Des Moines, IA. Area of Expertise: **“Use of Force by a Bouncer-LVNR”** (Assistant Polk County Attorney, Joe Weeg)

March 2000 Grand Jury, (Charles Lovelady) Des Moines, IA. Areas of Expertise: **“Carotid Neck Restraint”** and **“Positional Asphyxiation”** (Assistant Polk County Attorney, Joe Weeg)

- December 1999 Grand Jury, (Santos Rodriguez) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Tactical Options,” “Action/Reaction Parameters”*** and ***“Felony Stops”*** (Assistant Polk County Attorney, Joe Weeg)
- September 1999 Grand Jury, (Russell Stein) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Police Management of Emotionally Disturbed Individuals”*** and ***“Use of Force Against Edged Weapon Attacks”*** (Assistant Polk County Attorney, Joe Weeg)
- July 1999 Grand Jury, (Jerome Mozee) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Tactical Options,” “Action/Reaction Parameters”*** and ***“Domestic Abuse”*** (Assistant Polk County Attorney, Joe Weeg)
- May 1999 Grand Jury, (Adam Clarke) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Tactical Options”*** and ***“Action/Reaction Parameters”*** (Assistant Polk County Attorney, Joe Weeg)
- October 1997 Grand Jury, (Charles Dudley) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Tactical Options”*** and ***“Action/Reaction Parameters”*** (Assistant Polk County Attorney, Joe Weeg)
- April 1996 Grand Jury, Eugene, OR. I wrote a paper on ***“Perceptual Distortions and Cognitive Aberrations in Shooting Situations”*** to inform the county attorney on these phenomenon which subsequently resulted in a reduction of charges being brought to the grand jury. (Federation Attorney, John Hoag)
- September 1994 Grand Jury, (Robert Hutchinson) Des Moines, IA. Areas of Expertise: ***“Police Management of Emotionally Disturbed Individuals”*** and ***“Use of Force Against Edged Weapon Attacks”*** (Assistant Polk County Attorney, Joe Weeg)
- Fall 1993 Grand Jury, (Shooting of Shylow Thompson) Des Moines, IA. Areas of Expertise: ***“Shooting Decisions,” “Tactical Options”*** and ***“Action/Reaction Parameters”*** (Assistant Polk County Attorney, Joe Weeg)
- Summer 1992 Grand Jury, (Bill Moyer/Officer Negrete) Des Moines, IA. Areas of Expertise: ***“Pursuit Policy & Decisions”*** and ***“Use of Force”*** (Assistant Polk County Attorney, Joe Weeg)
- May 1992 Grand Jury, (Larry Milton) Des Moines, IA. Areas of Expertise: ***“Police Management of Emotionally Disturbed Persons”*** and ***“Police Use of Force”*** (Assistant Polk County Attorney, Joe Weeg)

CRIMINAL CASES

- June 2012 Criminal Suit: Travis Douglas Oakes – Fatality Inquiry, Justice and Attorney General of the Government of Alberta, Canada. Areas of Expertise: ***“Action/Reaction Parameters,” “Diagnosis of Shooting Encounters”*** and ***“Decision Making”*** (Testified – Barrister & Solicitor, Nancy McCurdy)
- October 2011 Criminal Suit: USA v Karl Thompson, Yakima Federal Court, Yakima, WA. Areas of Expertise: ***“Dynamics of a Force Encounter”*** and ***“Perception/Memory”*** (Testified, Deposed and Wrote Report, Attorney Carl Oreskovich)
- July 2010 Criminal Suit: People of the State of California v. Johannes Mehserle, Los Angeles County Superior Court, Los Angeles, CA. Areas of Expertise: ***“Training,” “Decision Processes”*** and ***“Perception/Attention”*** (Testified – Attorney, Michael Rains)
- February 2010 Preliminary Hearing: People of the State of California v. Swanson, Superior court of Monterrey County, Salinas, CA. Areas of Expertise: ***“Perception”*** and ***“Action/Reaction Parameters”*** (Testified – Attorney, Juliet Peck)

- June 2009 Criminal Suit: People of the State of California v. Franklin J. White, San Diego Superior Court, San Diego, CA. Areas of Expertise: **“Human Factors in a Deadly Force Encounter”** (Wrote Report, **Testified** – Attorney, Richard Pinckard)
- June 2007 Criminal Suit: People of the State of California v. Ivory John Webb, Jr., Superior Court for the State of California, County of San Bernardino, San Bernardino, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Performance Under Stress”** (Wrote Report, **Testified** – Attorney, Michael Schwartz)
- May 2007 Criminal Suit: State of Missouri v. Nicholas Forler, Circuit Court of the County of Lincoln, State of Missouri, Troy, MO. Area of Expertise: **“Perception/Reaction/Memory”** (Deposed and **Testified** – Attorney, James P. Towey)
- March 2007 Criminal Suit: Commonwealth v. Charles Chieppa, New Bedford Superior Court, Brockton, MA. Areas of Expertise: **“Perception and Memory”** and **“Attention”** (**Testified** – Attorney Kevin J. Reddington)
- December 2006 Common Pleas Court Hearing for a New Trial: Derrick Vinzant, Montgomery County Court, Dayton, OH. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (**Testified** – Attorney, Michael Pentecost)
- October 2006 Criminal Suit: State of South Carolina v. Tim Robertson, Court of General Sessions for the Fourth Judicial Circuit, Chesterfield County, SC. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (**Testified** – Attorney, Vinton D. Lide)
- October 2006 Criminal Suit: State of Connecticut v. Robert Murtha, Hartford Superior Court, Hartford, CT. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force”** and **“Perception and Memory”** (**Testified** – Attorneys, Michael Georgetti and Hugh Keefe)
- September 2006 Criminal Suit: People v. Nolan Bryan Graham, Humboldt County Superior Court, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (**Testified** – Attorney, Michael Eannarino)
- November 2005 Criminal Suit: People v. Michael Coffin, Tehama County Superior Court, Red Bluff, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force – Including the Relationship of Ejection Patterns to Biomechanics.”** (**Testified** – Attorney, C. Todd Bottke, Esq.)
- November 2005 Criminal Suit: People v. Mike Walker, San Jose Superior Court, San Jose, CA. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force”** and **“Perception and Memory.”** (**Testified** – Attorney, Craig Brown)
- June 2005 Criminal Suit: State of Maryland v. Arthur Lloyd, District Court of Maryland for Montgomery County, Maryland. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force – Including the Relationship of Ejection Patterns to Biomechanics”** and **“Perception and Memory”** (**Testified** – Attorney, Stephanie Roemer)
- January 2005 Criminal Suit: State of Texas v. Arthur Carbonneau, Houston, TX. Areas of Expertise: **“Unintended Discharge”** and **“Perception and Memory”** (Consulted and **Testified** – Attorneys, Brett Ligon and Aaron Suder)
- June 2004 Criminal Suit: State of Arizona v. Daniel Lovelace, Arizona Superior Court, Maricopa County, Phoenix, AZ. Expert Witness for the Defense. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of lethal Force – Including the Relationship of Ejection Patterns to Biomechanics”** and **“Perception and Memory”** (Consulted and **Testified** – Attorney, Craig Mehrens)

- December 2003 Preliminary Hearing: State of Arizona v. Daniel Lovelace, Arizona Superior Court, Maricopa County, Phoenix, AZ. Expert Witness for the Defense. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force – Including the Relationship of Ejection Patterns to Biomechanics”** and **“Perception and Memory”** (Testified – Attorney, Craig Mehrens)
- October 2003 Criminal Suit: State of Florida v. Hecksel, Florida Circuit Court of the Eighth Judicial Circuit in and for Alachua County, Gainesville, FL. Expert Witness for the Defense. Areas of Expertise: **“Biomechanics of Lethal Force”** and **“Action/Reaction Parameters”** (Testified – Attorney, Henry Ferro)
- September 2002 Criminal Suit: State of Iowa v. Charles Stevenson, Des Moines. IA, Expert Witness for the Prosecution. Areas of Expertise: **“Use of Force”** and **“Weapon Retention”** (Consulted, Plea Bargained, Settled – Attorney, Joe Weeg)
- February 2002 Criminal Suit: State of Minnesota v. Julie Terrell, Mankato, MN. Expert Witness for the Defense. Area of Expertise: **“Mothers Who Kill Their Children”** (Testified, sentencing phase – Attorney, Jim Fleming)
- December 2001 Criminal Suit: State of Iowa v. Marti Weber, District Court in Polk County, IA, Des Moines, IA. Expert Witness for the Prosecution. Area of Expertise: **“Use of Force”** (Testified – Attorney, Steve Fortano)
- December 2001 Criminal Suit: Government of the Virgin Islands v. David Medina, St. Croix, V.I., Expert Witness for the Defense. Area of Expertise: **“Weapon Retention,” “Unintended Discharge”** and **“Premature Discharge”** (Interviewed and Consulted – Attorney, Curt Otto)
- September 2001 Criminal Suit: State of Ohio v. Officer Stephen Roach, City Court, Hamilton County Municipal Court, Criminal Division, Cincinnati, OH. Expert Witness for the Defense. Areas of Expertise: **“Action/Reaction Parameters,” “Subject Movement in Shooting Situations”** and **“Internal Affairs Investigations”** (Testified – Attorney, Merlyn Shiverdecker)
- March/April, 2001 Criminal Suit: State of Arizona v. Officer Tim Norton, Municipal Court of the City of Phoenix, AZ. Expert Witness for the Defense. Areas of Expertise: **“Biomechanics of Force,” “Eye Witness Reports - Attention, Memory”** and **“Internal Affairs Investigations”** (Testified – Attorney, Michelle Molinario)
- March/April, 2001 Criminal Suit: State of Arizona v. Officer James Contreras, Municipal Court for the City of Phoenix, AZ. Expert Witness for the Defense. Areas of Expertise: **“Biomechanics of Force,” “Eye Witness Reports - Attention,” “Memory”** and **“Internal Affairs Investigation”** (Testified – Attorney, Craig Mehrens)
- March 1997 Criminal Suit: State of Texas v. James Bromstead, District Court, 296th Judicial District, Collin County, Dallas, TX. Expert Witness for the Defense. Area of Expertise: **“Law Enforcement Training for the Use of Deadly Force”** (Testified – Attorneys, Bill Hunt and Kim Wade)
- Spring 1993 Criminal Suit: State of Minnesota v. Officer Edward Nelson, District Court, Fourth Judicial District, Minneapolis, MN. Expert Witness for the Prosecution. Area of Expertise, **“Use of Force in Cuffing Situations”** (Consulted and Testified – Attorney, Steven Tallen)
- September 1990 Criminal Case: Ypsilanti, MI. A Civilian charged with homicide. Consulted for the Defense. Areas of Expertise: **“Shooting Decisions”** and **“Impact of Post-Shooting Trauma on Interrogation”** (Consulted – Attorney, Richard C. Digon)
- January 1988 Criminal Suit: Lorentz Case, 5th Judicial District, Blue Earth County, Mankato, MN. A female hostage was charged with homicide because of her actions in assisting her hostage taker. Consulted for the

defense. Area of Expertise: ***“Victim Trauma in Hostage Situations”*** (Wrote an opinion that was influential in plea bargaining – Attorney, Joe Bluth)

- November 1984 Criminal Suit: Benz Trial, Scott County District Court, Shakopee, MN. Expert Witness for the Prosecution, Area of Expertise: ***“Brainwashing”*** (Consulted and **Testified** – Attorney, Kathleen Morris)
- July 1977 Criminal Suit: Kevin Twerdun Case, Provincial Magistrates Court, Winnipeg, Manitoba, Canada. Expert Witness for the Prosecution. Area of Expertise: ***“Size and Distance Judgments Under Reduced Conditions of Viewing”*** (Consulted and **Testified**)
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CIVIL CASES

- November 2013 Civil Suit: Dorothy J. Sams v. City of Los Angeles, et al. U.S. District Court, Los Angeles, California. Areas of Expertise: ***“Shell casing ejection”, “Proximity of Shot”, “Action/Reaction”, “Decision Times”, “Duration of shooting”, “Time Required to Stop”.*** (**Deposed** – Attorney, Rena Shahandeh)
- August 2013 Civil Suit: Gregory Thompson v. City of Lebanon. U.S. District Court, Lebanon, Tennessee. Areas of Expertise: ***“Perception”, “Judgment Process”, “Attribution”, “Memory”, and “Action/Reaction.”*** (**Deposed** – Attorney, Robert Burns)
- May 2013 Civil Suit: Alex Wayne Morton v City of Guntersville, Alabama. U.S. District Court, Huntsville, Alabama. Areas of Expertise: ***“Action, Speed and Dynamics in a Deadly Force Encounter including acceleration of a vehicle,” “Speed of Movement of an Officer evading a Vehicle,” “Influence of Context on Perception,” “An officer’s perception and memory of location and action.”*** (**Testified** – Lead Attorney, Gary Grace)
- March 2013 Civil Suit: Champommier v. U.S., United States Courthouse, Los Angeles, CA. Areas of Expertise: ***“Reaction Time –impact of different holsters and timing levels on the speed of drawing and firing a hand gun”*** (**Testified** – Assistant U.S. Attorney, Chung Han)
- December 2012 Civil Suit: Alens Charles v Palm Beach County Sheriff’s Office, Circuit Court of the Fifteenth Judicial Circuit for Palm Beach County, FL. Areas of Expertise: ***“Perception /Memory”, “Action/Reaction”, “Attention”, “Schemas”, and “Contextual Cues”*** (**Deposed** – Attorney, Harriet Lewis)
- October 2012 Civil Suit: The Estate of McAllister, Brown v. City of Bridgeport. Superior Court Judicial District of Fairfield, Bridgeport, CA. Areas of Expertise: ***“Action/Reaction”, “Dynamics of Movement” and “Perception/Memory”*** (**Deposed and Testified** – Attorney, Betsy Edwards)
- October 2012 Civil Suit: Cristina Ibarra v. City of Los Angeles. U.S. District Court, Los Angeles, CA. Areas of Expertise: ***“Perception of Threat” and “Action/Reaction”*** (**Testified and Deposed** – Attorney, Rena Shahandeh)
- September 2012 Civil Suit: Diane Rhodes, et al. v. County of Los Angeles. Superior Court of California, Los Angeles, CA. Areas of Expertise: ***“Biomechanics of Lethal Force”, “Action/Reaction”, Dynamics of Movement”, and “Perception/Memory”*** (**Deposed and Testified** – Attorney, Christian Bojorquez)
- August 2012 Civil Suit: Kathryn Pollard v. City of Columbus, et al. U.S. District Court, Columbus, OH. Areas of Expertise: ***“Biomechanics of Lethal Force (Action/Reaction, Dynamics)” and “Perception/Memory”*** (Wrote Report and **Deposed** – Attorney, Wendy Esposito)
- August 2012 Civil Suit: Estate of Lukus Glenn v. Washington County, et al. U.S. District Court for the District of Oregon, Portland, OR. Areas of Expertise: ***“Biomechanics of Lethal Force (Action/Reaction, Dynamics), “Perception/Memory” and “Threat with an Edged Weapon Including Speed of Movement”*** (Wrote report and **Testified** – Attorney, William Blair)

- June 2012 Civil Suit: Rosa Maria Corrales v. Officer Clark David Impastato, et al., U.S. District Court, Phoenix, AZ. Areas of Expertise: **“Effect of Context”**, **“Attention”**, **“Perception”** and **“Action/Reaction”** (**Deposed** – Attorney, Kathleen Wieneke)
- Sept 2011 Civil Suit: Johnetta Davis v. City of Chicago, and David Garza. Circuit Court of Cook County, Chicago, IL. Areas of Expertise: **“Dynamics of a Shooting,”** **“Action/Reaction”** and **“Perception/Memory”** (**Testified** and **Deposed**, Attorney Jonathan Clark Green)
- August 2011 Civil Suit: Joseph Wolf v City of Los Angeles, et al. U.S. District Court Central District of California, Los Angeles, CA. Area of Expertise: **“Action/Reaction,”** **“Dynamic of Movement”** and **“Attention/Memory”** (**Deposed**– Attorney, Christian Bojorquez)
- July 2011 Civil Suit: Rodriguez v County of San Bernardino, et al. U.S. District Court Central District of California, Los Angeles, CA. Area of Expertise: **“Action/Reaction,”** **“Dynamic of Movement”** and **“Attention/Memory”** (**Deposed, testified** and wrote report – Attorney, Barry Hassenberg)
- June 2011 Civil Suit: A.K.C. et al. v The City of Santa Ana. U.S. District Court, Santa Ana, CA. Areas of Expertise: **“Action/Reaction (Time to Start & Stop),”** **“Moving Vehicles”** and **“Perception/Memory”** (**Deposed, testified** and wrote report – Attorney, Jill Babington)
- June 2011 Civil Suit: Omar Hurtado v The City of Los Angeles, et al. U.S. District Court, Los Angeles, CA. Areas of Expertise: **“Action/Reaction,”** **“Perception,”** and **“Memory in Shooting Situations”** (**Testified, Deposed** and wrote report – Attorney, Denise Mills)
- June 2011 Civil Suit: Diane Rose Campillo, et al. v. City of Phoenix, et al. Superior Court of the State of Arizona, Phoenix, AZ. Areas of Expertise: **“Biomechanics,”** **“Perception,”** **“Action/Reaction,”** **“Memory”** and **“Edged Weapons,”** (**Deposed** and wrote report – Attorney, Michelle Iafrate)
- April 2011 Civil Suit: Estate of Jesus Manzo v. County of San Diego. U.S. District Court, San Diego, CA. Areas of Expertise: **“Perception of Threat”** and **“Action/Reaction”** (**Testified** and wrote report – Attorney, Ricky Sanchez)
- March 2011 Civil Suit: Samantha Lopez, et al. v. The City of San Diego, et al. U.S. District Court, San Diego, CA. Areas of Expertise: **“Biomechanics (Context, Movement, Speed) of an Edged Weapon Assault,”** **“Action/Reaction,”** and **“Perception and Memory”** (**Testified** and wrote report – Attorney, David Axtmann)
- January 2011 Civil Suit: Anthony Alvarado v. City of Pomona, et al. U.S. District Court, Los Angeles, CA. Areas of Expertise: **“Action/Reaction”** and **“Contextual Cues of a Shooting Situation”** (**Testified** - Attorney David Torres-Siegrist)
- January 2011 Civil Suit: Estate of Joseph Bak v. Steven Orłowski, et al. U.S. District Court, New Haven, CT. Areas of Expertise: **“Biomechanics of a Deadly Force Encounter,”** **“Speed of a Knife Assault”** and **“Action/Reaction”** (**Testified** – Attorney, Stephen Sarnoski)
- December 2010 Civil Suit: Johnetta Davis v. City of Chicago, and David Garza. Circuit Court of Cook County, Chicago, IL. Areas of Expertise: **“Dynamics of a Shooting,”** **“Action/Reaction”** and **“Perception/Memory”** (**Testified** and **Deposed**, Attorney Jonathan Clark Green)
- November 2010 Civil Suit: Robert Tolan, et al. v. Jeffrey Wayne Cotton, et al. U.S. District Court, Houston, TX. Area of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (**Deposed** – Attorney, Norman Giles)

- October 2010 Civil Suit: Laura Michelle Cox, et al. v. City of Los Angeles, et al. Superior Court of the State of California, Los Angeles, CA. Area of Expertise: “***Behavioral Science Elements Of Officers and Assailants In A Shooting Situation***” (Deposed and **Testified** – Attorney, Colleen Smith)
- October 2010 Civil Suit: Estate of Jordan L. Case v. Washington County, et al. U.S. District Court, Hillsboro, OR. Areas of Expertise: “***Action/Reaction Parameters,***” “***Perception and Memory***” and “***Cognitive and Emotional Elements of Decision Making***” (Wrote Report and **Testified** – Attorney, William Blair)
- June 2010 Civil Suit: Vivica L. Sirmans, as Personal Representative of the Estate of Chester O. Washington, Jr., et al. v. Ric L. Bradshaw as Sheriff of Palm Beach County and Derek a. Savage, 15th Judicial Circuit in and for Palm Beach County, West Palm Beach, FL. Areas of Expertise: “***Perception/Memory***” and “***Action/Reaction***” (Deposed– Attorney, Fred Gelston)
- April 2010 Civil Suit: Maria Joya and Saleh Ali v. City of Hayward, U.S. District Court, San Francisco, CA. Areas of Expertise: “***Action/reaction Parameters,***” “***Weapon Retention***” and “***Novice’s Use of a Gun***” (Wrote report and **Testified** – Attorney, Randolph Hom)
- April 2010 Civil Suit: Estate of Jordan Case v. Washington County, U.S. District Court, Portland, OR. Areas of Expertise: “***Perception,***” “***Action/reaction Parameters,***” “***Memory***” and “***Decision Making***” (Wrote report and **Testified** – Attorney, Bill Blair)
- March 2010 Civil Suit: Sergio Lopez v. City of Chula Vista, U.S. District Court, San Diego, CA. Areas of Expertise: “***Action/Reaction Parameters***” and “***Decision Making Processes***” (Wrote report and **Testified** – Attorney, Karen Rogan)
- February 2010 Civil Suit: Laura Michelle Cox v. City of Los Angeles, Los Angeles Superior Court, Los Angeles, CA. Areas of Expertise: “***Memory,***” “***Subject Movement Times***” and “***Video Recording***” (Deposed– Attorney, Colleen Smith)
- February 2010 Civil Suit: J.D.R., et al. v. City of Los Angeles, et al., U.S. District Court, Los Angeles, CA. Areas of Expertise: “***Attention,***” “***Perception***” and “***Action/Reaction Parameters and Memory***” (Wrote report and **Testified** - Attorney, Denise Johnson)
- January 2010 Civil Suit: Amanda Perry Matter, Fairfax Circuit Court, Fairfax, VA. Areas of Expertise: “***Perception,***” “***Action/Reaction Parameters***” and “***Decision Making Processes***” (Wrote Report and Deposed – Attorney, David Fudala)
- January 2010 Civil Suit: Stringer v. City of San Pablo, U.S. District Court, San Francisco, CA. Areas of Expertise: “***Attention,***” “***Perception,***” “***Action/Reaction***” and “***Decision Making***” (Wrote report and **Testified** – Attorney Noah Blechman)
- November 2009 Civil Suit: Rhonda Dill, et al v. Sarah Dewitt, et al., U.S. District Court, Shreveport, LA. Areas of Expertise: “***Behavioral Dynamics of a Deadly Force Encounter***” and “***Spent Shell Casing Patterns***” (Wrote Report and Deposed – Attorney, Edwin Byrd)
- September 2009 Civil Suit: Davidson v. City of Chicago, et al. Cook County Circuit Court, Chicago, IL. Area of Expertise: “***Perception and Memory***” (Wrote Report, Deposed, **Testified** – Attorney, Stacy Benjamin)
- August 2009 Civil Suit: Lazos, Barrera v. City of Oxnard, et al., California Central District Court, Los Angeles, CA. Areas of Expertise: “***Action/Reaction Parameters,***” “***Motion in a Deadly Force Encounter***” and “***Perception and Memory***” (Wrote Report, Deposed, **Testified** – Attorney, Alan E. Wisotsky)
- July 2009 Civil Suit: Lorena Lopez v. City of Los Angeles, et al., Los Angeles Superior Court, Los Angeles, CA. Areas of Expertise: “***Attention/Reaction Parameters in Relation to Sighting/Shooting and Memory***” and “***Crossfire and Contagious Gunfire versus Misattribution***” (Wrote Report, Deposed, **Testified** – Attorney, Christian Bojorquez)

- June 2009 Civil Suit: Lidia Leon, et al. v. City of Huntington Park, et. al., U.S. District Court, Huntington Park, CA. Areas of Expertise: **“Attention/Reaction in a Shooting Situation”** and **“Physical Dynamics of Subject’s Perception and Memory”** (Wrote Report, Deposed– Attorney, Jill Babington)
- May 2009 Civil Suit: Tubar v. City of Kent, et al., U.S. District Court, Seattle, WA. Areas of Expertise: **“Action/Reaction Parameters,” “Perception and Memory”** and **“Behavioral Reconstruction”** (Wrote Report, Deposed, **Testified** – Attorney, Mary Ann McConaughy)
- April 2009 Civil Suit: Roketi Su’e v. City of Long Beach, Superior Court of California for the County of Los Angeles South District, CA. Areas of Expertise: **“Perception,” “Attention and Memory”** and **“Action/Reaction Parameters”** (Deposed – Attorney, Barry Meyers)
- March 2009 Civil Suit: Georgia Miller v. City of Los Angeles, et al. U.S. District Court, Los Angeles, CA. Areas of Expertise: **“Action/ Reaction”** and **“Perception/ Processing”** (Wrote Report and Deposed – Attorney, Richard Arias)
- March 2009 Civil Suit: Moss v. City of Danville, et al. U.S. District Court, Central District of Illinois, Danville, IL. Areas of Expertise: **“Action/ Reaction”** and **“Perception/ Processing”** (Wrote Report and Deposed – Attorney, Jack Martin)
- March 2009 Civil Suit: Caesar Ototi, et al. v. State of Arizona, et al. U.S. District Court, Maricopa County, Phoenix, AZ. Areas of Expertise: **“Perception and Memory”** and **“Action and Reaction”** (Wrote Report and **Testified** – Attorney, Richard Stewart)
- October 2008 Civil Suit: Zia Trust Company v. Montoya, Second Judicial District Court, Albuquerque, NM. Areas of Expertise **“Perception”** and **“Attention & Memory”** (Deposed and Report – Attorney, Kevin Brown)
- August 2008 Civil Suit: Meadours, et al. v. Ermel, et al., U.S. District Court Southern District, Houston Division, Houston, TX. Areas of Expertise: **“Perception/Processing,” “Action/Reaction”** and **“Attention/Memory”** (Wrote Report and Deposed – Attorney Norman R. Giles)
- August 2008 Civil Suit: Jake Williams v. City of Chicago, et al., Federal Court, Northern District of Illinois, Chicago, IL. Areas of Expertise: **“Perception/Processing”** and **“Action/Reaction Parameters”** (Wrote Report and Deposed – Attorney, Liza Franklin)
- August 2008 Civil Suit: Madrigal, et al. v. City of Mesa, et al., U.S. District Court, Mesa, AZ. Areas of Expertise: **“Perception/Processing,” “Action/Reaction”** and **“Attention/Perception/Memory.”** (Wrote Report and Deposed – Attorney, Marc Steadman)
- July 2008 Civil Suit: Foley v. City of Coronado, et al, Superior Court of the State of California, Los Angeles for the County of San Diego, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perceptions of Threat”** (Deposed and **Testified** – Attorney, Matthew Harrison)
- June 2008 Civil Suit: Menjivar v. City of Los Angeles, U.S. District Court Central District of California, Los Angeles, CA. Areas of Expertise: **“Attention,” “Biomechanics of Lethal Force,” “Action/Reaction Parameters”** and **“Lethal Force Scenario Analysis”** (**Testified** – Attorney, Denise Johnson, Esq.)
- May 2008 Civil Suit: Margaret Eichenlaub, et al v. Leroy Baca, et al, U.S. District Court, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perceptions of Threat”** (Deposed – Attorney, Dennis Gonzales)
- April 2008 Civil Suit: Cortez v. City of Los Angeles, et al, Los Angeles Superior Court of the State of California, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Less Lethal Force”** (**Testified** – Attorney, Craig Miller)

- April 2008 Civil Suit: Wasson v. North Liberty, U.S. District Court for the Southern District of Iowa, Davenport, IA. Areas of Expertise: **“Investigative Procedures,” “Perception and Memory,” “Biomechanics of Lethal Force,” “Action/Reaction Parameters”** and **“Spent Shell Casing Ejection”** (Testified – Attorney, Terry Abernathy)
- February 2008 Civil Suit: Bell v. Strausbaugh, et al, U.S. District Court, Eastern District of Wisconsin, Kenosha, WI. Areas of Expertise: **“Biomechanics of Lethal Force,” “Action/Reaction Parameters”** and **“Spent Shell Casing Ejection”** (Deposed – Attorney, Kevin Reak, Esq.)
- February 2008 Civil Suit: Menjivar v. City of Los Angeles, U.S. District Court Central District of California, Los Angeles, CA. Areas of Expertise: **“Attention,” “Biomechanics of Lethal Force,” “Action/Reaction Parameters”** and **“Lethal Force Scenario Analysis”** (Testified – Attorney, Denise Johnson, Esq.)
- February 2008 Civil Suit: Sheffield v. Robertson, et al, U.S. District Court of the State of South Carolina, Florence, SC. Areas of Expertise: **“Spent Shell Casing Ejection,” “Action/Reaction Parameters”** and **“Lethal Force Scenario Analysis”** (Wrote Report and Deposed – Attorney, Vinton Lide, Esq.)
- December 2007 Civil Suit: Winston Hayes v. County of Los Angeles, Superior Court of the State of California and for the County of Los Angeles, Los Angeles, CA. Area of Expertise: **“Perception and Memory”** (Deposed – Attorney, Dennis Gonzales)
- October 2007 Civil Suit: Salazar v. City of Chicago, Circuit Court of Cook County, Law Division, Chicago, IL. Areas of Expertise: **“Perception,” “Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (Testified – Attorneys, Jordan Marsh and Barrett Rubens)
- August 2007 Civil Suit: Quade v. Seamus Kaplan, et al, U.S. District Court for the Northern District of Illinois, Eastern Division, Madelein, IL. Areas of Expertise: **“Perception,” “Action/Reaction Parameters”** and **“Memory”** (Deposed – Attorney, Laura Scarry)
- July 2007 Civil Suit: Garry Torrence v. City of Pomona, et al, U.S. District Court for the Central District of California, Western Division, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force”** (Testified – Attorney, Steven Rothans)
- June 2007 Civil Suit: Ingram v. City of San Bernardino, U.S. District Court, San Bernardino, CA. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force”** and **“Perception/Memory”** (Wrote Report, Deposed and Testified – Attorney, Joseph Arias)
- June 2007 Civil Suit: Johnetta Davis for Hamilton v. City of Chicago and David Garza, Circuit Court of Cook County, Illinois County Department, Law Division, Chicago, IL. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force,” “Attention”** and **“Perception and Memory”** (Deposed – Attorney, Jonathon Clark Green)
- May 2007 Civil Suit: Fields, et al v. Nowotka, et al, U.S. District Court Eastern Division of Wisconsin, Milwaukee, WI. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force”** and **“Perception and Memory”** (Deposed – Attorney, Ms. Susan Lappen)
- April 2007 Civil Suit: Moreland v. State of Arizona, Superior Court of the State of Arizona in and for the County of Maricopa, Phoenix, AZ. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (Deposed – Attorney, Brian Kaven)
- April 2007 Civil Suit: Barkley v. Harris County, U.S. District Court for Southern District of Texas Houston Division, Houston, TX. Areas of Expertise: **“Action/Reaction Parameters,” “Biomechanics of Lethal Force”** and **“Perception and Memory”** (Deposed – Attorney, Fred Keys, Jr.)

- April 2007 Civil Suit: Estate of Juan Herrera, et al v. City of Buena Park, et al, U.S. District Court Central Division of California, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (Deposed – Attorney, Patrick K. Bobko)
- February 2007 Civil Suit: Zayas v. City of Santa Ana, et al, Superior Court of the State of California, County of Orange, Santa Ana, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory.”** (Testified – Attorney David P. Lenhardt)
- February 2007 Civil Suit: Kevin Dwayne Ellis v. City of Los Angeles, et al, Superior Court of the State of California, Los Angeles County, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (Testified – Attorney, Harold Becks, Esq.)
- September 2006 Civil Suit: Tomazic v. City of Cleveland and Officer Daniel Jopek, et al, U.S. District Court for the Northern District of Ohio, Eastern Division, Cleveland, OH. Areas of Expertise: **“Action/Reaction Parameters in Lethal Force Encounters”** and **“Perception and Memory”** (Testified – Attorney, Stephen Funk)
- August 2006 Civil Suit: Hudspeth, et al v. City of Shreveport, et al, U.S. District Court Western District of Louisiana, Shreveport Division, Shreveport, LA. Areas of Expertise: **“Perception and Memory”** and **“Action/Reaction Parameters in Lethal Force Encounters”** (Deposed – Attorney, Edwin Byrd, III)
- August 2006 Civil Suit: Salazar v. City of Chicago, et al, Circuit Court of Cook County, Chicago, IL. Areas of Expertise: **“Perception and Memory”** and **“Action/Reaction Parameters in Lethal Force Encounters”** (Deposed – Attorney, Dawn Bode)
- July/August 2006 Civil Suit: Dukes v. City of Chicago, et al, Circuit Court of Cook County, Chicago, IL. Areas of Expertise: **“Perception and Memory,”** **“Action/Reaction Parameters”** and **“Lethal Force Encounters”** (Deposed – Attorney, Dawn Bode)
- April 2006 Civil Suit: Evelyn Davis v. City of Los Angeles, Los Angeles, CA. Superior Court of the State of CA, County of Los Angeles Central District Court. Areas of Expertise: **“Perception and Memory”** and **“Action/Reaction Parameters in Lethal Force Encounters”** (Deposed – Attorney, Geoffrey Plowdon)
- April 2006 Civil Suit: Minnie Johnson v. City of Chicago, et al, Circuit Court of Cook County, Illinois, Chicago, IL. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (Deposed – Attorney, Margaret Carey)
- April 2006 Civil Suit: Vargas v. County of Los Angeles, et al, Superior Court of the State of California for the County of Los Angeles, Los Angeles, CA. Areas of Expertise: **“Perception”** and **“Action/Reaction Parameters of Lethal Force Encounters”** (Testified – Attorneys, Dennis Gonzales and Elizabeth Miller)
- March 2006 Civil Suit: Kely Wilkins, et al v. City of Oakland, et al, USCA for the Ninth Circuit Court, Oakland, CA. Areas of Expertise: **“Biomechanics of Lethal Force Encounters,”** **“Action/Reaction Parameters”** and **“Perception and Memory”** (Deposed – Attorney, Todd Boley)
- March 2006 Civil Suit: Woods v. Savage & Bieluch, et al, Circuit Court of the 15th Judicial Circuit in and for Palm Beach County, West Palm Beach, FL. Area of Expertise: **“Action/Reaction Parameters of Lethal Force Encounters”** (Deposed – Attorney, Fred Gelston)
- March 2006 Civil Suit: Duy Ngo v. Charles Storlie, John Doe, Richard Roe and the City of Minneapolis, U.S. District Court, Minneapolis, MN. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception/Memory in Lethal Force Encounters”** (Deposed – Attorney, Joseph Flynn)

- January 2006 Civil Suit: Roman v. Claeson and the City of Chicago, U.S. District Court for the Northern District of Illinois, Eastern Division, Chicago, IL. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception/Memory in Lethal Force Encounters”** (Deposed – Attorney, Robert Barber)
- January 2006 Civil Suit: Mabel Jones v. Prince George’s County, Maryland, et al. Upper Marlboro, MD. Areas of Expertise: **“Performance in High Stress Situations”** and **“Perception and Memory”** (Wrote Report, Deposed and **Testified** – Attorney, Rhonda L. Weaver)
- June 2005 Civil Suit: Kendra James v. Portland Police Bureau, U.S. District Court for the District of Oregon, Portland, OR. Areas of Expertise: **“Biomechanics of Lethal Force Encounters,” “Action/Reaction Parameters”** and **“Perception and Memory”** (**Testified** – Attorney, Robert Wagner)
- June 2005 Civil Suit: Kely Wilkins, et al v. City of Oakland, et al., USCA for the 9th Circuit, Oakland, CA. Areas of Expertise: **“Biomechanics of Lethal Force Encounters,” “Action/Reaction Parameters”** and **“Perception and Memory”** (Deposed – Attorney, Todd Boley)
- June 2005 Civil Suit: Humphrey v. Leatherman, U.S. District Court for the Northern District of Oklahoma, Tulsa, OK. Areas of Expertise: **“Biomechanics of Lethal Force Encounters”** and **“Perception and Memory”** (Wrote Report and Deposed – Attorney, Larry Simmons)
- April 2005 Civil Suit: Gail Washington v. City of Los Angeles, Superior Court of the State of California for the County of Los Angeles, Los Angeles, CA. Areas of Expertise: **“Biomechanics of Lethal Force Encounters”** and **“Perception and Memory”** (**Testified** – Attorney, Richard Arias)
- March 2005 Civil Suit: Henry Etta Ross v. County of Los Angeles, et al, Superior Court of the State of CA for the County of Los Angeles, Superior Court Case, Los Angeles, CA. Area of Expertise: **“Biomechanics of Lethal Force Encounters”** (**Testified** – Attorneys, Dennis Gonzales and Elizabeth Miller)
- February 2005 Civil Suit: Simona Wilfred v. County of Los Angeles, U.S. District Court, Los Angeles, CA. Area of Expertise: **“Biomechanics of Lethal Force Encounters”** (Wrote Report and Deposed – Attorneys, Dennis Gonzales and Elizabeth Miller)
- February 2005 Civil Suit: Bugarin v. City of Alhambra, U.S. District Court, Central District of California, Los Angeles, CA. Areas of Expertise: **“Biomechanics of Lethal Force Encounters,” “Perception and Memory”** and **“Spent Shell Casing Ejection”** (Deposed – Attorney, Elizabeth Feffer)
- September 2004 Civil Case: Drypen v. County of Oakland, Michigan, U.S. District Court, Eastern District of Michigan Southern Division, Southfield, MI. Areas of Expertise: **“Biomechanics of Lethal Force Encounters”** and **“Perception and Memory”** (Wrote Report and Deposed – Attorney, John J. Lynch)
- September 2003 Civil Suit: Estate of Damon Lowery v. City of Portland, U.S. District Court, District of Oregon, Portland, OR. Area of Expertise: **“Perception and Memory”** (**Testified** – Attorney, Mary Danford)
- July 2003 Civil Suit: Alex Reyes v. City of Richmond, U.S. District Court for the Southern District of Texas, Houston Division, Houston, Texas. Area of Expertise: **“Biomechanics of Lethal Force Encounters”** (Wrote Report, Deposed and **Testified** – Attorney, William Helfand)
- May 2003 Civil Suit: Estate of Stanley Chambers v. Paul Strozewski, et al, Pierce County, Superior Court for State of Washington, Tacoma, WA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force Encounters”** (Wrote Report and **Testified** – Attorney, Jean Homan)
- April 2003 Civil Suit: Sergio Ruiz v. County of Los Angeles, et al, Superior Court of the State of California for the County of Los Angeles Central District, Los Angeles, CA. Areas of Expertise: **“Action/Reaction Parameters”** and **“Biomechanics of Lethal Force Encounters”** (**Testified** – Attorney, Richard Kemalyan)

- February 2003 Civil Suit: Hodgson, et al v. Phan, Prince George’s County, Maryland, et al, Circuit Court, Prince George’s County, Maryland. Areas of Expertise: **“Action/Reaction Parameters,” “Subject Movement in Shooting Situations”** and **“Stress Reactions and Memory Problems in Lethal Force Encounters”** (Submitted Opinion and **Testified** – Attorneys, Crystal Dixon Mittelstaedt and Jay Creech)
- October 2002 Civil Suit: Roland Ericksen v. City of Comfrey, et al. Minnesota District Court, 5th Judicial District, New Ulm, MN. Area of Expertise: **“Use of Force in Arrests”** (Wrote Report and **Testified** – Attorney, Dan Birkholtz)
- September 2002 Civil Suit: Tina Lee Vogt v. City of Los Angeles, Los Angeles, CA. (Anthony Dwain Lee, “Halloween Shooting.”) Area of Expertise: **“Biomechanics of Lethal Force Encounters”** (Consulted and Deposed – Attorney, Cory Brente)
- December 2001 Civil Suit: Carr v. City of Oklahoma, et al, U.S. District Court, Western District, Oklahoma City, OK. Areas of Expertise: **“Action/Reaction Parameters”** and **“Subject Movement in Shooting Situations”** (Wrote Report and **Testified** – Attorneys, Susan A. Knight and Robert Manchester)
- August 2001 Civil Suit: Mabel Jones v. Prince George’s County, Maryland, et al. Upper Marlboro, MD. Areas of Expertise: **“Performance in High Stress Situations”** and **“Perception and Memory”** (Wrote Report and Deposed – Attorney, Rhonda L. Weaver)
- June 2001 Civil Suit: Claire Saunders v. City of Santa Rosa, et al. Superior Court, Santa Rosa, CA. Areas of Expertise: **“Action/Reaction Parameters,” “Subject Movement in Shooting Situations”** and **“Tactical Options for Suicide by Cop”** (Wrote Report and Deposed – Attorney, Brien J. Farrell)
- September 1999 Civil Suit: Estate of David Fuentes v. Thomas, et al, Federal Court, U.S. District Court for District of Kansas, Topeka, KS. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perceptual Distortions Cognitive Aberrations and Memory Problems in Shooting Situations”** (Wrote Report and **Testified** – Attorney, David R. Cooper)
- April 1998 Civil Suit: Danielson v. Whitledge, Federal District Court, Ramsey County, St. Paul, MN. Area of Expertise: **“Handcuffing”** (**Testified** – Attorney, David Dietz)
- February 1992 Civil Suit: Estate of Tycel Nelson v. City of Minneapolis, MN. Minneapolis, MN. Areas of Expertise: **“Shooting Decisions”** and **“Biomechanics of Force”** (Consulted and Deposed – Attorney, Stephen Tallen)
- June 1991 Civil Suit: T. Kadel v. City of Minneapolis, Minnesota District Court, Minneapolis, MN. Expert Witness for the City. Areas of Expertise: **“Handcuffing”** and **“Physical Control/Handcuffing”** (**Testified** – Attorney, Bruce Peterson)

ARBITRATION HEARINGS

- November 2012 Arbitration: BART v. Antony Pirone. Oakland, CA. Areas of Expertise: **“Action/Reaction,” “Dynamics of Movement”** and **“Perception/Memory”** (**Testified** – Attorney, William Rapoport)
- May 2012 Arbitration: Kirk Steele Shooting, Edmonton Police Service Professional Standards Board, Edmonton, Canada. Areas of Expertise: **“Action/Reaction Parameters,” “Diagnosis of Shooting Encounters,” “Decision Making”** and **“Running and Falling Times”** (**Testified** – Attorney, Laura Stevens)
- November 2011 Arbitration: Ron Frashour v. Portland Police Bureau, Portland, OR. Areas of Expertise: **“Action/Reaction”** and **“Perception/Memory”** (**Testified** – Attorney, Anil Karia)

- October 2010 BART District Police Officer MarySol Domenici, San Francisco BART Headquarters Arbitration for Administrative Proceeding, Oakland, CA. Areas of Expertise: **“Officer Reaction/Decision Making”** and **“Perception/Attention and Memory”** (Testified – Attorney, Alison Berry Wilkinson)
- September 2008 Arbitration: Robert Murtha Arbitration, Superior Court, Hartford, CT. Areas of Expertise: **“Action/Reaction Parameters”** and **“Perception and Memory”** (Testified- Attorney, Stephen McEleney)
- November 2007 Arbitration Hearing: Officer Gary Elde, Anchorage, Alaska. Areas of Expertise: **“Action/ Reaction Parameters”** and **“Biomechanics of Force”** (Consulted and Testified – Alaska Correctional Officers Association)
- January 2007 Adverse Judicial Finding: Middleditch, London, England. Area of Expertise: **“Perception and Memory During an Arrest Using Physical Control”** (Consulted and Testified – Attorney, Scott Ingram)
- December 2006 Disciplinary Hearing: Officer Steven Garcia, Los Angeles, CA. Areas of Expertise: **“Perception and Memory”** and **“Action/ Reaction”** (Testified – Attorney, Michael Stone)
- February 2006 Disciplinary Hearing: Officer David Hale, Los Angeles, CA. Area of Expertise: **“Perception and Memory”** (Testified – Attorney, Mr. Randal Quan)
- November 2005 Disciplinary Hearing: Officer Timothy Carpenter, Portland, OR. Area of Expertise: **“ Perception and Memory During an Arrest Using Physical Control”** (Consulted and Testified – Attorney, Will Aitchison)
- October 2004 Arbitration: Daniel Lovelace Arbitration Hearing, Phoenix, AZ. Areas of Expertise: **“Biomechanics of Force”** and **“Perception and Memory”** (Testified – Attorney, Dale Norris)
- July 2003 Arbitration: Phoenix, AZ v. Officer Richard Fisher, Phoenix, AZ. Expert Witness for the Officer. Area of Expertise: **“Action/Reaction in Lethal Force Encounters”** (Testified – Attorney, Dale Norris)
- July 2001 Arbitration: Portland Police Bureau/Doug Oliver, Portland, OR. Expert Witness for the Officer. Area of Expertise: **“Post Traumatic Stress Disorder”** (Settled – Attorney, Will Aitchison)
- March/April 2001 Arbitration: Phoenix, AZ v. Officer Tim Norton, Phoenix, AZ. Expert Witness for the Officer. Areas of Expertise: **“Biomechanics of Force,” “Eye Witness Reports,” “Attention and Memory”** and **“Internal Affairs Investigations”** (Testified – Attorney, Dale Norris)
- March/April 2001 Arbitration: Phoenix, AZ v. Officer James Contreras, Phoenix, AZ. Expert Witness for the Officer. Areas of Expertise: **“Biomechanics of Force,” “ Eye Witness Reports,” “Attention and Memory”** and **“Internal Affairs Investigations”** (Testified – Attorney, Dale Norris)
- December 1998 Arbitration: Hildreath, State of IA, DPS. Expert Witness for the State. Area of Expertise: **“Communication and Tactical Options on a DUI Stop”** (Testified – Attorney, Mr. Galloway)
- December 1997 Arbitration: City of Eugene v. Officer Randy Berger, Eugene, OR. Areas of Expertise: **“Psychological Fitness for Duty Examinations,” “Shooting Decisions”** and **“Post Shooting Trauma”** (Testified – Attorney, John Hoag)
- April 1994 Arbitration: Consulted for the League of Minnesota Cities, Minneapolis, MN. Area of Expertise: **“Law Enforcement Education and Career Alternatives”** (Attorney, Cliff Greene)
- December 1993 Arbitration: Schenectady, NY. Area of Expertise: **“Management Styles and Police Stress”** (Consulted and Testified for the Police Benevolent Association.)

- Spring 1993 Arbitration: Bengston v. City of Apple Valley, MN. Expert witness for the City of Apple Valley. Area of Expertise: ***“Corruption and Ethics in Law Enforcement”*** (Consulted and **Testified** – Attorney, Cliff Greene)
- Fall 1992 Arbitration: Sonya Davis v. Lane County (Eugene, OR.) Expert Witness Ms. Davis. Area of Expertise: ***“The Use of Psychological Testing in Law Enforcement”*** (**Testified** – Attorney, John Hoag)
- October 1991 Police Federation of Minneapolis Police Department: Submitted Affidavit for “Comparable Worth” Appeal, Minneapolis, MN. Area of Expertise: ***“Police Stress”*** (Attorney, Theresa Ayling)
- July 1990 State of Minnesota, Office of Administrative Hearings: Expert Witness. Area of Expertise: ***“Police Stress”*** (Wrote opinion in the case of Anderson v. Brown County, et al.)