



## **Dr. Robert C. Andrews, Jr, P.E.**

**B.Sc., M.Sc., DBA, FIFireE, PMSFPE, EFO, CFO (ret), FDIRDI**

Founder & Chairman  
Principal Fire Protection Engineer

Robert C. Andrews, Jr. founded Protection Development, Incorporated (PDI) in 1985 and currently serves as its Founder & Chairman. Mr. Andrews is a Texas Licensed Professional Engineer (fire protection branch specialty), a Fellow of the Institution of Fire Engineers (UK), and a Professional Member of the Society of Fire Protection Engineers (USA). He has been practicing fire protection engineering for over forty years and has specialized in the fire safe design of very complicated and unusual projects. He is a life member of the National Fire Protection Association (44 years) and a life member of the International Association of Fire Chiefs (41 years). Mr. Andrews is a 2009 graduate of the Railway Management Program at Michigan State University. Also in 2009, he expanded his commitment to the rail / transit consulting industry by launching a dedicated PDI division, PDI Rail Solutions, aimed specifically at that market.

Highly unusual amongst fire protection engineers, Chief Andrews has been an active member of the fire service for 50 years. Having joined his local volunteer fire company in suburban Philadelphia when he was sixteen years old, his fire service experience includes serving with the East Whiteland Volunteer Fire Association (PA), the College Park Volunteer Fire Department (MD), the Phoenix Fire Department (AZ), Marathon Oil Company (OH), Celanese Chemical Company (TX), the Refinery Terminal Fire Company (TX) and Industrial Emergency Services (Global). He was one of the first Emergency Medical Technicians in the United States having received his Pennsylvania and National Registry EMT licenses in 1975. In addition to his fire service credentials, Mr. Andrews has been a Licensed Texas Peace Officer for over thirty-three years and currently holds Master Peace Officer and Instructor certifications. He is an internationally recognized police dog trainer and is currently commissioned as a Deputy Fire Marshal with the Bexar County (San Antonio, Texas) Fire Marshal's Office. Deputy Andrews serves as a non-paid Texas peace officer with full-time arrest authority and also serves as the Executive Advisor to the Command Staff.

Mr. Andrews earned a Bachelor of Science degree in Fire Protection Engineering from the University of Maryland in 1980 and a Master of Science degree in Executive Fire Service Leadership from Grand Canyon University in 2002. Mr. Andrews earned a Doctor of Business Administration degree from Temple University in Philadelphia in 2022. Dr. Andrews is a graduate of the National Fire Academy's Executive Fire Officer (EFO) program and received the 1990 Outstanding Research Award for his paper that discussed the feasibility of applying the Incident Command System to incidents in the refining and petrochemical industry. He was one of the first industrial fire chiefs to earn the prestigious Chief Fire Officer (CFO) designation in 2003 and is an internationally recognized author and speaker having delivered emergency response, industrial firefighting, and railroad fire-safety presentations in the United States, Jamaica, France, Singapore, Saudi Arabia, the United Kingdom, Canada, Poland, and Germany.

From December 2020 through May of 2023, Dr. Andrews served as a contract instructor (part-time) in the National Fire Academy's flagship Executive Fire Officer (EFO) program. In January of 2021, he began by serving as an Executive Advisor (Professor) in course M-5105 *Executive Fire Officer – Thesis* (a 4-semester course), where he supervised the graduate-level research of 16 chief fire officers during Semester 1 – *Research Synopsis*. Beginning in June 2021 he supervised the graduate-level research of 13 chief fire officers during Semester 2 – *Research Proposal*. Beginning in August 2022, Dr. Andrews supervised the research efforts of four chief officers / executive scholars and served as a second reader for an additional four chief fire officers in EFO course M-5104, *Exercise of Executive Leadership: Capstone 1*. In January 2023 Chief Andrews served as a mentor (non-paid) for an assistant chief fire officer in the last semester of the Capstone project. His mentee was one of only six EFO graduates whose Capstone paper received the 2023 EFO Outstanding Research Award.

In recognition of his life-long professional achievements, significant contributions and distinguished service to the nation's fire & emergency services and fire protection disciplines, on October 12, 2021, Chief Andrews was inducted into the National Fire Heritage Center's *Hall of Legends Legacies & Leaders*. Chief Andrews is a member of the Class of 2022 and is Inductee #0098.

In March 2023, Dr. Andrews received a 3-year faculty appointment (unpaid, part-time) as an Adjunct Professor in the Department of Fire Protection Engineering in the A. James Clark School of Engineering at the University of Maryland's College Park campus. In his new role, he will coach and mentor students and alumni in the areas of business, leadership, entrepreneurship, and career planning. Professor Andrews will also counsel members of the fire service who are interested in considering the department's new on-line B.S. in Fire Protection Engineering degree. Dr. Andrews served as symposium chair for the 2022 University of Maryland / National Fire Protection Association Ecosystem Symposium. Professor Andrews' faculty bio can be found at: <https://fpe.umd.edu/clark/faculty/1801/Robert-C-AndrewsJr>.

In the spring of 2023, Dr. Andrews served as an Advisor in the University of Texas at Austin's School of Architecture *UT Community and Regional Planning Spring Practicum: Positioning the Austin-San Antonio Corridor for High-Performance Intercity Rail*. The practicum is the capstone project required for the Master of Science in Community and Regional Planning degree. The project reports are available online at <https://lnkd.in/g727kfWj>.

Also in the spring of 2023, Dr. Andrews served as an Advisor in Temple University's Fox School of Business where he assisted graduate-level students complete their capstone project as part of the Fox Management Consulting Practicum, the capstone experience for Fox MBAs. Their capstone project was, *Communications Strategy Temple University Public Safety*.

Dedicated to lifetime learning, Chief Andrews traveled to England in June of 2024 and attended the three-week long resident Cambridge Advanced Leadership Program (ALP) at the University of Cambridge's Judge Business School. Dr. Andrews is a graduate of ALP Cohort 24, where he was one of 25 C-Suite executives representing 16 countries from around the world.

With a strong commitment to giving back to society through academia, in July 2024, Dr. Andrews was designated a Visiting Fellow (FDIRDI) in the Durham Institute of Research, Development, and Invention at Durham University, England.