



54th Annual Health Facilities Planning Seminar

LARA and AIA Michigan

Thursday, April 7 – Friday, April 8, 2022

Grand Traverse Hotel, Acme, MI

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 \$350 for early registration. THE FEE IS \$425 IF PAYMENT IS RECEIVED AFTER March 21, 2022. No registration fee refunds after that date. A \$25.00 handling fee will be applied for all refunds.

54th Health Facilities Planning Seminar

Grand Traverse Resort • April 7-8, 2022

Thursday, April 07, 2022

MORNING SESSION

Moderator: Dave Imesch, Seminar Committee Member

8:15 Welcome – Cindy Pozolo, FAIA & Laura Remus REHS

8:30 Providing Environmental Supports to Autism Spectrum Disorder Individuals - I HSW

Jason Majchrzak MS, LLP, BCBA, LBA

- An understanding of the diagnostic criteria and features of Autism Spectrum Disorder including other associated features along with various examples of overt behaviors commonly displayed by individuals with Autism
- The types of sensory needs and challenges people with Autism face and how they can be addressed. This includes environmental challenges as well as challenges in social interactions.
- Obtain and be able to speak about general methods to treatment and rehabilitation of people with Autism Spectrum Disorders
- Environmental considerations in the design and layout of space designated for individuals with Autism including environment colors, lighting, textures, safety features, and furniture considerations.

9:30 Strategic Design of HVAC for Pandemic Units

Bill Degg, Mark Stauffer and Wes Avery

- Facility needs statement. How the pandemic drove the need for rapid adaptation to best care for the community.
- Creative design approach for overcoming limitations of existing systems. How to meet owner needs while complying with existing guidelines.
- Construction strategy and execution within occupied Covid patient floor. How to minimize interruptions and comply with PCRA/ICRA requirements while meeting aggressive schedule.

10:30 Break

10:45 Improving the Diagnostic Imaging experience for our Veterans and Children

Michael Hemmerly

- Design strategies for diagnostic imaging.
- How design can affect those suffering from PTSD.
- How children respond to intentional design

11:45 Lunch

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AFTERNOON SESSION

Moderator: Austin Webster, LARA

12:45 Aerosols - Let's Clear the Air - 1 HSW

Dr. Bert Silech, MD

- The anxiety of working in a contaminated space
- If you can't contain it, dilute it: dilution is a solution to pollution
- Flow rate is more important than air changes per hour

1:45 Design for Today's Emergency Department - 1 HSW

John Huddy & David White

- Evaluate how historical emergency department design solutions hindered the security and clinical safety of patients, families, and staff.
- Explain how historical and projected clinical patient care data can inform future architectural needs in the ED in defining appropriate quantity of care spaces.
- Identify alternative flow and architectural considerations for specialty ED patient populations for the safe treatment of geriatric, pediatric and behavioral health patients
- Understand and apply the lessons learned during COVID19 for alternative flow patterns and architectural design solutions through multiple case study and design examples

2:45 Break

3:00 Major Revisions of the 2022 FGI Guidelines - 1 HSW

Heather Livingston with FGI committee

- Explain how the 2022 Guidelines will impact the design of clinical spaces in health and residential care facilities.
- Describe the major changes to the 2022 FGI Guidelines.
- Identify the new clinical and patient care spaces in the 2022 Guidelines documents.
- Explain how using the 2022 Guidelines for a project can provide a safe and effective patient care environment at a reasonable cost.

4:00 Water Safety for Domestic Water - 1 HSW

Nikhil Sheth

- Minimizing Legionella and other waterborne pathogens
- Review Industry guidelines and best practices
- Review water quality parameters to monitor/take into considerations
- New construction design considerations

5:00 Social Hour

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MORNING SESSION

Moderator : Karl Kowalske, AIA, Seminar Committee Member

8:30 Artificial Intelligence in Health Facilities Planning

Ray Pentecost III, DrPH, FAIA, FACHA, LEED AP

- Recognizing the state of the AI technology
- Distinguishing between artificial and augmented intelligence
- Imagining the potential impacts of AI on health facilities planning and design
- Acknowledging the unknowns with AI

9:30 The Future of VA Integration with DOD

Sue Baker from Defense Health Agency & Ross Davidson, DBIA, Assoc. AIA, FHFI

- Summarize the decision-making processes and tools to support enterprise level health facility planning for the DoD and VA.
- Explain the criteria to support capital investment decisions.
- Provide illustrative examples of program and project development strategies to support unique beneficiary health populations.
- Summarize ongoing and evolving programmatic and project level opportunities for health facility planning, design, and construction across the DoD and VA.

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AFTERNOON SESSION

Moderator: Pier-George Zanoni, PE, LARA, Seminar Committee Member

11:00 Working Lunch

11:15 Code Updates CON BCHS & BFS - 2 HSW

Tulika Bhattacharya, Larry Horvath, Adam Krouse

- Participants will discuss codes from the Bureau of Fire Services
- Participants will discuss common issues identified in Bureau of Fire Services plan review and the what could happen when they're missed.
- Participants will discuss updates to the CON Review Standards for Cardiac Catheterization Services (CCS) which include requirements of CCS applications at FSO/ASC and updates to Review Standards for Hospital Beds which includes enhanced replacement zone.
- Participant will discuss updates to state licensing and federal certification regulations for health facilities including regulations and standards that relate to physical structure and plant design.

1:15 End Time

Speaker

Biographies

Jason Majchrzak, MS, LLP, BCBA, LBA became the supervisor of the Applied Behavior Analysis (ABA) Program at the Center for Exceptional Families in 2017. He is a limited licensed psychologist, Board Certified Behavior Analyst, Certified Parent-Child Interaction Therapist, and a 5th year doctoral candidate at Queen's University - Belfast in Applied Behavior Analysis. Jason began his career in the community mental health system, providing ABA and psychological services as well as serving as expert psychologist for the Detroit-Wayne County Medication Treatment Review Committee. Jason has also served as supervisor for 4 other Autism Centers in Michigan and consulted in the development of an Autism Classroom in Ohio before arriving to The Beaumont Center for Exceptional Families. Jason's research interests include behavioral self-monitoring, treatment of childhood anxiety, and management of restricted and repetitive patterns of behavior.

Bill Degg is the Manager of Mechanical and Biomedical Services for Sparrow Health System with 19 years of healthcare experience. Bill graduated from Schoolcraft College in Livonia, MI, with a degree in Biomedical Engineering Technology.

Michael Hemmerly graduated from Purdue University with a Bachelor's of Science in Engineering and was hired by General Electric (GE) into their Technical Sales Leadership Program. After completing this 2-year intense training program, he was offered an Outside Sales position with GE Supply in Atlanta, GA. After becoming the #1 salesperson in the country for GE lighting, he was promoted and became the youngest Branch Manager in GE Supply history. A few years later he was hired into GE Healthcare America's Sales Training Program and became a Patient Monitoring & Diagnostic Cardiology Specialist where he was a member of our President's Club as a top Sales Professional in the company. Michael was promoted over to GE Healthcare's Imaging Business as a MR Specialist and the Central Zone Team Leader for GE's MR Business. In 2016, he became a part-owner and the Chief Sales Officer at PDC Facilities where we specialize in creating better healthcare experiences for patients and caregivers.

Mark Stauffer is a senior mechanical engineer with Diekema Hamann Architecture & Engineering (DHAE). He has over 25 years of experience in the engineering industry performing design, commissioning, project management and strategic planning for HVAC and central utility systems. While he has a wide variety of project experience, his primary focus is on healthcare, biopharmaceutical and research facilities. Mark is a graduate of the University of Michigan College of Engineering, ASHRAE Member and Registered Professional Engineer.

Wes Avery is a project manager at Granger Construction Company. In his nearly 20 years of experience in construction management, healthcare has been his focus leading up to and through the pandemic. The majority of his healthcare experience has involved preplanning and execution of construction in fully operational facilities. Wes is a Certified Healthcare Constructor and has credentials in sustainable design and construction.

Speaker

Biographies

Dr. Bert Silich, MD, MS is a board-certified emergency medicine physician and has been with the Henry Ford Health System for 26 years. He is a retired Assistant Professor of Mathematics and Office of Scientific Research member at the United States Air Force Academy. As the owner of Vector Vantage, he applies his engineering and medical backgrounds. A primary focus is the development of BriefView software aimed at enhancing one's ability to read web-based text and communicate its content to others. He is the inventor of the USAF's N-Dimensional Fighter with two patents in aeronautics. He has a medical clamp patent with HFHS and two software patents. His publications present methods to measure work performance and efficiency of hospitals and models of aerosol contamination in hospitals and aircraft passenger cabins.

Jon Huddy is a registered architect with a Master of Architecture focused on health facility planning and design. He has completed over 300 emergency department designs across the US and around the world. He has completed two books on ED design published by the American College of Emergency Physicians and is considered the international expert on emergency department planning and design.

David White has focused data analytics and computer simulation modeling for over 250 emergency department projects across the US and around the world. His analytics have informed design teams on the best alternatives for flow, staffing and architectural programming and design solutions.

Heather B. Livingston, MSL, is the chief operating officer for the Facility Guidelines Institute (FGI) and managing editor of the Guidelines for Design and Construction publications. Heather was a freelance writer and editor from 2006 through 2016. Prior to that, she was an associate editor for the American Institute of Architects and director of the Business Week/Architectural Record awards program. Her work has appeared in Healthcare Design, Health Facilities Management, Medical Construction & Design, This Old House, Cadalyst, Architectural Record, AIArchitect, and other design publications.

Nikhil Sheth is a Marketing Manager with the Institutional segment of Nalco Water, An Ecolab Company. Ecolab is the global leader in water, hygiene and energy technologies and services that provide and protect clean water, safe comprehensive programs and services to the food, energy, healthcare, industrial and hospitality markets in more than 160 countries.

Speaker

Biographies

Dr. Ray Pentecost is the Director of the Center for Health Systems & Design in the Texas A&M University, College of Architecture, and enjoys faculty appointments in the College of Architecture, the College of Medicine, and the School of Public Health. He is a registered Architect, Board Certified in the healthcare architecture specialty, and a Fellow in both the American Institute of Architects (FAIA) and the American College of Healthcare Architects (FACHA). Ray is the global Director for the International Union of Architects – Public Health Group for the 2020-2023 term. He is a Past President of the International Academy for Design & Health in Stockholm, a Past President of the American College of Healthcare Architects, and a two-time Past President of the AIA Academy of Architecture for Health.

Susan Baker serves as the Deputy Chief of the Defense Health Agency's Facilities Enterprise. The Defense Health Agency is the 5th largest real property organization in the Department of Defense, responsible for over 900 medical and allied facilities encompassing over 70 million square feet and \$32B in replacement value worldwide. Sue has worked in several roles within the Enterprise since 2008. She retired from the United States Air Force in the grade of Colonel, with over 26 years of military service, having held a variety of positions at every level, including the Chief of Staff to the Deputy Assistant Secretary of Defense (Health Affairs) for Health Budgets and Financial Policy, Office of the Secretary of Defense, Washington, DC.

Ross Davidson is with the Department of Veteran Affairs he serves as the principal advisor to the Executive Director, CFM on planning, architectural, engineering, and estimating disciplines, and assists and manages the development and maintenance of VA A/E quality standards for VA's built environment; State Nursing Home Grant and Homeless Grant Programs' facility quality control; cost estimating; and value engineering, and historic preservation and National Environmental Policy Act (NEPA) compliance issues. Mr. Davidson is a retired U.S. Army Colonel. He served in a variety of executive and leadership positions with extensive experience in planning, programming, design, construction, initial outfitting, logistics, transition, and disposal of medical and research facilities.

Tulika Bhattacharya is the manager of the Certificate of Need (CON) Evaluation Section within the Michigan Department of Health and Human Services (MDHHS). The Section is responsible for evaluating all CON applications in accordance with the Public Health Code, Administrative Rules, and 15 different CON Review Standards, and makes recommendations to the Director of MDHHS to approve or disapprove a CON application. The Section also has regulatory oversight for monitoring compliance for all CON approved facilities with CON Standards' requirements. Tulika's professional career began in Calcutta, India, where she earned her Bachelor of Science in Mathematics and Advanced Diploma in Software Technology and Systems Management. Tulika has a total of 19 years of regulatory experience with the Department.

Speaker Biographies

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.

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

2022 Health Facilities Planning Seminar Committee

Staci Bakkegard, CHC
Douglas C. Hanna, AIA
Julia F. Herschelman, 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