

## RICHARD E. TONTARSKI, JR.

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### QUALIFICATIONS SUMMARY

- Clearance – TS/SCI; Favorably Adjudicated by: DoD CAF; Eligibility Date: 9/3/2020; Investigation Type/Date: T5R. OPM, Closed 8/11/2020.
- More than 27 years of experience in senior federal forensic / scientific leadership positions, leading both large and small teams of professionals.
  - Director, 2 federal forensic laboratories.
  - Director, DoD forensic laboratory (US Army Criminal Investigation Laboratory (USACIL)).
  - Department of the Army Chief Scientist for forensic and biometric research.
- Strong management skills.
- Compelling, consistent record developing innovative solutions.
- Established Army's first intrinsic, deployed forensic capability to support warfighters worldwide.
- Led the development of, and established operational capabilities and scientific processes for, a one-of-a-kind forensic fire investigation engineering and research laboratory, ATF's Fire Research Laboratory.
- Oversaw the design and construction of the ATF National Laboratory and Fire Research Centers.
- ISO quality management experience.
  - Led successful accreditation of first federal laboratory.
  - Transitioned USACIL from legacy to ISO international accreditation.
  - Treasurer, Forensic Specialties Accreditation Board (FSAB) Board of Directors.
  - Trained as ISO assessor
- Institutional Official for Office of Provost Marshall General, Defense Forensic Science Center research
- Strong professional contributions
  - Technical Advisory Board - Center for Forensic Statistics and Applications Forensic Science
  - Member - White House National Science and Technology Council Forensic Working Group.
  - Editorial Board *Forensic Science Policy & Management Journal*, 2012 to present.
  - Past Editorial Board member for *Journal of Forensic Sciences* and *Journal of Energetic Materials*.
  - American Academy of Forensic Sciences Board of Directors, 2006-2009.
  - President, INTERPOL 13th International Forensic Symposium, 2001.
- Recognized authority in several disciplines with peer reviewed publications and scientific presentations about homeland security, battlefield forensics, fire investigation, explosives, firearms, quality assurance and management topics. See details below.

### CAREER HIGHLIGHTS

#### DFBA / DFSC

2016 - Meritorious Civilian Service Award, Department of the Army.

2016 - Discussion Leader, "Forensic Analysis of Human DNA", Gordon Research Conference (GRC).

2015 to Present - Advisory Board, Center for Forensic Statistics and Applications Forensic Science (CSAFE).

2014 to 2015 - Stood up next generation sequencing capability to transition the Defense Forensic Science Center (DFSC) to the future DNA analysis capability.

2014 - Transitioned rapid DNA platform to operational use by SOCOM; Expanded funding sources, leveraging the DoD Rapid Innovation Fund and creating agreements to jointly fund research; brought STRMix, an advanced DNA mixture interpretation tool, on-line for sexual assault casework.

2013 - Defense Forensics and Biometric Agency (DFBA) / DFSC Chief Scientist.

USACIL

- 2010 to 2012 - Standards, Practices and Protocols Interagency Working Group (SPPIWG) member – White House National Science and Technology Council sponsored initiative to advance forensic sciences.
- 2010 - Transitioned USACIL Forensic Analysis Division to ISO 17025 accreditation from ASCLD/LAB legacy.
- 2008 to 2010 - Forensic Advisor to DoD Deputy Forensic Executive Steering Group (FESG).
- 2008 to 2009 - Chair, DoD Forensic Science & Technology WG initiating first DoD forensic R&D projects.
- 2008 - Implemented Laboratory Information Management System (LIMS) to track and manage forensic workload.
- 2007 to 2009 - Developed initial USACIL warfighter forensic support capabilities including shelters, equipment and examiner training; stood up Reachback Operations Center (RBOC) to support forward operating capabilities.

Prior to joining USACIL

- 2006 to 2009 - American Academy of Forensic Sciences (AAFS) Board of Directors.
- 2005 - DOJ Energy and Environmental Award — implementation of a model environmental management system for air filtration and water recycling in the Fire Research Laboratory (FRL).
- 2003 - Initiated Fire Research Laboratory Partnership Council leveraging stakeholders and SMEs to evolve FRL strategies and direction.
- 2002 - ATF Office of Science and Technology Maestro Award — excellence in coordinating and leading complex projects; design and construction of the ATF National Laboratory Center and Fire Research Laboratory (FRL).
- 2002 - Awarded Northeastern University Saferstein Lectureship in Forensic Science.
- 2001 - President, INTERPOL 13<sup>th</sup> International Forensic Science Symposium.
- 2001 - NIJ / Office of Law Enforcement Standards Grant Recipient (NIST / ATF partnership) for “Fire Ignition Scenario Research”.
- 2000 to 2/2004 - Served on inaugural Forensic Specialties Accreditation Board (FSAB) Board of Directors; Treasurer from 2/2001 to 2/2004; FSAB established a mechanism for the forensic community to assess, recognize and monitor professional boards that certify forensic examiners.
- 2000 - Established Fire Research Laboratory — one-of-a-kind forensic fire investigation, research and education facility.
- 2000 - Paul L. Kirk Award — American Academy of Forensic Sciences recognition for improvement to the professionalism of forensic science for creation of forensic scientist peer-based certification program
- 1999 to 2007 - Chief, Fire Research Laboratory (FRL).
- 1997 - Created HQ Relocation Office (New Building Projects Office) to manage new ATF Laboratory and new Headquarters construction projects.
- 1996 to 2003 - Managed development / construction of the ATF National Laboratory and Fire Research Centers.
- 1996 - Senior Executive Service (SES) Certification awarded.
- 1994 - Initiated development of ATF Firearms Training for state and local examiners; program piloted in 1998; evolved into the ATF National Firearms Examiner Academy which trains state and local firearms examiners.
- 1993 to 1994 - Leader, Treasury Reinvention Team — implemented National Performance Review findings.
- 1992 - Managed the Bulletproof projectile / cartridge case database pilot program with DC Metropolitan Police. Led to the successful, nationwide National Integrated Ballistic Identification Network (NIBIN) program.
- 1991 - Initiated Computer Forensics / Digital Evidence program at ATF.
- 1990 to 2008 - *Journal of Forensic Sciences Editorial Board* member.
- 1989 - Initiated research and developed the ATF Smokeless Powder Library / Database.
- 1988 to 1995 - Chief, ATF Forensic Science Laboratory.
- 1986 - Initiated the development of ATF’s first computerized evidence and examination tracking system (FACETS).
- 1984 - Led ATF Laboratories through ASCLD/LAB accreditation — first federal laboratory accredited.
- 1982 - President, Mid-Atlantic Association of Forensic Scientists.
- 1981 to 1988 - Co-developer / administrator of ATF Arson Accelerant Detection Schools for state / local chemists.

Scientific Presentations / Publications Summary

- 1979 to 2016 - More than fifty (50) presentations at scientific meetings / publications in peer reviewed journals on homeland security, battlefield forensics, fire investigation, explosives, firearms, quality assurance and management topics, and DNA (See details below).

**EMPLOYMENT EXPERIENCE**

All permanent positions listed were 40+ hours/week

- 06/17 – Present      **Principal Advisor, Forensics  
Center for Naval Analyses (CNA)**  
— Conduct comprehensive, objective research and analysis in support of public policy decision makers; part-time position
- 03/17 – 2020      **Senior Scientist, SNA International**  
— Support Department of Homeland Security S&T DNA efforts interfacing with senior governmental officials and scientists to advance operational implementation; part-time position
- 04/16 – Present      **IntelliForensics, LLC**  
— Facilitate international forensic laboratory accreditation, and conduct reviews and generate reports on forensic science topics such as accreditation and certification.
- 01/13 – 09/16 (retired from federal service)  
**Chief Scientist, Defense Forensic Science Center (DFSC)**  
— Responsible for the Office of the Chief Scientist (OCS) that supports the Defense Forensic Science Center (DFSC) and the Biometrics Identity Management Activity (BIMA), as well as the Defense Forensics and Biometrics Agency (DFBA), directing, coordinating and overseeing forensic and biometric research on behalf of the Department of Defense Executive Agent for Forensics and Biometrics. Responsibilities included implementing strategic and emerging forensic and biometric research requirements, setting long-range strategic forensic and biometric research goals, educational outreach to academic institutions, obtaining funding and managing all aspects of the research program. The OCS worked to influence forensic science and biometric actions or programs at the DoD and Army levels, within the USG, and with foreign partners. The FY15 research portfolio consisted of 31 projects valued at ~\$15M. Projects have resulted in 8 peer-reviewed publications and 28 scientific presentations. Six patents have been sought on OCS projects during tenure.
- 01/13 – 09/16      **Instructor, University of Florida**  
— ISO 17025 quality assurance.
- 01/07 – 01/13      **Director, USACIL / Chief, Forensic Analysis Division, U.S. Army Criminal Investigation Laboratory**  
— only DoD full-service forensic laboratory providing forensic support to all Services; was responsible for all aspects of leading and managing nine (9) Branches of approximately 130 staff; for operational oversight of: annual budget formulation / execution and management; administrative oversight; human capital management and staffing; competency and sustainment training; scientists carrying out crime scene processing, evidence analysis, and expert testimony; all forensic programs and new methods development; the Combined DNA Index System (CODIS) administration which is the executive agent for the DoD providing access to the FBI National DNA Databank (NDIS); quality assurance and evidence integrity. Operating budget was approximately \$22M.

- 3/99 - 1/07      **Director / Chief, Fire Research Laboratory, Alcohol, Tobacco, Firearms and Explosives (ATF)**  
— established the Fire Research Laboratory, the first laboratory dedicated to supporting fire investigation through the application of fire science/fire dynamics; developed staffing, operational, and funding models; was responsible for operational oversight: annual budget formulation / execution and management; administrative oversight; competency and sustainment training; directing engineers and scientists conducting crime scene processing, performing evidence analysis, and providing expert testimony; technical oversight of forensic fire programs and new methods development; quality assurance and evidence integrity.
- 5/97 - 3/99      **Program Manager FIRE Center Development/National Laboratory Center**  
— development responsibility for new ATF forensic FIRE Center Laboratory and facility, and relocation and construction of the National Laboratory Center.
- 10/95 - 5/97      **Chief, Headquarters Relocation Office, ATF**  
— represented the Bureau to GSA, OMB, other agencies, and Members of Congress on the headquarters relocation; responsible for all aspects of the relocation — planning, budget and execution.
- 10/93 - 5/94      **Treasury Reinvention Team, Department of Treasury**  
— Team Leader for Treasury Team responsible for coordinating and implementing National Performance Review recommendations; established Team structure; managed Team resources; liaison to NPR and Treasury Department officials.
- 10/88 - 10/95      **Director / Chief, Forensic Science Laboratory, ATF**  
— represented ATF to the forensic community; principle advisor to Enforcement on forensic matters; direct supervisory responsibility for two subordinate Section Chiefs; responsible for: budget formulation / execution and management of ATF's largest Laboratory; administrative oversight; competency and sustainment training; directing forensic scientists who conducting crime scene processing, performing evidence analysis, and providing expert testimony; technical oversight of forensic programs and methods development; quality assurance and evidence integrity.
- 12/86 - 10/88      **Chief, Arson and Explosives Section, ATF**  
— first person to hold such a position in the ATF Laboratory; daily, direct, administrative oversight; directed forensic scientists conducting crime scene processing, performing evidence analysis, and providing expert testimony; technical oversight of forensic programs and methods development; quality assurance and evidence integrity.
- 1982 - 1988      **National Response Team Chemist, ATF** (part of Forensic Chemist duties)  
— responded to major fire and explosion investigation scenes as part of a select team of special agents and scientific experts at the request of state and local officials; carried out scene processing and analysis of evidence collected.
- 9/78 - 12/88      **Forensic Chemist (arson and explosives), ATF**  
— performed a variety of microscopic, chemical and instrumental analyses including thin-layer chromatography (TLC), infrared spectroscopy (IR), gas

chromatography (GC), X-ray diffractometry (XRD), energy dispersive X-ray (EDAX), ion chromatography (IC), scanning electron microscopy (SEM), high performance liquid chromatography (HPLC), and polarized light microscopy (PLM) on evidence associated with ATF arson and explosives investigations; specialized in the identification of ignitable liquids, explosive materials, explosive device components and trace evidentiary materials; testified as an expert witness to findings; developed investigator and forensic scientist training programs including fire debris analysis and systematic analysis of low explosive materials; instructed at the Federal Law Enforcement Training Center on arson for profit investigation, advanced explosives investigations and the ATF special agent basic training courses; performed crime scene processing.

### **FORENSIC PROFESSIONAL LEADERSHIP / ACTIVITIES / CERTIFICATION**

#### **Responsibilities accomplished in this section performed outside permanent position hours.**

Advisory Board, Center for Forensic Statistics and Applications Forensic Science (CSAFE) – 2015 to present.

ASCLD/LAB ISO Assessor Qualified – January 2005.

*Forensic Science Policy & Management Journal* - **Editorial Board** – 2009 to present.

*Journal of Forensic Sciences* - **Editorial Board** – 1990 to 2008.

*Journal of Energetic Materials* - **Editorial Board** – 1994 to 2007.

**Forensic Specialties Accreditation Board** - 2000 to February 2004.

Treasurer — 2/2001 to 2/2004.

**American Academy of Forensic Sciences – Retired Fellow.**

**Paul L. Kirk Award** – Criminalistics Section, February 2000.

**Criminalistics Section Representative to Board of Directors** – 2/2006 to 2/2009.

**Member, NFPA Research Advisory Council on Post-Fire Analysis** – 1998 to 2007.

**President of the INTERPOL 13th International Forensic Symposium** – 2001.

**American Society of Crime Laboratory Directors Laboratory Accreditation Board (ASCLD/LAB).**

**Team Captain/Laboratory Inspector** – 1991 to 1995.

**INTERPOL Organizing Committee** for 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup> and 14<sup>th</sup> International Forensic Symposia representing United States; coordinated meeting input on "Flammables" and "Explosives" with forensic laboratories worldwide; Lyon, France (1989 to 2007).

**Certificate of Professional Competency in Criminalistics** – 1991.

California Association of Criminalistics.

**Diplomate of American Board of Criminalistics – Emeritus** - 2020

Since 1992; peer-based, forensic scientist certification.

**American Board of Criminalistics - Founder and President** – 1989 to 1994.

Created a coalition of 5 U.S. regional forensic associations and the American Academy of Forensic Sciences (Criminalistics Section) that established professional qualifications standards and implemented a certification program for forensic scientists — knowledge-based examinations on general criminalistics, fire debris, drug analysis, molecular biology, biochemistry, hairs & fibers and paints & polymers; program includes review of scientific training, an examination experience threshold, proficiency testing and continuing education requirements; examination development / sustainment cycles and ethics compliance components are part of the program; first forensic certification program recognized to meet ISO certification program standards; currently the largest such criminalistics certification program.

**Mid-Atlantic Association of Forensic Scientists.**

**Life Member** – 2015.

By-Law Revision Committee – 2004.

**Distinguished Service Award** – May 1990.

**President**, 1982 – 1983.

**International Association of Arson Investigators Forensic Committee Co-Chair** (1990 to 1992).

Coordinated the development of **nationwide laboratory guidelines** for the forensic examination of fire debris evidence that became the basis for an ASTM standard.

**EXECUTIVE / MANAGEMENT DEVELOPMENT**

Senior Executive Service (SES) Certification - June 1996  
Office of Personnel Management

Contemporary Executive Development Certificate - Fall 1995  
George Washington University  
Washington, DC

Leadership Development Training - January 1994  
Center for Creative Leadership  
Colorado Springs, CO

Federal Program Management - June 1991  
OPM Executive Seminar Center  
Denver, CO

Approximately 50+ short courses in management and leadership from the Treasury Executive Institute, Institute of Management Studies, Management Concepts, Career Track, and others from 1986 to 2005.

**ACADEMIC DEGREES EARNED**

Bachelor of Arts - 1976  
University of Virginia  
Charlottesville, VA

Master of Forensic Science - 1977  
The George Washington University  
Washington, DC

**SPEAKER / INSTRUCTOR / PARTICIPANT** (representative activities)

Discussion Leader, “Forensic Analysis of Human DNA”, *Gordon Research Conference (GRC)*, 19-24 June 2016, Waterville Valley, NH; first forensic GRC conference

Plenary Speaker, *Forensics Evolving Role in DoD — “A Treasure Uncovered”*  
American Academy of Forensic Sciences, February 20, 2008  
Washington, DC

The Role of Forensics in Homeland Security – September 21, 2007  
Committee on Identifying the Needs of the Forensic Science Community  
*Strengthening Forensic Science in the United States – A Path Forward, National Academy of Sciences*  
Woods Hole, MA

Keynote, “Considerations for Building Fire Safety Following September 11 and The ATF Fire Research Laboratory: A New Forensic Tool,”  
Fire Suppression and Detection Research Application Symposium – January 23, 2002  
Fire Protection Research Foundation  
Tampa, Florida

Keynote Speaker, UK Arson Forum – November 1-2, 2001  
Forum of Arson Investigators  
Fire Service College  
Moreton-in-Marsh, UK

Laboratory Improvement Summit – July 2000  
American Society of Crime Laboratory Directors, National Institute of Justice, NIST  
Washington, DC

1997 Forensic Science Summit – March 5-6, 1997  
American Society of Crime Laboratory Directors, National Institute of Justice, NIST  
Gaithersburg, MD

5th International Symposium on the Analysis and Detection of Explosives – December 4-8, 1995  
Bureau of Alcohol, Tobacco and Firearms  
Washington, DC

National Seminar on Violent Crime – May 17-20, 1994  
Executive Office for United States Attorneys  
Clearwater, FL

Attorney General 1991 Crime Summit  
Developments in Crime Detection and Forensics  
Washington, DC

Federal Law Enforcement Training Center  
Arson-For-Profit Investigation for State Prosecutors  
Glynco, Georgia  
1987 - 1994

Federal Law Enforcement Training Center  
Arson-For-Profit Investigation and  
Advanced Explosive Investigative Techniques Class  
Glynco, Georgia  
1980 - 1987

U.S. Department of State  
Counter - Terrorism Assistance Program  
Explosive Investigative Techniques  
1985 and 1986

National Fire Academy - Adjunct Faculty Member  
Emmitsburg, Maryland  
1980 and 1981; 1985 – 1987

## **COURSE DEVELOPER**

### **ATF Systematic Analysis of Low Explosives Course**

Coordinated development of lesson plans and administered course – 1987

**First International Symposium on Recent Advances in Arson Analysis and Detection**, Las Vegas, Nevada – February, 1985

Organized international meeting of forensic scientists to discuss advances in the fire and arson area

### **ATF Arson Accelerant Detection School**

Coordinated development of lesson plans and administered course for 7 years – 1981 to 1988

### **LEAA/ATF Arson-for-Profit Investigation Course**

Developer for 18 schools taught around the country to State and Local fire investigators in 1980/1981

## **PUBLICATIONS / SCIENTIFIC PRESENTATIONS**

### BATTLEFIELD FORENSICS / HOMELAND SECURITY / BIOMETRICS

“Shining a Forensic Light on the Warfight,” Richard E. Tontarski, Jr. and Blake Rowe, *The Police Chief*, September 2011, Volume LXXVIII, Number 9, p. 48-51.

“The Future of Biometrically Enabled Forensics,” Panel Discussion, Richard E. Tontarski, Jr., *Biometrics Consortium*, September 2010, Tampa, FL

“DoD Institutional Forensic Laboratory — Combined Response Scenario,” Forensic Track Leader, *Biometrics & Forensic Summit*, Tampa, May 2009.

“The Evolution of ‘the method’: The Past, Present and Future of Forensic Intelligence,” Brian J. Gestring and Richard E. Tontarski, Jr., *Abstracts*, American Academy of Forensic Sciences, Denver, CO, February 2009, No. A69.

“Science & Technology: Forensic Fit-for-Purpose Solutions,” Richard E. Tontarski, Jr., *Biometrics & Forensic Summit*, Fort Huachuca, July 2008.



“Battlefield Forensics and Homeland Security,” Richard E. Tontarski, Jr., Kevin Lothridge, and David Epstein, *Abstracts*, American Academy of Forensic Sciences, Washington, DC, February 2008, No. B145.

“Defense Forensic Enterprise System Concept,” Richard E. Tontarski, Jr., Guest Speaker – General Section Luncheon, American Academy of Forensic Sciences, Washington, DC, February 2008

Plenary Speaker, *Forensics Evolving Role in DoD — “A Treasure Uncovered,”* Richard E. Tontarski, Jr., American Academy of Forensic Sciences, Washington, DC, February 20, 2008.

“The Role of Forensics in Homeland Security,” Richard E. Tontarski, Jr., presentation to the National Academy of Sciences Committee on Identifying the Needs of the Forensic Science Community for *Strengthening Forensic Science in the United States – A Path Forward*, National Academy of Sciences, Woods Hole, MA, September 21, 2007.

“Instilling the Forensic Mindset — From Scientists to Technicians and Back Again? - Emerging Need for Forensic Intelligence,” Richard E. Tontarski, Jr., Workshop #3, American Academy of Forensic Sciences, New Orleans, February 2005.

#### DNA

“A Large-Scale DNA Mixture Interpretation Study on DNA Examiners: Inter- and Intra- Laboratory Variability,” Roman Aranda, IV, PhD, Ivy Onyechi, Brenda Held, PhD, Karen Olson, PhD, Jason LeBlanc, PhD, Henry P Maynard, III, Blake Rowe and Richard Tontarski, *Abstracts*, American Academy of Forensic Sciences, Orlando, FL, 2015, No. B95.

“DNA Mixture Interpretation,” Roman Aranda, IV, PhD, and Richard Tontarski, Defense Science and Technology Laboratory (Dstl), 14-16 September 2015.

#### DRUGS

“Objective Method for Presumptive Field-Testing of Illicit Drug Possession Using Centrifugal Microdevices and Smartphone Analysis,” Shannon T. Krauss, Thomas P. Remcho, Shelby M. Lipes, Roman Aranda IV, Henry P. Maynard III, Nishant Shukla, Jingyi Li, Richard E. Tontarski Jr., and James P. Landers *Anal. Chem.*, 2016, 88 (17), pp 8689–8697, Publication Date (Web): August 15, 2016

#### MANAGEMENT / QUALITY ASSURANCE / EDUCATION

“Return on Investment: Technical Review Training,” Richard E. Tontarski, Jr. and Jennifer Mihalovich, 21<sup>st</sup> International Symposium on the Forensic Sciences, Australian and New Zealand Forensic Science Society, 23-27 September 2012, *Abstracts*, p. 212.

“Managing the Forensic Enterprise: Private Sector ROI,” Richard E. Tontarski, Jr. and Alistair Ross, 21<sup>st</sup> International Symposium on the Forensic Sciences, Australian and New Zealand Forensic Science Society, 23-27 September 2012, *Abstracts*, p. 295.

“Alternative Models Promote Self-Regulation of the Forensic Enterprise,” R. E. Tontarski Jr, M. M. Houck, W. P. Grose, and D. M. Gialamas, *Forensic Science Policy & Management*, 3: 139-150, 2012

“Alternative Models Promote the Self-Regulation of the Forensic Enterprise”, Richard Tontarski, Wesley P. Gross, Max M. Houck, and Dean Gialamas, *Abstracts*, American Academy of Forensic Sciences, Atlanta, GA, 2012, No. A31.

“Educating Forensic Scientists for the 21<sup>st</sup> Century: Instilling the Forensic Mindset” Workshop, Suzanne Bell, Ph.D. and Richard E. Tontarski, Jr., co-chairs, American Academy of Forensic Sciences, New Orleans, February 21, 2005.

"Forensic Science Certification — It is in our Future," Richard E. Tontarski, Jr., *Abstracts*, 12th International Association of Forensic Sciences Meeting, Adelaide, Australia, 1990, MC512.

“Forensic Scientists: Past, Present and Future”, Richard E. Tontarski, Jr., *Abstracts*, American Academy of Forensic Sciences, Dallas, TX, 2004, No. B38.

*Forensic Sciences: Review of Status and Needs*, co-author “Analytical Services” section, U.S. Department of Justice, Office of Justice Programs, National Institute of Justice, February 1999, pp. 71.

“Proficiency Testing: Ensuring the Integrity of Quality Assurance Samples by Involving Referee Laboratories and Subject Matter Experts,” Richard E. Tontarski, Jr., *Workshop — Quality Assurance and Proficiency Testing in the Forensic Science Laboratory*, American Academy of Forensic Sciences, Nashville, TN, 1996.

“Certification in Forensic Sciences”, Richard E. Tontarski, Jr., 1<sup>st</sup> Young Forensic Scientists Forum, American Academy of Forensic Sciences, San Francisco, CA, February 1998.

"American Board of Criminalistics Certification Program Update: General Knowledge Examination, Specialty Examinations, Proficiency, Continuing Education," Richard E. Tontarski, Jr., *Abstracts*, American Academy of Forensic Sciences, San Antonio, TX, 1994, No. B52.

"Quality Assurance Practices," Richard E. Tontarski, Jr. and Marvin Rennert, *Seminar on Explosives Residue Analysis Protocols*, FBI Research and Training Center, Quantico, VA, June 21-25, 1993.

"What You See is What You Believe," Richard E. Tontarski, Jr., Proceedings of the 12th International Association of Forensic Sciences, *Journal of the Forensic Science Society*, Vol. 31, No. 2, April/June 1991, pp. 279-281.

#### FIRE INVESTIGATION AND FIRE SAFETY

Book Review: *Forensic Fire Scene Reconstruction* by Icove, D. J. and DeHaan, J. D., *Journal of Forensic Sciences*, Vol. 50, No. 4, July 2005, pp. 69.

“Considerations for Building Fire Safety Following September 11 and the ATF Fire Research Laboratory: A New Forensic Tool,” Richard E. Tontarski, Jr., *Fire Suppression and Detection Research Application Symposium, Proceedings*, Fire Protection Research Foundation, Tampa, FL, January 23-25, 2002.

Nelson, Harold E. and Tontarski, Richard E., *Proceedings of the International Conference of Fire Research for Fire Investigation*, HAI Report 98-5157-001, April 1998.

Book Review: *Kirk's Fire Investigation* by John DeHaan, *Journal of Forensic Sciences*, Vol. 34, No. 5, September, 1989, pp. 1286.

Book Review: *Investigating Arson* by W. W. Bennett, *Journal of Forensic Sciences*, Vol. 32, No. 6, November, 1987, pp. 1827 - 1828.

"New Recommendations in Packaging for Arson and Explosive Evidence," R.E. Tontarski, Jr., R.A. Strobel, and M.J. McKenna, *Canadian Society of Forensic Science Journal*, Vol. 20, No. 3, August 1987, presented at the International Association of Forensic Science Meeting, Vancouver, British Columbia, Abstract No. EXPF 015, pp. 133.

"Accelerant Recovery from Concrete," Richard E. Tontarski, Jr., *Journal of Forensic Sciences*, Vol. 30, No. 4, Oct. 1985, pp. 1230-1232.

"Forensic Evidence in the Las Vegas Hilton Fire: Impact Without Testimony," Richard E. Tontarski, Bernard Schwartz, and John Rice. *Abstracts*, American Academy of Forensic Sciences, Cincinnati, 1983, No. B48.

"Evaluation of Polyethylene Containers Used to Collect Evidence for Accelerant Detection," Richard E. Tontarski, Jr., *Journal of Forensic Sciences*, Vol. 28, No. 2, April 1983, pp. 440-445.

"The Application of Federal Explosives Laws to Arson Investigations - The Explosive Potential of Accelerants," Richard E. Tontarski, Jr. and Jack B. Patterson, *Abstracts*, American Academy of Forensic Sciences, Orlando, 1982, No. E4.

"Accelerant Recovery from Arson Suspects," Richard E. Tontarski, Jr. and Richard A. Strobel. *Abstracts*, American Academy of Forensic Sciences, Orlando, 1982, No. B40.

"Automated Sampling and Computer Assisted Identification of Hydrocarbon Accelerants," Richard E. Tontarski, Jr., Richard A. Strobel, *Journal of Forensic Sciences*, Vol. 27, No. 3, July 1982, pp. 710-714.

"Detection of Volatile Accelerants in Fire Debris. I. A Comparative Evaluation..." Richard A. Strobel, Richard E. Tontarski, Jr., Larry F. Stewart, Philip L. Wineman, *Abstracts*, American Academy of Forensic Sciences, New Orleans, 1980, No. 9.

*Arson: Overview of Technical and Legal Considerations in Utilizing the 1968 Gun Control Act and the 1970 Organized Crime Control Act in the Federal Prosecution of Arson Crimes*, ATF P 3320.1 (6/81).

Film — wrote and directed *Collection and Preservation of Arson Evidence*, Bureau of Alcohol, Tobacco and Firearms 1979.

#### EXPLOSIVES

"Explosives Report 1995 - 1998: Detection and Characterization of Explosives and Explosive Residue, — A Review—," Charles R. Midkiff and Richard E. Tontarski, Jr., 12th International ICPO, INTERPOL Forensic Science Symposium, Lyons, France, November, 1998

"Explosives Report 1992 - 1995: Detection and Characterization of Explosives and Explosive Residue, — A Review—," Charles R. Midkiff and Richard E. Tontarski, Jr., 11th International ICPO, INTERPOL Forensic Science Symposium, Lyons, France, November, 1995.

"Explosives Report 1989 - 1992: Detection and Characterization of Explosives and Explosive Residue, — A Review—," Charles R. Midkiff and Richard E. Tontarski, Jr., 10th International ICPO, INTERPOL Forensic Science Symposium, Lyons, France, November, 1993.

"Bombing and Arson Investigations Enhanced by Advances in ATF Labs", Daniel M. Hartnett (ghost written by Richard E. Tontarski, Jr.), *The Police Chief*, April 1990, pp. 20 - 28.

"Safety Considerations in Forensic Explosion and Fire Investigations," Richard E. Tontarski, Jr., *Proceedings - Health and Safety in the Forensic Laboratory*, American Academy of Forensic Sciences, 41st Annual Meeting, February 1989, American Academy of Forensic Sciences, Colorado Springs, CO.

"Systematic Differentiation of Smokeless Powders," Carl M. Selavka, Richard A. Strobel and Richard E. Tontarski, Jr., *Proceedings - Third Symposium on Analysis and Detection of Explosives*, Fraunhofer-Institut für Chemische Technologie (ICT), Pfinztal, FRG, 1989.

"Liquid Chromatography with Photolytically-Assisted Thermal Energy Analysis for the Improved Determination of Nitrotoluenes", C.M. Selavka, R.E. Tontarski, Jr. and R.A. Strobel, *Canadian Society of Forensic Science Journal*, Vol. 20, No. 3, August 1987, presented at the International Association of Forensic Science Meeting, Vancouver, British Columbia, Abstract No. EXPF 019, pp. 135.

"Bombing in America — Cases and Trends," R.A. Strobel and R.E. Tontarski, Jr., *Canadian Society of Forensic Science Journal*, Vol. 20, No. 3, August 1987, presented at the International Association of Forensic Science Meeting, Vancouver, British Columbia, Abstract No. EXPF 017, pp. 134.

"Improved Determination of Nitrotoluenes Using Liquid Chromatography with Photolytically-Assisted Thermal Energy Analysis (LC-PAT)", Carl M. Selavka, Richard E. Tontarski, Jr., and Richard A. Strobel, *Journal of Forensic Sciences*, Vol., 32, No.4, July 1987, pp. 941-952.

"A Preliminary Evaluation of XAD Resins for the Recovery of Organic Explosives," Richard A. Strobel and Richard E. Tontarski, Jr., *Abstracts*, American Academy of Forensic Sciences, Orlando, 1982, No. B47.

"The Evaluation of FTIR as a Detector for the HPLC Analysis of Explosives Residues," Richard A. Strobel, Richard E. Tontarski, Jr., Antonio Cantu and Willard Washington, *Proceedings of the International Symposium on the Analysis of Explosives*, March 1983, U.S. GPO 1984-426-295, pp. 349-363.

"Organic Solvent Extracts of Explosive Debris: Clean-Up Procedures," Richard A. Strobel and Richard E. Tontarski, Jr., *Proceedings of the International Symposium on Analysis and Detection of Explosives*, FBI Academy, Quantico, VA, March, 1983, U.S. GPO 1984-426-295, pp. 67-70.

### FIREARMS

"Gunshot Residue Evidence," Richard E. Tontarski and Timothy Curtis, *U.S. Attorneys' Bulletin*, Forensic Evidence, Vol. 49, No. 05, September 2001, pp. 37-39.

"Automated Ballistic Comparison: Forensic Tool for Firearms Identification: An Update," Richard E. Tontarski, Jr. and Robert M. Thompson, *Journal of Forensic Sciences*, Vol., 43, No.3, 1997, pp. 641-647.

"Firearms Evidence (Chapter 2)," for *Federal Crimes of Violence*, Department of Justice, Office of Legal Education, Executive Office for United States Attorneys, Washington, DC, ed. — R.M. Nissman, February 1996.

"Firearms Experts (Chapter 9)," for *Federal Firearms Offenses Handbook*, Department of Justice, Office of Legal Education, Executive Office for United States Attorneys, Washington, DC, ed. — R.M. Nissman, July 1995.

“Automated Ballistic Comparison: Forensic Tool for Firearms Identification,” *Technical Proceedings*, 25-28 October 1994, DFS-94, 7th Joint Service Data Fusion Symposium, pp. 71 - 82.

"Ceasefire: Drawing a Line in the Sand," Richard E. Tontarski, Jr., *Abstracts*, American Academy of Forensic Sciences, San Antonio, 1994, No. B45.

## OTHER

*ATF Laboratory Interface* – **Editor**, 1984 - 1987

Periodic publication highlighting fire debris analysis and related matters for forensic scientists.

Scientific Sleuthing Newsletter - **Managing Editor**, 1983 - 1987

National publication reviewing state and federal court cases involving forensic evidence

## **AWARDS**

Meritorious Civilian Service Award, Department of the Army  
September 2016

Department of Justice  
Energy and Environmental Award — Environmental Management Systems  
Innovative Efforts in Air Filtration and Water Recycling  
July 2005

Illinois Arson Award Committee  
ATF Fire Research Laboratory  
Outstanding Contributions in the Investigation of Arson  
May 2005

General Services Administration  
Recognition of Outstanding Contribution to Excellence in Federal Design  
ATF National Laboratory Center Project  
2004

ATF Maestro Award — Creation of Fire Research Laboratory/ National Laboratory Center  
Office of Scientific Services for Excellence in Coordinating and Leading Complex Projects  
May 2002

Francine and Michael Saferstein Memorial Lectureship in Forensic Science  
The Barnett Institute  
Northeastern University  
February 2002

Paul L. Kirk Award  
American Academy of Forensic Sciences Criminalistics Section’s most prestigious award  
For creating the ABC Certification Program and a to forensic science professionalism.  
Presented periodically to recognize a person who has uniquely contributed to the advancement of the field of Criminalistics over the course of many years, and/or who has fundamentally changed the field through their actions and service to others.  
February 2000

1999 Regional Administrator's Award  
Customer of the Year – New Buildings Projects Team  
General Services Administration

Pay-For-Performance Bonus Award  
1999, 2000, 2001, 2002, 2003, 2004, 2007, 2008, 2009, 2010, 2011, 2012

Quality Pay Increases  
1994, 1985, 1984, 1981

Special Achievement Awards

Dupont Plaza Fire Investigation (1988)  
ASCLD/LAB Accreditation Lead (1984)  
Explosives research International Symposium on the Analysis and Detection of Explosives (1983)  
Arson for Profit Investigation and Advanced Explosives Investigative Techniques Courses (1983)  
Title XI (vapor-air explosive) legal / legislative research (1982)  
“Collecting and Packaging of Arson Evidence” video production (1980)

**COURT TESTIMONY**

Arson - Approximately 30 court appearances in Federal, State and Local Courts

Explosives - Approximately 5 court appearances in Federal, State and Local Courts