SUNDAY, SEPTEMBER 29, 2024

7:00 AM Charity Golf Tournament Registration-Rosen Shingle Creek GC

8:00 AM Charity Golf Tournament Shot Gun Start-Rosen Shingle Creek GC

12:00 – 6:00 PM FPC Seminar Registration-Panzacola Registration Desk

Main Speaker Sessions – Panzacola G-H

3:00 - 4:00 PM 01: ASK AHCA 2024

-Scott Waltz and Eddie Alday (AHCA)

Session Summary:

This presentation will be an up to date summary of all the questions that have been submitted to the state of Florida Agency for Health Care Administration (AHCA) regarding interpretations of the codes and standards used by the Fire Safety Inspectors and the Architects and Engineers who inspect, review, and approve all of the health care facilities in Florida.

4:00 – 4:30 PM Charity Golf Award Presentation to CardioStart Intl-Gerrits Construction Healthcare in Severely Substandard Conditions-What is Possible

-Dr. Aubyn Marath

Session Summary:

This Award Presentation will summarize the world missions CardioStart, with the help of many Florida hospitals, has been undertaking to save the lives of children who live in adverse conditions.

4:30 – 5:30 PM **02: The Robots are Coming**

-Jay Weingarten (RDG), Joshua Marriott (Weitz), and Andre Teleguz (SCOPOS)

Session Summary:

This is an interactive session on integrating artificial intelligence (AI) and automation into senior living design and construction. Discover how machine learning algorithms and automation are reshaping the industry, and gain insights into best practices for incorporating these technologies. Explore the challenges of balancing evolving technology with real-world development and construction obstacles. Architects, engineers, and senior living providers will leave with a better understanding of leveraging AI and automation to enhance the quality of life for seniors, addressing challenges like speed to market, staff support, and quality assurance, building and fire code compliance, and quality control (QA/QC) management.

5:30 – 7:00 PM FPC Seminar Meet & Greet Reception Sponsored by iNCUE-Gatlin Pre-function

Contact Hours Approved and Submitted:

Architects: Up to 12 AIA/HSW submitted (11 HSW approved) Professional Engineers: Up to 10 FBPE approved (Area of Practice) Fire Safety Inspectors: Up to 6 FFC submitted Facility Engineers, Up to 12 ASHE suitable for submission by attendee. To obtain Contact Hours for your record, you must attend and be scanned into each Session.

MONDAY, SEPTEMBER 30, 2024

6:00 AM – 7:00 PM FPC Seminar Registration-Panzacola Registration Desk

7:00 – 8:45 AM FPC Seminar Breakfast Sponsored by Emerald Engineering-Sebastian Pre-function

MAIN SPEAKER SESSIONS – Panzacola G-H

8:45 - 9:00 AM Welcome to the FPC Seminar + Expo

9:00 - 10:00 AM **03 The intersection of Artificial** Intelligence (AI) and Architecture

-Daniel Escobar and Giovanna Pillaca (Diffusion Architecture)

Session Summary:

This presentation delves into the intersection of Artificial Intelligence (AI) and architecture, spotlighting how cutting-edge developments in AI are paving the way for novel applications in architecture and construction. We'll navigate through the latest advancements, from Large Language Models to 3D Computer Vision, equipping attendees with a comprehensive overview of AI's current state and its potential in shaping the built environment.

10:00-10:30 AM FPC Seminar Break Sponsored by B&I Contractors and APG

10:30-11:30 AM O4: AI: Its Contribution to Evidence -Based Design -Ray Pentecost III (Texas A&M University)

Session Summary:

Understanding what Artificial Intelligence is and how



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it works is an essential first step to appreciating its potential contribution to evidence-based design. If the AI is based, at least in part, on rigorous scholarly research, can it rightly be called evidence and be useful in design?.

If AI merges multiple research findings to create a consensus document, what becomes of the richness, detail, and potentially contradictory findings in those original pieces of research? This presentation will focus on the potential for AI to influence design, with some thoughts on what to watch for and where to exercise caution.

11:30-1:00 PM Lunch Sponsored by Gilbane Building Company and TLC Engineering Solutions -Gatlin B-C

BREAKAWAY SESSIONS

Architecture -Panzacola G2/H3/H4

1:00-2:00 PM O5: Practical Acoustics and Demountable Systems Acoustics in Healthcare

-Basil Jurdy (Stantec)

Session Summary:

The FGI Guidelines for the Design and Construction of Hospitals is the design code enforced in Florida. The section on acoustics separation has been in practice for several years now. This presentation will focus on lessons learned in applying and commissioning the acoustical design as well as two case studies that are focused on demountable partitions in Healthcare settings.

2:00-2:30 PM FPC Seminar Break Sponsored by WSP USA Buildings and ChillMaster-Panzacola Pre-function

2:30-3:30 PM

06: Collaborating and Complying: Using Artificial Intelligence in the Built Environment

-Robert Solomon (SLS Consulting) and Matt Foley (CodeComply.Ai)

Session Summary:

This session will demonstrate how AI is being applied to automate the plan review process thereby improving the design schedule, improving turnaround time for plan review, and allowing construction schedules to stay current.

3:30-4:30 PM **07: The Value of Intelligent** Healthcare Design

-Tatiana Guimaraes (Gensler) and Lorena Knezevic (Gensler/FIU)

Session Summary:

This presentation will correlate the idea of loyalty, efficiency and safety into ROI by focusing on three different ways to leverage AI when designing for healthcare:

To enhance patient experience, through layout optimization, personalized control and simulation.

To improve operational efficiencies, by implementing predictive analytics, automated planning and robotics integration and to raise design innovation to create a safer environment through measures that improve infection control.

It will spotlight project examples and use-cases, such as the employment of AI for spatial design simulations and the integration of AI within HVAC systems for advanced infection control.

Finally, potential future scenarios in healthcare design will be presented, emphasizing the shift towards AI as a collaborative partner in the design of healthcare spaces.

Mechanical Engineering -Panzacola G1

1:00-2:00 PM 08: Updates and Upcoming Changes to ASHRAE 170

-Michael P. Sheerin and Aaron Lee Johnson (TLC Engineering Solutions)

Session Summary:

This presentation will provide attendees direct insight on updates and upcoming changes to the standard from members of the ASHRAE 170 committee including a Voting Member, Secretary and past Chair of the 170 committee along with an FGI board member. Additionally, the presenters will discuss the impact that Artificial Intelligence is having on revising the standard and how end users are ultimately using the document.

2:00-2:30 PM FPC Seminar Break Sponsored by WSP USA Buildings and ChillMaster – Panzacola Pre-function

2:30-3:30 PM **09 Leveraging AI - No Regret Moves** from Early Use Case Pilots

-Jay Wratten and April Woods (WSP USA Inc.)

Session Summary:

With the advent of AI, many design firms are exploring opportunities to leverage AI for both improved efficiency and top line revenue.

Our experience in developing early use cases for capitalizing on Al's potential illustrate both the potential benefits and disruptions to business as usual.

We will present WSP's approach to AI across our global business, specific use case proof of concepts we are exploring through ongoing partnerships with companies such as Autodesk and Microsoft, and our recommendations for no regret moves that both clients and design firms should consider on projects in planning or design today.

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MONDAY

3:30-4:30 PM

10: Lessons Learned from Pharmacy Cleanroom Renovations

-Elaine Strauss and Tony Martin (WorkingBuildings)

Session Summary:

This presentation will review the key regulatory and facility design updates from the recently revised USP <797> and USP <800> pharmacy compounding standards. The proper design, installation, and commissioning of cleanroom facilities is a complicated and expensive undertaking for any health-system, large or small.

With multiple stakeholders, complicated negative pressure engineering control considerations, narrow temperature, differential pressure, and relative humidity requirements, and specific equipment needs, designing a compliant, safe, and efficient cleanroom is no easy task.

ELECTRICAL ENGINEERING -PANZACOLA H1/H2

1:00-2:00 PM 11: Fire Alarm Pathway Survivability - The Healthcare Perspective

-Larry Rietz (Jensen Hughes)

Session Summary:

The survivability of fire alarm circuits that must continue working during a fire has been required in the National Fire Alarm and Signaling Code[®] since 1999 and the Code has always addressed speaker circuits in emergency communications systems with a performance requirement for survivability.

In more recent editions, the Code has been modified as the cable technology changed, and Circuit Integrity (CI) cable was developed to meet the needs of designers and installers for providing survivability to many critical circuits in a fire alarm system installation. This program will review the history of this issue and where the Code and the industry stands relative to Pathway

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Survivability. This presentation will focus on the correct application of Pathway Survivability in healthcare occupancies of various sizes and types.

2:00-2:30 PM

FPC Seminar Break Sponsored by WSP USA Buildings and ChillMaster-Panzacola Pre-function

2:30-3:30 PM

12: UL 1069, 8th Edition the Standard for Safety for Hospital Signaling and Nurse Call Equipment

-Jenny Fields (UL Standards & Engagement)

Session Summary:

This Presentation will cover the critical role nurse call systems play in providing quality care and how UL 1069 ensures the system that is installed functions as intended. The basic requirements of the Standard, and how those requirements translate into patient safety will be outlined. Recent updates to the Standard that incorporate more flexibility to allow inclusion of everexpanding technology while maintaining the core level of safety will also be discussed. A brief overview of the UL Standards & Engagement process and how to get involved will be provided.

3:30-4:30 PM

13: Overcurrent Device Studies - Code Requirements for Healthcare Facilities

-Krista McDonald Biason (HGA Architects and Engineers) and Charlie Zarembinski

(ArchKey/Parsons Electric)

Session Summary:

This session will delve into the specifics of what an overcurrent device study is and why it is required for healthcare facilities.

We will explain how a study is created and the team members who are essential to a successful study (engineer, electrician, Owner). We will also share real experiences and create a list of things that are often overlooked in the healthcare environment.

Facility Engineering / Contractors -Panzacola F3/F4

1:00-2:00 PM 14: Artificial Intelligence and Self Learning: Paving the Way to Improve Logistics Automation

-Sandesh Jagdev (Logimaxx) and Douglas King (Project Management Advisors)

Session Summary:

Hospitals organizations and planners are seeking innovative ways to transform service delivery operations to address worldwide challenges such as declining birth rates, geopolitical issues, employee safety, and natural disasters. In this session, we will discuss a variety of technology alternatives and decision factors such as feasibility, practicality, safety considerations, space requirements, & engineering considerations for various automation alternatives within different operating environments. Our session will cover specific impacts of AI and self-learning on logistics automation. Artificial Intelligence (AI) plays a major role in navigation and communication capabilities of AGVs and AMRs. Three key aspects of autonomous technologies we will discuss are safety, reliability, and adaptability through selflearning.

2:00-2:30 PM FPC Seminar Break Sponsored by WSP USA Buildings and ChillMaster -Panzacola Pre-function

2:30-3:30 PM 15: Ventilation Management Program

-Dana F. "Dino" Coliano (The Climate Control Group) and Jonathan Flannery (ASHE)

Session Summary:

To ensure the built environment enhances the healing environment, there is a need for a Ventilation Management Program to control airborne contaminants by ensuring proper pressure relationships, temperature, humidity, pressure relationships, filtration efficiencies, and air exchange rates are maintained as well as

inspection, testing, and maintenance activities are documented and completed and documented. This presentation identifies how we have met compliance using ASHRAE/ASHE Standard 170, introduces newly created ASHRAE/ASHE Guideline 43, introduces the concept of a Ventilation Management Plan, and pulls together many of the best practices identified in the available resources as well as many Hospitals visits nationally.

3:30-4:30 PM 16: Leveraging BIM and Digital Twins for Enhanced Maintenance in Healthcare Facilities

-Michael Ortega, Brandon Henson, and Leigh Ann Vogel (Syska Hennessy Group)

Session Summary:

As the healthcare industry continues to evolve, the demand for efficient and effective facility management is paramount. Building Information Modeling (BIM) and the creation of digital twins offer innovative solutions to streamline maintenance processes in healthcare facilities. This presentation explores the transformative potential of BIM and digital twins in enhancing ongoing maintenance practices within healthcare environments.

This presentation will emphasize the transformative potential of BIM and digital twins in revolutionizing maintenance practices within healthcare facilities. Attendees will gain valuable insights into how these technologies can optimize operational efficiency, improve asset performance, move BIM far beyond 3D design and ultimately enhance patient care outcomes

FIRE SAFETY-F1/F2

1:00-2:00 PM 17: Major Changes to NFPA 99 2024 edition

-Michael Crowley (Coffman Engineers)

Session Summary:

NFPA 99 - 2024 Edition is in print. AHJ's across the Country and World are adopting or considering adopting this updated Code. For CMS regulated facilities, there are major changes in all chapters from the 2012 edition. We will review and discuss the 2024 updates and the updates in 2015, 2018, and 2021 editions. Major topics include Risk assessment, medical piping and gases, electrical systems, electrical equipment, micro grids, emergency management, security management, IT, plumbing, Mechanical, dental gases and piping, hyperbaric and fire protection features.

2:00-2:30 PM

FPC Seminar Break Sponsored by WSP USA Buildings and ChillMaster-Panzacola Pre-function

2:30-3:30 PM

18: Introduction to Firestop & Quality Control Review of Firestop Installations

-Jeffery Kovach and Tyler Wilson (Hilti)

Session Summary:

Firestop (Intro to Firestop) & Firestop 104 (Quality Control Review) provides the basic common knowledge of Firestop and how to use that knowledge to identify correct and incorrect installation. Upon completion, attendees will understand key test standards, variables that affect firestop performance, how to meet code requirements and primary and secondary attributes to Firestop products.

3:30-4:30 PM 19: Adoption of a Newer Life Safety Code - What else do I need to know?

- Jim Peterkin, PE FASHE, Jon Hart, PE

Session Summary:

The adoption of a newer edition of NFPA 101[®], Life Safety Code[®], brings about more than just the changes incorporated into the newer edition. All of the referenced documents also include changes that have occurred over the "code cycle". This session will explore some of the changes in those referenced documents.

4:30 – 7:00 PM

FPC Seminar + Expo Opening Reception Sponsored by Omega Flex and Amico Corporation-FPC Expo (Sebastian Ballroom)

TUESDAY, OCTOBER 1, 2024

7:00 AM – 4:00 PM FPC Seminar Registration -Panzacola Registration Desk

7:00 – 8:30 AM FPC Seminar + Expo Breakfast Sponsored by Little Diversified Architectural Consulting – FPC Expo (Sebastian Ballroom)

Session Summary:

This presentation will include a review of AI and how it is affecting all of our lives in our day to day activities. It will then turn to the realm of architecture and explore the good and bad ways AI is interfacing with architects and architecture. Can AI be controlled and manipulated to satisfy certain specific architectural goals for health care facilities, or will it become so out of control that it begins to dictate our choices and makes our decisions?

9:30-10:00 AM FPC Seminar + Expo Break in the FPC Expo – Sebastian Ballroom

Main Speaker Sessions – Panzacola G-H

8:30-9:30 AM 20: Al and Its Impact on Architecture

-Neil Leach, Professor at Florida International University, the European Graduate School and Tongji University.



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10:00-11:00 AM

21: Al Infusion: Redefining Healthcare's Design, Construction, and Operations

-Hamzah Shanbari (The Haskell Company)

Session Summary:

In 'AI Infusion: Redefining Healthcare's Design, Construction, and Operations,' Dr. Hamzah Shanbari will guide attendees through an immersive narrative exploring a hospital expansion project set in two alternate realities: one before the advent of AI and one transformed by it.

This journey will not only highlight the stark contrasts in efficiency, safety, and innovation brought about by AI integration but also underscore the seamless fusion of technology in every process step, from design through construction to operations.

11:00-12:00 PM

22: Al+Analogue: Prototyping Mental Health Environments with Generative AI

-Stephen Parker, and Jon Sell, (Stantec)

Session Summary:

This in-depth, interactive mental health mock-up process invites participants to design psychiatric inpatient environments using AI tools.

Beginning with an overview by Stantec's team of internationally-recognized mental health design experts on dignity-driven, trauma-informed, integrated design trends in behavioral health, the session will include a discussion of design process tools such as AI generative imagery, full-scale mock-ups & virtual reality (VR) showrooms.

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TUESDAY

12:00-1:00 PM

FPC Seminar + Expo Lunch Sponsored by Robins & Morton – FPC Expo (Sebastian Ballroom)

BREAKAWAY SESSIONS

Architecture -Panzacola G2/H3/H4

1:00-2:00 PM 23: Advancing Healthcare: Patient-Centric Design and Sustainable Growth at UF Health North

-Brian J. Schulz (Gresham Smith), Nancy McLaren (UF Health – Jacksonville), Penny Houchens (Gresham Smith) ,and Ben Roseborough (TLC Engineering Solutions)

Session Summary:

UF Health North began as an FSED/ASC/MOB in 2015 and was expanded to include a 92-bed patient tower in

2017. Recently, the team was challenged with executing the next phase in the master plan - the addition of a 124-bed patient tower which would more than double the original bed count. Expanding the back-of-house capacity while maintaining connectivity with other service areas required careful coordination and enabled other expansion projects within the existing facility. The design team reinforced the institution's well established brand identity through evidence-based, human-centric design principles. This involved optimizing interior lighting, maximizing exposure to natural daylight, providing outdoor respite areas, and integrating positive distractions such as views of nature and artwork. This emphasis on environmental elements has significantly enhanced the well-being of both patients and caregivers.

2:00-3:00 PM 24: Harnessing AI for Conceptual Design Excellence in Healthcare

-Grant Saso, Garrett Herbst, and Helena Cheung (Little Diversified Architectural Consulting, Inc.)



Session Summary:

This session will demonstrate how to integrate AI within the healthcare conceptual design phase, which is defined by programming/planning and visual graphics. We aim to outline the process of developing, condensing, and utilizing data sets with AI to inform program planning and then present those consequences in AI by creating qualitative experiences of visual images, renders, and forms. This presentation will outline how AI-generated analysis of the healthcare facility can become a catalyst for iterating designs and showcase how collected data from a facility or project can relate to varying matrices to help inform design solutions at three scales: site, building, and occupant.

Mechanical Engineering -Panzacola G1

1:00-2:00 PM 25: ASHRE 514: New Water Management Standard - How will this impact water system design and water management programs?

-Jonathan Flannery (ASHE)

Session Summary:

Standard 514 provides minimum practices to manage overall risk from microbial hazards as well as risk from physical and chemical hazards associated with potable and non-potable building water systems. Consistent with the provisions of Standard 188, Standard 514 provides a framework for the systematic development of water management programs, from design and construction to occupancy, including post-occupancy modifications and renovations.

This presentation will provide a detailed description of the differences and similarities between ASHRAE 514 and 188. This understanding will allow the proper application of the strategies within the standards and help those managing water systems to better protect those they serve. It is well known that individuals can be exposed to waterborne pathogens, chemicals and physical hazards through contact, ingestion or inhalation of aerosols. A robust water management program as detailed in ASHRAE 514 can help building owners, public health officials and water purveyors reduce the risk of physical, chemical, and microbial hazards through water systems.

2:00-3:00 PM 26: Empowering Healthcare: Digitization as the Foundation for AI-Driven Innovation in HealthCare Facilities

-Sanjyot Bhusari (Affiliated Engineers Inc), Brad Pollitt (Moffitt Cancer Center), Daniel Ellis (Affiliated Engineers Inc), and Paul Bevis (Brasfield & Gorrie)

Session Summary:

Within the healthcare industry, AI is already making significant strides across various stages, from design and construction to operations. Design and Construction firms are harnessing AI to explore a spectrum of design options, automating the review of submittals, and conducting virtual system testing to identify optimal solutions efficiently. In operations, leading healthcare campuses are employing machine learning to forecast maintenance needs, anticipate equipment failures, and optimize energy usage and operational efficiencies. The potential applications of AI in this domain seem boundless.

However, to fully realize the benefits of AI, it is essential for design consultants, contractors and healthcare institutions to first embrace digitization. Digitizing processes lays the foundation for integrating AI seamlessly into existing workflows, enabling organizations to capitalize on this transformative technology trend and drive innovation in healthcare facility management and operations.

ELECTRICAL ENGINEERING -PANZACOLA H1/H2

1:00-2:00 PM 27: The Smart Operating Room: Leveraging AI to Improve Clinical Workflows

-Alexandra Andrei (CannonDesign)

Session Summary:

Implementing machine learning and AI technologies

TUESDAY

into operating rooms can significantly enhance workflow efficiencies by automating supply management processes. This involves utilizing cameras equipped with visual recognition capabilities to identify missing or needed supplies. By analyzing images captured in real time, machine learning algorithms can accurately recognize and track various medical instruments and equipment.

The implementation of an Operating Room control touch panel to visualize supply needs can be highly beneficial. It allows surgical staff to monitor supply levels in real time, helping to ensure that essential items are readily available during procedures. This not only improves efficiency but also reduces the need for circulating nurses to leave the sterile field to gather supplies, thereby minimizing the risk of contamination. By optimizing workflow and reducing disruptions, such technology contributes to maintaining a sterile environment and enhancing patient safety.

2:00-3:00 PM 28: Revolutionizing Patient Care Through Intelligent, Interoperable Healthcare Facilities

-Roy Hoffman (Stark Tech) and Braheem Santos (Schneider Electric)

Session Summary:

In this presentation, we will discuss the digital advancements made in facilities management and how they have transformed the patient experience. At the heart of the intelligent patient room is the utilization of digital technologies to prioritize patient needs.

This involves integrating all low voltage systems within the room and hospital, including building systems, medical equipment, nurse call systems, and more, under a comprehensive digital system. Once this foundation is established, it enables data collection for analytics, fault detection for facility maintenance, AI-driven predictive analytics, and minimizes the need for emergency equipment replacements.

Facility Engineering / Contractors -Panzacola F3/F4

1:00-2:00 PM 29: A Pathway to Attaining Net Zero Through Planning & Predictive Modeling

- Marco DiRenzo (BR+A Consulting Engineers), Lindsey Butler (CREF Global), and Matthew Bluette (CUBE3 Architects)

Session Summary:

For many Healthcare facilities the pathway to attaining net zero has been a slow and sporadic journey of isolated changes in practice and occasional infrastructure upgrades. The goal of being carbon neutral should be a main institutional priority given the same weight and importance as all other goals that support the mission statement of an organization. The increase of AI capabilities for predictive modeling can speed up the process and provide a platform to manage all of the data collected and for collaboration between institutions to maximize resources.

2:00-3:00 PM

30: Retro-Commissioning: Understanding the Steps of Building Retrofit and Performance Verification Testing

-Jeffrey A. Miller and Brian J. DuChene (Terracon Consultants, Inc.)

Session Summary:

The Retro-Commissioning (RCx) process includes preliminary assessment, investigation, energy modeling and estimating rates of return on retrofits, developing a Master List of Findings, conducting retrofits based on estimated rates of return, and verification testing to verify economic results. This presentation will address the typical approach to performance verification testing, how it is planned and conducted, what the roles are of the professionals involved in the RCx process, what systems typically require verification testing, and what are the building owner's responsibilities are for ongoing continuous RCx. Typical methods of performance verification testing for building enclosure, mechanical, electrical, plumbing, fire protection, components and systems will be discussed. Representative project histories will be presented.

FIRE SAFETY-F1/F2

1:00-2:00 PM **31: In Case of Fire, Use Stairs-And Elevators**

- Robert Solomon, Principal, SLS Consulting, LLC, Charlestown, MA

Session Summary:

What happens when a hospital design involves a super tall high-rise structure that exceeds a height limit of 420 feet? In the United States, modern era building codes require the installation of a third exit stair or a design that incorporates the occupant evacuation elevator (OEE) concept. These provisions first appeared in the 2009 edition of the International Building Code (IBC) and have remained largely unchanged since that time. State or local jurisdictions that have adopted different editions of the IBC since this time have had to comply with this design requirement.

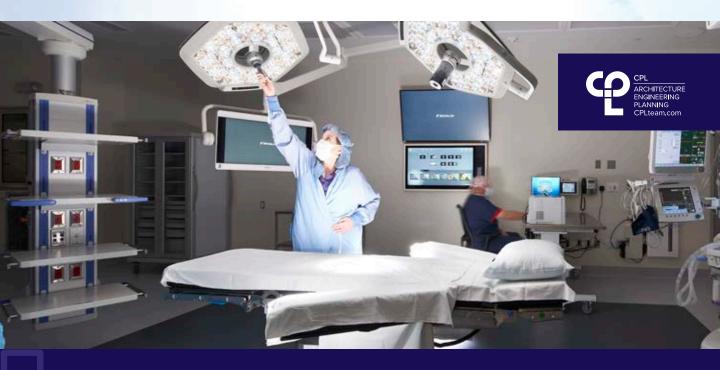
The specific requirements involving OEE are based on a mix of provisions that come from the IBC, ASME A 17.1,

Safety Code for Elevators and Escalators and NFPA 72, National Fire Alarm and Signaling Code. Companion requirements from the 2012 edition of NFPA 101, Life Safety Code must also be considered for the project. Although the notion of using elevators during a fire emergency is generally a foreign concept, the code compliance path is more straightforward than one might conclude. This session will demonstrate and discuss the approach taken by the design team to integrate the OEE criteria from the related codes and standards, including specific local amendments to those documents that are applied in New York City.

2:00 - 3:00 PM **32: NFPA 25 Updates**

-Jeni Pierce

Briefly discuss NFPA process, changes to 2020 edition, as well as what public inputs have been resolved. Discuss changes coming in the 2023 edition of NFPA 25.



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