

M E D E D FACILITIES

The Healthcare and Educational
Facilities Design and Construction
Event for New England



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Reach Decision Makers from Healthcare and Educational Facilities in New England.

April 1-2
2014

Seaport World Trade Center
Boston, Massachusetts
www.mededboston.com

Who should attend:

Owners ■ Architects ■ Engineers
Healthcare Designers ■ Educational Designers
Facility Managers ■ Exterior Enclosure Specialists
Commissioning Professionals ■ Specifiers ■ Contractors



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Welcome to MED-Ed, the premier medical and educational facilities conference in New England! On behalf of the Boston Chapter of the Construction Specifications Institute, I invite you to participate in a dynamic educational program featuring real-world, solutions-based case studies and management discussions relating to the planning, designing, construction, and facility management of medical and educational building types.

The successful planning and design of medical and educational facilities requires a team of individuals with a wide range of skill sets. MED-Ed Conference Director Mark Kalin has brought together a cross section of nationally recognized industry related professionals offering their expertise. Presenters include Architects, Engineers, Lawyers, Building Science Professionals, Facility and Operations Managers, Specification Writers, Manufacturers and more. Organizations like the Construction Specifications Institute will be represented both locally and nationally.

Expect to see someone you know (or want to know) in the exhibit hall, at one of forty educational sessions, the networking receptions, CSI-Boston chapter meeting, or other scheduled event. Interact with your peers and clients while learning something new. I encourage you to check out all the session offerings, they are beyond interesting! Over 80 medical and educational facilities planners, building science experts and many more share their day-to-day experiences in our fast-paced profession!

I hope to see you in April!

Jay Ford, CSI, CCS, LEED AP
CSI Boston Chapter President



The benefits of attending:

- Visit exhibits and see new products
- Discover the latest in products/ services
- Professional development
- Develop personally and professionally while earning AIA Learning Units
- Learn about new practice strategies
- Increase profitability
- Network with peers and clients

AIA members earn LUs for all workshops.

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**Building Knowledge
Improving Project Delivery**

The mission of CSI is to advance building information management and education of project teams to improve facility performance.

Conference at a Glance

www.mededboston.com

Tuesday, April 1, 2014

Code	Time	Title
T11	8:00 - 9:30 am	Emergency Department Design
T21	8:00 - 9:30 am	Where Healthcare and Education Meet; Medical Education and Clinical Simulation Centers
T31	8:00 - 9:30 am	Developing Facilities Guidelines / Construction Standards
T41	8:00 - 9:30 am	Code Essentials for New and Existing Buildings
T51	8:00 - 9:30 am	Healthy Indoor Air Quality by Design
T12	10:00 - 11:30 am	The New 2014 FGI Guidelines - Meeting the Client's Needs
T22	10:00 - 11:30 am	Planning the Inter-Professional Simulation Center: Critical Features for Success
T32	10:00 - 11:30 am	Managing Technical Resources in the Design Firm
T42	10:00 - 11:30 am	The Massachusetts Energy and Stretch Code
T52	10:00 - 11:30 am	Taking Action: Implementing Strategies for Improving Indoor Air Quality
	11:30 - 2:00 pm	Exhibit Hall Open
T13	2:00 - 3:30 pm	The American Medical School - Identifying Innovations for the Future of USA Hospital Design
T23	2:00 - 3:30 pm	Creating the Right Experience in Medical Simulation
T33	2:00 - 3:30 pm	Zero Net Energy Buildings in Massachusetts
T43	2:00 - 3:30 pm	Commissioning for Dummies
T53	2:00 - 3:30 pm	Laboratory Design Insights - Integrating the Building Envelope and Applying Product Transparency
C1	2:00 - 3:30 pm	Construction ICRA: Best Practices in Healthcare Construction
T14	4:00 - 5:30 pm	Master Planning for New Medical Schools in the US and Middle East
T24	4:00 - 5:30 pm	The "I" in BIM
T34	4:00 - 5:30 pm	Public Work in Massachusetts, Understanding Chapter 149 and Chapter 149A
T44	4:00 - 5:30 pm	Building Enclosure Commissioning: Finding Value
T54	4:00 - 5:30 pm	Avoiding Problems with Floor Finishes on Concrete Slabs
C2	4:00 - 5:30 pm	High Performance Masonry Design, Details and Costs
	5:30 - 6:30 pm	Networking Reception, Exhibit Hall Open
C3	6:30 - 8:00 pm	Evening CSI Meeting and Presentation - The Future of Construction Specifications

Wednesday, April 2, 2014

Code	Time	Title
W11	8:00 - 9:30 am	Turning a Brownfield Site into a Community Health Center
W21	8:00 - 9:30 am	Collaborative Design - Medical Education and Research at UMASS Sherman Center
W31	8:00 - 9:30 am	Best Practices in Accessible Design and Construction
W41	8:00 - 9:30 am	The Secret to Successful Commissioning / Retro-Commissioning and the Integration of BIM
W51	8:00 - 9:30 am	Understanding High Performance Options for Insulation in Exterior Walls
W12	10:00 - 11:30 am	The Role of Water Features within the Healthcare Environment
W22	10:00 - 11:30 am	Integrated Project Delivery - Embracing a True Collaborative Team Approach
W32	10:00 - 11:30 am	So You Think Your Hospital is Accessible?
W42	10:00 - 11:30 am	Air Leakage and Building Tightness Verification in Commercial Buildings
W52	10:00 - 11:30 am	Meeting Fire, Thermal and Air Barrier Requirements in Exterior Wall Assemblies
	11:30 - 2:00 pm	Exhibit Hall Open
W13	2:00 - 3:30 pm	Brigham Green - Repurposing the Historic BWH Main Entry for Parking and a Healing Destination
W23	2:00 - 3:30 pm	Creative Deconstruction of Healthcare Medical Centers
W33	2:00 - 3:30 pm	Details for the Exterior Enclosure
W43	2:00 - 3:30 pm	Importance of Existing Building Surveys: Identifying Potential Code Issues Prior to Renovations
W53	2:00 - 3:30 pm	Cost Estimating For Healthcare and Educational Facilities
W14	4:00 - 5:30 pm	Medical Gardens - The Healing Forest Landscape
W24	4:00 - 5:30 pm	Improving Healthcare Environments: Designing Spaces and Place Through Process Analysis
W34	4:00 - 5:00 pm	Shop Drawings, Change Orders and Claims
W44	4:00 - 5:30 pm	Wall Enclosure Improvements - Capturing the Full Potential of Your Existing Wall System
W54	4:00 - 5:30 pm	Key Parking Considerations for Institutional Campuses



Tuesday, April 1, 2014

T11 | 8:00 - 9:30 am

Emergency Department Design

The Baystate Medical Center Emergency Department in Springfield has been designed to accommodate a patient volume of 110,000 visits per year! This presentation will cover the integration of a new helipad, trauma center, emergency care, urgent care, separate pediatric emergency department and imaging department. We discuss planning concepts including future growth and the integration into the main hospital. To minimize patient/family anxiety and clutter, the department introduced concepts of on-stage/off-stage for both material handling and staff areas. Both exterior access and interior flow will be discussed.

Harvey Kirk, AIA

Principal, Steffian Bradley Architects, Inc.,
Boston

T21 | 8:00 - 9:30 am

Where Healthcare and Education Meet; Medical Education and Clinical Simulation Centers

Medical and nursing schools were early adopters in the use of patient simulation. The use of simulation is increasing in the healthcare setting, as the value of training clinical staff in a controlled environment is realized. Moreover, educational and healthcare institutions are combining resources to create joint simulation centers to be used by both students and experienced healthcare professionals. Join me as we: Identify the key factors in creating a successful simulation center; determine your simulation and training needs, categorize anticipated learners, develop a technology needs list, and evaluate infrastructure and space requirements. Included will be: 1. Initial Planning: assembling the team, identifying stakeholders and learners, collaborative and inclusive program process, establishing goals, and developing curriculum and staff. 2. Program / Space Development: waiting and administration conference and debrief simulation labs, control rooms skills labs, and support space. 3. Case Studies & Design Tips: organization, circulation, and operations, flexible, multi-purpose simulation and skills labs, design strategies, building systems challenges, and technology and equipment integration. 4. Opportunities to Test Equipment, Materials, Building Systems, and Process Improvements. 5. Lessons Learned. 6. Project Costs. 7. Making the Case. 8. Current and Future Trends. 9. Questions and Answers.

Richard Pizzi, AIA

CEO, Lavallee Brensinger Architects,
Charlestown

T31 | 8:00 - 9:30 am

Developing Facilities Guidelines/ Construction Standards

What does a facility manager do when their university owns and manages over a hundred buildings built over the last 100 years? How do they manage the process and the large number of stakeholders from students, to faculty, to administrators, to their internal engineering and maintenance staff. And then make it all green! Whether they are called facilities guidelines or mandated construction standards, there's an art to the process of developing and enforcing the rules of engagement for construction on a campus. This session will take you through the process step-by-step while avoiding obstacles that can derail the process.

Jeffrey Hoseth

Associate Director of Construction Services,
Boston University, *Boston*

Mark Kalin, FAIA FCSI LEED AP

President, Kalin Associates, *Newton*

Joanna A Saltonstall

Program Manager, Planning, Design and Construction, Brown University, *Providence, RI*

T41 | 8:00 - 9:30 am

Code Essentials for New and Existing Buildings

There are certain basic concepts of building code life-safety that apply to all construction, renovation, additions and changes in use. This seminar will describe the application of requirements for use and occupancy, construction type, height and area, interior finishes and egress as they apply to each of these concepts. While the focus of the presentation will be on the contents of the International Building Code (IBC), the implications of the Architectural Access Board regulations (AAB), the Americans with Disabilities Act (ADA) and the Life Safety Code (NFPA-101) will also be described.

Don Vigneau, AIA

Code Consultant, AKF Group, *Boston*

A. Vernon Woodworth, FAIA

Code Consultant, AKF Group, *Boston*

T51 | 8:00 - 9:30 am

Healthy Indoor Air Quality by Design

At the end of this program, the participants will understand the impact of indoor air pollution on human health. They will also be able to identify sources of indoor air pollutants and view several case studies of the effects of controlling versus not controlling indoor environmental quality at the design phase of building construction. Emphasis is drawn to the importance of emissions of VOCs over content

only requirements. Moreover, the participants will learn the value of selecting certified low emitting products as a proven method for controlling VOC emissions (volatile organic compounds) that invade the indoor environment.

Paul Bates, LEED AP

Education and Training Program Manager, UL Environment, *Marietta, GA*

Michelle Roberts, CSI

Director of Sustainability, General Insulation Company, Inc., *Medford*

T12 | 10:00 - 11:30 am

The New 2014 FGI Guidelines - Meeting the Client's Needs

The FGI Guidelines have been undergoing a major revision over the past three years. The new Guidelines for Hospitals and Outpatient Facilities and Guidelines for Residential Care will be available in late February of 2014. In this era of health care reform many traditional design concepts are being challenged by state and federal payers, clinicians, patients, and professionals supporting the physical environment. This session will review the work of the Health Guidelines Revision Committee in the areas of patient safety, nursing unit design, infection control, operating room requirements, and acoustics. These updated guidelines are hot-off-the-press!

Kurt Rockstroh, FAIA FACHA

President, Facilities Guidelines Institute, President/CEO, Steffian Bradley Architects, Inc.,
Boston

T22 | 10:00 - 11:30 am

Planning the Inter-Professional Simulation Center: Critical Features for Success

As medical schools and academic medical centers focus on integrating inter-professional and active learning into their curricula and continuing education programs, technology-infused simulation environments (including standardized patient, mannequin, and virtual settings) have become the ideal 'stage' to bridge the educational and clinical worlds by providing a safe, low-risk, high-fidelity space to practice and master team-based, patient-centric care. Indeed, clinical skills and simulation programs are rapidly evolving from the standpoint of space needs, technology, cost, and inter-professional training. As the clinical setting continues to place greater emphasis on integrated care, efficiency, and patient safety, the simulation platform will take on even greater importance in the educational arena. However, not all simulation centers are created equal, and this session will highlight how budget, institutional culture, learning objectives, physical setting, and operations are critical factors

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that determine the design, and success, of any simulation and skills training facility. Real world, completed simulation projects from across the country will demonstrate the most current thinking in simulation center design, including space metrics, planning organization, best practices, technology, and cost.

David Johnson, AIA, LEED AP
Associate Principal, CO Architects,
Los Angeles, CA

Jonathan Kanda AIA, LEED AP
Associate Principal, CO Architects,
Los Angeles, CA

T32 | 10:00 - 11:30 am

Managing Technical Resources in the Design Firm

Ultimately, much of the success of a design firm hinges on whether the firm can deliver their projects on time, on budget, and without leaks! Technical excellence extends into drawings, specifications, details, BIM standards, keynotes and more. Design firms invest heavily in technical excellence, from training new staff, to capturing project experience. This session is a frank discussion of ways to manage the process in the firm, who should be on the firm's technical committee, how to bring all teams up to the same level, and how to incorporate lessons learned for future projects.

Jonathan Baron, AIA, LEED AP
Director, Shepley Bulfinch, *Boston*

Gerard Gutierrez, AIA, CDT
Director of Technical Resources Group, Sasaki Associates, *Watertown*

Jeffrey Wade, AIA, CSI
Principal, ADD Inc., *Boston*

T42 | 10:00 - 11:30 am

The Massachusetts Energy and Stretch Codes

The Green Communities Act requires that Massachusetts adopt the latest national model energy code within 1 year of its publication, and mandates that all municipalities seeking designation as a "Green Community" adopt additional energy conservation building code requirements, such as the "Stretch Code". This seminar will describe the evolution, contents, and current status of these requirements, with particular emphasis on scoping and compliance options.

Don Vigneau, AIA
Code Consultant, AKF Group, *Boston*

A. Vernon Woodworth, FAIA
Code Consultant, AKF Group, *Boston*

T52 | 10:00 - 11:30 am

Taking Action: Implementing Strategies for Improving Indoor Air Quality

Airborne chemical compounds pose a relatively new concern that has entered the consciousness of the design and construction industry over the past two decades. How can and should architects and designers participate in efforts to reduce exposure to potentially harmful compounds in the buildings we design? The information feels overwhelming to non-scientists, but architects, designers, and facility owners can adopt strategies already recognized by scientific research institutes and healthcare providers, to prioritize the use of less hazardous compounds. This presentation will target a focused list of chemicals in building products that affect indoor air quality. These chemicals have been identified with a variety of detrimental health effects, including asthma, cancer, and infertility. Speakers will articulate the health rationale for an informed selection process, explain the key components to healthier product specifications, and present case studies involving application of this strategy to both hospital and university environments.

Greta Eckhardt, AIA, CSI, CCS, LEED AP, Specifier, Payette Associates, *Boston*

Lisa Goodwin Robbins, RA, CSI, CCS, LEED AP, Associate, Kalin Associates, *Newton*

Ruthann Rudel, MS
Director of Research, Silent Spring Institute,
Newton

T13 | 2:00 - 3:30 pm

The American Medical School - Identifying Innovations for the Future of USA Hospital Design

Pioneering principles for the design of our nation's future hospitals and related healthcare facilities are being established today by game-changing developments in the curriculum and facility design of many new medical schools and allied healthcare educational institutions. The "New American Medical School" concept transforms the built educational environment in ways that radically impact the conduct of the disciplines taught through inter-professional learning and technology, and creates a new model for medical and health education facilities that is driven by an emphasis on technology-rich, problem-based, and hands-on learning modalities. Since these newly established educational environments will be the source of the physicians, nurses, technologist and administrators of a next generation of healthcare providers, they are stimulating innovative and interdisciplinary thought and effort towards the instigation of equally game-changing developments in the future of the healthcare clinical environment i.e. hospitals. Since the medical education and hospital building types both represent golden

opportunities to become transformative forces for change in our nation's ongoing healthcare improvement dialogue, understanding how these educational changes in training, technological and environmental conditions can and will apply to the clinical environment of the Hospital, offers a fertile source for innovations in the design of our nation's future healthcare institutions.

Tom Chessum, FAIA
Principal, CO Architects, *Los Angeles, CA*

Scott Kelsey, FAIA
Managing Principal, CO Architects,
Los Angeles, CA

T23 | 2:00 - 3:30 pm

Creating the Right Experience in Medical Simulation

Medical Simulation Centers are on the forefront of health care provider education. The design of these spaces requires knowledge of health care design, current trends in education spaces and an ability to control systems and operations at a new level. "SIM" centers must recreate the healthcare environment as closely as possible; similar finishes, controls, feeling, etc. They must also provide the appropriate space to allow for proper instruction, debriefing and the actual simulation.

Erin Anderson
Director of Interior Design, SMRT Architects and Engineers, *Portland, ME*

Paul Lewandowski, AIA, LEED AP
Principal - Education Studio Leader, SMRT Architects and Engineers, *Portland, ME*

T33 | 2:00 - 3:30 pm

Zero Net Energy Buildings in Massachusetts

It hasn't been easy, but Zero Net Energy buildings are becoming a reality in Massachusetts! This session presents two case studies that highlight effective collaboration between the owner, architect, engineer and contractor. The first case study is the Massachusetts Division of Fisheries and Wildlife Field Headquarters in Westborough by Architerra, and the second is the Franklin Regional Transit Authority's John W. Oliver Center in Greenfield by Charles Rose Architects. How many times do you have to run the energy model? What compromises are necessary to preserve the quality of your design? We're doing it, and you can as well!

Dan Arons, AIA, LEED AP
Principal, ARCHITERRA, *Boston*

Julian Astbury, PE
Associate Principal, ARUP, *Cambridge*

Charles Rose, AIA
Design Principal, Charles Rose Architects,
Somerville

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T43 | 2:00 - 3:30 pm**Commissioning for Dummies**

Commissioning is a hot buzzword in the construction industry. But what does it really achieve? The goal of commissioning is to provide a double check of the building systems. In new construction, commissioning can cover the design through assembly to functionality. It can also examine a breadth of systems from enclosures to mechanical, electrical, and HVAC. There are standards developed to provide consistent services. However, in this buffet of construction servings, the service is a la carte and most customers make their table reservation right before the desert course. In this workshop we will provide an overview of the commissioning process, its purpose, components, and players. We will also review retro-commissioning and examine the cost effectiveness of implementing retro-commissioning recommendations based on nine commissioning efforts and an analysis of the Energy Use Intensity (EUI) of twenty-three federal hospital facilities, some without commissioning and some with commissioning.

Mike Schofield, CBCP

Senior Project Manager, Conservation Services Group, *Westborough*

Wesley Stanhope, DEM, EBCP

Senior Field Project Manager, Conservation Services, *Westborough*

T53 | 2:00 - 3:30 pm**Laboratory Design Insights - Integrating the Building Envelope and Applying Product Transparency**

MEP and internal equipment account for significant energy use in laboratory and medical buildings. The envelope's importance is often overshadowed, and its contribution to performance is not always fully appreciated. Contributing to efficiency, the envelope can also improve visual and thermal comfort. We will discuss envelope and MEP design to achieve higher performance and allow more architectural flexibility. We will present results of glare studies, and CFD analyses on temperatures and comfort. We will also present glazing parameters, and show how the optimum glazing area is significantly higher than the 40% ASHRAE baseline, when lighting has daylight dimming controls. The second part of our presentation will focus on materials transparency, and how this topic can be applied to product selections in labs and other specialized spaces. Using our current project experience, Vidaris will review the process we employ with designers and owners to assess and optimize material selections, including major finishes like flooring. The process encompasses a wide range of issues, from targeted materials avoidance, evaluations of HPD, EPD, and emissions data, to reviews of maintenance protocols. We will show examples of how this process can result in reduced

emissions and toxins, as well as LEED v4 points.

John Amatruda, RA, LEED fellow
Principal, Vidaris, Inc., *New York, NY*

Catherine Bobenhausen, CIH, CSP, LEED AP
Senior Industrial Hygienist, Vidaris, Inc.,
New York, NY

Carl Ian Graham, PE
Principal, Vidaris, Inc., *New York, NY*

C1 | 2:00 - 3:30 pm (free to all)**Construction ICRA: Best Practices in Healthcare Construction**

In response to the needs of the medical community and the contractors that serve it, the Carpenters International Training Fund developed an innovative training and qualification program that teaches carpenters how to reduce the risk of contamination while working in occupied healthcare facilities. Learn about this 24-hour training program, which delivers comprehensive skill-sets for containing pathogens, controlling airflow, protecting patients, and productively performing work without disrupting adjacent operations.

New England Carpenters Union, *Methuen*

T14 | 4:00 - 5:30 pm**Master Planning for New Medical Schools in the US and Middle East**

Additional medical education facilities are urgently needed around the world to help serve the growing population, with an over 30 percent increase in need projected by 2040. Some estimate that we will need 5,000,000 additional doctors within 30 years to serve people in developing countries. People are living longer lives everywhere in the world, in part because of improvements in health care. Perkins+Will has planned and designed major health care campuses in the US and the Middle East within the last five years. We are happy to share our projects, experiences and ideas from projects we are working on in the US and abroad!

Pat Bosch, LEED AP

Design Principal, Perkins + Will, *Atlanta, GA*

Dan Watch, AIA, NCARB, LEED AP
Principal, Perkins + Will, *Atlanta, GA*

T24 | 4:00 - 5:30 pm**The "i" in BIM**

BIM without Information is CAD. The majority of design firms have adopted BIM as their preferred design technology, and owners and contractors see the model as an asset to manage. Many healthcare owners, state agencies, and the federal government are insisting on BIM deliverables with content. This session is intended for owners who want to know what can be included in a model, designers who need an effective way to make their models more useful to the whole team, and building product manufacturers who want to provide the information. Presented by the author of "BIM

Content Development - Standards, Strategies, and Best Practices" published by Wiley.

Robert Weygant, CSI, CDT
CEO, Sumex Design, *Nottingham, NH*

T34 | 4:00 - 5:30 pm**Public Work in Massachusetts, Understanding Chapter 149 and Chapter 149A**

Public work in Massachusetts is bid under a unique set of rules! Get it wrong, and you'll be rebidding your project and increasing the potential for change orders! MGL Chapter 149 governs the filed-sub-bid process where subcontractors in 18 key trades bid early to general contractors when their scope reaches a certain dollar threshold. MGL Chapter 149A governs the trade-bid process when a construction manager is involved and bids trades to qualified subcontractors. It's not magic, but you need to know the rules. We'll discuss the public bidding process and how to best identify the scope of the various trades within the Contract Documents.

Deborah Anderson, Esq.

Assistant Attorney General, Bid Unit
Attorney General's Office of Massachusetts,
Boston

Jay Ford, CSI, CDT, LEED AP

Associate, Kalin Associates, *Newton*

John Nunnari, AIA

Executive Director, AIA Massachusetts, *Boston*

Laura Wernick, AIA, REFP, LEED AP

Principal, HMFH, *Cambridge*

T44 | 4:00 - 5:30 pm**Building Enclosure Commissioning: Finding Value**

Building Enclosure Commissioning (BECx) is not a new concept, but the term has recently gained popularity in the design and construction communities. Several industry standards and guidelines continue to be developed and revised in an effort to lead project teams through the commissioning process, but the industry has yet to come to terms with its purpose or arrive at a consensus on the process and its implementation. This confusion has led to a process that is not fully leveraged. The BECx process, however, if implemented properly, can be very valuable: it improves quality, controls risk, and reduces costly changes and delays during construction. This presentation will review the current standards and perceptions of the BECx process, outline the specific quality assurance/quality control provisions it embodies, and discuss how selecting a suitable scope of BECx procedures can add value to projects and deliver building performance that meets expectations.

Peter Babaian, PE

Associate Principal, Simpson Gumpertz & Heger, Inc., *Waltham*

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T54 | 4:00 - 5:30 pm

Avoiding Problems with Floor Finishes on Concrete Slabs

This presentation will discuss how moisture in concrete slabs leads to flooring failures and provide recommendations for mitigating the risk of failures. Recent changes in the composition of floor finishes have made these materials more susceptible to moisture-related deterioration. We will review the sources of moisture in concrete floor assemblies and the current industry tests for determining slab moisture levels. A discussion on establishing a testing protocol, interpreting test results, and understanding test limitations is included. The presentation will provide recommendations for minimizing the chances for flooring failures, mitigating existing high concrete moisture levels, and selecting appropriate floor finishes.

Emily Hopps, PE

Senior Project Manager, Simpson Gumpertz & Heger, Inc., *Waltham*

Peter Nelson, PE

Senior Principal, Simpson Gumpertz & Heger, *Waltham*

C2 | 4:00 - 5:30 pm (free to all)

High Performance Masonry Design, Details and Costs

This program is designed to help the attendee understand the basic functions of the building envelope/enclosure and how masonry design and details can create high performance buildings. The presentation will specifically review insulation options and wall configurations and the resulting R-values for code compliance. Thermal mass benefits will be explored. It will also cover design, details and cost options for several masonry materials and systems, and review other building performance requirements such as security, durability, fire resistance, blast resistance, structural integrity and life cycle costs. The presentation will include "feature projects" from the New England States.

Richard Filloramo

Director of Market Development & Technical Services, International Masonry Institute, *Glastonbury, CT*

C3 | 6:30 - 8:00 pm (free to all)

Evening CSI Meeting and Presentation - The Future of Construction Specifications

It isn't hard to see the dramatic changes that have taken place in the last few years in construction information and documentation. It may surprise you to know from how many additional directions change is coming from, and what the shape of those changes may be. This presentation will examine standards and resources now in place or in development including MasterFormat, OmniClass, SPIe and Data Dictionaries. We also look forward to the possible impact of BIM, robots, mobile devices, and an intelligent cloud, among other things, on specifications and construction projects. You'll need this knowledge to help you make business decisions and plan for the future!

Greg Ceton

Technical Services Director, The Construction Specifications Institute

Mark Kalin, FAIA, FCSI, LEED AP

President, Kalin Associates, *Newton*

Wednesday, April 2, 2014

W11 | 8:00 - 9:30 am

Turning a Brownfield Site into a Community Health Center

A local Health Center is constructing a clinic on a brownfields site in the Boston area. A requirement of the project and agency's landlord was the remediation of the site to closure under the Massachusetts Contingency Plan (MCP). GZA has been assisting the client in navigating the complicated world of the MCP by generating reports that included a Remedial Action Plan and a Remedial Implementation Plan where we performed pilot testing of a remedial system to mitigate a chlorinated solvent plume on the property. GZA will be implementing a three-part remedial action. High Vacuum Extraction (HVE) will be used to mitigate elevated groundwater concentrations in the source area to below upper concentration levels (UCLs) to allow for permanent closure of the site with an activity and use limitation (AUL). Enhanced reductive dechlorination (ERD) will be used to treat the dissolved phase plume down gradient of the source area. Vapor intrusion will be mitigated by installing a sub slab membrane system (SSMS) under the slab of the new building. This project has involved work with many different design disciplines and contractors, including stakeholders, the agency's landlord, architects, general contractors, civil engineers, and HVAC engineers. Included also is LSP and remedial services, geotechnical engineering and field oversight, asbestos and hazardous materials survey and abatement oversight, and construction phase health and safety monitoring. Remediation is occurring in conjunction with

the building construction. The site will achieve permanent closure, and the building will receive LEED certification. The Health Center plans to apply for Brownfield funding.

Russell Parkman, PE

Senior Project Manager, GZA GeoEnvironmental, Inc., *Norwood*

Frank Vetere, PE

Associate Principal, GZA GeoEnvironmental, Inc., *Norwood*

Jessica Yeager, PE

Assistant Project Manager, GZA GeoEnvironmental, Inc., *Norwood*

W21 | 8:00 - 9:30 am

Collaborative Design - Medical Education and Research at UMASS Sherman Center

The new 512,000 square foot Sherman Center on the University of Massachusetts Medical campus combines advanced medical education and simulation for future doctors and nurses with extensive research laboratories. This session will explore the University's program objectives, goals, and funding requirements. We will focus on the processes used by the various teams to achieve a successful project and how the team adapted to changes requested throughout the process. The team will also discuss procedures for move-in and operational performance of the building.

Wayne Cornell

Supervisory AV/IT Consultant, Acentech Incorporated, *Cambridge*

Mark N. Dolny, AIA, LEED AP

ARC/Architectural Resources, *Cambridge*

Shawn McGuinness, AIA, LEED AP

UMass Medical School, *Worcester*

W31 | 8:00 - 9:30 am

Best Practices in Accessible Design and Construction

Plans to Practice – Accessible Design and Construction will focus on two critical areas of project development, design and construction. Cases involving complaints against architects and developers for failing to design buildings and sites to incorporate access for people with disabilities are on the rise and are expected to continue. This presentation will highlight common oversights architects make when incorporating accessibility into medical and educational facilities followed by typical errors made in the field during construction. It will offer practical examples of simple solutions which, when incorporated into plan development and construction, will help produce projects which are truly accessible to all people. The common mistakes highlighted in the presentation are those which have been the subject of several complaints against architects and developers which have, in some cases, resulted in litigation. Learn how to avoid these mistakes before they occur!

Peter Stratton

Senior Vice President, Director of Accessibility Compliance and Consulting, Steven Winter Associates, Inc., *Norwalk, CT*

Wednesday, April 2, 2014

W41 | 8:00 - 9:30 am**The Secret to Successful Commissioning/Retro-Commissioning and the Integration of BIM**

Without champions from within the building, commissioning and retro-commissioning projects have a hard time succeeding. The purpose of this presentation is to bring facility managers, owners, engineers, project managers, maintenance/operations engineers, and construction managers together for an overview of the commissioning/retro-commissioning process and demonstrate the critical role of the owner and operator. This session will also explore the current challenges to operations, maintenance and life cycle management for complex facilities. The presenters will share how Building Information Modeling can be integrated with Facilities Management Systems to meet these challenges by identifying capturing and providing relevant, accurate, accessible and maintainable facility data throughout a facilities' life.

Ralph KreiderBIM Program Manager, MBP, *Columbia, MD***James Mascaro, PE, CCP**Vice President/Director of Commissioning Services, MBP, *Chesapeake, VA***W51 | 8:00 - 9:30 am****Understanding High Performance Options for Insulation in Exterior Walls**

The present seemingly prescriptive International Energy Code (IEC) requirements for insulation in building exterior walls can lead to moisture related disasters. The construction industry appears to have taken the easy route of complying with the 2006, 2009 or 2012 IEC by adopting the insulation strategies of the tables in these codes. As has been past history with national building codes, the code officials have stayed true to the "one size fits all" strategy for writing codes. These tables do not take into account the hygrothermal performance of the assemblies. This presentation will review these requirements, point out the difference between the intent of the codes and the "letter" of the codes and show why using the tables can result in problems with the performance of the building exterior walls. Also, the newly adopted ASHRAE 90.1 (2013) standard has done the industry the great service of factoring in thermal bridging into the assessment of the thermal performance of the building exterior walls. This presentation will show the positive effect on the performance of the walls and offer compliance options.

Len AnastasiPresident, EXO-TEC Consulting, *Avon***W12 | 10:00 - 11:30 am****The Role of Water Features within the Healthcare Environment**

The debate over the inclusion of water features into the healthcare setting is at the forefront of many conversations. Some healthcare professionals contend that water features are a source of illness and should thus be precluded as a design feature. Similarly, many within the design professions contend that water features are much more than aesthetics, and serve the purpose of relieving stress and anxiety related to healthcare processes. Issues absent within this debate are the role of facility management in the maintenance, the cost associated with the purchase and maintenance, and public opinion with regard to the perceived benefits and preferences for water features. In the spirit of fair balance, this workshop will include an equal discussion of assorted evidence related to the presence or absence of water features within the healthcare environment. In this discussion we will discuss threats to human physical health as identified through a review of the literature, opportunities for social or psychological health as identified from a self report survey, along with maintenance requirements and financial needs as identified from interviews with maintenance personnel responsible for water features. The outcome of this workshop will be a more informed evidence-based decision that goes beyond the silo thinking common in this debate.

Maegan BrowerBoston Architectural College, *Boston***Dak Kopec**Director of Design for Human Health, Boston Architectural College, *Boston***Meaghan Maher**Boston Architectural College, *Boston***Meghan O'Hara**Boston Architectural College, *Boston***W22 | 10:00 - 11:30 am****Integrated Project Delivery - Embracing a True Collaborative Team Approach**

Few institutions have discovered how an Integrated Project Delivery (IPD) contract can benefit owners, designers, and construction managers working on projects of any size. Utilizing an IPD contract and sharing risk and reward across all stakeholders instills trust from the earliest stages of planning, enhances team-wide collaboration, reduces waste, and results in a more seamless management process. This session will unveil the personal experiences of the day-to-day project team at Lawrence + Memorial Hospital; how IPD, Building Information Modeling (BIM), and Lean Design & Construction techniques saved six months on the overall design schedule of the hospital's Cancer Center in Waterford, Connecticut; and how the same team is simultaneously managing its second IPD project, the renovation of a

Medical Office Building located in New London, Connecticut. Throughout the session, the team will also provide insight on obtaining buy-in from all project stakeholders and effectively balancing their needs, while successfully delivering time and cost saving solutions for the hospital.

Brenda BulliedDirector of Facilities Innovation & Planning, Lawrence + Memorial Hospital, *New London, CT***Joshua DiGloria, LEED AP**Senior Project Manager, Suffolk Construction Company, *Danvers***Pamela Mace, AIA, LEED AP**Senior Associate/Project Manager, TRO Jung Brannen, *Boston***W32 | 10:00 - 11:30 am****So You Think Your Hospital is Accessible?**

Most hospital administrators believe that their facilities are "ADA-accessible." Most architects are sure they are providing design documents that fully comply with the ADA Standards for Accessible Design. At the same time, many people with disabilities report significantly different health care outcomes related to the lack of accessibility at their hospitals. For example, limited accessibility at hospitals has caused: Late detection of breast cancer because there was no accessible mammography machine, humiliating and incomplete treatment in corridors because exam rooms were not accessible, inappropriate emergency room treatment because there was no ASL interpreter, TTY, or video phone in the emergency room, and inappropriate medication dosages prescribed because there was no accessible scale to weigh a patient who cannot stand independently. In response to many such complaints and anecdotes, the U.S. Department of Justice and the Attorneys Generals have announced an enforcement initiative to improve accessibility in health care settings nationwide. In addition, the Federal Access Board has proposed guidelines for accessible medical equipment such as exam tables, mammography machines, scales, and hospital beds. This new equipment will often require additional space so that people with disabilities can have equal access to health care. This seminar will outline the surprising findings in several major hospitals that have led to substantial modifications in how facilities are designed, barriers are identified, equipment specified, and accessibility is managed. Learn what you can do now to avoid costly investigations and litigation, and improve health care for patients and families with disabilities.

Katherine McGuinnessPrincipal, Kessler McGuinness & Associates, *West Newton***Dennis Monty**Director of Facilities Planning, Compliance & Special Projects, Beth Israel Deaconess Medical Center, *Boston*

Sessions

Wednesday, April 2, 2014

W42 | 10:00 - 11:30 am

Air Leakage and Building Tightness Verification in Commercial Buildings

Controlling air movement is an important design/construction issue in all building types. Reducing air leakage can have a significant impact on durability, comfort, and efficiency. Increasingly, organizations (e.g., U.S. Army Corps of Engineers) and the code (2012 IECC) are mandating building enclosure air-tightness performance metrics. This session will examine how to ensure that the appropriate air barrier details are included in the plans and specifications to achieve success. We will review the performance metrics associated with full building testing and describe the protocols for testing a commercial building. Case studies from recent tests of college and university buildings ranging up to 200,000 square feet will be used to illustrate the testing process and discuss lessons learned.

Wei Lam, PE

Associate Principal, Wiss, Janney, Elstner Associates, Inc., *Boston*

Matt Root, LEED AP

Senior Project Manager, Conservation Services Group, *Westborough*

W52 | 10:00 - 11:30 am

Meeting Fire, Thermal and Air Barrier Requirements in Exterior Wall Assemblies

Every exterior wall design has to perform for code required fire, thermal and air barrier performance. ASHRAE 2007 is the most significant change in insulation requirements since 1989. This science changes how the exterior envelope is built. This coupled with the emerging air barrier market has presented many challenges for the architectural community. Our experience with the MA code (similar to the ASHRAE 2007 requirements) since 2000 has taught us a lot about this building science. Some good, some bad, we will review all of these issues in this session. Key details, specifications, dew point analysis, and job profiles will be used as a reference and made available to attendees.

Keith Sportack, CSI

President, Pace Representatives, *Braintree*

W13 | 2:00 - 3:30 pm

Brigham Green - Repurposing the Historic BWH Main Entry for Parking and a Healing Destination

In celebration of its Centennial, and in keeping with Brigham and Women's mission of wellness and healing, a new open space is being built in the heart of Brigham Circle. The Thea and James M. Stoneman Centennial Park located above a new 400 car underground parking garage will create a new identity for the hospital. The project facilitates integrated

access to ambulatory healthcare services, connecting with the MBTA Green line, bus mass transit and the Hubway system. Pedestrian circulation restores the welcoming civic space connection to the hospital's symbolic main entrance and to the neighborhood and greater Longwood Medical Center area. The proposed landscape is not historic restoration but a contemporary interpretation of a central green

Denis Garriepy

Project Executive, Walsh Brothers, *Boston*

Joseph O'Farrell

Senior Project Manager, Brigham and Women's Hospital, *Boston*

Michael Roughan, AIA, LEED AP

Healthcare Principal, HDR Architecture, *Boston*

Cynthia Smith, FASLA, CLARB

Vice President, Halvorson Design Partnership, *Boston*

W23 | 2:00 - 3:30 pm

Creative Deconstruction of Healthcare Medical Centers

This presentation will provide a historical baseline and framework for healthcare in the United States as it has been developed for the last 60 years, and why experts contend we are at a transformational tipping point. This evolution will redefine both our healthcare delivery models and the types of facilities needed for this new future. We will explore the medical centers we see today and why they don't work and what the medical center of the future may well look like. We will consider the future trends of healthcare delivery models and in response, how the design and operations of the future healthcare facility will be impacted. In summary we will discuss, 1) the medical center of the future; 2) trends of repurposed facilities and decentralized healthcare; 3) changing needs to support the Continuum of Care; 4) implications of the Affordable Care Act and Patient Centered Care; and 5) a view of new leadership for new directions.

Robert Farrow, AIA

Principal, Director of Healthcare Southeast Region, HKS, Inc., *Atlanta, GA*

W33 | 2:00 - 3:30 pm

Details for the Exterior Enclosure

As codes change and products evolve, detailing the exterior wall is an ever more complex task. This session reviews current high-performance details for commercial construction, including an overview of the principles of building science and rainscreen cladding. Learn how to develop and master your details with an eye toward preventing water and air leakage, improving thermal performance and complying with NFPA 285 and other code requirements. This session includes detailing for wood frame enclosures, brick veneer enclosures, precast concrete panel enclosures, curtain walls, windows, and roof to

wall connections. Our presenter is nationally recognized for his expertise in the design of building enclosures.

Richard Keleher, AIA, LEED AP, CSI
Senior Architect, The Thompson & Lichtner Co., Inc., *Canton, MA*

W43 | 2:00 - 3:30 pm

Importance of Existing Building Surveys: Identifying Potential Code Issues Prior to Renovations

This presentation will address the benefits of conducting comprehensive surveys of existing buildings prior to the design phases for a renovation, alteration or addition. Code triggers related to the building code, fire codes, accessibility codes and MEP systems will be addressed to provide the audience with an understanding of construction schedule and cost implications associated with uncovering such issues during or after the design phase. The presentation will focus on actual project examples of existing healthcare and higher education facilities in New England.

William Colehower, LEED AP

Associate Program Manager, MIT Facilities, *Cambridge*

Caitlin Gamache, PE

Senior Fire Protection Engineer and Code Consultant, Cosentini Associates, *Cambridge*

W53 | 2:00 - 3:30 pm

Cost Estimating For Healthcare and Educational Facilities

Whoa, the project cost estimate came in higher than we budgeted! Now what? You can't deliver your design without an effective understanding of cost estimating. This session presents best practices for developing effective construction cost estimates and how to manage the process. During what phase of the project should the first estimate be done? How many estimates are needed? Do you need an estimate from both a construction manager and an independent consultant? How do you reconcile them? What are markups and how much should they be? How much contingency should be carried? How are the estimates for healthcare and educational projects different than those for other building types? Come to this session with your questions! We'll work through them with you!

Seamus Fennessy, MRICS

Owner, Fennessy Consulting, *Stoughton*

Richard Marks

President, Daedalus Projects, *Cambridge*

W14 | 4:00 - 5:30 pm

Medical Gardens - The Healing Forest Landscape

The concept for the medical gardens is the forest as both an organizing principle and an

Wednesday, April 2, 2014

ecological metaphor for The Healing Forest Landscape. The entire landscape of the healthcare facilities supports the therapeutic, medical treatment, educational and research needs of the medical facility. Both in the US and internationally, healing gardens and therapeutic landscapes are increasingly part of healthcare facilities of all kinds; including long-term care facilities, cancer treatment centers, and other acute illness treatment centers. These facilities recognize the importance of nature for patients and patient-families dealing with the stress and trauma associated with illness and disease, as well as the benefits such natural settings have for doctors, nurses and other staff. There are currently a number of significant ongoing scientific studies focused on the healing power of forests. These include: Forest Bathing; Forest Therapy; Healing Forest. In addition, research facilities and health resort facilities based on the healing potential of forests existing in Germany and are planned in Korea.

Michael Blier, ASLAPrincipal, Landworks Studio, *Boston***Bill Erickson**Farmer, Singing Nettle Farm and Conscious Elements Permaculture, *Brooks, ME***Lauren Erickson**Farmer, Singing Nettle Farm and Conscious Elements Permaculture, *Brooks, ME***Andrea Read**The Pattern Factory, *Cambridge***W24 | 4:00 - 5:30 pm****Improving Healthcare Environments: Designing Spaces and Places Through Process Analysis**

We often think of Healthcare as the very human interaction of patients and care givers augmented with technology. It is also a process driven endeavor that can be analyzed and improved. Historically, architects and planners based their designs on personal preferences of management and clinicians as well as guidelines, previous experiences and rules of thumb. In this period of limited healthcare dollars, healthcare institutions should look at projects as opportunities to create efficient environments that help reduce the cost of providing healthcare. This presentation will review a methodology that incorporates the analysis of process into the design. The first step is to define the project need. Is

construction really needed or can the issue be addressed more cost effectively with process change? Is it a combination of both? From that point on, we will review tools and techniques to create medical environments that support both patients and caregivers. The presentation will demystify terms such as Lean and Six Sigma. The presentation will continue with data analysis techniques, and simulation modeling. Project specific examples will be presented for these techniques. Attendees will learn how a scientific methodology can be used to evaluate and solve process challenges that will lead to more effective medical facilities.

Steve Clayman, AIAFounder, Vice President, Optimal-Use, *Manchester, NH***W34 | 4:00 - 5:00 pm****Shop Drawings, Change Orders and Claims**

This program focuses on the proper processes for shop drawing review, change order execution and claims review, tasks every architect performs during the construction administration phase of a project. We present the risks involved and how to manage them while performing in a timely and appropriate manner. The current AIA General Conditions (A201) are the point of reference.

Chuck Heuer Esq., FAIAPrincipal, Heuer Law Group, *Cambridge***W44 | 4:00 - 5:30 pm****Wall Enclosure Improvements - Capturing the Full Potential of Your Existing Wall System**

The industry expects high-performance from modern building enclosures, including designs that provide durable waterproofing, high energy performance, a modern aesthetic, sustainability, and minimal maintenance. Older buildings typically do not meet modern expectations, and owners are left wondering what improvements are possible, if they are cost effective, and are they worth the disruption? This presentation discusses strategies to improve enclosure performance ranging from maintenance level activities to substantial interventions that may include supplementing the walls from the interior, recladding, or overcladding. Substantial interventions provide opportunities for improvement of water-tightness, structural

performance, and energy usage. They are also opportunities to develop a contemporary architectural design. Substantial interventions are not without risk though, as these adaptations can change the wall performance, may affect the perimeter or overall structural systems, or trigger code-mandated upgrades that may significantly impact the project economics. Using case studies, this presentation will explore various risks and rewards, provide attendees with initial rules of thumb for evaluating projects and an outline of the steps necessary for a full evaluation, and discuss strategies to capture the greatest return on investment. We help you determine what level of intervention is appropriate, and how to verify the performance from these changes.

Susan Knack-Brown, PEPrincipal, Simpson Gumpertz & Heger, Inc., *Waltham***Matthew Johnson**Principal, Simpson Gumpertz & Heger, Inc., *Waltham***W54 | 4:00 - 5:30 pm****Key Parking Considerations for Institutional Campuses**

A constant challenge with campus planning is the ever-increasing demands for parking accommodations. At the same time, there are competing needs for the limited available campus space. Capital planning must consistently address ongoing maintenance of existing parking facilities to extend their useful life. Parking is a key component to college and university campuses. This lecture will provide attendees with an understanding of the key components involved in the design of new parking structures. We will focus on parking garage design, permitting, function, aesthetics and scheduling. Considerations for mixed use parking facilities will also be presented. The presentation will also provide the attendees with an understanding of condition assessment and deterioration mechanisms. Repair of existing parking structures will be discussed. The presentation will also include parking garage maintenance and capital budgeting recommendations for parking garage repairs.

Sal Capobianco, PESenior Principal, Simpson Gumpertz & Heger, Inc., *Waltham*

FREE ADMISSION
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and workshop
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What makes MED-Ed so important?

It is exclusively for the New England design, construction and built environment that provides all the tools you need to compete in the healthcare and educational markets. Through exhibits, workshops and special events, MED-ED Facilities can help you increase profitability and have fun doing it.

Complimentary Sessions

■ C1

Construction ICRA: Best Practices in Healthcare Construction

Tuesday, April 1 | 2:00 – 3:30 PM (free to all)

In response to the needs of the medical community and the contractors that serve it, the Carpenters International Training Fund developed an innovative training and qualification program that teaches carpenters how to reduce the risk of contamination while working in occupied healthcare facilities. Learn about this 24-hour training program, which delivers comprehensive skill-sets for containing pathogens, controlling airflow, protecting patients, and productively performing work without disrupting adjacent operations.

New England Carpenter Union



■ C2

High Performance Masonry Design, Details and Costs

Tuesday, April 1 | 4:00 – 5:30 PM (free to all)

This program is designed to help the attendee understand the basic functions of the building envelope/enclosure and how masonry design and details can create high performance buildings. The presentation will specifically review insulation options and wall configurations and the resulting R-values for code compliance. Thermal mass benefits will be explored. It will also cover design, details and cost options for several masonry materials and systems, and review other building performance requirements such as security, durability, fire resistance, blast resistance, structural integrity and life cycle costs. The presentation will include "feature projects" from the New England States.



Richard Filloramo

Director of Market Development & Technical Services
International Masonry Institute

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Exclusive Exhibit Hours

Tuesday, April 1: 11:30 am - 2:00 pm & 5:30 - 6:30 pm

Wednesday, April 2: 11:30 am- 2:00 pm

■ C3

Tuesday Evening CSI Meeting and Presentation

Tuesday, April 1 | 6:30 – 8:00 PM (free to all)

The Future of Construction Specifications

Greg Ceton

Technical Director, The Construction Specifications Institute,
Alexandria, VA

Mark Kalin, FAIA, FCSI, LEED,

President, Kalin Associates, Newton

It isn't hard to see the dramatic changes that have taken place in the last few years in construction information and documentation. It may surprise you to know from how many additional directions change is coming from, and what the shape of those changes may be. This presentation will examine standards and resources now in place or in development including MasterFormat, OmniClass, SPIe and Data Dictionaries. We also look forward to the possible impact of BIM, robots, mobile devices, and an intelligent cloud, among other things, on specifications and construction projects. You'll need this knowledge to help you make business decisions and plan for the future.

Special Session

■ T12

The New 2014 FGI Guidelines- Meeting the Client's Needs

Tuesday, April 1 | 10:00 – 11:30 AM

Kurt Rockstroh, FAIA

President/CEO, Steffian Bradley Architects, Boston
President, Facilities Guidelines Institute

The FGI Guidelines have been undergoing a major revision over the past three years. The new Guidelines for Hospitals and Outpatient Facilities and Guidelines for Residential Care will be available in late February of 2014. In this era of health care reform many traditional design concepts are being challenged by state and federal payers, clinicians, patients, and professionals supporting the physical environment. This session will review the work of the Health Guidelines Revision Committee in the areas of patient safety, nursing unit design, infection control, operating room requirements, and acoustics. These updated guidelines are hot-off-the-press!

About the Facility Guidelines Institute (FGI)

FGI was established in 1998 to provide leadership and continuity to the development and publication of the Guidelines for design and construction of health care facilities. FGI supports a quad-annual Guidelines revision process, including the work of the independent Health Guidelines Revision Committee. Revenue from sales of Guidelines documents supports the revision process and funds research to inform the Guidelines development process. For more information, visit www.fgiguideelines.org.

About the FGI Guidelines for Design and Construction of Hospitals and Outpatient Facilities The FGI Guidelines for Design and Construction documents are updated every four years to keep pace with new concepts, capabilities, and technologies. The Guidelines is used as an industry reference standard and in many states to regulate facility design and construction.

Lunch included...register for the one or two day conference pass and receive tickets for lunch plus drink tickets for the Tuesday Night Reception.

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Nationally Recognized Speakers

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Len Anastasi, President EXO-TEC Consulting - Avon, MA
Deborah Anderson, Massachusetts Attorney General's Office - Boston, MA
Erin Anderson, NCIDQ, IIDA, Director of Interior Design SMRT Architects and Engineers - Portland, ME
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Paul Bates, LEED AP, Education and Training Program Manager UL Environment - Marietta, GA
Michael Blier, ASLA, Principal Landworks Studio - Boston, MA
Catherine Bobenhausen, CIH, CSP, LEED AP, Senior Industrial Hygienist Vidaris, Inc. - New York, NY
Pat Bosch, LEED AP, Design Principal Perkins + Will - Atlanta, GA
Maegan Brower, Boston Architectural College - Boston, MA
Brenda Bullied, Director of Facilities Innovation & Planning Lawrence + Memorial Hospital - New London, CT
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Thomas Chessum FAIA, CO Architects - Los Angeles, CA
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William Colehower, LEED AP, Associate Program Manager MIT Facilities - Cambridge, MA
Wayne Cornell, Supervisory AV/IT Consultant Acentech Incorporated - Cambridge, MA
Joshua DiGloria, LEED AP, Senior Project Manager Suffolk Construction Company - Danvers, MA
Mark N. Dolny, AIA, LEED AP, Associate Principal ARC/Architectural Resources

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Lauren Erickson, Farmer Singing Nettle Farm and Conscious Elements Permaculture - Brooks, ME
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Pamela Mace, AIA, LEED AP, Senior Associate/Project Manager TRQ Jung Brannen - Boston, MA
Meaghan Maher, Boston Architectural College - Boston, MA
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Katherine McGuinness, Principal Kessler McGuinness & Associates - West Newton, MA
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Keith Sportack, CSI, President Pace Representatives - Braintree, MA
Wesley Stanhope, DEM, EBCCP, Senior Field Project Manager Conservation Services Group - Westborough, MA
Peter Stratton, Senior Vice President, Director of Accessibility Compliance and Consulting Steven Winter Associates, Inc. - Norwalk, CT
Frank Vetere, PE, Associate Principal GZA GeoEnvironmental, Inc. - Norwood, MA
Don Vigneau, AIA, Code Consultant AKF Group - Boston, MA
Jeffrey Wade, AIA, CSI, Principal, ADD Inc. - Boston, MA
Dan Watch, AIA, NCARB, LEED AP, Principal Perkins + Will - Atlanta, GA
Laura Wernick, AIA, REFP, LEED AP, Principal HMFH - Cambridge, MA
Robert Weygant, CSI, CDT, CEO Sumex Design - Nottingham, NH
A Vernon Woodworth, FAIA, Code Consultant AKF Group - Boston, MA
Jessica Yeager, PE, Assistant Project Manager GZA GeoEnvironmental, Inc. - Norwood, MA

General Information

■ Why register in advance?

March 15 is the deadline for advance registration for the exhibit hall and all workshops and other events. Why should you take advantage of that deadline?

- you save money because it's less expensive than registering on site
- you won't have to wait in line on-site to register (it really is a lot easier to register in advance)
- you are guaranteed a seat in popular sessions that may sell out (seating is limited in all sessions)
- you receive free admission to the exhibit hall if you register in advance

To register before the March 15 discount deadline, use the registration form in this piece, call 800-996-3863 to register by phone, or register on our website at www.mededboston.com.

Questions? Call 800-996-3863 or visit www.mededboston.com

■ Directions and Parking

Directions and parking information for MED-ED Facilities at the World Trade Center will be included in the package mailed to you with your registration badge if you register before March 15.

■ Accessibility

MED-ED Facilities, the World Trade Center and the Seaport Hotel are accessible for individuals with disabilities.

■ Public Transportation

The MBTA Silver Line Waterfront (SL1) provides service from the WTC Station to Logan International Airport terminals every 10 minutes during the weekday and every 15 minutes during the weekend. The Silver Line station is located adjacent to the hotel.

■ Taxi

Seaport Boston is about 3 miles from Logan Airport, one of several hotels near the Boston Convention Center and a quick ride away from all Boston attractions. Taxis are readily available from the lobby of our hotel.

■ Water Taxi

This scenic way to travel is a great way to avoid traffic. Hop on the water taxi shuttle at your terminal and enjoy the ride. The stop for pick up and drop off is at the Seaport World Trade Center, directly across the street from the Seaport hotel.

■ Hotels

The Seaport Hotel

Located on Boston's vibrant and historic waterfront, the Seaport Hotel is located directly

across from the World Trade Center Boston. Just four minutes from Logan International Airport, the distinctive Seaport Hotel offers striking views of Boston Harbor and the city skyline. The special rate for MED-ED Facilities attendees is \$239 single occupancy. Call 800-440-3318 before February 28 to make your reservations. Be sure to mention that you are with MED-ED Facilities. To learn more about the Hotel, visit www.seaporthotel.com.

■ Continuing education and AIA/CES Learning Units (LUs)

Design professionals may earn American Institute of Architects (AIA)/Continuing Education System (CES) Learning Units (LUs) by attending pre-approved MED-Ed Facilities sessions and co-located conferences. Qualifying sessions will be designated in the online schedule and in the onsite program with the number of LUs next to each.

To take advantage of these opportunities at MED-ED Facilities:

Workshops — AIA members must include your AIA membership number on the registration form when registering for MED-ED Facilities workshops.

Questions? Call 800-996-3863

AIA members: you earn one (1) AIA Learning Unit for each workshop hour (so you earn 1.5 LUs for a 90-minute workshop).

WAYS TO REGISTER

On-line until March 27

Registrations may be made directly on the MED-ED Facilities website at www.mededboston.com until March 27; after that date all registrations must be done on site. Register by March 15 to enjoy the discounted prices.

By telephone until March 27

Call 800-996-3863 to register by telephone with a credit card. The discount deadline is March 15 and this "800" line closes on March 27; all registrations after that date must be done on site.

By mail until March 27

After that date all registrations must be done on site. Register by March 15 to enjoy the discounted prices. Mail your payment and completed registration form to:

MED-ED Facilities
1645 Falmouth Road, Suite 1a
Centerville, MA 02632

By fax until March 27

Fax your completed registration form to 508-790-4750. Please do not mail a duplicate registration. You will receive written confirmation of your registration if you beat the March 15 deadline. Do not fax registrations after March 27; all registrations after that date must be done on site.

MED-ED Facilities scholarships

Full-tuition scholarships for MED-ED Facilities workshops are available to young professionals. call 800-996-3863 for details.

Free workshops

MED-ED Facilities can be free or it can be inexpensive. To attend workshops free, email dmcelaney@tradeshowmgmt.com or call 800-996-3863 and volunteer to work for a few hours at MED-ED Facilities and, in exchange for your time, you will earn free admission to workshops.

Group discounts

Several firms are registering as a group to receive additional discounts. Check with your office manager or call 800-996-3863 to see if your firm is registering as a group.

Free admission to exhibits

For FREE admission to the exhibit hall, complete the registration form by March 15 and check EXHIBITS ONLY on that form...or register for any MED-ED Facilities event and you automatically receive free admission to the exhibit hall.

Confirmation of registration

All registrations received prior to 3:00 pm (EST), March 15 will be acknowledged by mail on or about March 25. For registrations

received after March 15, registration badges must be picked up on site during the on site registration hours.

On-site registration

Tuesday, April 1 through Thursday, April 2 opens at 7:00 am

For your convenience, all changes in registrations received by mail/fax/web will be handled on site during registration hours.

Refund policy

MED-ED Facilities provides full refunds or credit for events canceled by MED-ED Facilities. Full refunds or credit (less a 10% processing fee) also may be provided if your refund request is received in writing by MED-ED Facilities prior to March 20. A 50% refund or credit may be provided if MED-ED Facilities receives the refund request in writing after March 20, 2014 but before April 1, 2014. It is not possible to honor refund requests received after April 1, 2014; however, you are welcome to send someone else in your place to the event for which you are registered (that person need only change the name on your registration badge while on site during registration hours).

M E D E D FACILITIES

2014 REGISTRATION FORM

Please print legibly.

Submit a separate form for each person registering.

First name _____

Last name _____ AIA, CSI, P.E., Etc

Title _____

Company _____

Street _____

City _____ State _____ Zip _____

Phone _____

Email _____

AIA member number if applicable _____

1. Your title/Function

- CEO/President
- Principal/Director/VP
- Project Manager
- Project Architect
- Interior Designer
- Business
- Manager/Controller
- Designer
- Facility Manager
- Specifier
- Student
- Other _____

2. Firm Type

- Architecture
- Educational
- A/E or E/A
- Healthcare
- Building Products
- Building Services
- Landscape Architecture
- Interior Design/Space Planning
- Specifying/Cost Estimating
- Planning/Urban Design
- Facility Management
- General Contractor
- Government
- Real Estate Development
- Academia/Educational
- Institution
- Marketing/PR
- Finance
- Other _____

3. Number of Employees

- 1-10
- 11-25
- 26-50
- More than 51

4. Specifying Role

- Make final decision
- Recommend
- No Role

5. Firms Work

- Medical Office Building
- Hospital
- Commercial
- Government
- Nursing Home
- University/Schools
- Other _____

6. I am a Member of

- AIA
- ACEC
- ASHRAE
- BOMA
- BSLA
- NESEA
- USGBC
- Other _____
- ABC
- AGC
- ASID
- BSA
- CSI
- NEWIRE
- None

March 15
Early Bird/Late

1. Admission to Exhibit Hall

- Exhibit Hall

\$0/\$15

2. Individual Workshops

Includes 1 Drink Ticket for Networking Reception

\$65/\$80

Tuesday

T11	T21	T31	T41	T51
T12	T22	T32	T42	T52
T13	T23	T33	T43	T53
T14	T24	T34	T44	T54

Wednesday

W11	W21	W31	W41	W51
W12	W22	W32	W42	W52
W13	W23	W33	W43	W53
W14	W24	W34	W44	W54

3. 2-Day Package

- April 1st & 2nd

Includes 2 Lunches & 2 Drink Tickets

\$525/\$575

4. Tuesday Day Pass

- April 1st

Includes Lunch & 2 Drink Tickets

\$275/\$300

5. Wednesday Day Pass

- April 2nd

Includes Lunch & 2 Drink Tickets

\$275/\$300

6. Complimentary Workshops

Must pre-register to attend – Seats are limited for complimentary sessions

Free

C1 C2 C3

7. Receptions

- Networking Reception, Tuesday 5:30 - 6:30

Free

Payment

MED-Ed reserves the right to adjust any total charges due to form errors.

Total Cost (Sums of 1 through 7) \$ _____

Promotional Code _____ \$ _____

Total Amount Due \$ _____

Payment type:

- Cash
- Check

Select type of Card:

- Amex
- Visa
- MasterCard
- Discover

Credit Card Number _____

Credit Card Expiration Date _____

Security Code _____

Name exactly as printed on card

Fax to 508-790-4750 or mail to:

MED-Ed Facilities

1645 Falmouth Road, Suite 1A

Centerville, MA 02632

On-line at www.mededboston.com

MEDED FACILITIES

1645 Falmouth Road, Suite 1A
Centerville, MA 02632



For everyone who designs, constructs owns or operates schools, universities and any type of healthcare facilities

Route to:

CEO/President
Principal/Director/VP
Project Manager
Firm Administrators
Landscape Architects
Interior Designer
Business Manager/Controller
Designers

Project Managers
Public Agency Professionals
Real Estate Professionals
Space Planners
Specifiers
Subcontractors
Urban Designers
Young Professionals

Workshop discounts and free admission to the exhibit hall if you register by March 15, 2014

April 1-2, 2014
Seaport World Trade Center Boston
Register today at www.mededboston.com



Architects Earn your continuing education and AIA/CES Learning Units (LUs) in two days