

APRIL 11-12, 2024

AIA
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Education
Provider

HEALTH FACILITIES PLANNING SEMINAR

GRAND TRAVERSE RESORT

100 Grand Traverse Village Blvd

Acme, MI 49610



AIA Michigan

FIFTY SIXTH ANNUAL **HEALTH FACILITIES PLANNING SEMINAR**

PURPOSE

The Health Facilities Planning Seminar is held each year to provide architects, engineers, healthcare executives and other interested professionals with the latest available information which will assist them in planning, designing, constructing and maintaining health facilities.

WHO SHOULD ATTEND

The seminar is ideal for all who are concerned with the implications of evolving healthcare technology upon facilities as they plan, design, construct, administer or maintain.

REGISTRATION

The registration fee is \$399 for early registration. THE FEE IS \$475 IF PAYMENT IS RECEIVED AFTER March 8, 2024. No registration fee refunds after that date. A \$25.00 handling fee will be applied for all refunds.

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HEALTH FACILITIES PLANNING SEMINAR

THURSDAY, APRIL 11

MORNING SESSION

Moderator:

8:15a **Welcome - Todd Drouillard, AIA & Larry Horvath, BCHS, LARA**

8:30a **Misunderstanding ASHRAE 170**

Bill Middleton

Learn about a Healthcare Infection Control Compliance services provider sharing real life, success stories that have been incorporated in the evolution of developing a proactive, continuous and documented "Containment, Contamination and Calibration Compliance" strategy. A strategy that has the FGI Guidelines for design and construction of Hospitals and Outpatient Facilities/ASHRAE 170 Ventilation of Health Care Facilities at its foundation. The interpretation of these fundamental, engineering practices are key to providing improved quality patient care & HCW safety, increased revenues, improved marketplace perception and job satisfaction/security thru increased infection prevention environmental measures and processes.

9:30a **Current Challenges, Future Projections, and Directions of Healthcare in Michigan**

Brian E. Peters, MHSA, FNCHL

Discover the overall trends affecting Michigan healthcare, including demographics, marketplace dynamics, technology, politics and public policy. Will drill down to the specific issues related to healthcare workforce, behavioral health, health equity, and financial viability.

10:30a **BREAK**

10:45a **Trauma-Informed Design + Research + Case Study**

Rev. Laura Rossbert

Trauma-informed design (TID) is the creation of physical spaces that intentionally promote a sense of security, dignity, and connection while actively avoiding elements of retraumatization and harm. A key aspect of TID involves deeply listening to end users to build understanding and empathy toward more informed design decision-making. In this session, we will deliver an overview of trauma-informed design (including trauma's impact on our brains and bodies, core principles of trauma-informed design, and the 4 phases of conducting a TID process) as well as a detailed case study of the development and design of a community-wide respite shelter and navigation center.

11:45a

LUNCH

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THURSDAY, APRIL 11

AFTERNOON SESSION

Moderator:

12:45p

Door Hardware and Locking Considerations (for Behavioral Health Facilities, Memory Care, Emergency Department)

P.J. Scott, AHC, CDC, CSI, CDT & Kyle J. Lehman, P.E.

Behavioral health facilities present a unique challenge as conflicting security and life safety requirements must be balanced and resolved. This presentation, developed with input from Michigan Bureau of Fire Services personnel, will discuss common locking requirements, door hardware approaches, and life safety considerations for both new behavioral health facilities and for conversion of existing health care facilities to support behavioral health care.

1:45p

FGI 2022, NFPA 101 and 99

Leah Hummel, AIA ASHE

Receive an introduction into the codes and standards utilized for design and construction of health care facilities, and learn about some of the latest changes and proposed changes to these codes and standards. We will discuss major changes to the Life Safety Code (NFPA 101) and the Health Care Facilities Code (NFPA 99) between the 2012 and 2024 editions, changes that would affect the healthcare design and construction industry if the 2024 editions are adopted by the Centers for Medicare and Medicaid Services (CMS). You will learn about how the FGI Guidelines for Design & Construction apply to healthcare.

2:45p

BREAK

3:00p

Innovation Meets Inevitability: Logistics Automation using Robotics and AI in Healthcare Facilities Planning

Douglas King, AIA, NCARB, ACHA & Sandesh Jagdev, M. Eng. CTM

Owners and planners are seeking innovative ways to transform service delivery to address worldwide challenges such as declining birth rates, geopolitical issues, employee safety, and natural disasters. We will specifically address the five Ds (Dirty, Dull, Dangerous, Difficult and Dear) as key qualifiers to consider logistics automation. In this session, we will discuss a variety of decision factors such as feasibility, practicality, safety considerations, space requirements, & engineering considerations for various automation alternatives within different operating environments. This seminar will go over the overall evaluation process including information gathering, user input, cultural and operational factors. Part of our case studies will involve presentation of empirical data driving the decision process.

4:00p

SOCIAL HOUR

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FRIDAY, APRIL 12

MORNING SESSION

Moderator:

7:30a

Breakfast

8:30a

Building Wellness | Enclosure Design Insight from Forensic Assessment

Eric A. Murrell RA CCS BECP CXA+BE & Thomas L. Bane, PE

Forensic engineering and architecture establish the foundational groundwork necessary for effective problem-solving. The field is home to a unique brand of professionals who dedicate their time and talent to problem-seeking. During this session Murrell and Bane will explore the forensic assessment process and its real-world applications in healthcare facilities. Through case studies, they break down the intricacies inherent in forensic assessment projects and unravel the relationship of cause and effect. The presentation will conclude with an analysis of frequently encountered issues, and providing invaluable insights tailored to project teams engaged in healthcare enclosure design.

9:30a

Transformation through Partnership – A Major Development and its Community and Economic Impact

Jerry V. Darby, MBA

Henry Ford Hospital is in the middle of a +/- \$3 billion transformation of its ~100 year old west grand boulevard legacy campus and the surrounding community. This transformation was planned with and has been influenced by numerous relationships. This presentation will provide insights into how each of these partnerships is adding value to the project, the surrounding community and how the hospital, research and health care community has become an economic driver for the city of Detroit, Southeastern Michigan, and the State of Michigan. Furthermore, you will gain understanding of the planning efforts, timeframes and decision process required to make this healthcare transformation happen.

10:30a

BREAK

10:45a

Increasing capacity for complex and high-acuity care

Karen Amman, RN, BSN, MHA, Bob Harris, P.E. & Corrie Pennington-Block, PMP

The D. Dan and Betty Kahn Healthcare Pavilion is planned to open in November 2025. The \$920M new hospital will add 264 private inpatient beds, 20 Operating rooms, 3 Interventional Radiology Rooms, and incremental diagnostic capacity to the medical campus at University of Michigan Health. This presentation will cover the drivers that led to the decision to build a new facility, provide an overview of the Lean Led facility design principles used leading to a LEED Platinum design, and share how patients and families participated in the entire process. It will also discuss specific features of the facility, the impact of COVID on the timeline and design, environmental sustainability goals, and lessons learned.

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AFTERNOON SESSION

Moderator:

11:45a

Bureau of Fire Services (BFS) Code Updates

Joe Forro & Rick Day

Bureau of Fire Services Updates, Special Door Locking Approvals, Construction Projects, Proper Construction Separations and Exiting in Occupied Buildings.

12:15p

WORKING LUNCH/BREAK

12:45p

BCC & BCHS Updates and Code Changes

Pier-George Zaroni, PE CIH & Larry Horvath

Learn about revised rules for Psychiatric Hospitals and important progress including how the public can participate in the rule revision process. Also discussed is the adoption of the International Codes by the Bureau of Construction Codes.

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Bill Middleton

As Director of Client Relations, Business Development & Marketing, Middleton is been a part of the CEPro Inc. team whose business offering serves Healthcare, Laboratory and Cleanroom critical environments compliance to ensure safety, productivity and clients mission/vision. Trusted advisor in Healthcare, Laboratory and Cleanroom critical environments business strategy. Recognized, account management & business development executive who has participated in, designed and led multiple high performing sales organizations. Track record of establishing a portfolio of Healthcare, Laboratory and Cleanroom critical environments solutions that have been a catalyst for increased sales and organizational success with international, national and smaller entrepreneurial companies. Strong knowledge and experience penetrating national and strategic accounts providing comprehensive critical environments consulting design and build solutions.



Brian E. Peters, MHSA, FNCHL

Brian is CEO at the Michigan Health & Hospital Association (MHA), one of the nation's largest state hospital associations. In 2021, the MHA was recognized as one of Modern Healthcare's Best Places to Work in Healthcare. Brian has served as the Executive Vice President, and the Senior Vice President of Advocacy. In these roles, he was responsible for state and federal government relations on behalf of nearly 150 Michigan community hospitals, and served as the Treasurer of HealthPAC, the association's political action committee (PAC) which ranks among the largest independent PACs in Michigan. He is a frequent spokesperson on behalf of Michigan hospitals with the print and electronic media, and has testified on hospital priorities before Congress and the state legislature. He holds a Master's Degree in Health Services Administration from the University of Michigan; a Bachelor's Degree in Business Administration from Michigan State University; completed an executive fellowship with the National Center for Healthcare Leadership; completed the Health Executive's Development Program at Cornell University; and studied the British health care system with the King's Fund College in London. Brian is a United States Coast Guard-licensed Captain.



Rev. Laura Rossbert

Laura joined Shopworks Architecture in 2019 as the COO/Supportive Housing Specialist. Laura brings to Shopworks her experiences as a non-profit leader and community organizer/community engagement specialist. She is using her expertise and knowledge in best practices in homelessness and supportive housing to inform building design at Shopworks and find solutions to barriers to affordable housing, with special attention to trauma, resiliency, and equity. Prior to her time at Shopworks, she served as Deputy Director/Interim Executive Director of The Delores Project where she co-led the development of Arroyo Village in Denver, creating a new shelter for unhoused women and transgender individuals, 35 units of supportive housing, and 95 units of workforce housing using a trauma-informed lens. In that role, she also led racial equity work, trans-inclusion work, and implemented trauma-informed care in the shelter.

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P.J. Scott, AHC, CDC, CSI, CDT

P.J. Scott AHC, CDC, CSI, CDT, is an Associate Construction Specifier with SmithGroup. PJ has 32 years of experience across a variety of roles in the construction field including field work, installation, construction management, supply and distribution, and manufacturing representation. Before joining SmithGroup, he spent 16 years as a specification writer and consultant focusing primarily on door hardware for health care facilities including Corewell (previously Spectrum) Health, Mt. Sinai (NYC) Behavioral Health, Northern Virginia and Western State Behavioral Health Hospitals, Inova, Medstar Health, Children's National Medical Center, and Johns Hopkins Health, along with a variety of specialty outpatient facilities.



Kyle J. Lehman, P.E.

Kyle Lehman, P.E., is a Principal with SmithGroup, where he supports the firm's Health Care Practice and helps lead the fire protection and life safety engineering team. He gained a passion for fire protection as a volunteer firefighter, which led to his degree and licensure in fire protection engineering. Kyle's experience includes fire safety evaluations and systems design for inpatient and outpatient health facilities at Bethesda National Military Medical Center, Advocate Illinois Masonic Medical Center, and multiple facilities in the Ascension Health, Trinity Health, Medstar Health, Banner Health, and McLaren Health Care systems, amongst others.



Leah Hummel, AIA ASHE

Leah S. J. Hummel, AIA, SASHE, CHFM, CHC, is Senior Associate Director – Advocacy for the American Society for Healthcare Engineering of the American Hospital Association. Leah represents ASHE members through advocacy efforts including committee participation with several codes and standards affecting the healthcare physical environment, coordination with Center for Medicare and Medicaid Services, accrediting organizations, and other authorities having jurisdiction. Leah also educates and writes on topics like the design and regulation of the healthcare environment, life safety, and emergency management in healthcare facilities. Leah serves on NFPA 99 Fundamentals of Healthcare Facilities Committee; NFPA 99 and 99B Hyperbaric and Hypobaric Facilities Committee; and NFPA 101A Alternative Approaches to Life Safety Committee. She serves on ASHRAE 189.3 Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities Committee, Facility Guidelines Institute Steering Committee, and the FGI Healthcare Guidelines Revision Committee. She is a member of the AIA Academy of Architecture for Health Codes and Standards Committee and is a Center for Health Design Knowledge Repository Partner.

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Douglas King, AIA, NCARB, ACHA

Doug has over 40 years of strategic advisory and planning related experience in the healthcare sector. His project portfolio ranges from large scale comprehensive medical centers, to replacement hospitals, to smaller scale community hospitals. His three areas of expertise are High Rise Healthcare Design; Resilient/Emergency Response in Healthcare; and Population Health Management/Community Health. Doug has been recognized as an influencer in the US healthcare facilities arena by such groups as Globe St and Healthcare Design Magazine and regularly speaks at conferences and universities across the US. He was selected as the top Healthcare Architect in the US [HCD 10 awardee] in 2020-21 by the US based Healthcare Design Magazine. Doug is a member of the 2021 Urban Land Institute (ULI) Health Leaders Network, an international elected body of healthcare experts. He has several US academic appointments include the University of Illinois Champaign/Urbana and at Kansas University's Health and Wellness Graduate Program and has conducted IRB approved funded healthcare research through the Stantec "Greenlight" Grant program.



Sandesh Jagdev, M. Eng. CTM

Jagdev is a Founding Principal at Logimaxx an automation, logistics and supply chain consulting firm. He has over 32 years of experience in supply-chain and logistics management in multiple industries. He is one of the leading practitioners in the logistics automation arena. He has spoken at multiple conferences and national webinars on the topic of logistics automation. He has diverse experience in industries such as Healthcare, Beverage, Chemicals, Defense, Manufacturing, Service, Hospitality, Distribution, and many more. Jagdev started his career in logistics planning by participating in modeling and software development of decision support System for Florida Emergency Hurricane Evacuation Planning Commission as a graduate assistant at University of Florida. Jagdev played a lead role in the design, development, and implementation of COLA II for The Coca Cola Company on Behalf of CAPS Logistics. Jagdev has a Master of Engineering, Industrial and Systems Engineering from the University of Florida and a Bachelor of Engineering, Production Engineering at College of Engineering, Kolhapur, India.



Eric A. Murrell CCS BECP CxA+BE

Eric is a licensed architect in Michigan with 38 years of experience. He holds a Master of Architecture degree from the University of Michigan and a Bachelor of Science in Architecture from Lawrence Technological University. Eric currently serves as the Treasurer and is a founding Member of the Building Enclosure Council of Greater Detroit. Eric began his career with a small civil engineering firm that did anything and everything. This was where he got his first taste of the forensic side of construction. He spent the next 20 years as a technical architect specializing in healthcare architecture. In 2014, Eric joined SME as an Enclosure Senior Consultant. He is Vice President, Principal Consultant and Group Leader for the SME Building Materials Group. When he's not puzzling over sales, revenue, and utilization reports, Eric specializes in enclosure consulting for high-durability healthcare, higher education and other institutional construction projects emphasizing long term solutions, attention to detail, and independent design review.

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Thomas L. Bane, PE

Based in SME's Indianapolis office, Tom is a Senior Project Engineer in the Building Materials Group. He is a graduate of the University of Virginia where he received a dual degree in civil engineering and physics, and he's a licensed professional engineer in California and Indiana, where he lives with his wife and three cute, but mischievous, kids.

For the past 18 years, he has helped design, investigate, and rehabilitate the exteriors of buildings; preventing air and water leaks. His clients call Tom their "secret weapon," and their "go-to-guy for all things building enclosure related." His focus has been on building enclosure commissioning (BECx), which helps Owners, Contractors, and Architects design and build buildings right the first time.



Jerry V. Darby, MBA

Jerry V. Darby, MBA, serves as the Vice President, Campus Planning, Development and Design for Henry Ford Hospital (HFH). He leads the system level planning and facility department for HFH System as well as all planning and implementation of the HFH Campus development plan; including the redevelopment of Henry Ford Hospital, academic campus development for the Henry Ford Health + Michigan State University Health Sciences partnership, and other projects associated with partnerships on the HFH campus. With over 30 years of experience as a management consulting leader in the health care industry, Jerry has planned, developed, and activated more than 30 million square feet of space during his career and has worked with nearly all the top 20 US News & World Report Best Hospitals.

Jerry is a graduate of the Global Senior Management Program through a joint program with the University of Chicago Booth School of Business and IE Business School in Madrid, Spain. He also has a Master of Business Administration in Finance from the University of Iowa and a Bachelor of Arts in Pharmacy from Ferris State University.



Karen Amman, RN, BSN, MHA

Karen is the Operations Project Director for the D. Dan and Betty Kahn Health Care Pavilion. In this role, Karen serves as the operational lead to plan, design, direct, organize, activate, and prepare the move for all hospital operations conducted in the new facility. A nurse by background, Karen has worked in healthcare for 36 years. In addition to providing patient care for nearly 17 years, Karen was also the director for a highly successful Epic implementation at University of Michigan Health and has experience in many different areas of healthcare.

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Bob Harris, P.E.

Bob is the Executive Director of Facilities for UM Health. In this role, Bob is responsible for many aspects of facilities including planning, design, construction, operations, maintenance, sustainability, clinical engineering, and regulatory compliance for Environment of Care among other things. A mechanical engineer by background, Bob has been a registered Professional Engineer for over 30 years and has worked in healthcare for 31 of his 40+ years of experience. In his free time, Bob enjoys spending time on his farm with his wife, 5 children and 4 grandchildren.



Corrie Pennington-Block, PMP

Corrie is currently a Project Management Lead for the Pavilion Planning Team, responsible for lean facility design and workflow. She has a degree in Industrial Operation & Engineering from the University of Michigan, Ann Arbor and she has a certification as a Project Management Professional. Corrie has spent 11 years at Michigan Medicine as a Lean Coach and Project Manager in hospital operations and facility planning. Prior to her work at Michigan Medicine, Corrie spent 7 years at General Motors and 10 years at Chrysler working in Quality Improvement, Industrial Engineering, and Logistics. Her career has been focused on improving value for both customers and patients.



Joseph Forro

Joe Forro has an extensive history in fire protection, including firefighting, fire prevention and communications and operations management. Forro joined the United States Air Force to serve in AF Fire Protection. After Basic training and Fire School at Chanute AFB in Rantoul Illinois he was stationed at McGuire AFB NJ where my fire department career received its roots. He then worked as a contingency firefighting instructor, This training provided state-side firefighters the tools to be able to operate affectively in a war time environment. Following the Air Force, Joe served as the Fire Chief for the Milwaukee International Airport. After settling down in Mid-Michigan with his wife and four kids, Joe began working for the Bureau of Fire Services as the State Administrative Manager where he has been busy identifying efficiencies and expounding on them to create a better experience for our customers, both internal and external.

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Rick Day

Rick Day is the Bureau of Fire Services Region 3 State Fire Marshal Supervisor. Rick has been a State Fire Marshal Inspector with the Bureau of Fire Services for over 22 years. He is a NFPA Certified Fire Inspector, NFPA Certified Plan Examiner and a Registered State of Michigan Plan Reviewer of Fire Protection Systems. Rick is a Principal Voting member of 16 NFPA Technical Committees. He has decades of experience inspecting hospitals, surgery centers, hospices, schools, colleges and many other state regulated facilities. He also has extensive experience completing over 500 CMS (Centers for Medicare and Medicaid Services) Deemed Status Surveys of Hospitals, Surgery Centers, and Nursing Homes.



Pier-George Zanoni, PE, CIH

Pier-George Zanoni, PE, CIH has been a plan reviewer/ surveyor for the Health Facilities Engineering Section for the past 20 years. He is a registered engineer and Certified Industrial Hygienist. Pier-George received his Bachelor of Science in Engineering from Michigan State University in 1978. Pier-George Zanoni also worked for the Michigan Health and Hospital Association for over twenty years, with ten of those years managing their Occupational Health & Environmental Safety department. In this capacity, Pier-George provided training & consultation on numerous health, safety, and environmental issues as well as health care codes & standards compliance.



Larry Horvath

Larry Horvath currently serves as the director of the Bureau of Community and Health Systems (BCHS) within the Michigan Department of Licensing and Regulatory Affairs (LARA). The bureau has regulatory oversight for state licensing of facilities, agencies and programs in Michigan including nursing homes, hospitals, surgery centers, hospices, and substance use disorder programs as well as nurse and medication aide and qualified interpreter programs. Mr. Horvath is a graduate of the University of Michigan and has 30 years of governmental experience including 25 years with the State of Michigan and 10 years with a local public health department.