



Curriculum Vitae

Robert C. Andrews, Jr., P.E., B.Sc., M.Sc., DBA, FIFireE, PMSFPE, EFO, CFO (ret)
Founder
President & CEO
Principal Fire Protection Engineer
Principal Rail Consultant

Education

2022 **Doctor of Business Administration (DBA)**

Temple University
Fox School of Business
Philadelphia, Pennsylvania

Dissertation title:

*The Demise of the Lone Star Rail District: A Case
Study in the Failure to Expand Passenger Rail
Service in Texas*

Dr. Stuart M. Schmidt, Advisory Chair, Human Resource Management

2008 **Certificate Course in Railway Management (RMP)**

Michigan State University
East Lansing, Michigan

2002 **Master of Science – Executive Fire Service Leadership (M.Sc.)**

Grand Canyon University
Phoenix, Arizona

2002 **Executive Fire Officer Program (EFO)**

National Fire Academy
Emmitsburg, Maryland
(Residency requirements completed 1988 – 1991)

1980 **Bachelor of Science – Fire Protection Engineering (B.Sc.)**

University of Maryland
College Park, Maryland

1976 **Diploma**

Great Valley High School
Malvern, Pennsylvania

Professional Experience

- Aug. 2021 – Present **2026 American Freedom Train, Inc.**
A Texas Non-Profit Corporation
San Antonio, Texas

President
- Jul. 2019 – Present **Executive Rail**, a division of
The Catalpa Falls Group, LLC
Philadelphia, Pennsylvania & San Antonio, Texas

President
- Mar. 1985 – Present **Protection Development, Incorporated**
San Antonio, Texas

 *Nov. 2004 – Present President & Chief Executive Officer
 Principal Fire Protection Engineer
 Principal Rail Consultant (added 2009)*
- Sept. 2001 – Nov. 2004 Managing Partner (added to existing responsibilities)*
- Mar. 1985 – Sept. 2001 Founding Partner, Fire Protection Engineer, Vice President &
 Corporate Secretary*
- Apr. 2005 – Present **Bob Andrews Group, L.L.C.**
San Antonio, Texas

Owner, President & CEO
- Sept. 2003 – Present **The Catalpa Falls Group, L.L.C.**
San Antonio, Texas

Member, Managing Partner & Chief Engineer
- Mar. 1999 – Jan. 2013 **Industrial Emergency Services, L.L.C.**
Baton Rouge, Louisiana

 *Mar. 2012 – Jan. 2013 Member – Board of Managers &
 Fire Chief Emeritus*
- Jan. 2010 – Mar. 2012 Chief Executive Officer &
 Fire Chief Emeritus*
- Mar. 1999 – Dec. 2009 President & Fire Chief Founder*
- Jan. 1986 – Mar. 1999 **Refinery Terminal Fire Company**
Corpus Christi, Texas

Vice President (General Manager) & Fire Chief

Jan. 1982 – Dec. 1985 **Celanese Chemical Company**
Bishop, Texas
Fire Protection Engineer & Facility Fire Chief

Dec. 1980 – Dec. 1981 **Marathon Oil Company**
Findlay, Ohio
Associate Risk Engineer

Summer Internships

1980 **Phoenix Fire Department**
Phoenix, Arizona
Fire Protection Engineer – Intern

1977, 1978 & 1979 **Factory Mutual Engineering Association**
Philadelphia, Pennsylvania
Loss Prevention Engineer – Intern

Concurrent Academic (Teaching) Experience

Mar. 2023 – Present **University of Maryland**
College Park, Maryland
A. James Clark School of Engineering
Department of Fire Protection Engineering
Adjunct Professor

Served as a committee member and Symposium Chair for the NFPA / University of Maryland 2022 Ecosystem Symposium held in College Park in September of 2022. Actively involved in the planning of the next joint Ecosystem Symposium expected in 2024. Coach and mentor department students and alumni in the areas of business, leadership, entrepreneurship, and career planning. Counsel members of the fire service who are interested in considering the department's future on-line B.S. in Fire Protection Engineering degree. Perform teaching duties upon request.

Spring 2023 **Temple University**
Fox School of Business
Philadelphia, Pennsylvania

Advisor – Capstone Project:
“Communications Strategy Temple University Public Safety”

Management of Business Administration – Course BA 5287 – Fox Management Consulting Practicum. 3 Credit Hours

The Fox Management Consulting Practicum is the capstone experience for the Fox MBAs. It is designed to integrate and apply concepts and skills

learned across the entire MBA. In the capstone, students combine theory, evidence, and experience to analyze and solve a strategic challenge in a rigorous, thoughtful way. This course is designed to help students structure unstructured strategic challenges; develop the ability to recognize and assess strategic opportunities; conduct top-notch market, industry, and competitive analysis; foresee strategic implementation issues; support strategic recommendations with financial decision models; manage clients and teams; and lead change by generating support for the recommendations. This course is also designed to produce useful, commercial-grade results for clients - who help in providing a rich and consequential learning opportunity for students.

Spring 2023

The University of Texas at Austin

School of Architecture
Austin, Texas

*Advisor – UT Community and Regional Planning Spring Practicum:
“Positioning the Austin-San Antonio Corridor for High-Performance
Intercity Rail”*

Master of Science in Community and Regional Planning – Course
CRP395C – Planning Studio. 3 Credit Hours

Dec. 2020 – May 2023

National Fire Academy

Emmitsburg, Maryland

*Contract Instructor
Executive Fire Officer Program (EFOP)*

- Jan. 2023 – May 2023* Served as Mentor (non-paid) for a assistant chief fire officer in the last semester of his Capstone project. My mentee was one of only six EFO graduates whose Capstone paper received the 2023 Outstanding Research Award.
- Aug. 2022 – Jan. 2023* Served as Executive Advisor (Professor) supervising the graduate-level research of 4 chief fire officers and serving as second-reader for an additional 4 chief fire officers in course “M-5104 Applications in the Exercise of Leadership: Capstone I.”
- June – Sep. 2021* Served as Executive Advisor (Professor) supervising the graduate-level research of 13 chief fire officers in course “M-5105 Executive Fire Officer – Thesis – Semester 2 – Research Proposal.”
- Jan. – July 2021* Served as Executive Advisor (Professor) supervising the graduate-level research of 16 chief fire officers in course “M-5105 Executive Fire Officer – Thesis – Semester 1 – Research Synopsis.”

Concurrent Public Safety (Community Service) Experience

- Sept. 2018 – Present **Bexar County Fire Marshal's Office**
San Antonio, Texas
- Executive Advisor to the Fire Marshal & Command Staff*
Deputy Fire Marshal (Non-Paid Peace Officer)
Fire Protection Engineer (Non-Paid)
- May 2017 – Dec 2017 **East Whiteland Volunteer Fire Association**
Frazer, Pennsylvania
- Associate Member – Administration Member of the Apparatus Committee*
- Jan. 1997 – May 2017 **Nueces County Constable's Office – Precinct 2 ***
Corpus Christi, Texas (* formerly Precinct 8)
- Master Peace Officer & K-9 Handler*
- Jan. 2007 – Mar. 2009 **Nueces County Sheriff's Office**
Corpus Christi, Texas
- Major – Reserve Unit Commander*
- Jan. 2006 – Mar. 2009 **Jim Kaelin [for Nueces County Sheriff] Campaign**
Corpus Christi, Texas
- Campaign Manager*
- Nov. 1990 – Dec. 1997 **Nueces County Constable's Office – Precinct 8**
Corpus Christi, Texas
- Regular Peace Officer & K-9 Handler (01/02/91 – 01/01/97)*
Reserve Officer & K-9 Handler (11/28/90 – 01/02/91)
- Jan. 1990 – Nov. 1990 **Nueces County Sheriff's Office**
Corpus Christi, Texas
- Reserve Officer (1/22/90 – 11/14/90)*
- 1987 – 1988 **Nueces County – City of Corpus Christi Local Emergency
Planning Committee (LEPC)**
Corpus Christi, Texas
- Co-chairperson*
- Aug. 1976 – Dec. 1980 **College Park Volunteer Fire Department**
College Park, Maryland
- Private, EMT, Chief's Aide, Driver, Sergeant, Lieutenant, Captain, and
Training Officer*

- 1976 – 1980 **Maryland Fire & Rescue Institute**
College Park, Maryland
Student Assistant
- Sept. 1974 – Dec. 1980 **East Whiteland Volunteer Fire Association**
Frazer, Pennsylvania
Firefighter, Emergency Medical Technician (NREMT), Chief's Aide
-

Boards & Committees (Professional and Charitable)

- Jan. 2023 – Present **Military Railroad Society**
Gloucester, Virginia
Member, Board of Directors (Director of Strategic Planning)
- June 2020 – Present **The 1st Annual University of Maryland
NFA Fire & Life Safety Ecosystem Symposium**
Presented by the University of Maryland
Department of Fire Protection Engineering
Member of the Symposium Committee and 2022 Conference Chair
- July 2017 – July 2018 **Institution of Fire Engineers**
Stratford-upon-Avon, United Kingdom
Member of the Centenary Committee
- July 2016 – Present **National Fire Heritage Center**
Emmitsburg, Maryland
*Jan. 2023 – Present Member, Board of Directors
July 2016 – Jan. 2023 Trustee*
- April 2016 – Mar 2018 **Institution of Fire Engineers (United Kingdom)**
United States of America Branch
Board of Directors – Member-at-Large
- May 2014 – Present **Rail Industry Fire Association (United Kingdom)**
*Member of the Management Committee (2022 to present)
USA Advocate (2014 to present)*
- June 2012 – June 2018 **Abraham Lincoln Foundation of the Union League of
Philadelphia**
Philadelphia, Pennsylvania
*Trustee and Member of the Finance Committee and the Art Collections
Committee*

Certifications

- 2003 - 2006 **Chief Fire Officer Designation (CFO)***
Commission on Chief Fire Officer Designation
*currently "retired" status
- 2001 **Master Peace Officer Certificate**
Texas Commission on Law Enforcement
- 2001 **Instructor Certificate**
Texas Commission on Law Enforcement

Professional Engineering & Business Societies

- 2022 – Present **Lifetime Member – Beta Gamma Sigma**
The International Business Honor Society St. Louis, Missouri
- 2017 - 2020 **Member (MIoD)**
Institute of Directors London, United Kingdom
- 2016 – Present
2003 – 2016 **Fellow (FIFireE)** – Elected April 2016
Member (MIFireE) – Elected August 2003
Institution of Fire Engineers
Stratford-upon-Avon, United Kingdom
- 2003 – Present **Professional Member (PMSFPE)**
Society of Fire Protection Engineers Bethesda, Maryland
(Associate Member 1981 – 2003)
- 1979 **Member (and Past President)**
Salamander Honorary Fire Protection Engineering Society Beta Chapter
University of Maryland College Park, Maryland

Awards

- 2021 **Inductee # 0098**
Hall of Legends, Legacies & Leaders National Fire Heritage Center
Emmitsburg, Maryland
- "In recognition of professional achievements, significant contributions and distinguished service to the Nation's Fire & Emergency Services and fire protection disciplines."*
- 2017 **Life Member**
National Fire Protection Association
Quincy, Massachusetts
- "In recognition of a lasting commitment to protecting lives and property from fire, electrical and related hazards, the National Fire Protection Association hereby recognizes you as a Life Member with all of the rights and privileges thereto – June 19, 2017". Awarded by Jim Pauley, NFPA President & Chief Executive Officer.*

- 2016 **Dean's Circle – Inaugurated November 18, 2016**
A. James Clark School of Engineering University of Maryland
College Park, Maryland
- “The Dean's Circle is a community of philanthropists whose vision and contributions have empowered the Clark School's ascent. The A. James Clark School of Engineering and Dean Darryll J. Pines would like to thank and recognize [those] individual donors for their generous support and significant investment in our college.”*
- 2016 **Appreciation Award (Plaque)**
Szkoła Główna Służby Pożarniczej (SGSP) (Main School of Fire Service)
Warsaw, Poland
- “In appreciation for cooperation with the POLAND – USA – INFIRENET PROJECT. 1 October 2016”*
- 2003 **Certificaat Met Lof – Politiehond II**
Koninklijke Nederlandse Politiehond Vereniging (KNPV)
(Royal Dutch Policedog Association)
- “...at the examination held in Almere (Netherlands) on 26 July 2003, the K-9 named Bronko with handler R. C. Andrews, Jr. earned a Certificate Policedog II (advanced) Met Lof (with honors) having earned a total of 433 points [out of 455 points possible]”*
- 2003 **Academic Recognition Award (Medal)**
Texas Commission on Law Enforcement
- “In acknowledgement of Academic Achievement...”*
- 2002 **Advanced K-9 Patrol Certificate (with honors)**
Nueces County Constable Department – Precinct 2
- Awarded to the Patrol K-9 Team of Deputy Robert Andrews and K-9 Bronko*
- 1999 **Certificate of Appreciation**
United States Army Special Operations Command (Delta Force)
- “your assistance made an immeasurable contribution to the successful accomplishment of all our training objectives....”*
- 1998 **Certificate of Appreciation United States Coast Guard MSO. Corpus Christi, Texas**
- “In appreciation of participating as a guest speaker at the 1st Annual South Texas Coastal Zone Marine Fire Fighting Symposium”*
- 1998 **Appreciation Award (Plaque) Singapore Civil Defense Force. Singapore, Singapore**
- “in appreciation for services rendered”*

1997 **Corporate Resolution (Department-wide Commendation)**

Refinery Terminal Fire Company. Corpus Christi, Texas

“Whereas, the Refinery Terminal Fire Company employees, who responded to and after the 12 May 1997 CITGO Fire, performed in an exemplary manner during the response and recovery phases; and displayed professionalism, energy, strength, bravery, and judgement...”

1996 **Combat Cross (Medal) & Certificate of Commendation**

Nueces County Precinct 8 Constable’s Office Corpus Christi, Texas

“for outstanding service and contributions to the standoff at Port Aransas, Texas on December 23, 1996, for maintaining a calm professional demeanor, while drawing fire from an armed adversary while attempting to effect an arrest”

Related citations also received from:

- Port Aransas (TX) Police Department:

“...appreciation for the personal effort you made during the shooting incident and subsequent manhunt of December 22-23, 1996 in Port Aransas, Texas. Your dedication to law enforcement and the professionalism you displayed was evident during this armed standoff...”

1996 **Certificaat – Politiehond II**

Koninklijke Nederlandse Politiehond Vereniging (KNPV)
(Royal Dutch Policedog Association)

“...at the examination held in Hilversum (Netherlands) on 26 July 1996, the K-9 named Robby with handler R. C. Andrews, Jr. earned a Certificate Policedog II (advanced) having earned a total of 399 points”

1995 **Letter of Appreciation**

U. S. Department of Justice Federal Bureau of Investigation

“.....along with K-9 Argos... assisted the FBI with the arrest of Carl Sidney Race.Race was indicted...on two counts of Deliberate Homicide, two counts of Attempted Homicide and one count of Felony Arson.”

“The arrest of Race took place without incident. There is no doubt in my mind that a significant reason for the successful outcome was the assistance and professionalism demonstrated by [your deputies].”

“Deputy Constables Cox, Marsh, Whitmore, Johnson, and Andrews are not only a credit to your office but are also a credit to law enforcement”

1993 **Certificate of Service**

Nueces County Precinct 8 Constable’s Office Corpus Christi, Texas

“for outstanding service and contributions”

1993 **Letter of Appreciation**
Department of the Treasury
U. S. Customs Service

"...express our appreciation to Deputy Constable Robert Andrews and his K-9 partner Argos, for their dedication, skill, perseverance, and cooperative spirit"

"During the periods of June, July, and August of 1993 Deputy Robert Andrews and his partner "Argos" assisted the U.S. Customs Service in targeting and examining commercial vessels in searching for contraband. Their efforts contributed significantly in deterring drug smuggling in South Texas. Deputy Robert Andrews' knowledge, skill, and participation is both noteworthy and appreciated."

1991 **Certificate of Appreciation – Reserve Deputy of the Year 1991**
Nueces County Precinct 8 Constable's Office Corpus Christi, Texas

1990 **Executive Fire Officer Program – 1990 Outstanding Research Award**
National Fire Academy Emmitsburg, Maryland

"A study to determine the feasibility of utilizing the incident command system as adopted by the National Fire Academy for the command and control of resources at emergency incidents at refining and petrochemical facilities in Corpus Christi, Texas."

1979 **Chief's Award**
College Park Volunteer Fire Department College Park, Maryland

1978 **Local Firefighter of the Year Award Jos. Schlitz Brewing Company**
Maryland State Firemen's Association

1977 **Lifesaving Recognition**
College Park Volunteer Fire Department College Park, Maryland

"in recognition of his assistance in a successful rescue at a house fire on February 4, 1977"

Publications, Presentations, Interviews, and Technical Reviews – (a selection)

Publications

Andrews, R. C., (2022, August 1) *Remedial Actions to Assure Fire and Life Safety in Heritage Passenger Cars – A USA Case Study*. [Submitted for publication]. *Modern Fire Protection Directions of Rolling Stock* (a monograph in process). Instytut Kolejnictwa, Warsaw, Poland.

Andrews, R. C., (2022, May). The Demise of the Lone Star Rail District: A Case Study in the Failure to Expand Passenger Rail Service in Texas. A Dissertation Submitted to the Temple University Graduate Board in Partial Fulfillment of the Degree Doctor of Business Administration. Temple University. Philadelphia, PA. (197 pages).

<https://www.proquest.com/docview/2667742240/BOCA067274674C44PQ/2>

- Andrews, R. C., (2020, October 2). *The Demise of the Lone Star Rail District: A Case Study in the Failure to Expand Passenger Rail Service in Texas*. A Dissertation Proposal Submitted to the Temple University Graduate Board. Temple University. Philadelphia, PA. (133 pages).
- Andrews, R.C., Jr., Brooks, Paul D., & Laforet, Chris. (2017, November). *Custom Promotional and Recruitment Video*. Institution of Fire Engineers – USA Branch. Produced by Shuttle Release Films. See: <https://www.ife-usa.org/news/entry/institution-of-fire-engineers-usa-branch-promotional-video> [05:09].
- Andrews, R. C., Jr. (2013, February). *Iowa Pacific Holdings, LLC Failed Axle Investigation, Passenger Car “Baton Rouge” – SLRG 9115 – Amtrak 800028* [draft report]. PDI Rail Project No. R12-041. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (Report and Appendices 331 pages).
- Andrews, R. C., Jr. (2012, September 23). *Saratoga & North Creek Railway System Safety Program Plan (In accordance with the American Public Transit Association (APTA) Manual for the Development of System Safety Program Plans for Commuter Railroads* (dated May 15, 2006). PDI Rail Project No. R11-011. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (48 pages).
- Andrews, R. C., Jr. (2012, July 30). *Saratoga & North Creek Railway Fire Safety Analysis (In Accordance with 49 CFR 238.103(d) “Fire Safety” and APTA RP-PS-005-00 “Recommended Practice for Fire Safety Analysis of Existing Passenger Rail Equipment”)*. PDI Rail Project No. R11-009. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (106 pages).
- Andrews, R. C., Jr. (2012, March 8). *Michigan Department of Transportation Ann Arbor to Detroit Regional Rail Project: Fire Safety Analysis – Revision 1 (In accordance with 29 CFR 238.103(d) “Fire Safety” and APTA RP-PS-005-00 “Recommended Practice for Fire Safety Analysis of Existing Passenger Rail Equipment”)*. PDI Rail Project No. R11-016. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (Report 41 pages with cover. Appendices 229 pages).
- Andrews, R. C., Jr. (2012, February 24). *Saratoga and North Creek Railway Joint Emergency Preparedness Plan – Final (In accordance with 29 CFR 239.101 “Emergency Preparedness Plan)*. PDI Rail Project No. R11-009. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (70 pages).
- Andrews, R. C., Jr. (2011, September). *Saratoga and North Creek Railway Inspection, Testing, and Maintenance Plan (In Accordance with 49 CFR 238.107 “Inspection, testing, and maintenance plan”)* [Draft Report]. PDI Rail Project No. R11-006. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (118 pages).
- Andrews, R. C., Jr. (2011, August). *Saratoga and North Creek Railway Training, Qualification, and Designation Program (In Accordance with 49 CFR 238.109 “Training, qualification, and designation program”)* [Draft Report]. PDI Rail Project No. R11-007. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated.
- Andrews, R. C., Jr. (2011, June 11). *Saratoga and North Creek Railway Pre-Revenue Service Acceptance Testing Plan (In Accordance with 29 CFR 238.111 “Pre-Revenue Service Acceptance Testing Plan”)*. PDI Rail Project No. R11-008. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (3 pages).

- Andrews, R. C., Jr. (2009, December 22). *Rio Grande Scenic ski train: Joint Emergency Preparedness Plan – Revision 1 (In accordance with 29 CFR 239.101 “Emergency Preparedness Plan)*. PDI Rail Project No. R09-004. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (114 pages).
- Andrews, R. C., Jr., & Payne, G. F. (2009, December 11). *Rio Grande Scenic ski train: Pre- Revenue Service Acceptance Testing Plan – Revision 1 (In accordance with 29 CFR 238.111 “Pre- Revenue Service Acceptance Testing Plan)*. PDI Rail Project No. R09-009. San Antonio, TX: PDI Rail Solutions – A Division of Protection Development, Incorporated (3 pages).
- Andrews, Bob & Payne, George (2007, November / December). The “Chippewa Creek’s” Cross-Country Adventure... *Information Exchange*, 25, 1-6. Railroad Passenger Car Alliance.
- Andrews, R. C., Jr. (2006, September 13). *Music City Star Commuter Service: Fire Safety Analysis (In accordance with 49 CFR 238.103(d) “Fire Safety” and APTA RP-PS-005-00 “Recommended Practice for Fire Safety Analysis of Existing Passenger Rail Equipment”)*. PDI Project No. 06-189. San Antonio, TX: Protection Development, Incorporated (78 pages).
- Andrews, R. C., Jr. (2006, March 18). *On-Site Fire Safety Survey for Marathon E.G. Production Limited (MEGPL), Atlantic Methanol Production Company (AMPCO), and EG Global LNG Services, Limited (EGLNG) – January 18 – 31, 2006 [Bioko Island, Equatorial Guinea]*. PDI Project No. 06-017. San Antonio, TX: Protection Development, Incorporated (42 pages).
- Deonarine, L. D. & Andrews, R. C., Jr. (2003, March 31). *Foam Requirements for Fighting Fires in Open-Top, Floating Roof Petroleum Storage Tanks – A report prepared for the Corpus Christi Fire Department*. Corpus Christi, TX: Industrial Emergency Services, L.L.C.
- Andrews, R. C., Jr., Vallone, P. A., & Cochrane, J. R. (2002, August 14). *An independent fire protection & life-safety analysis of the U.S.S. Lexington Museum on the Bay Corpus Christi, Texas*. San Antonio, TX: Cochrane & Associates.
- Andrews, R. C., Jr. (2002, May). *Innovations & challenges in industrial emergency response* [Course Text]. Dammam, Saudi Arabia: Gulf Industrial Emergency Services, Ltd.
- Andrews, R. C., Jr. (2002, January). *Preliminary specifications for a fire response vessel for the Port of Greater Baton Rouge, Louisiana* [draft report]. Corpus Christi, TX: Industrial Emergency Services, L.L.C.
- Andrews, R. C., Jr. (2001, October). *A feasibility study to determine the economics of Industrial Emergency Services, L.L.C. purchasing an existing fire training academy in Axis, Alabama*. Emmitsburg, MD: National Fire Academy.
- Andrews, R. C., Jr. (Ed.) (2001, March). *IES Disaster Prevention Seminar* [Seminar Text]. Corpus Christi, TX: Industrial Emergency Services, L.L.C.
- Andrews, R. C., Jr. (1992, November-December). The environmental impact of firefighting foams. *Industrial Fire Safety*, 1, 26-31.
- Andrews, R. C., Jr. (1992, May). *The environmental impact of firefighting foam concentrates – contemporary management considerations for the chief fire executive*. Emmitsburg, MD: National Fire Academy.

Andrews, R. C., Jr. (1990, June). *A study to determine the feasibility of utilizing the incident command system as adopted by the National Fire Academy for the command and control of resources at emergency incidents at refining and petrochemical facilities in Corpus Christi, Texas*. Emmitsburg, MD: National Fire Academy.

Andrews, R. C., Jr. (1989, June). How to document a “save”. *Industrial Fire World*, 4, 19-21.

Andrews, R. C., Jr. (1985, June). Management for the mid-eighties: how successful fire service leaders are meeting the challenge. *Firehouse*, 10, 98-100+.

Presentations

Andrews, R. C., Jr. (2022, September 28-29). NFPA / University of Maryland 2022 Ecosystem Symposium (Symposium Chair). The Hotel in College Park, MD.

Andrews, R. C., Jr. (2022, May 10). *Remedial Actions to Assure Fire and Life Safety in Heritage Passenger Cars – A USA Case Study*. Vth International Conference – Modern Trends of Fire Protection in Rolling Stock 10-11 May 2022. Instytut Kolejnictwa. Warsaw Marriott Hotel and The Railway Research Institute. Warsaw, Poland.

Andrews, R. C., Jr. (2020, Nov. 18). *Executive Leadership Lecture Series: Managing the Forks in the Road: Managerial vs. Technical Personal Development (40 years of personal choices)*. [Webinar]. Department of Fire Protection Engineering, A. James Clarke School of Engineering, University of Maryland, College Park, MD. <https://fpe.umd.edu/exec-leadership-series>

Andrews, R. C., Jr. (2020, July 5). *The Refurbishment of Rail Vehicles: Scrap or Keep? – A USA Case Study*. [Webinar]. 2020 Online AGM and CPD Technical Seminar. Rail Industry Fire Association. <http://www.rifa-rail.co.uk/news/2014/10/19/making-handouts-from-seminars-available-to-bona-fide-members.html>

Andrews, R. C., Jr. (2020, February 25). *The Refurbishment of Rail Vehicles: Scrap or Keep? – A USA Case Study*. Fire Protection of Rolling Stock 2020. Arena International. Melia Berlin. Berlin, Germany.

Andrews, R. C., Jr. (2017, March 20). *2016 USA Fire Chief Study Group to Poland – A Report to the Membership*. 2017 Institution of Fire Engineers – USA Branch AGM & Education Conference. Anaheim, CA

Andrews, R. C., Jr. (2016, September 29). *Use of the ICS System and Mutual Aid in Catastrophic Events*. 2016 USA Fire Chiefs Study Group in Poland – Polish-American Seminar in the INFIRENET Project – Exchange of Experiences. Co-Sponsored by the Institution of Fire Engineers – United States of America Branch and The Main School of Fire Service. Warsaw, Poland.

Andrews, R. C., Jr. (2014, September 11). *Collaborative, Cost-Shared Emergency Response Programs – The Corpus Christi, Texas USA Cooperative Experience – A Possible Solution for Crude-Oil-by-Rail?* 2014 Alberta Industrial Fire Protection Association, Bi-Annual September Meeting, Calgary, Alberta Canada

Andrews, R. C., Jr., & Goldwater, S. O. (2014, March 5). *Testimony Before the Commonwealth of Pennsylvania House of Representatives Veterans Affairs and Emergency Preparedness Committee -- Emergency Preparedness and Public Safety Implications for the Transportation of Crude Oil Across the Commonwealth*. Eddystone Fire Company #1, Eddystone, PA

- Andrews, R. C., Jr. (2013, March 21). *Achieving cost effective fire safety in heritage passenger carriages through innovative application of remediation techniques and countermeasures – a US case study*. Fire Protection of Rolling Stock 2013, London, U.K.
- Andrews, R. C., Jr. (2013, January 18). *Progress Report – Failed Axle Investigation “Baton Rouge” SLRG 9115– 800028*. Railroad Passenger Car Alliance (RPCA) Annual Conference, Buffalo, NY.
- Andrews, R. C., Jr. (2006, March 29). *Oversees Employment – What you always wanted to know?* 2006 Industrial Fire World Conference, Baton Rouge, LA.
- Andrews, R. C., Jr. (2002, May 4). *Innovations & Challenges in Industrial Emergency Response*. A seminar conducted by Gulf Industrial Emergency Services, Ltd., Dhahran, Saudi Arabia.
- Andrews, R. C., Jr., Davis, L.W., & Deonarine, L. G. (2001, August 29-31). *Command Team Retreat for the Houston (TX) Fire Department*. A management retreat facilitated by Industrial Emergency Services, L.L.C., Kemah, TX.
- Andrews, R.C., Jr. (2001, March 23). *If we don't learn from our past mistakes, we are destined to repeat them*. IES Disaster Prevention Seminar. Symposium conducted by Industrial Emergency Services, L.L.C. in cooperation with the St. James Mutual Aid Organization, Baton Rouge, LA.
- Andrews, R. C., Jr. (1998, April 20-22). *Live fire training & simulators for today's industrial fire teams*. Industrial Fire Journal Singapore Conference. Symposium sponsored by Industrial Fire Journal, Singapore, Singapore.
- Andrews, R. C., Jr. & White, D. (1992, September 17-19). *Industrial Fire Brigade & Fire Department Interface*. IMS Seminar – Issues...Ideas...& Making IMS Work. Symposium hosted by the Phoenix Fire Department, Phoenix, AZ.
- Andrews, R. C., Jr. (1991, May 13-15). *Organization for Emergency Response. Second International Oil and Petrochemical Forum*. Sponsored by Angus Fire, Reims, France.

Interviews

- Nowlin, S. (2014, July 17). Five Minutes with Bob Andrews, CEO of the Bob Andrews Group. *San Antonio Business Journal*.
- Walters, P. (2001, August). Entrepreneur profile – Bob Andrews, President and Fire Chief, Industrial Emergency Services, L.L.C., *Business & Industry Connection*, 18, 20.
- Turnbull, A. (2000, June). Outsourcing Fire Response to Industry – The IFJ Interview. IFJ editor Aidan Turnbull interviews IES Fire Chief Bob Andrews about the current US trend in the privatization of industrial fire brigades. *Industrial Fire Journal*, 39, 43-45.
- Turnbull, A. (1997, December – January). Texas Refinery Special – IFJ talks to Fire Chief Andrews about the role of the Refinery Terminal Fire Company at Corpus Christi, Texas, USA, in fighting storage tank fires. *Industrial Fire Journal*, 25, 42-44

Technical Reviews

- Noll, G. G., Hildebrand, M. S., & Yvorra, J. (2005). *Hazardous Materials: Managing the Incident (Third Edition)*. Chester, MD: Red Hat Publishing Company, Inc.
- Brunacini, A. V., (2002). *Fire Command – Second Edition*. Quincy, MA: National Fire Protection Association.
- Emergency Film Group (Producer). (1997). *Petroleum Storage Tanks*. [Motion picture]. (Available from Emergency Film Group, 140 Cooke Street, Edgartown, MA 02539-1928).
- Hildebrand, M.S., & Noll, G. G. (1997). *Storage Tank Emergencies*. Annapolis, MD: Red Hat Publishing.
- Hildebrand, M. S., Noll, G. G., & Yvorra, J. G. (1995). *Hazardous Materials: Managing the Incident (Second Edition)*. Stillwater, OK: Fire Protection Publications.
-

Courses & Conferences Attended (a selection)

- Sept. 2022 *NFPA / University of Maryland 2022 Ecosystem Symposium* September 28-29 September 2022 (Symposium Chair). The Hotel in College Park, MD.
- May 2022 *Remedial Actions to Assure Fire and Life Safety in Heritage Passenger Cars – A USA Case Study*. Vth International Conference – Modern Trends of Fire Protection in Rolling Stock 10-11 May 2022. Instytut Kolejnictwa. Warsaw Marriott Hotel and The Railway Research Institute. Warsaw, Poland.
- Nov. 2020 *Online Research Ethics Course*. Practical Ethics Center at the University of Montana. November 29-30, 2020. Retrieved from: https://ori.hhs.gov/education/products/montana_round1/research_ethics.html
- Nov. 2020 *Human Research – Social / Behavioral Research Course – Refresher Course – Temple University*. Collaborative Institutional Training Initiative (CITI Program). November 20, 2020.
- Nov. 2020 *Human Research – Practice Runs Training – Basic Course – Temple University*. Collaborative Institutional Training Initiative (CITI Program). November 19, 2020.
- Jul. 2020 *2020 Online AGM and CPD Technical Seminar*. Rail Industry Fire Association. [Webinar]. July 9, 2020.
- Feb. 2020 *Fire Protection of Rolling Stock 2020*. Arena International. Melia Berlin. Berlin, Germany. February 25-26, 2020.
- Dec. 2019 *2019 Passenger Rail Seminar*. Washington, D.C. Federal Bar Association. November 15, 2019.
- Jul. 2017 *Annual General Meeting and International Conference “Learning lessons, sharing knowledge, saving lives, reducing losses”*. Manchester, U.K. Institution of Fire Engineers. July 11-12, 2017
- Mar. 2017 *2017 Annual General Meeting and Education Conference*. Anaheim, CA. Institution of Fire Engineers – USA Branch. March 20, 2017

- Mar. 2017 *Fire Protection of Rolling Stock* – Berlin, Germany. Arena International. March 1-2, 2017
- Sep. 2016 *2016 USA Fire Chiefs Study Group in Poland – Polish-American Seminar in the INFIRENET Project – Exchange of Experiences.* – Warsaw, Poland. Co-Sponsored by the Institution of Fire Engineers – United States of America Branch and The Main School of Fire Service [Poland]. September 26 – October 5, 2016.
- Jul. 2016 *Annual General Meeting and International Conference “Fire Engineering’s Contribution to World Cities”.* – The Guildhall, London, U.K. Institution of Fire Engineers. July 27-28, 2016
- Feb. 2015 *NFPA 13 Installation of Sprinkler Systems Seminar* – Houston, TX. National Fire Protection Association. February 23-25, 2015
- Sep. 2014 *Alberta Industrial Fire Protection Association Bi-Annual September Meeting* – Calgary, Alberta Canada. September 10-11, 2014
- Jun. 2014 *Crude Oil by Rail Conference & Expo* – Arlington, VA. Railway Age Magazine. June 12-13, 2014
- Mar. 2013 *Fire Protection of Rolling Stock* – London, U.K. Arena International. March 21- 22, 2013
- Jun. 2013 *2013 APTA Rail Conference* – Philadelphia, PA. American Public Transportation Association. June 2-5, 2013
- Nov. 2012 *Railway & Mass Transit Interiors Technology and Design Expo* – Boston, MA. October 24-26, 2012.
- Mar. 2012 *Fire Protection of Rolling Stock* – Brussels, Belgium. Arena International. March 21-22, 2012
- Oct. 2011 *18th Annual Conference Passenger Trains on Freight Railroads* – Washington, D.C. Railway Age Magazine. October 24-25, 2011.
- Nov. 2011 *Railway Interiors Expo* – Cologne, Germany. November 15-17, 2011
- Oct. 2009 *16th Annual Conference Passenger Trains on Freight Railroads* – Washington, D.C. Railway Age Magazine. October 19-20, 2009
- Nov. 2008 *Railway Interiors Expo* – Amsterdam, Netherlands. November 4-6, 2008
- Sep. 1981 *School of Offshore Operations* – Houston, TX, The University of Texas at Austin, Division of Continuing Education, Petroleum Extension Service
- Apr. 1981 *Graduate, Ansul Fire Training School* – Fire Technology Center, Marinette, WI
- Nov. 1985 *Level 2 of the Supervisory Training Seminar* – Bishop, TX., Celanese Chemical Company, Inc.
- Feb. 1984 *Level 1 of the Supervisory Training Seminar* – Bishop, TX., Celanese Chemical Company, Inc.

Memberships

International Association of Fire Chiefs (Life Member)
Institution of Fire Engineers (International & USA Branch)
Society of Fire Protection Engineers
National Fire Protection Association (Life Member)
Combined Law Enforcement Associations of Texas (CLEAT)
(Texas Licensed Peace Officer member)
Koninklijke Nederlandse Politiehond Vereniging (KNPV)
(Royal Dutch Policedog Association) – Member since 1991
Railroad Passenger Car Alliance (RPCA)
Rail Industry Fire Association (RIFA)
The Union League of Philadelphia
The Petroleum Club of San Antonio
University of Maryland Alumni Association (Life Member)
Dean's Circle – A. James Clark School of Engineering University of Maryland,
College Park, Maryland
Church of the Good Samaritan, Paoli, Pennsylvania

Former Memberships

Texas Fire Protection Association
Fire Department Safety Officers Association
PHDC Eemland – Baarn, The Netherlands
(KNPV Policedog Training Club in Region Utrecht)
National Police Canine Association
National Narcotic Detector Dog Association
The Institute of Directors, London (2017-2020)
Texas Fire Chiefs Association