

51st Health Facilities Planning Seminar

Grand Traverse Resort • March 22 and 23, 2018

**LARA and AIA Michigan invite you to attend the
51st Annual Health Facilities Planning Seminar!**

Thursday, March 22 – Friday, March 23, 2018

Grand Traverse Resort & Spa

100 Grand Traverse Village Blvd., Williamsburg, Michigan 49610

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

Please make reservations at the earliest possible date, as the enrollment will be limited. The registration fee is \$325 for early registration. **THE FEE IS \$390 IF PAYMENT IS RECEIVED AFTER MARCH 1, 2018.** No registration fee refunds after that date. A \$25.00 handling fee will be applied for all refunds.

All arrangements for lodging should be made by the individuals attending. The hotel is the Grand Traverse Resort & Spa in Traverse City, Michigan. Your registration fee includes breakfast and lunch for March 22 and 23. Please be sure to state you are with AIA Michigan Health Facilities Conference.

Group code for booking: HFA0218

Hotel Registration Telephone: 1-800-236-1577

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Thursday, March 22, 2018

MORNING SESSION

7:15 Breakfast

Moderator: Doug Hanna

8:15 **Welcome – AIA / HFES**
Jim Scott, AIA President

8:30 **Neuroscience and Architecture**
Dr. Eve Edelstien

- Learn about the emerging field of Neuro-Architecture.
- Learn how research can be translated into brain-based design principles.
- See how science has been applied to healthcare design solutions.

9:30 **Saving Lives and Transforming Medicine with 3D Printing**
Dr. Glenn Green

- On-site manufacturing of personalized medical devices.
- Successful treatment of lethal tracheobronchomalacia.
- Anticipating the future of medicine.

10:30 Break

10:45 **Infection Control**
Dr. Stephanie Taylor

- Evolution and the indoor environment.
- New tools reveal startling new data on patient room IAQ and healthcare associated infections.
- Designing, operating and maintaining HVAC systems to improve the health of all building occupants and to increase profitability of hospitals, schools and offices.

11:45 Lunch

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AFTERNOON SESSION

Moderator: Rick Hall

12:45 Collaborate, Really Collaborate: Combining Cultures, Improving Processes, and Re-inventing Healthcare in Muskegon

Jonathan Clark, Andrew Zimmer and Lon Morrisson

- Why consolidate if healthcare services are being deployed?
- Why involve so many stakeholders in the design process (don't architects already know everything)?
- How do you design for an uncertain future?

1:45 Advancing Co-Design: Patient and Family Advisory Councils and Mindful Partnerships

Randy Carter

- Provide a working definition of patient and family councils, membership, formation, and activities.
- Integration of patient and family advisors into the organization's culture, projects, and improvement efforts.
- Strategies deployed to increase stakeholder value and participation.

2:45 Break

3:00 Restoring Community in the Healing Process: North Star Reach – A Camp for Children with Serious Health Challenges

Jan Culbertson, FAIA LEED BD+C, GGA and Doug Armstrong

- History and need for a medically sound camp
- Strategies involved in program-driven design
- Challenges of removing all barriers

4:00 Innovation Is the Next Best Thing to Technology!

Joyce Durham RN, AIA

- Everyone wants to be innovative so why is it so hard.
- Steps to promoting innovative thinking.
- Case Studies: Three successful healthcare design innovators.

5:00 Social Hour

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MORNING SESSION

7:30 Breakfast

Moderator: Pier-George Zanoni

8:30 Lessons Learned in Enclosure Commissioning of Health Care

A. Aubrey Swift and David Potter

- Defining the Owner's requirements involved in the Building Enclosure Commissioning process.
- How to prepare a quality enclosure design.
- Common skin design issues.
- The role of the Building Enclosure Commissioning Agent (BECxA) in reviewing and testing the design and construction.

9:30 Single Bed Room Research – FGI

Ellen Taylor

- Discuss how FGI is working to use research to inform the *Guidelines for Design and Construction*.
- Describe variations in outcomes across health care settings and countries.
- Recognize what gaps exist across the studies of single-patient room.
- Evaluate the advantages and disadvantages of single-patient rooms for patients, staff, and family and visitors.

10:30 Break

10:45 Status and Future of the Affordable Healthcare Act

Jean Meyer

- How does the ACA impact healthcare changes?
- How do reimbursement changes impact facilities?
- How does the changing demographics and clinical priorities impact healthcare facilities?
- What does the future hold?

11:45 Box Lunches / Working Lunch

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AFTERNOON SESSION

Moderator: Andrea Humphrey

12:00 Regulatory Session – Panel Discussion

Certificate of Need

Tulika Bhattacharya

Bureau of Fire Services

Brian Williams

Bureau of Construction Codes

Keith Lambert and Barbara Kunkel

Health Facilities Engineering Section

James Scott



Speaker Biographies

Dr. Eve Edelstein is one of the pioneers of 'Neuro-Architecture', launched by the AIA. Eve applies brain-based design principles to design in order to enhance human experience, performance, health and wellbeing. Dr. Eve Edelstein directs the HxLab at Perkins+Will, exploring the human experience of design, and translating research into brain-based design solutions that address clinical, psychological and behavioral needs. Dr. Edelstein's degrees include Ph.D. in neuroscience (Institute of Neurology, University College London), professional Master of Architecture (NewSchool of Architecture & Design) and Anthropology (University of California, Berkeley). Eve's research includes: hearing science (Harvard / MIT lab); circadian impact on EEG and HRV (AIA College of Fellows Latrobe Prize with Ohio State University, University of California, Berkeley and San Diego); virtual reality sonic simulations of the impact of noise on intelligibility (University of California San Diego); Neuro-Universal impact of architecture on able and disabled users (Berkeley Teaching Prize); digital modeling of multi-circadian stimuli (HxLab); and the impact of design features on EEG, sensation, perception, emotion, and behavior (HxLab and the University California Berkeley). Dr. Edelstein is co-founder of Clinicians for Design, an international group formulating design solutions at the healthcare interface. Eve is a Board member of the Academy of Neuroscience for Architecture, and on the faculty of the Neuro-Architecture course at NewSchool of Architecture for Design. Dr. Edelstein publishes and presents internationally, including TEDx and keynote addresses the American Institute of Architects and the American Academy for the Advancement of Science.

Glenn E. Green, MD is a professor of pediatric otolaryngology at the University of Michigan. He has been leading the transformation of medicine through the use of 3D printing to create complex medical devices. He has developed surgical techniques and devices for complex airway reconstruction and is an inventor of several life-saving devices.

He is the director of ongoing translational trials of 3D-printed devices in both humans and animals. He has won several innovation awards, including from Popular Mechanics (2013 Breakthrough Awards, New York City) and President Obama (2015 Honored Maker, the White House). His constructs are on display in the British Science Museum in London. His work has received acclaim in the scientific and lay literature with publications in the New England Journal of Medicine, Science Translational Medicine, Nature Genetics, JAMA, Scientific American, the New York Times, Forbes and Good Housekeeping.



Speaker Biographies

Dr. Stephanie Taylor received her MD from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research. During this time, she became increasingly concerned about the patients who were harmed by medical errors and new infections during their in-patient treatment. Determined to gain a better understanding of the impact of the built environment on patient wellbeing, she returned to school and obtained her Master's Degree in Architecture from Norwich University in Northfield, Vermont. After working for several years in a healthcare architecture firm, she founded Taylor Healthcare Commissioning in order to focus on designing, building and maintaining hospitals. Dr. Taylor has designed hospitals globally, from the United States to Papua New Guinea to Vietnam. In addition to her Taylor Healthcare Consulting work, she is a member of the Harvard Medical School Incite Health Fellowship.

Lon Morrisson, ACHE and Licensed Architect, is a Senior Healthcare leader with Mercy Health Muskegon in Muskegon, MI. Lon's 30 years of experience has allowed him to focus on creating patient care environments that resolve issues and support those providing direct patient care. The majority of his career has been working in operations for healthcare providers in which he has provided leadership for internal operations, planning, design and construction consultants that create facilities that are functional, efficient and become a backdrop for effective and efficient care, removing waste and supports high quality patient care outcomes.

Jonathan Clark, AIA, ACHA is a senior healthcare architect with Progressive AE in Grand Rapids, MI. Jonathan's 15+ years of experience has produced in him a passion for creating spaces that are both efficient and healing. His entire career has been concentrated on planning, designing and constructing healthcare and senior living environments. This focus has provided him with insights and experiences that guide healthcare and senior living clients through a design and planning process that provides creative, new perspectives to create quality facilities that aim to be high performing for markets that demand value.

Andrew Zimmer is a healthcare principal and Associate Vice President at HGA Architects and Engineers in Milwaukee, WI. Andrew focuses on integrating Lean process improvement into the planning and design of healthcare facilities of all types and scales in the Midwest and around the country. He brings a passion for collaboration to every project, and believes that a high-performing team is about "us" and not about "me."



Speaker Biographies

Randall L. Carter is the Vice President for Relationship Development at The Center for Health Design. Randy and has spoken and provided consultation to healthcare organizations internationally and across the United States. Randy has contributed to numerous mainstream publications, health care periodicals. Including Bill Moyers' documentary series "Healing and the Mind", and contributions to the books "Putting Patients First" which won the ACHE Hamilton Book of the Year Award, "Turned On Organizations" and the recently published "The Putting Patients First Field Guide: Global Lessons in Designing and Implementing Patient-Centered Care". Before joining The Center for Health Design, Mr. Carter, served as Senior Vice President, of the Planetree organization, and served on a number of national advisory boards.

Doug Armstrong a nurse and former clinical research director at the University of Michigan Transplant Center, is the Founder and CEO of North Star Reach, a year-round camp in Pinckney, Michigan, serving children with serious health challenges. He led the fundraising effort to raise \$26 million in capital funds to build the medically sound camp, which opened in 2016. That effort included forging partnerships with leading children's hospitals throughout Michigan and Chicago to ensure camp was not only designed from the ground up to optimally support camper's special medical needs but to engage those partners in providing top-tier medical expertise once camp sessions began. He also created a partnership with SeriousFun Children's Network (SFCN), a pioneering organization founded by legendary actor and philanthropist Paul Newman, whose mission supports a global network of independently managed and financed camps serving children with serious illnesses and their families.

Jan Culbertson, FAIA, LEED AP BD+C is a partner with A3C – Collaborative Architecture in Ann Arbor, MI. Jan has enjoyed a 40 year career of creating healing environments in both traditional and non-traditional settings. Her passions for health, the environment and social justice have led her to collaborate with non-profits engaged in addressing the challenges of inclusion and equity in our communities. North Star Reach is one example of removing physical, social and financial barriers resulting in life changing experiences.



Speaker Biographies

Joyce Durham RN, AIA brings a unique background of both clinical and architectural expertise to her clients. She has over 25 years of experience in predesign services including business planning, facility master planning, detailed functional and space programming, and operational planning. She has also held staff and administrative nursing positions. To Joyce, a successful project challenges the status quo, integrates innovative operational concepts, and maximizes the use of space. Her interest in innovation stems from the desire to stop setting goals to be innovative to becoming an innovator.

Aubrey Swift, Building Enclosure Commissioning Authority at dbHMS, combines over 35 years as a technical architect with proven Enclosure Commissioning, LEED consulting and sustainable design skills to guide the integration of engineering and architectural designs to optimal solutions. A licensed architect, trained commissioning agent, and Certified Energy Manager, with a demonstrated grasp of building science, Aubrey brings a true generalist's knowledge to risk mitigation and optimizing envelope designs. He performs Building Enclosure Commissioning, directs the dbHMS commissioning team and serves as chief quality control officer. He led the envelope commissioning for the Gordon Foods Headquarters and Ping Tom Park field house projects. He led forensic testing of two Chicago City Colleges for the team investigating feasibility of façade replacement and has consulted with Gilbane Builders on building façade detailing. He has lead WUFI and THERM studies of thermal bridging including a balcony heat-loss study for the 85-story Aqua Tower in Chicago. He is a speaker on the LEED for Existing buildings process, "green leases", and the integration of sustainable consulting and commissioning. He spearheads the office efforts promoting quality enclosures and commissioning services.

David Potter Senior Facilities Project Manager at Spectrum Health, has worked in the Construction industry for 40 years. He is a graduate of Taylor University, and has over 25 years of experience working in the capacity of an Owner's Representative, managing construction projects for several major organizations. In the 1980's and 90's he oversaw the tenant improvement projects in malls and regional shopping centers for Gantos, a national women's apparel retailer, doing nearly 200 projects throughout the United States. In the 2000's David did construction project management for Meijer, overseeing construction projects throughout the Midwest. Projects included new "greenfield" developments, gas stations, and major remodels of existing Meijer stores. As the owner's rep, David is responsible for the performance of the building's systems and assemblies, including building envelopes.



Speaker Biographies

Ellen Taylor is the Vice President for Research at The Center for Health Design, where she leads multiple research and grant-funded initiatives. She has a degree in architecture from Cornell University, MBA degrees from Columbia University and London Business School, and a PhD in human factors and designing for patient safety from Loughborough University in the UK.

Jean M. Meyer is Chief Operating Officer of Ascension Michigan, and is responsible for operational alignment of all the Ascension ministries within the state. This includes St. John Providence, Borgess Health, Ascension Crittenton Hospital, Genesys, St. Mary's of Michigan and St. Joseph Health System. With 25 years experience in Catholic healthcare, Jean has both front-line patient care experience as a nurse and senior leadership experience. She previously served for three years as President and CEO of St. John Providence. Ms. Meyer was honored in 2016 as one of the "100 Most Influential Women in Michigan" by Crain's Detroit Business.

Keith Lambert – Prior to accepting the director position for the Bureau of Construction Codes in April 2016, Keith served as deputy director of the bureau from 2011 until 2016. Before that he carried out the responsibilities as director of the Office of Land Survey and Remonumentation from 2008 until 2011. In 2003, he obtained his professional surveyor license and began his career with Bureau's Office of Land Survey and Remonumentation. Before joining the Department of Licensing and Regulatory Affairs' Bureau of Construction Codes, Keith worked in the surveying and engineering industry with private sector firms and the Michigan Department of Transportation starting in 1995. He earned a B.S. in Surveying Engineering from Ferris State University in 1998, and graduated with an A.A.S. degree in Business Administration from Delta College in 1994.

Brian Williams is a senior member of the Plan Review Division at the Michigan Bureau of Fire Services. He has been with Bureau for over 15 years as a plan reviewer. Brian is considered one of the bureau's leading technical experts with NFPA, especially NFPA 101, the Life Safety Code. Currently Brian serves as the project lead on upgrading the plan review division's record management system and coordinating efforts with the BCC and HFES to transition the bureau to electronic plan submittals and reviews. Brian has a bachelor degree from the University of Michigan in Architecture. He is a Certified Fire Protection Specialist through NFPA and is a member of the Midwest Regional Work Group for ICC's Fire Code Action Committee.



Speaker Biographies

James D. Scott, PE manages the Health Facilities Engineering Section (HFES), a position he also held from 2000 to 2010. He was Director of the Division of Health Facilities & Services in the Bureau of Health Systems from 2010 to 2013. As a member of the HFES staff since 1984, he represented HFES on the committee which developed the Minimum Design Standards for Health Care Facilities in Michigan. He chairs the Health Facilities Planning Seminar committee and represents the State of Michigan on the Health Guidelines Revision Committee.

Tulika Bhattacharya serves as the manager for the Certificate of Need (CON) Evaluation Section within Department of Health and Human Services (DHHS). The Evaluation Section is responsible for evaluating Certificate of Need applications in accordance with the Public Health Code, Administrative Rules, and applicable CON Review Standards, and makes recommendations to the Director of MDCH to approve or disapprove a CON application. 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 13 years of regulatory experience with the Department.

Barbara Kunkel is the Deputy Director for the Bureau of Construction Codes she oversees the Licensing, Compliance, Health Facilities Engineering Section, Plan Review, and Barrier Free Design areas. She believes it is an essential part of regulation to ensure the public has a mechanism for ensuring there is compliance with the laws. Barbara has worked in the regulation areas of the State of Michigan for over 10 years to help ensure licensees comply with state laws in both the design and construction professions. She is a licensed attorney and holds degrees in business, corporate law and finance.