



53rd Annual Health Facilities Planning Seminar

LARA and AIA Michigan

Thursday, April 22 – Friday, April 23, 2021

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 \$250 for early registration. THE FEE IS \$325 IF PAYMENT IS RECEIVED AFTER March 19, 2021. No registration fee refunds after that date. A \$25.00 handling fee will be applied for all refunds.



53rd Health Facilities Planning Seminar

Virtual • April 22-23, 2021

Thursday, April 22, 2021

MORNING SESSION

Moderator: Dave Imesch, Seminar Committee Member

8:15 Welcome – AIA / HFES

8:30 The Emergency Critical Care Center: A Lean Design Journey - 1 HSW

Dr. Benjamin Bassin, MD & Dr. Cemal Sozener, MD

- Defining pinch points in emergency critical care delivery
- Creating a Right Care, Right Place, Right Time model
- The lean facility design approach to solving the problem
- Problems solved and post-occupancy analysis

9:30 Capital Renewal Program – How good is my infrastructure? - 1 HSW

Jonathon Flannery, MHSA & Spencer Moore

- Understand the risk of deferred maintenance
- Establish the importance of a capital renewal program and its ability to provide patient care
- Establish the key elements needed to establish a capital renewal program.
- Understand the system needed to implement these key elements

10:30 Break

10:45 Joint Commission/CMS - 1 HSW

Sylvia Garcia-Houchins, RN, MBA, CIC

- Describe the approach for ensuring compliance with Joint Commission Infection Control Standards
- Review ICRA and the design professional vs IC risk mitigation during construction
- Identify opportunities for incorporating infection prevention into the design process
- Provide examples of situations that increase risk of infection and could lead to survey findings and adverse accreditation decisions

11:45 Chat Room

12:15 Lunch Break

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AFTERNOON SESSION

Moderator: Laura Remus, Seminar Committee Member

12:45 Designed to perform: How simulation can inform the design of elite clinical spaces - 1 LU

Dr. Andrew Petrosoniak, Dr. Christopher Hicks

- Simulation-informed clinical design (SICD) can improve team and patient outcomes.
- SICD can be incorporated within the design/build process while providing opportunities to streamline construction timelines
- Describe the return on investment that simulation offers for a project by clarifying critical design decisions.
- Practical examples of how SICD has influenced user experience & patient outcomes.

1:45 Emergency Field Hospital Construction and Lessons Learned

Stephanie Corona, Karrie Kratz

- Overview of a field hospital
- First steps of setting up a field hospital
- Collaboration required for success
- Thinking outside of the box – lessons learned

2:45 Break

3:00 Re-thinking the Clinic: Optimizing the Outpatient Environment - 1 LU

Patty Modrowski, RN & Camilla Moretti, AIA, ACHA, LSSGB, LEED AP BD+C

- Map clinical workflows of physicians and medical assistants for primary care and specialty care clinics
- Physical environment impacts productivity and patient output in outpatient clinics
- Identify design elements that reduce walking distances and the discrepancy of those distances between clinical teams
- Explore the strategies for reducing real estate costs by consolidating and standardizing clinical modules

4:00 Senior Housing - Today and Tomorrow - 1 HSW

James Pappas, AIA

- What are the senior housing options?
- Design strategies for the senior housing industry.
- Licensure requirements for various senior communities.
- The future direction in senior living.

5:00 Social Gathering



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MORNING SESSION

Moderator: Cindy Pozolo, FAIA, Seminar Committee Member

8:30 Collaborative Design Outcomes: Native American Healthcare - 1 HSW

Sheila Cahnman, FAIA, FACHA, LEED AP, Steve Vandebussche, AIA, LEED AP & Scott Winchester, AIA

- Understand the historical context of Native American health services and how to deliver design services through both tribal health and the Indian Health Service.
- Review case studies of three different scale Native American projects including best practices in delivery, design, and incorporation of Native culture.
- Appreciate how aspects of Native medicinal practices affect building design.
- Learn successful collaboration techniques for driving design consensus among large diverse, underserved constituent groups.

9:30 Behavioral Health Design – Planning for Safety - 1 HSW

Julie Szyska, Steven Reutter & David Bean

- Understand the major factors behavioral healthcare owners/providers consider when determining the type of care to provide for a community.
- Become familiar with various design strategies, including reducing ligature risks, that are considered when developing a new behavioral health facility.
- Develop an appreciation for collaboration methods that owners, designers, and operators use to design and deliver appropriate healthcare environments.
- Identify staff and patient safety measures in behavioral healthcare design including long term considerations of operating and maintaining a behavioral healthcare facility.

10:30 Break

10:45 FGI Guidelines - 1 HSW

James D. Scott, PE

- Understand how FGI – Facility Guidelines Institute will apply to existing healthcare facilities and new construction/renovation projects.
- Learn some differences between FGI and the 2007 Minimum Design Standards.
- Discover the Part 9 Environment of Care requirements in the new Michigan Health Facility Licensing Rules which supplement the FGI requirements.
- Understand the difference between the minimum requirements in FGI and the "Beyond Fundamentals" documents.

11:45 Break



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AFTERNOON SESSION

Moderator: Pier-George Zaroni, PE, LARA

12:00 Code Updates Bureau of Fire Services & Bureau of Community and Health Systems - 2 HSW

Larry Horvath & Kevin Schlmeyer

- Administrative and process changes within the Department, Bureau, and Health Facilities Engineering Section.
- State licensing & federal certification updates including implementation of new healthcare facility licensing rules
- Health care facility construction plan review updates

Adam Krouse

- Common issues identified in Bureau of Fire Services plan review
- Code discussion from the Bureau of Fire Services
- Tips for successful Accela plan review submissions



Speaker Biographies

Benjamin Bassin MD is an Assistant Professor of Emergency Medicine at the University of Michigan Medical School. He received his B.S. and M.D. degrees from the University of Michigan and completed residency training in Emergency Medicine at the University of Cincinnati, where he served as chief resident. Based on his unique training and experience in emergency department operations, critical care delivery and evidence-based design, he understands the complex interaction between unscheduled patient arrival, managing critical illness, optimal design to facilitate effective care and throughput limitations. He has been recognized as a national expert in emergency critical care delivery design and has been invited to consult and lecture around the world as well as serve on many national and international task forces.

Cemal Sozener MD Associate Professor of Emergency Medicine at the University of Michigan Medical School. Following obtaining fellowship training, he practices clinically in the Emergency Department and Critical Care Center and is an active member of the institutional stroke team. He serves as the co-director of the Comprehensive Stroke Program. Dr. Sozener has extensive background and interest in department and hospital operations as well as lean-inspired design and the intersection of healthcare engineering, operations, technology and patient safety. He is involved in a number of institutional projects in this regard, and is an active educator in the lean educational series. He received his B.S, M.Eng and M.D. degrees all from the University of Michigan. He completed his residency training in Emergency Medicine at the University of Michigan, where he also served as chief resident.

Jonathan Flannery, MHSA, FASHE, FACHE, Senior Associate Director of Advocacy, ASHE, manages advocacy relations to federal agencies, code development organizations, and national professional associations that affect healthcare facility design, construction, and operation. Jonathan provides testimony, engages in deliberation, and develops public comments on proposed regulations to the benefit of ASHE and AHA members. Jonathan has 30 years of health care experience and has served previously as the Executive Director of Engineering and Operations at University of Arkansas for Medical Sciences and Acting Administrative Officer at Gallup Indian Medical Center. Jonathan also serves as ASHE faculty teaching national programs on healthcare construction, managing life safety, fundamentals of healthcare engineering and has presented at national conferences in relation to the environment of care.

Spencer Moore has been part of the Architecture, Engineering and Construction industry in Texas for more than 20 years. He is currently Vice President of Operations and Facilities Management and Chief Facilities Officer at The University of Texas MD Anderson Cancer Center. Moore oversees more than 16 million square feet of hospital, outpatient clinic, laboratory, office, conference, and administrative space and services to support nearly 20,000 employees. The Facilities Management Division is the second largest with more than 1200 employees who provide safety, property management, logistical support, and capital development services. Moore holds a Master's of Business Administration from The University of Houston Bauer College of Business and both a Bachelor's and Master's Degree of Science in Construction Management from Texas A&M University.



Speaker Biographies

Sylvia Garcia-Houchins, RN, MBA, CIC is the Director, Infection Prevention and Control for The Joint Commission. She has over 30 years of experience in infection control in both hospital and long term care settings, as well as eight years of clinical microbiology experience. Most recently, Ms. Garcia-Houchins served as the Director, Infection Control at University of Chicago Medicine and was also an intermittent consultant for Joint Commission Resources for 10 years. She has provided infection prevention and control consultation, assessment and education in a variety of health care settings including hospitals, health clinics, ambulatory surgery, and dialysis centers both domestically and internationally. Her specialty areas of interest include disinfection and sterilization, dialysis, infection prevention during renovation and construction, and control of Legionella.

Dr. Andrew Petrosniak is an emergency physician and trauma team leader at St. Michael's Hospital. He's an assistant professor at the University of Toronto and an associate scientist at the Li Ka Shing Knowledge Institute. His research work focuses on using in situ simulation to improve patient safety and optimizing skill acquisition of rarely performed procedures. He's also co-principal of Advanced Performance Healthcare Design, a design and consulting firm that uses multi-modal simulation techniques to inform the design of clinical infrastructure, equipment and high performing teams.

Dr. Christopher Hicks is an emergency physician and trauma team leader at St. Michael's Medicine at the University of Toronto. He is an education research scientist at the Li Ka Shing Knowledge institute, and appointee to the International Centre for Surgical Safety, with a program of research that focuses on simulation-based psychological skills training, human factors and clinical logistics. He has innovated in several areas of resuscitation and psychological skills, including mental practice, stress inoculation training and the trauma black box program. He co-founded Advanced Performance Healthcare Design, consulting with hospitals and industry using simulation to inform the design of systems, spaces and teams.

Stephanie Corona, Allied AIAMI & AIADT is Project Executive, Gilbane Building Company. Stephanie has over 30 years of experience in the construction industry and has managed over \$3 billion in projects in educational, multi-family housing, healthcare, and commercial developments. Stephanie has a strong commitment to outreach and mentoring programs. Stephanie has a BS, Construction Management, Eastern Michigan University.

Karrie Kratz, LEED AP is Operations Manager Vice President, Gilbane Building Company. Karrie oversees all business and sales strategies for Gilbane's Chicago business unit and Detroit office. She combines her business background, strong technical building skills and collaborative approach to effectively lead Gilbane's construction field teams to execute and deliver safe and successful projects. For over two decades, Karrie has lead strategic complex projects in both the Higher Education and Commercial Development sectors. Karrie has a BS, Architecture Building Technology, New England Institute of Technology.



Speaker Biographies

Patty Modrowski RN Patty Modrowski began her career with ProMedica at the Toledo Hospital in 1991 as a Registered Nurse in the pediatric unit. Since then she has held various roles within ProMedica. She has served as a quality specialist, Office Manager of an Internal Medicine Practice, project manager responsible for the implementation of the electronic health record, Director of Operations for various specialties including Primary Care, OB/GYN, Pediatric Sub-Specialties, and Orthopedics to name a few all within ProMedica Physicians Group. Currently, she serves as Vice President of Operations for various specialties for PPG and was responsible for coordinating and facilitating the design, construction and operation of the newly open ProMedica Health and Wellness Center

Camilla Moretti AIA, ACHA, LSSGB, LEED AP BD+C A native of Brazil, Camilla Moretti's resume includes planning, design and research for large-scale healthcare facilities around the world. A Lean Six Sigma Green Belt, she studies and facilitates workshops on operational, logistical and functional issues to enable the team and user groups to make design decisions that promote operational best practices and evidence-based design strategies. Camilla is heavily involved in applied research projects and how they can lead to innovative design. Her work represents over 7 million square feet and more than 1.5 billion dollars in domestic and international projects. As the director of Planning for the Midwest region, she has designed projects for renowned healthcare systems such as ProMedica Health system, Parkview Healthcare, Beaumont Health, Children's Healthcare of Atlanta, and Piedmont Healthcare.

James Pappas AIA is currently president of Fusco, Shaffer & Pappas, Inc. Architects and Planners. As president, he has developed a mission statement in which the firm's philosophy is to provide each and every client a personal working relationship with the principals of the firm from the inception of a client's goals, through occupancy. An alumnus of Lawrence Technological University, he holds both a Bachelor of Science degree in Architecture and a Bachelor of Architecture degree. He has been registered as an architect since 1981, is currently registered to practice Architecture in seven states and has over 35 years' experience with environments of living.

Sheila Cahnman FAIA, FACHA, LEED AP is President of JumpGarden Consulting, LLC, specializing for 37 years in healthcare facility planning and programming. She has presented at over 40 conferences and published over 35 articles. Sheila has led planning engagements for over sixty medical centers world-wide. She led the planning of the new 200,000 SF Indian Health Service Rapid City Clinic.

Steve Vandebussche AIA, LEED AP is the Vice President of Practice at Seven Generations Architecture and Engineering and directs Healthcare Architectural and Planning for the company. He has led design on multiple Native American projects throughout the US.



Speaker Biographies

Scott Winchester AIA is a Project Manager and Tribal Liaison at Seven Generations Architecture and Engineering. He is responsible for tribal client relations, planning, business development and project management. An enrolled member of the Pokagon Band of Potawatomi, he has over 35 years' experience specializing in design of tribal healthcare.

Julie Szyska is the CEO/Managing Director for Havenwyck Hospital. Havenwyck Hospital is a 213-bed licensed psychiatric hospital located in Auburn Hills, Michigan. The hospital provides acute inpatient and partial day hospitalization services for adults, adolescents, and children.

Steven Reutter, AIA, CDT, CCA is a partner with David E. Johnson, Architect (DEJA) and the firm's behavioral health practice leader. DEJA, a Nashville-based architecture firm licensed in 50 states and Puerto Rico, has focused largely on healthcare architecture, including medical and behavioral, since the company's founding in 1991. Steven has been involved with more than 90 healthcare projects, including 50 behavioral health projects over the last 20 years.

David Bean, CHFM, FMP the Assistant Director of Corporate Facilities manages a team of regional facilities managers to support ~ 230 behavioral health hospitals in 40 states. The focus is on regulatory compliance with Environment of Care and Life Safety in meeting CMS/TJC standards. In alliance with the projects team architects, engineers and project managers, David provides guidance and oversight with behavioral health construction and ligature resistant standards that provide a robust building infrastructure for a safe healing environment. David has 25 years of project and facility related experience, retired USN and serves on the BH Corporate Patient Safety Council.

James D. Scott P.E. was the manager of the Health Facilities Engineering Section (HFES) from 2000 to 2010 and 2013 to 2019. He was Director of the Division of Health Facilities & Services in the Bureau of Health Systems from 2010 to 2013. Jim was involved with HFES for a total of 35 years, from 1984 until his retirement in 2019. He represented HFES on the committee which developed the Minimum Design Standards for Health Care Facilities in Michigan and he currently serves on the FGI Health Guidelines Revision Committee.

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, but not limited to, nursing homes, hospitals, surgery centers, hospices, etc. In addition, the bureau is the state agency in Michigan on behalf of the Centers for Medicare and Medicaid Services (CMS) for providers interested in being certified to participate in the Medicare and Medicaid programs. Mr. Horvath is a graduate of the University of Michigan and has 30 years of governmental experience including 20 years with the State of Michigan and 10 years with a local public health department.



Speaker Biographies

Adam Krouse is a Specialist in the Plan Review Division at the Michigan Bureau of Fire Services. He has been with Bureau for over 10 years. Adam is considered one of the bureau's leading technical experts with NFPA, especially NFPA 101, the Life Safety Code. He is responsible for handling high level technical and code related issues while overseeing plan review division activity. Adam has served as the project lead on updating administrative rule sets for fire safety and has assisted in developing new bureau procedures to ensure efficiencies. Adam has also been involved with the development of the plan review division's record management and electronic plan review software for submittals and reviews. Adam has a bachelor's degree from Michigan State University in Building Construction Management. He is a Certified Fire Plan Examiner and Certified Fire Inspector I through NFPA and is a member of the State of Michigan Construction Code Commission.

Kevin Sehlmeier was appointed the Michigan state fire marshal in April 2017. Sehlmeier leads the Bureau of Fire Services within the State of Michigan's Department of Licensing and Regulatory Affairs. He serves as an ex-officio member of the Michigan Fire Fighters Training Council and State Fire Safety Board. Sehlmeier also leads a state-wide community risk reduction effort, known as MI Prevention, to make communities safer and reduce fire fatalities.

Staci Bakkegard, CHC
Ronald A. Drake, PE
Douglas C. Hanna, AIA
Julia F. Herschelmann, AIA
Dave Imesch
Pier-George Zanoni, PE

Karl Kowalske, AIA, ACHA, EDAC, LEED AP
Cathy Mosley, Hon. Aff. AIAMI
Cindy Pozolo, FAIA
Laura Remus
Robert Sharrow, AIA, ACHA, EDAC, LEED AP
Kasra Zarbinian, PE