

IPAF Meeting October 11, 2017

Session Title and Description: A Solution for Fall Prevention Using PFPE

Boom lifts require the use of PFPE by all in the work platform (operator and occupants) – but there is no way to ensure that all personnel are safely attached to their PFPE. The Boeing company and Control Dynamics Inc. (CDI) team created a STANDARDIZED approach to ensuring that PFPE is worn. The newly-designed system is becoming the Boeing standard, complies with all worldwide requirements, is inexpensive, and ensures that lifts may not leave the ground unless everyone is attached to their PFPE. The interlock system also incorporates features to prohibit lift movement when any occupant has left the platform.

Presenters

Eric Moran – Control Dynamics Inc.

Gerald Pollard – The Boeing Company

Joseph Fletcher – The Boeing Company

Eric Moran

Solving complex safety and efficiency problems in Aerospace manufacturing

Eric Moran is the founder of Control Dynamics Inc (CDI), an electrical and mechanical engineering company delivering safety solutions to the Aerospace industry since 1994.

He is a lifelong inventor who has several patents on interlock systems and motorized railings. During his 30+ years of career, Eric formed strategic relationships with the Boeing company to solve some of the toughest challenges of personnel safety and complex manufacturing.

Under Eric's leadership, CDI recently won:

- 2017 Green Cross for Safety Innovation Award
- 2016 Boeing Supplier of the Year Nominee
- INPEX 2015 Kitchen Innovation Award for "Reach Mobility Moveable Shelf System"

Eric devotes his personal time being a community board member helping his community. He provides technical expertise in the well and generator systems for 65,000 gallons of stored potable drinking and fire-protection water for 70 homes in his community. He also works with surrounding community dairy farmers to help conserve water and manage waste water to improve marine life and ecological health of water estuary feeding into the Puget Sound.

When he is not working, Eric is relaxing with his wife, his dogs, flying his hovercraft and making his home energy efficient using solar, wind, and battery sources.

Gerald Pollard

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GERALD O. POLLARD

**Lead Engineer, Everett Equipment Engineering
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Gerald began his Boeing career in 1986 and has over 40 years of engineering and management experience. His designs have seen the deepest depths of our oceans, the furthest reaches of our solar system, and one design enabled the Voyager spaceship to successfully navigate the galaxy. He is an experienced writer and editor, a skilled public speaker, and an accomplished instructor with experience teaching in more than 22 countries and 5 continents. For the last five years, he has dedicated himself to eliminating safety hazards.

Gerald's personal interests include prospecting and fishing. He used to operate three placer gold mines in the North Cascades. Larry Schick of KSTW TV channel 11 news ran a 30-minute expose on Gerald's mining exploits. Gerald has often been on the front page of the Seattle Times and Post Intelligencer for coverage of his prospecting seminars. He has loved to fish since he was young boy and for three years, he was the first mate of the 65-ton Goleta Beach Islander.

Joseph Fletcher

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Joseph M. Fletcher

**Associate Technical Fellow
Technical Lead Engineer,
Boeing Research and Technology**



Joseph Fletcher is an Associate Technical Fellow for Boeing specializing in the development of advanced manufacturing assembly systems and processes at Boeing Research & Technology in Everett, WA. Joe started at Boeing as a mechanic in 1979 before obtaining his Bachelor of Science in Civil Engineering from Seattle University. He received his Masters in Strategic Planning for Critical Infrastructures at the University of Washington, and an MBA from Seattle University. He is Guest Faculty at Boeing Advanced Research Center (BARC) at University of Washington. His technical and manufacturing experience includes a broad scope of research, engineering, and project management assignments for leading projects. Joes strengths include a detailed knowledge and of manufacturing customer domain in operations. His knowledge of manufacturing critical infrastructure interdependencies analysis and risk mitigations ensure sustainability of operations of highly fragile IT dependent manufacturing operations across sites. Joe has implemented several Automatic Identification Technology (Barcode, RFID) systems to support business critical configuration control and high value asset tracking systems. His familiarity and expertise with large-scale manufacturing technology integration, planning and strategy development has allowed him to support business critical manufacturing systems data collection, transmissions and utilization. Joe is leveraging his knowledge with Strategic Research and University Coordination to develop external research resources for Boeing. Starting 2014, Joe has focused activities on implementation of several EHS Environmental Health and Safety Sensors to accelerate safety improvements in operations