

2018 Elevator U Conference Educational Program

University of Alabama (June 19-21)

All courses outlined below are intended for the educational advancement of Managers, Engineers, Foreman, Supervisors, Technicians, or anyone involved in the vertical transportation industry.

1. **The 9 Safety Absolutes (Approved for 0.1 CEU – NAESA) (Approved for 1.0 Hour Safety – NAEC)**

Time: 1 Hour

Presenter: Kevin Brinkman, National Elevator Industry Inc. (NEII)

Presentation Summary

Understanding that resources are limited and continue to become less available on college campuses, we know that facility managers and staff members are often relied upon to complete elevator maintenance and minor repairs and replacements to save time and money. Understanding the Safety Absolutes will help increase facility managers' understanding of elevator maintenance best practices and the need for consistency across the industry on fatality prevention education and training. If your staff needs to complete elevator maintenance or repair, this training will help identify ways to maximize safety and prevent injuries.

Brief Bio

Kevin Brinkman is the Vice President, codes and safety for NEII. Brinkman focuses on development of the model safety codes and adoption of the ASME codes across the country. As part of this role, he is a member of the ASME A17 Standards Committee for the Safety Code for Elevators and Escalators as well as being the chair of the ASME A17 Code Coordination Committee and a member of several other A17 working committees. He also serves on the ICC/ANSI A117.1 Committee, NFPA 5000 and 101 Technical Committees, and is involved in the IBC Code process. Kevin is also the NEII staff Liaison for the NEII Field Employee Safety Committee, which develops content for the Elevator Industry Field Employee Safety Handbook. He has been working in the elevator and lift industry for over 27 years.

2. Proper Hydraulic Oil Maintenance (Approved for 1.0 CET/CAT – NAEC)

Time: 1 Hour

Presenter: Doug Muennich, RelaDyne

Presentation Outline

Proper hydraulic oil maintenance to ensure safety and reliability of elevators

- Properly maintained oil is key to hydraulic elevator performance & long term reliability
- Leveling is the most common issue and possesses challenges for the industry
- Importance of oil in hydraulic elevators
- Common symptoms of oil in hydros
- Test for measuring hydraulic elevator health

Brief Bio

Doug Muennich has more than 25 years of experience as a Certified Lubrication Specialist through the Society of Tribologists and Lubrication Engineers (STLE). He currently leads the Varnish Mitigation Business Development efforts of RelaDyne. Muennich has spent the last 15 years focusing on the problems and solutions associated with oil oxidation and the formation of varnish.

3. Freight Elevators, Renewed Application & Door Safety

Time: 1 Hour

Presenter: Michael Ryan, Peelle Company

Presentation Outline

Peelle will review construction trends and the renewed interest and application of freight elevators with vertical slide doors as well as how they differ from applications with horizontal slide doors. The presentation will also include a review of Vertical Slide Door Safety, specific components, products, and services for both existing and new construction.

Brief Bio

Michael J. Ryan is Vice President of Business Development for The Peelle Company; He's located at Peelle's New York Head Quarters. Ryan is responsible for growing sales of new products and developing markets. Ryan was previously Vice President of Sales and Marketing, managing the North American Market for freight elevator doors and related products. He has been with Peelle since

1980 in a variety of sales and management positions. Ryan is a past board member of the National Association of Elevator Contractors (NAEC) and is their past Exhibit Advisory Chairman, selecting NAEC Expo locations and managing supplier issues. Ryan was also past Chairman of the Elevator Escalator Safety Foundation. He is Membership Chairman of the Canadian Elevator Contractors Association and is a member of NEII's Communications Committee. Ryan was the New York's Pop/Joe Golf Outing "Man of the Year" and is a past recipient of NAEC's President's Award and William C. Sturgeon's Distinguished Service Award.

4. Elevator Safety – Unintended Motion/Uncontrolled Ascent/Door Lock Monitoring (Approved for 0.1 CEU – NAESA) (Approved for 1.0 CET – NAEC)

Time: 1 Hour

Presenter: Mark Yako, G.A.L

Presentation Outline

Unintended motion and uncontrolled ascent has been part of the code for some time. But actually, what is it and do I need it? The riding public is terrified of the elevator crashing into the pit but do they realize there is a higher risk traveling in the up direction? People also don't realize that they are most vulnerable to injury when the doors are open at the floor and they are entering or exiting the elevator. We will discuss what safeguards have been put into place in the code to help mitigate these types of accidents. Discuss door lock monitoring as it relates to new and older systems.

Brief Bio

Mark has been in the elevator industry since 1984, starting as a helper for Otis Elevator. Transition to sales in 1990, gaining experience as both a contractor and vendor representative with each increase of responsibilities. Prior to joining G.A.L in February 2010, spent 3 years as Northeast US Sales Manager for Draka. In his current role as Regional Sales Manager, his responsibilities include representing G.A.L Manufacturing Corporation and Hollister-Whitney with a focus primarily in the Northeast USA.

5. Competing today & Tomorrow in the Proprietary Elevator Industry

Time: 1 Hour

Presenter: Walter Barnes, Electronic Controls Inc. (ECI)

Presentation Outline

- Understanding Proprietary
- Historic Prospective
- Present and Future Trends
- Supporting Obsolete Equipment
- What should I support & what should I stay away from
- What can I do to insure our maintenance program's success in the future

Brief Bio

Walter Barnes is President and co-founder of Electronic Controls, Inc. ECI is recognized as the national leader in circuit board and controller support. Supporting equipment manufactured by the majority of industry OEM's over the last 35 years. These support activities represent sales and repairs on the largest number of OEM circuit board offerings in the industry. Additionally, ECI manufactures state of the art time saving LCD door control boards, LED lighting, auto light controls, PLC's, service tools, and many other industry assessories.

6. Door Safety Retainers (Approved for 0.1 CEU – NAESA) (Approved for 1.0 CET/CAT – NAEC)

Time: 1 Hour

Presenter: Richard Gregory, Vertex Corporation

Presentation Outline

This presentations covers the history of accidents where people have fallen down the elevator hoistway through the hoistway entrance. It then covers the code rules and requirements that apply to hoistway entrances. As a result of the code, there is the need for bottom door guides and safety retainers on the bottom of hoistway doors. After that portion of the presentation, the engineering tests of a door with bottom door guides alone, then with safety retainers of different manufacturers will be presented and discussed. The final results will be presented which shows the need for safety retainers on the bottom of hoistway doors. A short discussion of terminology as it applies to these devices, and UL testing of elevator hoistway entrances and doors will finish the presentation.

Brief Bio

Mr. Gregory is currently a member of the A17.1 Standards Committee, retiring Chair of the Maintenance, Repair and Replacement Committee, and member of several other committees. He was a member of the State of Illinois Elevator Safety Review Board, former

Chair of the City of Chicago Elevator Committee and a former member of the Board of Regents of the Elevator Escalator Safety Foundation.

7. Elevator Testing and Rope Wear (Approved for 0.1 CEU – NAESA) (Approved for 1.0 CET/CAT – NAEC)

Time: 1 Hour

Presenter: Kevin Heling, Wurtec Inc.

Presentation Outline

A presentation on some new and important A17 elevator code related topics. Covering Category 5 (and Category 1) elevator testing done with electronic measurement equipment. There will be a short review /revisit of Alternative Testing (permitted in A17.1 starting with 2013 revision) and a specific presentation of a newly available electronic component for CAT 5 Testing of Hydraulic Elevators. A quick update of latest code requirements that deal with elevator suspension means and a major point summary/report on solving problems related to elevator ropes wearing out to fast.

- 1) How electronic testing came to be accepted in the code, how it works and why it is the better method of Cat 5 Testing. Presenting a system component for Cat 5 testing of hydraulic elevators.
- 2) Code change directly related to elevator suspension means – specifically, was is the change, how to comply, and why this will lower maintenance costs.
- 3) What is the cause of early elevator rope failure? What to fix and pay attention to. Short and simple answers.

Brief Bio

Presentation by Kevin Heling, Specialty Products Director for Wurtec. Kevin has worked for elevator component suppliers and supported the elevator industry for over 30 years. He is currently focusing on elevator installation, service, maintenance, and testing tools and is involved in research, education and consultation that relates to his broad areas of experience. Prior to joining Wurtec, Kevin managed an elevator rope manufacturing operation and managed manufacturing, operations, quality, sales, including related electrical installation components. He is currently focused on growing involvement in elevator codes and standards. He has written articles for elevator industry trade publications and has given training classes for elevator industry trade and safety organizations, as well as directly for elevator companies in the US, Canada, and Mexico.

8. Life Cycle Management & Product Reliability, Americas

Time: 1 Hour

Presenter: Mario Jones, Kone Spares

Presentation Outline

Life Cycle Management is based on the understanding that products must be managed through several stages of their life as they evolve. It is important to understand how product pensioning is supported and how to plan for eventual product obsolescence.

Brief Bio

- B Mario Jones graduated from Clemson University, and is a degreed Engineer
- Mario started in the elevator industry w/OTIS in 1976, following in the footsteps of his father and eventually becoming a Branch Manager
- Joined Montgomery in 1981, working in Florida as a Field Adjuster, earning increasing roles of responsibility
- Moved to the head office in Moline to support all technical issues in the business development of Montgomery International, from 1993 - 1998 in South America, the Middle East and Asia
- Instrumental in designing KONE field training methods, creating KONE Technical Training Centers and organizing the documentation to support these actions
- In 2012 became the Manager of Life Cycle Management and Product Reliability, Americas for KONE (LCM)

9. 5 Data Points for the MCP (Approved for 1.0 CET/CAT – NAEC)

Time: 1 Hour

Presenter: Michael Johnson, Gorman Company Inc.

Presentation Outline

The hydraulic oil is the life blood of the hydraulic system. 80% of the failures in an oil system can be traced to contamination, yet very little attention has been paid to the oil condition in the hydraulic elevator. This presentation introduces 5 standard data points that can be included in the MCP. These standards set a realistic expectation for the equipment owner for oil cleanliness and equipment life while offering the service company an achievable standard of service. Both the equipment owner and the service company benefit from these standards that are based on the unique characteristics and challenges associated with the hydraulic passenger elevator. Equipment owners can quantify and monitor the condition of the oil. Healthy oil will indicate a healthy system which is a negotiation tool; service companies will benefit by reduced uncertainty during the bidding progress.

Brief Bio

Michael Johnson is the Vice President of sales at Gorman Company, Inc. and the president of JFI Management, LLC a distributor for CC Jensen filtration products and EnBio Industries. Michael has managed the Oil Analysis Department at Gorman Company Incorporated for the past nine years and has conducted oil analysis and troubleshooting classes for various companies and elevator industry groups.

10. Drilling Hydraulic Holes of Consequence

Time: 1 Hour

Presenter: Mark Ortman, Ortman Drilling Inc.

Presentation Outline

A detailed look at drilling holes inside existing buildings for hydraulic elevators. We will discuss things to consider before bringing in a driller, different ways to tackle a drilling project, and a look at the ideal drilling process.

Brief Bio

Mark has been working in Precision Technical Drilling for 20 years. He began his career as a Driller's Apprentice. Upon completion of his apprenticeship, Mark assumed the position as Driller and eventually, Onsite Operations Manager. After 8 years of hands-on work in the field, he was promoted to Vice President of the Ortman Drilling Inc. Elevator Division. For the past 10 years, Mark has been responsible for elevator operations, including personnel, supervision/safety, project estimating, drilling, and inventory control.

11. Meeting Elevator Maintenance Personnel Needs

Time: 1 Hour

Presenter: Brent Marley, University of Alabama

Presentation Outline

In order to meet their growing demand for Certified Elevator Technician-Supervisors (CET-S's), The University of Alabama's Elevator Shop established a five-year apprenticeship program to train qualified applicants. Finding it difficult to hire qualified CET-S's, The University hired five apprentices in 2016 and several more in 2018 and now have seven apprentices and seven CET-S's. The program

is based heavily on the National Association of Elevator Contractors on-line CET training courses and Skills Verification Portfolio®. It also includes in-house supplemental training on simulators and plenty of on-the-job training to provide hands-on experience and a practical contribution. Hiring apprentices has several advantages. They are initially less expensive than CET-S's. Early on they can perform simpler maintenance tasks, freeing CET-S's to concentrate on more complex maintenance, while also performing more complex tasks as they progress. They can be custom trained for a university's specific needs. The program allows for knowledge transfer from more experienced CET-S's to the next generation, which enhances succession planning. The University has embraced their apprentice training program as a viable means of meeting their need for in-house elevator maintenance personnel and expects to continue hiring apprentices to replenish CET-S positions in the coming years.

Brief Bio

Brent Marley joined the University of Alabama's Facilities and Grounds Department in 2015 as the Director of Training, Planning and Elevator Maintenance. He oversees the operation of the UA Elevator Shop, manages training for the department, and administers the development of the department's deferred maintenance budget. Before coming to Tuscaloosa he spent 30 years in aerospace-related positions. As a government contractor, he supported NASA's Space Launch System, small satellite and small launch vehicle development for the US Army, space education for the US Air Force, and the Navigation Warfare Program for the Global Positioning System (GPS). Prior to working as a contractor Brent was an Air Force officer, overseeing space play in educational war games and conducting space operations including missile warning, space object tracking, and satellite control. He has an MS in Public Administration from Auburn University at Montgomery and a BS in General Engineering from the US Air Force Academy. He has been married for 33 years and has two grown daughters and one granddaughter.