



39th Annual FPC Seminar + Expo

Sunday, October 1, 2023 - Tuesday, October 3, 2023

SCHEDULE

Sunday, October 1, 2023

7:00 AM Registration – **Charity Golf Tournament** at Rosen Shingle Creek Golf Club

8:30 AM Shotgun Start - Rosen Shingle Creek Golf Club

12:00 - 6:00 PM **Registration - FPC Seminar** (Panzacola Registration)

2:00 - 6:00 PM **Registration - FPC Expo** (Sebastian Registration)

3:00 - 5:30 PM

Main Speaker Sessions (Panzacola G-H)

3:00 - 4:00 PM

1: **ASK AHCA 2023: Review of New Codes, Standards, Submissions, and Inspection**

(Approved CEH's: 1 AIA/HSW, 1 FBPE, 1 CILB, 1 FFC, Suitable to submit for 1 ASHE)

Speakers:

Scott Waltz, NCARB, Bureau Chief, Office of Plans and Construction, AHCA, Tallahassee, FL

Eddie Alday, Gov. Analyst II, Life Safety Lead, HQA, Field Operations, AHCA Tallahassee, FL

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) through the Seminar Website Ask AHCA 2023. It will include AHCA 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. There will also be information on the plans review and construction survey changes that are being implemented in the Office of Plans and Construction and the Field Office survey Fire Safety Protection Specialists at AHCA.

4:00 - 4:30 PM

Charity Golf Presentation

Healthcare in Severely Substandard Conditions—What is Possible (Charity Golf Award to CardioStart International)

Speaker:

Dr. Aubyn Marath, MBBS MS FRCSED, Pediatric & Adult Cardiothoracic Surgeon, President, CardioStart International, Eugene, OR

Summary:

Learn how children around the world, who live in adverse conditions, are provided with the medical/surgical cardiac care they need to live better and longer lives.

4:30 - 5:30 PM

2: **The Hurricane Ian Story, Lessons in Resiliency**

(Approved CEH's: 1 AIA/HSW, 1 FBPE, 1 FFC, Suitable to submit for 1 ASHE)

Speakers:

Dave Kistel, Chief Facilities Executive, Lee Health, Fort Myers, FL

Rod Allen, System Director Plant Operations, Lee Health, Fort Myers, FL

Bob Kramer, VP - Account Manager, Skanska USA Building, Inc., Fort Myers, FL

Teresa Campbell, Partner and Studio Health Leader, HKS, Inc., Orlando, FL

Session Summary:

Pandemics and Hurricanes - real life occurrences that have had significant impact in recent times on Florida hospitals. This presentation will focus on one Florida hospital system, Lee Health located in Ft. Myers, Florida, that was significantly impacted by both the pandemic and the last hurricane to hit Florida's west coast. The objective of this course is to focus on real life disruptions caused by these events to the health system in the area of design and constructed facility resiliency and redundancy and to analyze how the building codes were effective or not effective in protecting the patients and supporting the staff and family.

5:30 - 7:00 PM **FPC Seminar Meet & Greet Reception** (Butler & Butler Balcony)

Monday, October 2, 2023

6:00 AM - 7:00 PM **Registration - FPC Seminar** (Panzacola Registration)

7:00 AM - 6:00 PM **Registration - FPC Expo** (Sebastian Registration)

7:00 - 8:45 AM **Breakfast for FPC Seminar Registrants** (Sponsored by APG) (Sebastian Pre-Function)

8:45 - 11:30 AM

Main Speaker Sessions (Panzacola G-H)

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

Speaker: Skip Gregory, AIA, NCARB, Health Facility Consulting, LLC, Tallahassee, FL

9:00 - 10:00 AM

3: *Overview of the 2022 Edition of the FGI Guidelines*

(Approved CEH's: 1 AIA/HSW, 1 FBPE, Suitable to submit for 1 ASHE)

Speaker:

Heather Livingston, Chief Operating Officer and Managing Editor, Facility Guidelines Institute, Northampton, MA

Session Summary:

This course will provide an overview of changes in the 2022 FGI Guidelines, the design standards employed by medical planners, designers, and owners of hospitals, outpatient facilities, and residential care settings and adopted by reference in the Florida Building Code.

The presenter will discuss key factors that influenced changes across the 2022 Guidelines documents. Topics include considerations for inclusive environments that support all populations; new clinical spaces that have the potential to reduce overcrowding in emergency departments; a new chapter for extended stay centers in the Outpatient document for patients receiving care in outpatient surgery or freestanding emergency departments; and a new unit for intensive outpatient and partial hospitalization programs for patients with behavioral and mental health diagnoses who do not require inpatient care.

10:00 - 10:30 AM **Break** (Sponsored by Multivista and Wal-Mark Contracting Group, LLC) (Sebastian Pre-Function)

10:30 - 11:30 AM

4: *Infection Control Principals for Health Care Construction*

(Approved CEH's: 1 AIA/HSW, 1 FBPE, Suitable to submit for 1 ASHE)

Speaker:

Andrew Streifel, Hospital Equipment Specialist, University of Minnesota (retired), St. Paul, MN

Session Summary:

Construction in healthcare facilities is a complex management issue during construction inside sensitive patient care environments required for current patient care technology. While common sense is the issue in a patient care facility, this sense is not common to the untrained construction worker. Protection during demolition, utility outages and build-back requires objective assurances (i.e. airflow direction from clean to dirty, etc.). Such understanding for air and water management should be standard operating procedures. This lecture will discuss a listing of these principles and verifiable environmental parameters which can be checked on a daily basis. Such infection control validation is necessary to assure patient safety during healthcare construction..

11:30 AM - 12:30 PM **Lunch** (Sponsored by SSR and TLC Engineering Solutions, Inc.) (Gatlin C)

12:30 - 1:00 PM **Dessert Soft Opening in FPC Expo** (Sponsored by Gilbane Building Company) (Sebastian Ballroom)

1:00 - 4:30 PM

Breakaway Sessions

ARCHITECTURE **Architecture Track** (Panzacola G1/H1/H2)

1:00 - 2:00 PM

5: *Revisions Imaging Room Classifications and Requirements for 2022*

(Approved CEH's: 1 AIA/HSW)

Speakers:

Kevin Matuszewski, AIA, NCARB, Chicago, IL

Bryan Langlands, FAIA, FACHA, EDAC, LEED® GA, New York City, NY

Session Summary:

Adopted in 44 states and Florida, the FGI Guidelines for Design and Construction of Hospitals and Outpatient Facilities is a nationally recognized standard for minimum healthcare design requirements. This session will offer a comprehensive overview of the Imaging Room classification system, including drivers, implications, specific requirements, and differences between the Hospital and Outpatient documents. Learnings will be shared from the six years since the classification system was first published. The session will also offer insight as to how the procedural context ties to room classification. It will provide clarity on how the classification system is employed in practice, while highlighting revisions between the 2018 and 2022 editions of the FGI Guidelines. Finally, a short overview of revisions proposed for 2026 will be offered as a glance to what comes next.

2:00 - 2:30 PM **Break in FPC Expo** (Sponsored by ChillMaster and WSP) (Sebastian Ballroom)

2:30 - 3:30 PM

6: *Influence of Technology in the Design of a New Surgical Institute*

(Approved CEH's: 1 AIA/HSW)

Speakers:

Corey Gaarde, FHIMSS, CPHIMS, Project Executive, IMEG, Naperville, IL
Valerie Ruby, RN, BSN, MBA-HCM, CNOR, Executive Director Surgical Services, Jupiter Medical Center, Jupiter, FL
Kevin Olson, Vice President/Chief Information Officer, Jupiter Medical Center, Jupiter, FL

Session Summary:

The presenters will discuss the influence of technology in the design and future operations of a new surgical institute. The case study is of a design and construction that was nearly complete, with budgets established under leadership that was no longer at the organization. Under new leadership, a new healthcare information technology design team was brought on to the project to immediately assess and align the future of technology and the impact it had on the patient care experience. This included plans for an Epic migration, patient and caregiver awareness, and a heightened overall digital patient experience in perioperative care. The new technology had to meet the requirements of the adopted design codes such as FGI Guidelines.

3:30 - 4:30 PM

7: *Exploration of Where Behavioral Health Intersects with Code Requirements in Healthcare Design*

(Approved CEH's: 1 AIA/HSW)

Speakers:

Alexandra Wysocki, NCIDQ, LEED AP BD+C, WELL AP, Sr. Associate, Healthcare Planner, FCA, Winter Park, FL
Paul Degillio, Associate, Healthcare Senior Project Manager, FCA, Winter Park, FL

Session Summary:

Behavioral Health has more specialized needs, treatment modalities, and safety requirements than other forms of healthcare. In this session we will look at multiple project experiences where the code requirements intersected with the specific needs of our clients and how we resolved any perceived discrepancies.

Mechanical Engineering Track (Panzacola G2)

1:00 - 2:00 PM

8: *ASHRAE 170 Updates*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Michael Sheerin, Chief Executive Officer, TLC Engineering Solutions, Orlando, FL
Aaron Johnson, Director of Healthcare Operations, TLC Engineering Solutions, Orlando, FL

Session Summary:

With ASHRAE 170 as a Continuous Maintenance Document, addenda are frequently published, although not mandated by the state's adoption process. Members of the ASHRAE 170 committee will provide an overview of changes that have been incorporated into the 2021 published edition as incorporated by the FGI Guidelines along with more recent updates that have been approved or are presently in the works. Additionally, a preview will be provided of the newly drafted operational guideline for healthcare facilities.

2:00 - 2:30 PM **Break in FPC Expo** (Sponsored by ChillMaster and WSP) (Sebastian Ballroom)

2:30 - 3:30 PM

9: *Updates for NFPA 99 Medical Gas*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Paul Rumbos, ASSE Certified Medical Gas Inspector, Major Medical Hospital Services, West Berlin, NJ
Jonathan C. Willard, Acute Medical Gas Services, Inc, Goffstown, NH

Session Summary:

The 2021 edition of NFPA 99 will be adopted in Florida at the end of this year. There are changes to the medical gas and vacuum requirements that are important to know so that code complying systems can be designed. This session will be a deep dive into those revisions so there is a clear understanding of what the requirements are for medical gas and vacuum systems.

3:30 - 4:30 PM

10: *Ventilation System Resiliency In Hospitals - Will Healthcare Facilities Be Ready for the Next Pandemic?*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Gary Hamilton, Senior Vice President, USA Healthcare Director, WSP USA
Jonathan Hunley, System Director of Infrastructure, Bon Secours Mercy Health, Cincinnati, OH
April Woods, Senior Vice President, Florida Building Systems Director, WSP USA, Orlando, FL

Session Summary:

The pandemic has accentuated the importance of ventilation systems in maintaining safe indoor environments for hospital staff and patients. It forced many healthcare systems to modify their ventilation system temporarily to protect patients and staff from the risk of COVID-19 infection. Ventilation systems that were not designed to handle 100% outside air operation could not be modified to operate in that manner and those that were designed to operate on 100% economizer struggled to maintain temperature in the spaces during the warmer days. Whether this helped in reducing the infection rate or not, it illustrated the real need for hospital systems to develop a ventilation strategy for a possible full airborne pandemic.

This session will present the systematic approach to providing a resilient and pandemic-ready ventilation system for healthcare facilities. It will compare what is anticipated to be required in future code versions and what are current best practices and standards that should be considered for implementation.

Electrical Engineering Track (Panzacola H3/H4)

1:00 - 2:00 PM

11: *CMS Categorical Waiver for Microgrids; Demand Response Opportunities in Florida; Submetering for Savings*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Dan Chisholm, CEO, MGI Consulting, Inc., Orlando, FL
Kevin Hinton, Program Manager Commercial Demand Response, Duke Energy Corporation, Lake Mary, FL

Session Summary:

Whether you save on expenses, or find new dollars, the result is the same - more funds for infrastructure improvements. Upcoming changes to both NFPA 99 and 110 will allow for flexibility whether through AEM or RCM programs. Melding them together while complying with the Final CMS Rule can be challenging. Topics to be discussed will include NFPA 99, 2024 edition – Upcoming EPSS Definition and Testing Changes. NFPA 110, 2025 edition – Upcoming Changes to Testing Requirements, The Final Rule (42 CFR 482.15 (d) and (e) Reporting Requirements, Decommissioning Before Extraction, and Demand Response Dollars.

2:00 - 2:30 PM **Break in FPC Expo** (Sponsored by ChillMaster and WSP) (Sebastian Ballroom)

2:30 - 3:30 PM

12: *Patient Care Electrical Receptacles: Where Code-Minimum Meets Operationalizing*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Krista McDonald Biason, PE, National Electrical Engineering Practice Leader, HGA Architects and Engineers, Minneapolis, MN
Terri Zborowsky, Design Researcher, HGA Architects and Engineers, Minneapolis, MN

Session Summary:

Have you ever tried to navigate the codes and guidelines to achieve the best practice for installation of electrical receptacles in an inpatient space? One would think it would be an easy task, but it's not that simple. Receptacle quantities are based upon the National Fire Protection Association (NFPA) category of the space, type of room, and Facilities Guidelines Institute (FGI) Guidelines. As hospital patients become more ill and lifesaving equipment becomes more the norm, the complexity of building systems for hospitals grows. Telehealth and advances in technology add to the complication. Balancing the clinical needs with the expectation of personal technology provisions is the norm. Understanding how to navigate code and functional requirements of receptacle needs in inpatient spaces is the reason FGI created a Beyond Fundamentals white paper entitled "Electrical Receptacles in Patient Care Areas Where Code Minimum Meets Operationalizing Patient Care." The goal of the document is to bring to light the decision-making process necessary for receptacles located in inpatient areas and to create a conversation regarding the basis of design to operationalize a healthcare facility.

3:30 - 4:30 PM

13: NFPA 72, 2019 Edition - Major changes you need to know and understand

(Approved CEH's: 1 AIA/HSW, 1 FBPE, 1 CILB, Suitable to submit for 1 ASHE)

Speaker:

Dr. Rodger Reising, SET, PMSFPE, Fellow & VP, Industry Relations, Global Fire Detection Products, Johnson Controls, Goode, VA

Session Summary:

With Florida adopting the 2021 edition of NFPA 101, The Life Safety Code, it will pull in the 2019 edition of NFPA 72. This session will cover major changes to the 2019 edition of NFPA 72.

This edition has been modified with the requirements for installation, testing and maintaining Carbon Monoxide detection. NFPA 720, The Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment has been withdrawn and all requirements have been incorporated into NFPA 72, 2019.

Some of the major topics that will be covered are fire alarm control equipment mounting heights, air sampling detection modifications, notification appliance synchronization changes including CO notification requirements and new head-end allowance of a non-UL listed command center known now as a Building System Information Unit, BSIU.

Facility Engineering/Contractors Track (Panzacola F3/F4)

1:00 - 2:00 PM

14: Ten Secrets to Success in Building Automation Systems

(Approved CEH's: Suitable to submit for 1 ASHE)

Speakers:

Brad Pollitt, Vice President Facilities, UF Health, Gainesville, FL

Sanjyot Bhusari, Principal, Affiliated Engineers Inc., Newberry, FL

Bob Hervey, VP Facilities, UF Health Jacksonville, Jacksonville, FL

Michael Neely, Director | Facilities Management, BayCare Health System, Tampa, FL

Session Summary:

Building Automation Systems can be the driver for enhanced patient comfort, improved operational efficiency and reduced energy consumption. Yet, it remains one of the most underutilized investments in Facilities Management.

Three institutions: UF Health Gainesville, UF Health Jacksonville and BayCare Health Systems are changing how Building Automation Systems are procured, integrated and utilized. They each have robust Building Automation System standards covering the broad spectrum of systems integration, data and network nomenclature, hardware and software requirements, owner training, wiring, alarm management, and trending & graphics. Through the defining and development of strong standards that align with operational success criteria, these institutions are leveraging BAS as the premier tool in their arsenal to drive patient comfort, operational excellence and energy efficiency.

2:00 - 2:30 PM **Break in FPC Expo** (Sponsored by ChillMaster and WSP) (Sebastian Ballroom)

2:30 - 3:30 PM

15: *ICRA Standards for Healthcare Applications*

(Approved CEH's: 1 CILB, Suitable to submit for 1 ASHE)

Speakers:

Bob Booth, Vice President, Oncore, Inc., Tampa, FL
 Larry Arndt, Vice President, Barton Malow, Tampa, FL
 Amy Walker, CEO, ICRA Solutions, LLC, Buford, GA
 Frank Foran, Vice President, Edge Guard, Bement, IL

Session Summary:

Convey how to set up ICRA with the proper material and equipment to ensure all particulates maintain within the area of work, as well as understand pressure requirements, filter types, logging, and setting up the project board for the infection prevention managers.

- Identify each level of ICRA
- Discuss each type of ICRA material, i.e; skudo board, gypsum, Edguard
- Discuss pressure requirements, ante room, tack mat
- How to attach dis-similar material to ensure tight tolerances
- Emphasize the importance of infection control in healthcare facilities (provide statistics)

3:30 - 4:30 PM

16: *Those Weren't the Droids We Were Looking For: Lessons Learned from Integrated Systems Testing*

(Approved CEH's: Suitable to submit for 1 ASHE)

Speaker:

Mark Gelfo, Managing Principal, TLC Engineering Solutions, Jacksonville, FL

Session Summary:

Why were there no EPO buttons on the garbage smashers on the Death Star? The Empire did not do Integrated Systems Testing!

This session will be a fun and terrifying look at real-world examples from numerous commissioning projects, with an emphasis on issues found during Integrated Systems Testing. Every picture has a story and a lesson learned, even if it wasn't what we were looking for when we found it.

Simply put, Integrated System Testing (IST) is the testing of all building systems together under multiple building conditions and event possibilities, typically while connected to emergency power, in fire alarm mode, and other life-safety event conditions. Integrated systems testing focuses on the interoperability of ALL building systems, working together in all operating modes and scenarios.

This presentation will review the process of Integrated Systems Testing, associated standards and code requirements such as the Florida Building Code, FGI Guidelines, NFPA 3, NFPA 4, NFPA 99, and NFPA 110. We will use a real project case study of a recently completed patient tower addition to an existing hospital, a high rise Class A office building, and a new community hospital to demonstrate the process, benefits, and what to watch out for on your next project.

Fire Safety Track (Panzacola F1/F2)

1:00 - 2:00 PM

17: *Key Provisions of the NFPA 1 Fire Code*

(Approved CEH's: 1 AIA/HSW, 1 FFC, Suitable to submit for 1 ASHE)

Speakers:

James Peterkin, PE, LEED AP, FASHE, TLC Engineering Solutions, Philadelphia, PA
 Anthony Apfelbeck, CFPS, CBO, Director of Building and Fire Safety, City of Altamonte Springs, Altamonte Springs, FL

Session Summary:

This presentation will focus on the key provisions of the NFPA 1 Fire Code and how those provisions interface with the NFPA 101 Life Safety Code and the Florida Building Code. The NFPA 1 Fire Code and NFPA 101 Life Safety Code are the two core documents that are the basis for the Florida Fire Prevention Code. As part of this presentation, the changes that were incorporated into the 2021 and 2024 editions will be highlighted.

2:00 - 2:30 PM **Break in FPC Expo** (Sponsored by ChillMaster and WSP) (Sebastian Ballroom)

2:30- 3:30 PM

18: *What's In Your Wall? FBC Chapter 7 Fire & Smoke Protection Features*

(Approved CEH's: 1 AIA/HSW, 1 FFC, Suitable to submit for 1 ASHE)

Speakers:

Laura Guinan, AIA, CDT, Assistant Director of Quality, Gresham Smith, Tampa, FL

Christina Wilson, AIA, EDAC, Vice President, Gresham Smith, Tampa, FL

Lilian Boutros, AIA, Project Architect, Gresham Smith, Tampa, FL

Michael Willis, AIA, Project Executive, Gresham Smith, Tampa, FL

Session Summary:

Join four senior Florida based Health Care Architects who will unravel best practices for compliance with the Florida Building Code's Chapter 7 Fire and Smoke Protection Features. Discussion will focus on: construction assemblies of fire and smoke protection walls, components of the fire and smoke protection, application of fire and smoke protection ratings and stenciling identification. Real world examples will be provided in this very engaging and pragmatic presentation.

3:30 - 4:30 PM

19: *Differences Between the IBC and NFPA101 and Guidelines for Proper Firestop Inspections*

(Approved CEH's: 1 FFC, 1 CILB, Suitable to submit for 1 ASHE)

Speaker:

Aaron Miller, CFPS, Vice President Firestop, Wal-Mark Contracting, LLC, Tampa, FL

Session Summary:

The presentation will focus on the similarities and differences between the International Building Code (IBC) and the NFPA 101 (Life Safety Code). Reviewing areas within the two major codes organizations, some of their key requirements will help guide individuals through the IBC and NFPA differences. Then the focus will be on the proper guidelines for firestop inspection based on the IFC inspector guidelines for through penetrations, fire resistive joints, and perimeter fire barrier systems. The goal will be an understanding of the proper techniques for firestop inspections and reviews.

4:30 - 7:00 PM **FPC Expo - Opening Reception** (Sponsored by LEMA Construction, Inc.) (Sebastian Ballroom)

Tuesday, October 3, 2023

6:30 AM - 1:30 PM **Registration - FPC Expo** (Sebastian Registration)

7:00 AM - 4:00 PM **Registration - FPC Seminar** (Panzacola Registration)

7:00 - 8:30 AM **Breakfast in Expo** (Sebastian Ballroom)

8:30 AM - 12:00 Noon

Main Speaker Sessions (Panzacola G-H)

8:30 - 9:30 AM

20: *Unveiling Guidelines for Children's Hospital Design to Build Brighter Futures*

(Approved CEH's: 1 AIA/HSW, Suitable to submit for 1 ASHE)

Speaker:

Judy Smith, Principal, Smith Hager Bajo, Inc., Scottsdale, AZ

Session Summary:

Evidence supports the benefits of tailoring hospital environments to the unique needs of children, even though there are some common elements of design that apply to all hospitals. The FGI Guidelines developed the first children's hospital chapter in 2014 in recognition that children have health needs that are incredibly different from adults' needs. This session will provide highlights of the FGI Guidelines 2018 edition and 2022 FGI Guidelines changes to the original minimum requirements for children's hospitals, the rationale behind them, and selected examples of facilities that reflect pediatric trends.

9:30 - 10:00 AM **Break in Expo** (Sponsored by Robins & Morton and Amico Corporation) (Sebastian Ballroom)

10:00 - 11:00 AM

21: *Overview of the 2021 Edition of NFPA 99, Health Care Facilities Code*

(Approved CEH's: 1 AIA/HSW, 1 FBPE, 1 CILB, 1 FFC, Suitable to submit for 1 ASHE)

Speaker:

Brian O'Connor, PE, Technical Services Engineer, NFPA, Quincy, MA

Session Summary:

The 2021 edition of NFPA 99, Health Care Facilities Code, includes many changes to medical gas and vacuum systems, electrical systems, medical equipment, and each of the variety of topics addressed by the code. This edition will be adopted and enforced at the end of 2023 in Florida. Some changes impact design and construction while others provide updated requirements for operations and maintenance that contribute to a safe environment for patients, staff, and visitors in health care facilities. This session will cover and review the significant changes from the 2018 edition to the 2021 edition.

11:00 AM - 12:00 Noon

22: *Regulating Good Design: Research Matters*

(Approved CEH's: 1 AIA/HSW, Suitable to submit for 1 ASHE)

Introduction: Bill Hercules, FAIA, FACHA, FACHE, President / CEO WJH Health

Speaker:

Ellen Taylor, PhD, AIA, MBA, EDAC, Vice President for Research, Center for Health Design, New York City, NY

Session Summary:

Many times, we aspire for codes to be evidence-based, but how do we know what the best available evidence is? Using an analysis of entries in The Center for Health Design's (free) Knowledge Repository (an online database of healthcare-related built environment research), this session will identify some of the research trends and findings from the past 5-10 years. Using these trends, the speaker will review the evolution of several research topics, summarizing some of the implications about what we do and don't know about the relationship between design and outcomes. Attendees will learn more about the opportunities and limitations of using research in developing both codes and good design.

12:00 - 1:00 PM **Lunch** (Sponsored by BSSW Architects, Inc) (Gatlin C)

1:00 - 1:30 PM **Dessert in Expo** (Sebastian Ballroom)

Expo closes at 1:30 PM

1:30 - 3:30 PM

Breakaway Sessions

Architecture/Engineering/Contractors Advanced Building Code Track (Panzacola G1/H1/H2)

1:30 - 3:30 PM

23 and 24: *Advanced Course 8th Edition of the Florida Building Code*

Approved CEH's: 2 AIA/HSW, 2 FBPE, 2 CILB, Suitable to submit for 2 ASHE)

Speakers:

Skip Gregory, AIA, NCARB, Health Facility Consulting, LLC, Tallahassee, FL

James Peterkin, PE, LEED AP, FASHE, TLC Engineering Solutions, Philadelphia, PA

Session Summary:

This 2 hour advanced course, approved and required by the Florida Building Commission, provides important information regarding the FBC, the Florida laws and codes, and the origins of the Florida Building Code. It also provides detailed information and commentary of intent regarding Chapter 4, Special Occupancies that contains the specific requirements for health care facilities. It concentrates on the new code requirements that directly impact the design and construction of health care facilities and provides detailed code required information regarding Sections 449 (Hospitals), 450 (Nursing Homes), 451 (Ambulatory Surgical Centers), and 469 (Office Surgery Suites). It also provides information regarding the important revisions made to the Florida Mechanical Code that directly impact the design and construction of Health Care Facilities.

Combined Mechanical/Electrical Engineering Track (Panzacola G2/H3/H4)

1:30 - 2:30 PM

25: *Improving Operating Rooms' Visual Comfort for Surgeons and Nurses*

(Approved CEH's: 1 FBPE, Suitable to submit for 1 ASHE)

Speakers:

Alexandra Andrei, RA, EDAC, Associate Principal, BIM Manager, Array Architects, Boca Raton, FL
 Michael Steward, PE, CxA, LEED AP, TLC Engineering Solutions, Orlando, FL

Session Summary:

Lighting technology and approaches are shifting to a new paradigm by focusing not only on vision but also on human psychophysical wellbeing in interior spaces. Whether it's artificial or natural lighting integrated into the overall illumination scheme, the infection control aspect is considered when reviewing viable strategies to address visual field satisfaction in the operating theater. This presentation focuses on several design strategies to address the deliberate integration of natural lighting into the operating room's lighting scheme and how this can be customized to meet the needs of both surgeons and nursing staff.

2:30 - 3:30 PM

26: *Evolving Code and Regulatory Challenges with the Emergence of Logistics Automation Using Robotics and AI*

(Approved CEH's: (1FBPE, Suitable to submit for 1 ASHE)

Speakers:

Douglas King, Vice President – National Healthcare Sector Leader, Project Managers Advisors, Inc., Chicago, IL
 Sandesh Jagdev, Founding Principal, Logimaxx, Atlanta, GA

Session Summary:

Use of logistics automation inside healthcare facilities poses regulatory challenges due to ever evolving technological advances. Improving patient and staff safety along with enhancing operational efficiencies are compelling owners to consider use of logistics automation earlier in planning processes. Why is this? It is due to simultaneous and powerful disruptors such as energy crisis, geopolitical issues, labor challenges, pandemics, and natural disasters. Owners and planning teams are looking for innovative ways to improve patient and staff safety while reducing costs by improving operational efficiencies.

The key intent of this session is to discuss the myriad of regulatory challenges inherent in considering Logistics Automation using Robotics and AI. With over 200 Vendors offering various technologies to transfer materials inside facilities, logistics automation is becoming an increasingly common consideration for healthcare facilities. With rapid emergence of technologies (Examples: Automated/Autonomous Guided Vehicles, Automated Waste Removal systems, and Pneumatic tube systems), the need for regulatory guidelines and their interpretation during planning is particularly important. Recent editions of NFPA 101 Life Safety Code have had many revisions in the chapters regarding use of automated waste removal systems and we will be addressing that content.

Facility Engineering/Contractors Track (Panzacola F3/F4)

1:30 - 2:30 PM

27: *Roadmap to Health Care Codes and Standards*

(Approved CEH's: Suitable to submit for 1 ASHE)

Speaker:

Jonathan Flannery, CHFM, MHSA, FASHE, FACHE, Senior Associate Director of Advocacy, American Society for Healthcare Engineering, Chicago, IL

Session Summary:

The regulatory environment in hospitals is a tangled web of codes and standards enforced by multiple authorities having jurisdiction (AHJs). Future codes and standards must be streamlined and work together without conflict to ensure good stewardship of hospital resources. Cruise the ASHE Advocacy Highway to learn about ASHE codes and standards initiatives, major changes coming down the pike and how you can get involved. The code development process, federal reimbursement systems, and pending changes in regulations will be addressed.

2:30 - 3:30 PM

28 (and 30): *Preparing for Your Deemed Status Survey*

(Approved CEH's: 1 FFC, Suitable to submit for 1 ASHE)

Speaker:

Clinton Butts, CFPS, CHOP, Standards Application and Interpretation Specialist, DNV Healthcare US, Salt Lake City, UT

Session Summary:

Construction projects in hospitals present many challenges, and having to comply with the requirements of your accreditation organization adds an additional layer of oversight. This session will help to provide attendees with a better understanding of what accreditation organizations (AOs) are looking for regarding construction projects, from preconstruction requirements to closeout documents. Requirements and recommendations from the National Fire Protection Association's NFPA 101, Life Safety Code; NFPA 99, Health Care Facilities Code; FGI Guidelines for Design and Construction of Hospitals; and the CDC will be reviewed along with documentation requirements/recommendations. Some of the more common instances of nonconformance along with causes will be explored. Attendees of this session will be better prepared to provide a safe environment of their patients, staff and visitors, both through practice and documentation of continuous readiness.

Fire Safety Track (Panzacola F1/F2)

1:30 - 2:30 PM

29: *Inspection, Testing, and Maintenance of Fire Alarm Systems*

(Approved CEH's: 1 FFC, Suitable to submit for 1 ASHE)

Speaker:

Mike Crowley, Operations Manager, Texas Principal Advisor, Fire Protection Engineering, Coffman Engineers, Inc., Houston, TX

Session Summary:

Review of the Inspection Testing and Maintenance (ITM) requirements for new and existing fire detection and alarm systems. We will discuss what NFPA 72 requires and what inspectors look for. Testing frequencies and items to spot in the reports will be highlighted. Owners' and operators' minimum knowledge needed to administer an ITM program. New emphasis on private mode fire alarm in health care and the new sections in NFPA 101 that supports private mode of NFPA 72.

2:30 - 3:30 PM

30: (See Session 28 Facility Engineering/Contractors' Track)

Contact Hours Approved or Submitted:

Architects: Up to 12 AIA/HSW Contact Hours (Approved or submitted)

Professional Engineers: Up to 10 FBPE Contact Hours (Approved)

Fire Safety Inspectors: Up to 8 FFC Contact Hours (Submitted)

Contractors: Up to 6 CILB Contact Hours (Submitted)

Facility Engineers: Up to 12 ASHE Contact Hours Suitable for submission by attendee

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