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<p><b>SESSION 4A</b></p>	<p><b>WHEN BAD THINGS HAPPEN TO GOOD SYSTEMS... A REVIEW OF SELECTED FIRE PROTECTION SYSTEM FAILURES</b></p>
<p><b>SESSION DESCRIPTION</b></p>	<p>Using case studies, this session will explore examples of unforeseen fire protection system failures and address their impact on the related scope and damage from related fires or other loss events. The alignment of responsibility and opportunity for identifying and addressing such possible system failures by various stakeholders will be discussed. Attendees can expect to gain a broader appreciation and awareness of the potential causes and impact of such failures.</p>
<p><b>SPEAKERS BIO</b></p>	<p>Dan Arnold is an FPE graduate from the University of Maryland with more than 43 years of experience in fire protection; 37 years as a FPE. His early experience was as a volunteer firefighter in PG County, Maryland. His engineering experience includes 16 years with Rolf Jensen &amp; Associates where he was a Vice President/Engineering Manager. In 2001, Mr. Arnold founded Seneca Fire Engineering, LLC; a consulting firm that provides fire protection engineering services.</p> <p>Mr. Arnold is a registered professional engineer in 21 states and an SFPE Fellow. He has taught numerous seminars and written articles on a variety of fire protection and loss analysis topics. He is Past President of the Greater Atlanta SFPE Chapter currently serves on the SFPE Board of Directors.</p> <p>Mike Ernst has over 15 years of experience providing fire protection engineering services in the Southeast United States. In 2002, Mr. Ernst graduated from Georgia's Institute of Technology with a degree in Mechanical Engineering and is a licensed Professional Engineer in Fire Protection. He has spent his career reviewing architectural and engineering drawings and specifications for conformance with local, state and national codes including NFPA, IBC, UFC, and FM standards; preparing specifications for fire alarm and suppression systems; design of fire protection, fire alarm, mass notification, and life safety for projects in higher education, military, commercial, industrial, healthcare, and hospitality. Mr. Ernst is experienced at providing consulting engineering associated with specialty suppression systems including FM-200, NOVEC 1230, and VESDA; inspections, site surveys, and commissioning of fire sprinkler, fire alarm, smoke control, and life safety; and developing performance based design solutions to challenging building configurations.</p>