

Charles “Sid” Heal
Curriculum Vitae

Personal Information

Charles “Sid” Heal
Born in Flint, Michigan
April 17, 1950

Married, five children

Formal Education

Masters of Science Degree, (1995) California State Polytechnic
University at Pomona, “Management”

Masters Degree (1979), University of Southern California,
“Public Administration”

Bachelors of Science Degree (1974), California State University at
Los Angeles, “Police Science and Administration,” awarded
with High Honor

Associate of Arts (1982), Pasadena City College
“Criminal Justice,” awarded with Administration Honors

Graduate U.S. Department of Justice, FBI National Academy,
Class #200, (2000)

Graduate California Peace Officer’s Standards and Training, Center
for Leadership Development, Command College, Class #19, (1995)

California POST Commission Certificates

Peace Officer	Basic, Basic-Specialized, (Investigation), Intermediate and Advanced Certificates Specialized Training Certificates
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Sergeant	Supervisory Peace Officer Certificate
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Lieutenant	Police Management Certificate
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Clearance

Top Secret, Background Investigation, 2005

Certificates

Teaching Credentials, issued by the Board of Governors of the California Community Colleges, No. 215054, valid for life

California State Contractor’s License, issued by California State Contractor’s License Board, General Contractor, No. 539127

Associations

Member, National Institute for Urban Search and Rescue, member of the Executive Committee of the Joint Boards, Liaison First Response, Law, 2007-2008

Life Member, National Tactical Officers Association

Member and Serving Vice-President, California Association of Tactical Officers

Member, California State Sheriff’s Association

Member, Marine Corps Association

Member, Marine Corps Reserve Association

Member, Association of Los Angeles Deputy Sheriff’s

Member, International Association of Chiefs of Police

Member, Police Futurists International

Life Member, Crisis Negotiation Team Association (Division of National Tactical Officers Association)

Member, World Futures Society

Member, Los Angeles County Management Council

Founding and serving member, and serving Board Member, International Law Enforcement Forum

Founding and serving member, Institute for Nonlethal Defense Technologies, Pennsylvania State University, Applied Research Laboratory

Awards and Commendations

Recipient of more than 150 formal or written commendations from law enforcement, military and governmental agencies.

Letter of Appreciation, Lt. General A.M. Gray, United States Marine Corps for training presentation on hostage rescue techniques and urban warfare, 1986

Received award from the Dutch Royal Marines for training in Hostage Rescue Techniques, 1988

Awarded the National Tactical Officer’s Association, Tactical Officer of the Year—Award of Excellence, (John Kolman Award), 1989 and 2003

Letter of Appreciation from California Commission on Peace Officer Standards and Training, (POST), for serving as consultant, 1989

Letter of Appreciation from U.S. Department of Justice, Federal Bureau of Investigation for providing information and instruction on SWAT related subjects, 1989

Letter of Appreciation, Office of the State Attorney, Eighteenth Judicial Circuit of Florida for providing expert testimony on SWAT related subjects, 1989

Certificate of Appreciation, Tactical Response Association, for presentation on tactical diagramming, September 1991

Commendation from the Emergency Preparedness Commission for the County and Cities of Los Angeles for the development of a comprehensive series of training courses on Civil Disorder Management, December 1993

Recipient of the Los Angeles Sheriff’s Department’s Meritorious Service Award, March 1994

Letter of Appreciation, Brigadier General John W. Hill, U.S. Marine Corps Reserve for efforts in support of Warfighting Center 3d MEB, 1994

Awarded Certificate of Appreciation and lifetime membership in National Tactical Officer’s Association, March 1994

Awarded lifetime membership in Crisis Negotiators Team Association, September 2001

Certificate of Appreciation from Pasadena Police Department, Pasadena, California for services during the 1994 Champion World Cup Soccer Games, August 1994

Letter of Appreciation from Los Angeles County Board of Supervisors for coordination and support efforts during the 1994 Northridge Earthquake, August 1994

Letter of Appreciation from Department of the Treasury, Bureau of Alcohol, Tobacco and Firearms for providing information on SWAT related subjects, October 1994

Letter of Appreciation from Honorable Daniel H. Simpson, Special Envoy to Somalia and Anthony C. Zinni, LtGen, USMC, March 1995

Letter of Appreciation, Los Angeles Police Department, Chief Willie Williams, for command-level briefing on Oklahoma City Bombing, June 1995

Letter of Appreciation, Lieutenant General A.C. Zinni, U.S. Marine Corps, for advising and assisting on nonlethal options during the withdrawal of United Nations personnel from Mogadishu, Somalia, July 1995

Letter of Appreciation, California Commission on Peace Officer Standards and Training, for assistance on Warrant Service and Entry Tactics Telecourse Curriculum Committee, October 1995

Letter of Appreciation, California Peace Officers' Association, for presentation at Use of Force – What are the Choices? Workshop, December 1995

Commendation, California Office of Emergency Services, for service in the revision of the *Law Enforcement Guide for Emergency Operations Planning*, March 1996

Letter of Appreciation, State of Nebraska, for training in managing civil disasters and Platoon Commander's Course, June 1996

Letter of Appreciation, Australian Special Forces, for providing information and briefings on law enforcement special operations and urban tactics, July 1996

Letter of Appreciation, Office of the Attorney General, State of Kansas, for information on employing diversionary devices during high-risk entries, February 1997

Letter of Appreciation, U.S. Department of Justice, National Institute of Justice, Office of Science and Technology for efforts on Counter-Terrorism Land Transportation Security Focus Group, April 1997

Letter of Appreciation, U.S. Naval Post-Graduate School, for assistance in analyzing non-lethal weapon requirements and capabilities, September 1997

Letter of Appreciation, Jane’s Information Group, for presentation to International Non-Lethal Weapons Conference, London, England, December 1997

Letter of Appreciation, California Association of Force Instructors, for presentation on non-lethal force options, January 1998

Letter of Appreciation, Independent Commission on Policing for Northern Ireland, for briefings, presentations and information on nonlethal options, January 1999

Letter of Appreciation from RAND Arroyo Urban Operations Team, the U.S. Marine Corps Warfighting Laboratory and the Joint Staff’s J8 Urban Working Group for presentation on nonlethal options at Defense Intelligence Agency, Bolling AFB, Maryland, April 1999

Letter of Appreciation, Arizona Department of Public Safety, for work on the U.S. Department of Justice Working Group on Civil Disorders, April 1999

Certificate of Appreciation, Florida Department of Law Enforcement, Tampa Bay Regional Operations Center for presentation of Civil Disturbance Command Course, October 1999

Letter of Appreciation, Honorable Solomon P. Ortiz, Member of Congress, House of Representatives, for training local law enforcement personnel in Texas in Civil Disobedience Tactical Training, June 1999

Recipient of the Los Angeles Sheriff’s Department’s Distinguished Service Award, October 2001

Selected national chairperson Commander’s section of the National Tactical Officer’s Association, September 2002

Certificate of Appreciation, for exceptional support to the Joint Non-Lethal Weapons Program, Joint Non-lethal Weapons Directorate, January 2004

Certificate of Appreciation, California Commission on Peace Officer Standards and Training, for contribution to California State SWAT Executive Committee, 2005

Certificate of Excellence, Executive Development Program, Los Angeles Sheriff’s Department, 2005

Lifetime Achievement Award, California Association of Tactical Officers, October 2008

Founding member, and serving Vice-President of California Association of Tactical Officers

Law Enforcement Training

October 1979	Prison Gang Overview	California. Dept. of Justice
December 1979	Techniques of Teaching	California State Department of Education
December 1979	Advanced Driver’s Training	LASD
November 1980	Specialized School of Advanced Criminology for Law Enforcement	FBI
January 1981	Combat Shotgun	LASD
March 1981	AR-15 Rifle Qualification Course	LASD
April 1981	AR-15 Rifle Qualification Course	LASD
October 1981	Weapons Training	LASD
January 1982	Cocaine School	California Narcotic Officer’s Association
January 1983	Terrorism Seminar	City of Hawthorne
April 1983	Field Operations School for Sergeants	LASD
July 1983	Assertive Supervision	Southwest Regional Training Center
September 1983	Sergeant Supervision School	POST

October 1983	Mobile Platoon Tactics	LASD
March 1984	Legal Aspects of Patrol Activities	Law Enforcement Legal Reporter, Inc.
April 1984	Civil Emergency, Advanced Officer Training	LASD
June 1984	Narcotics Addiction	LASD
July 1984	Basic Narcotics Investigations	LASD
November 1984	Advanced Narcotics Investigation	LASD
December 1984	Drug Law Enforcement	California Narcotic Officer’s Association
February 1985	Special Weapons Team Training School #28	LASD
February 1985	Weapons Training	LASD
March 1985	Weapons Training	LASD
March 1985	MP-5 Assault Rifle Training	LASD
March 1985	Combat Shotgun Course	LASD
March 1985	Automatic Weapon Assault Course	LASD
March 1985	Automatic Handgun Assault Course	LASD
March 1985	Barricaded Suspect	LASD
April 1985	Barricaded Suspect	LASD
April 1985	Special Weapons Team, Terrorist Training	LASD
April 1985	Weapons Training	LASD
April 1985	Heckler-Koch P7 Weapons Training	LASD
May 1985	Special Weapons Training	LASD
May 1985	Weapons Training	LASD
May 1985	Barricaded Suspect Tactics	LASD

May 1985	Safety & Handling of Marine Explosives	Broco, Inc.
June 1986	Peer Counselor Training	LASD
February 1986	Positive Thinking for Law Enforcement	LASD
March 1986	High Risk Entry Techniques	LASD
June 1986	Hostage Rescue Techniques	LASD/USMC
June 1986	Tactics for Vehicle Stops	LASD
June 1986	High Risk Entry Techniques	LASD
June 1986	Helitac Training, (Airborne Vertical Insertions)	LASD
June 1986	Terrorist Training	LASD
June 1986	Explosive Breaching	LASD
June 1986	Assault Training	LASD
June 1986	Civil Liability Training	LASD
November 1986	Computer Basics for Law Enforcement	New Horizons Computer Learning Center
September 1986	Advanced Driver’s Training	LASD
October 1986	Tactical Operations Course	National Tactical Officer’s Association
December 1986	Career Integrity Workshop	LASD
December 1986	Automatic Handgun Assault Course	LASD
January 1987	Domestic Violence	LASD
January 1987	High Performance Driver’s Training	LASD
March 1987	Aircraft Interventions	LASD/USN
August 1987	Automatic Handgun Assault Course	LASD

November 1987	Automatic Handgun Assault Course	LASD
January 1988	Post Trauma Stress	National Council on Alcoholism
May 1988	Basic Hostage Negotiations	LASD
May 1988	Crowd Control Techniques	LASD
September 1988	Hostage Rescue Techniques	LASD
September 1988	Helitac Training, (Vertical Insertions)	LASD
October 1988	Dignitary Protection	LASD
October 1988	Assault Course	LASD
October 1988	Movement Training	LASD
October 1988	Basic Hostage Negotiation	San Jose State University
November 1988	Beretta Conversion Training	LASD
November 1988	Movement Training	LASD
April 1989	Tactical Communications	LASD
April 1989	High Risk Entry Training	LASD
May 1989	Civil Disorder Training	LASD
May 1989	Supervision Up-Date Seminar	Chapman College
May 1989	Special Weapons Training	LASD
October 1989	POST Mid-Management Course	California State University, Northridge
April 1989	Training Management Course	Justice Training Institute
September 1990	Anti-Riot Weapon Enfield (ARWEN) training	LASD

October 1991	Legal Education Update Seminar	California State University, Long Beach
February 1992	Hazardous Materials Scene Management (Rio Hondo College)	LASD
October 1992	Incident Command System, Officer In Charge Course	LASD
January 1993	Civil Disorder Management Course	LASD
February 1993	Civil Disorder Platoon Commander’s Course	LASD
September 1994	Disaster Planning	California Specialized Training Institute
November 1994	Earthquake Recovery	California Specialized Training Institute
January 1996	Emergency Operations Center, Executive Course	LASD
May 1997	Risk Management Course	LASD
August 1998	Thinking Outside the Box Seminar	Skill Path Seminars
January 1999	Project Management Course	Career Track Seminars
October 1999	Taser Instructor’s Certification Course	Taser International, Inc.
October 1999	Taser Instructor’s Certification Course	Tasertron, Inc.
March 2000	Chemical Agents in Law Enforcement (Instructor Course)	Federal Bureau of Investigation
March 2000	Legal Issues for Command-Level Officers	Federal Bureau of Investigation

March 2000	Overview of Forensic Science for Police Administrators and Managers	Federal Bureau of Investigation
September 2000	Leadership Development Training	LASD
February/March 2002	Chemical/Biological Training	LASD
August 2003	Taser Master Instructor’s Certification Course	Taser International, Inc.
July 2004	Law Enforcement Mutual Aid Course	Calif. OES
January 2005	National Incident Management System (NIMS) an Introduction	FEMA
February 2005	Basic Incident Command System	FEMA
February 2005	Principles of Emergency Management	FEMA
March 2005	Emergency Planning	FEMA
March 2005	Leadership & Influence	FEMA
March 2005	Effective Communication	FEMA
March 2005	Decision Making & Problem Solving	FEMA
April 2005	Developing and Managing Volunteers	FEMA
April 2005	Exercise Design	FEMA
April 2005	Professional Development Series (Emergency Management)	FEMA
October 2005	Executive Development Program	LASD
October 2005	Non-Lethal Weapons Course	Penn State
July 2006	ICS for Single Resources and Initial Action Incidents	FEMA
July 2006	Introduction to the Incident Command System	FEMA

March 2007	Staff Training—Action Planning Course	L.A. County OEM
July 2007	National Incident Management System (NIMS) 300 Course	U.S. DHS
July 2007	National Incident Management System (NIMS) 400 Course	U.S. DHS
July 2007	Less-Lethal Weapons: Policies, Procedures and Technologies	Penn State
July 2007	California Standardized Emergency Management System Course (SEMS)	LA OEM
September 2007	Taser Master Instructor’s (Re-certification Course)	San Bernardino Sheriff’s Office

Military Training (relating to tactics and/or law enforcement)

June 1977	Fire Support Coordination	USMC
November 1980	Advanced Techniques of Criminal Profiling	USMC/FBI
January 1982	Map Reading and Land Navigation	Marine Corps Institute
March 1982	Landing Force Staff Planning Course	USMC
March 1982	Supporting Arms	Marine Corps Institute
March 1982	Combat Intelligence	Marine Corps Institute
May 1982	Rifle Platoon in the Offense	Marine Corps Institute
May 1982	Rifle Platoon in the Defense	Marine Corps Institute
November 1982	Amphibious Operations	Marine Corps Institute

November 1982	Tactical Fundamentals	Marine Corps Institute
January 1983	Advanced Tactics	Marine Corps Institute
April 1984	Operations against Guerrilla Units	Marine Corps Institute
June 1985	Communications Plans and Orders	Marine Corps Institute
June 1985	Reconnaissance Marine	Marine Corps Institute
October 1985	Operations on Urban Terrain	Marine Corps Institute
April 1987	Terrorism Counteraction For Marines	Marine Corps Institute
July 1990	Small Unit Tactical Problems	Marine Corps Institute
October 1990	Marine Corps Leadership	Marine Corps Institute
December 1990	Combined Arms	Marine Corps Institute
December 1990	Combat Techniques	Marine Corps Institute
May 1992	Desert Operations	Marine Corps Institute
September 1992	Warfighting Skills Nonresident Program	Marine Corps Institute
June 1993	Military Functions in Civil Disturbances	Marine Corps Institute

December 1995	Introduction to Combat Intelligence	Marine Corps Institute
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Law Enforcement Experience

June 1975	Cadet, attending Rio Hondo Police Academy #32, recruit level training and POST Qualification (First in Class)
September 1975	Investigator, Los Angeles County District Attorney’s Office, Bureau of Investigation, Pretrial Liaison section, assigned to Pasadena Branch, Los Angeles Superior Court
January 1977	Deputy Sheriff Trainee, Los Angeles Sheriff’s Department, assigned to Administrative Division, Sheriff’s Academy Class #183, recruit level training and POST Qualification (First in Class)
May 1977	Deputy Sheriff, assigned to Men’s Central Jail Facility, Custody Division, Module Officer, Prowler and Facility Training Deputy
January 1980	Deputy Sheriff, assigned to Firestone Sheriff’s Station, Field Operations Region II, Patrol Deputy and Field Training Officer
October 1982	Deputy Sheriff, assigned to Industry Sheriff’s Station, Field Operations Region III, Patrol Deputy, Special Projects Deputy and Acting Sergeant
April 1983	Sergeant, assigned to Crescenta Valley Sheriff’s Station, Field Operations Region I, Field Sergeant, Watch Sergeant and Station Training and Scheduling Sergeant
January 1985	Sergeant, assigned to Special Enforcement Bureau, Field Operations Region II, Team Leader of Special Weapons Team- Blue Team, Special Projects and Bureau Training Sergeant

July 1989 Lieutenant, assigned to Central Property and Evidence Facility, Executive Division, Unit Commander

August 1990 Lieutenant, assigned to Firestone Sheriff's Station, Field Operations Region II, Watch Commander, Training and Scheduling Lieutenant, Manager of Patrol Operations, Project Manager of Career Criminal Apprehension Program

July 1992 Lieutenant, assigned to Lennox Sheriff's Station, Field Operations Region II, Watch Commander

September 1992 Lieutenant, assigned to Hall of Justice Jail Facility, Custody Division, Watch Commander

November 1992 Lieutenant, assigned to Firestone Sheriff's Station, Field Operations Region II, Watch Commander

December 1992 Lieutenant, assigned to Transit Services Bureau, Field Operations Region II, Watch Commander

March 1993 Lieutenant, assigned to Civil Disorder Task Force Training Group, Administrative Division, Unit Commander

May 1993 Lieutenant, assigned to Transit Services Bureau, Field Operations Region II, Watch Commander

August 1993 Lieutenant, assigned to Walnut/San Dimas Regional Sheriff's Station, Field Operations Region III, Watch Commander

April 1994 Lieutenant, assigned to Emergency Operations Bureau, Field Operations I, Operations & Special Projects Lieutenant

March 1997 Lieutenant, assigned to Special Projects Group, Office of the Undersheriff

December 1999	Lieutenant, assigned to “technology exploration,” Field Operations Region III
January 2001	Captain, assigned as commanding officer, Special Enforcement Bureau, Special Operations Division
August 2003	Commander, assigned as Commander of the Department, Office of the Undersheriff

SWAT and Command Experience

Assigned to the Los Angeles Sheriff’s Department, Special Enforcement Bureau (1985-1989) and responsible for the selection, training and supervision of Special Weapons Team - Blue. Bureau Training supervisor from September 1988 to July 1989.

Commanded and directed police and public safety personnel responding to several hundred life threatening (high risk) field operations, including street riots, jail riots, major fires, floods, barricaded suspects, hostage incidents, sniper situations, high risk search and arrest warrant services, site security and dignitary protection details.

Commanded and directed police personnel and security forces in response to public demonstrations and civil disorder at various public facilities including the Los Angeles County Board of Supervisor’s Hearing Room, Los Angeles County Music Center, the City of Glendale Central Library, U.S. Federal Building, etc.

Served as consultant to California Commission on Peace Officer Standards and Training in SWAT related subjects, 1989-1991 and 2003 to 2005

Commanded and directed police and military personnel and other security forces during the 1992 Los Angeles Riots.

Team Leader for Civil Disorder Task Force Training Group, trained over 800 law enforcement personnel in civil disorders, riot tactics, less than lethal alternatives and counter-sniper techniques, 1993

Operations Officer for the County of Los Angeles Emergency Operations Center during the disaster relief operations such as the “L.A. Firestorms” Sept/Oct 1993 and the Northridge earthquake, 1994 and major events such as the World Cup Soccer Finals in 1994 and the annual Tournament of Roses Parade

Principal Advisor to the United States Marine Corps I MEF, in less than lethal technology and alternatives during Operation United Shield, Kenya and Somalia, 1995

Coordinator, Los Angeles County Terrorist Early Warning Group, and Member Terrorist Working Group, 1996 to 1999

Commanding Officer, Special Enforcement Bureau, Special Operations Division, Los Angeles Sheriff's Department, 2001 to 2003

Commander of the Department, Office of the Undersheriff, August 2003 to March 2008

Teaching and Training Experience

Have taught tactics and/or SWAT related subjects throughout the United States as well as the Kingdom of Thailand, Japan, Spain, France, Italy, Saudi Arabia, Bosnia-Herzegovina, Kuwait, Kenya and Somalia

Have taught force options, crowd and riot control, military support to civil authorities and other subjects at Army War College, Naval War College, U.S. Marine Corps Command and Staff College, Air War College, and the Industrial College of the Armed Forces

Have taught management and command and control level courses to police executives and local government officials throughout the United States

Have provided expert testimony and advice for courtroom presentations on tactical and SWAT related subjects throughout the United States

Awarded Advanced TASER Master instructor certification, Taser International, May 16, 2002, Master Instructor ID: 990708584571412871346C, recertified August 2003, recertified September 2007, ID: 990708584571412871346C

Author of *The Diversionary Device Reference Manual*, published by the National Tactical Officer's Association, 1991, (2nd Edition published October 2000)

Co-Author of *Flash/Sound Diversionary Devices*, Training Key# 391, published by the International Association of Chiefs of Police, Inc., 1989

Author of *Tactical Diagramming Hints*, published by the Tactical Response Association, (Varro Press), 1992

Author, *Sound Doctrine: A Tactical Primer*, published by Lantern Books, a division of Booklight Publishing, New York, New York, 2000

Author, *An Illustrated Guide to Tactical Diagramming*, published by Lantern Books, a division of Booklight Publishing, New York, New York, 2006

Co-Author, *Unconventional Weapons Handbook*, published by Jane’s Information Group, Alexandria, VA 2000

Co-Author, *Non-Lethal Weapons: Technological and Operational Prospects*, published by Jane’s Information Group, London, England, November 2000

Served as consultant for State of California Governor’s Office of Emergency Services revision of “*Law Enforcement Guide for Emergency Operations*,” published by Governor’s Office of Emergency Services, Law Enforcement Branch, November 1996

Served as consultant for Naval Post-Graduate School, Monterey, California, 1997 on development and employment options for nonlethal weapons

Founding member of Institute for Non-Lethal Defense Technologies, Pennsylvania State University, College Park, PA

Founding member and serving Vice President, California Association of Tactical Officers

Author of more than 120 articles that have appeared in law enforcement and military periodicals and professional journals throughout the world.

Featured columnist for the *Tactical Edge Magazine*, published by the National Tactical Officers Association, 1994 to present

Served as consultant for State of California Governor’s Office of Emergency Services on “Managing Civil Disorders/Disobedience” committee, December 1997 to 2000

Served as consultant/instructor for International Criminal Investigative Training Program, Sarajevo, Bosnia-Herzegovina, June/July 1998

Served as consultant/instructor for U.S. Department of Justice,
National Civil Disorder Initiative Committee, 1999 to 2003

Featured speaker at, Vienna, VA., Nonlethal Defense Conference I,
“Crowd and Mob Behavior,” March 1996

Guest speaker at Johns Hopkins University, Laurel, MD,
Pennsylvania State University, College Park, PA, McKenna College,
Claremont, CA (February 1998)

Featured speaker at Urban Operations Conference, Washington D.C.,
April 13-14, 1999 “Nonlethal Options: Failings and Futures”

Featured speaker at Urban Warfare Conference, London, England,
November 3-4, 1999, “The Magic Bullet” (What the ultimate nonlethal
option will require)

Featured speaker at Nonlethal Technology and Research Symposium,
Quantico, VA May 3-5, 1999 “Changing Mob Behavior with Non-
Lethal Intervention”

Featured speaker at Conference on Products & Services (C.O.P.S.
West), Ontario, CA, September 29, 1999, “Can Technology Make a
Difference?”

Featured speaker at Jane’s Conference, Unconventional Weapons: The
Response to Emerging Threats, Universal City, CA, June 12, 2000,
“The Use of Less Lethal Weapons by Opposing Forces”

Featured speaker at 1st, 2nd and 3rd International Nonlethal
Conference, London, England, 4th International Nonlethal Conference,
Edinburgh, Scotland, 7th International Nonlethal Conference, Dublin,
Ireland, (November 1997, November/December 1998, November 1999,
December 2000, October 2004)

Featured speaker at 2nd International Policing Conference, 2004,
Adelaide, Australia, November 2004 “History of Nonlethal Weapons”

Featured speaker at Trexpo Conference on Tactics and Technology,
Ontario, CA, March 22, 2001, “Intervening with Less lethal
Technology.”

Featured speaker at NIJ Institute for Counter-terrorism Conference,
Operations and Technology, Garden Grove, CA, September 11, 2002,
“5-Dimensional Battlespace”

Featured speaker at Nonlethal Technology and Research Symposium (NTAR III), Portsmouth, NH November 7-9, 2001 “Report from Human Advisory Panel on Crowd Control and Behavior” and “The Future of Nonlethal Weapons”

Featured speaker at urban warfare conference, “The City in the 21st Century and War,” Haifa, Israel, February 11-14, 2002, “Maintaining Law and Order during Emergencies and Wartime”

Featured speaker at National Defense Industrial Association, “Non-Lethal Defense V” Conference, Reston, VA, March 27, 2002, “Less-Than-Lethal Capabilities in the Urban Setting.”

Featured speaker and workshop leader at Association of Chief Police Officers, “Overcoming Problems in Implementing a Non-Lethal Program,” London, England, April 22-24, 2002

Featured speaker and workshop leader at International Law Enforcement Forum, “Minimal Force Options,” Pennsylvania State University, State College, PA October 29-30, 2002

Featured speaker at Smoky Mountain Regional Criminal Justice Conference, “Law Enforcement Technology: The Next Decade,” Gatlinburg, TN, November 4-5, 2002

Featured speaker and session chair at Non-Lethal Technology and Academic Research Symposium IV (NTAR IV), “Controlling Mobs and Riots: A Next Step,” San Diego, CA, November 19-21, 2002

Guest speaker and session chair at Non-Lethal Technology and Academic Research Symposium (NTAR V), “The Stormwatcher Concept,” Arlington, VA November 5-6, 2003

Lecturer/Presenter Marine Corps Command and Staff College, The Marine Corps Research University at Penn State, “Non-Lethal Technologies in Support of Homeland Defense and Civil/Military Operations,” (Classified) Quantico, VA, February 2004 and April 2005

Featured speaker and trainer at Rocky Mountain Tactical Team Association Conference, Breckinridge, Colorado, “Introduction to Tactical Science,” California Association of Tactical Officers, “Crisis Decision Making,” National Tactical Officers Association, “Fighting in the Fifth Dimension,” September 2004

Featured speaker at National Defense Industrial Association, “Non-Lethal Defense VI” Conference, Reston, VA, March 15, 2005, “Behavioral and Medical Outcomes of Nonlethal Weapons Use.”

Featured Speaker at 3rd European Symposium on Non-Lethal Weapons, “Nonlethal Options Enhancing Security and Stability”, Ettlingen, Germany, May 11, 2005, “Behavioral and Medical Outcomes of Nonlethal Weapons Use.”

Served as consultant for Potomac Institute for Policy Studies, Stun Conference, Washington D.C., February 2005

Featured Speaker, TREXPO West, Los Angeles, California, “Expertise: Smarter Thinking or Thinking Smarter?” March 16, 2006

Keynote Speaker, Taser International Conference, Las Vegas, NV, “Nonlethal Options: Assessing and Managing Risk,” May 6, 2006

Featured Speaker, National Summit on the use of Force in Law Enforcement, “Assessing and Managing Risk of Nonlethal Options,” July 6, 2006, Arlington, VA

Member of U.S. delegation to United States Joint Forces Command (JFCOM) and Israeli Defense Force (IDF) Joint Urban Operations Conference, Tel Aviv, Israel, June 6-12, 2006

Featured Speaker, 1^o Seminário Internacional de Tecnologias Não-Letais (Paraphrased-First International Seminar of Nonlethal Technologies) “An Overview of Nonlethal Options,” Brasilia, Brazil, July 25-27, 2006

Keynote Speaker, California Robbery Investigators Conference, Las Vegas, NV, “The Future of Law Enforcement 2025,” February 8, 2007

Keynote Speaker, Interservice NonLethal Individual Weapons Instructor Course, Nonlethal Weapons Senior Leader Symposium, Ft. Leonard Wood, MO, “Assessing and Managing Risk of Nonlethal Weapons,” February 14, 2007

Keynote Speaker, Pennsylvania Commission on Crime and Delinquency Conference, State College, PA “The Future of Law Enforcement: Kismet or Karma?” March 5, 2007

Keynote Speaker, Pennsylvania Commission on Crime and Delinquency, Instructor Update Conference, State College, PA, “The Magic Bullet—It Ain’t Magic,” November 13, 2007

Keynote Speaker, Non-Lethal Warfare/Weapons Conference to Argentine Military, Buenos Aires and Bahia Blanca, Argentina, December 1 through 8, 2007

Have been interviewed, quoted, appeared on, or consulted for *The Discovery Channel, 20-20, America’s Most Wanted, The Learning Channel, The History Channel, The Newshour, ABC News, CBS News, 60 Minutes, NBC Nightline, Fox News*, British Broadcasting Corporation, Fox Television, Australian, French and Japanese Television, *Popular Science, Time Magazine, U.S. News and World Report*, and numerous radio shows, periodicals, books and newspapers.

Major Studies and Reports

Contributor to *Less-Than-Lethal Weapons: Reference Guidebook*, Bunker, Robert J., Editor, Institute for National Security Studies, U.S. Air Force Academy, Colorado, July 1997

Contributor to *Nonlethal Weapons: Terms and References*, Bunker, Robert J., Editor, Special Edition for the Non-Lethal Technology and Academic Research Symposium, Occasional Paper 1, Los Angeles, CA, November 2000

Co-Author, *Report of Findings: Crowd Behavior, Crowd Control and the use of Nonlethal Weapons*, Pennsylvania State University, Applied Research Laboratory, Institute for Emerging Defense Technologies, Human Effects Advisory Panel, January 2001

Co-Author, *The Attribute-Based Evaluation (ABE) of Less-Than-Lethal, Extended-Range, Impact Munitions*, Pennsylvania State University, Applied Research Laboratory, Institute for Emerging Defense Technologies, in conjunction with the Los Angeles Sheriff’s Department, February 2001

Co-Author, *Non-Lethal Weapons: New Options Facing the Future*, Fraunhofer-Institut für Chemische Technologie (ICT), Ettlingen, Germany, September 2001

Co-Author, *Riot Control Agents: Issues in Toxicology, Safety and Health*, CRC Press, New York, New York, 2004

Co-Author, *Non-Lethal Weapon Injury Characterization*, Penn State, Human Effects Advisory Panel, Institute for Non-Lethal Defense Technologies, August 2004

Co-Author, *Non-Lethal Weapons: Non-Lethal Options Enhancing Security and Stability*, Fraunhofer-Institut für Chemische Technologie (ICT), Ettlingen, Germany, May 2005

Co-Author, *Non-Lethal Weapons: Fulfilling the Promise?*, Fraunhofer-Institut für Chemische Technologie (ICT), Ettlingen, Germany, May 2007

Co-Author, *Field-based Evaluation of Non-Lethal Weapons: Conducted Energy Weapons*, Pennsylvania State University and University of Virginia Medical Center, November 2007

Co-Author, *Los Angeles Sheriff's Department's Use of M26 and X26 TASERs During the 1995-2004 Timeframe*, Pennsylvania State University, August 2008

Co-Author, *Non-Lethal Weapons International Study*, Pennsylvania State University, The Eberly Campus, Center for Community and Public Safety, September 2008