AIA PITTSBURGH’S
13TH ANNUAL
CONTINUING EDUCATION
CONFERENCE
AND EXHIBITOR SHOW
MAY 8TH 2014

DAVID L. LAWRENCE CONVENTION CENTER
1000 Ft. Duquesne Boulevard, 3rd Floor West Atrium,
Pittsburgh, PA 15222
REGISTRATION

Your continuing education is important to us. We continually strive to make Build Pittsburgh℠ affordable and relevant to all of our members. Whether you are a sole practitioner or a large firm, our programming has been developed to enhance your profitability and viability, and it is our hope that the pricing options provide flexibility for all of our attendees.

REGISTRATION OPTIONS

Member Pricing
Member pricing is extended to all AIA, CSI, and GBA members, and to AIA Pittsburgh’s Industry Partners.

Full Package
HUGE SAVINGS!
Full packages include the keynote address and continental breakfast, four sessions, lunch, and the evening reception.
Online registration is available for this option at www.aiapgh.org.

Associate Member Discount
A discounted full-package fee will be offered to Associate AIA members. These are architect members of the AIA who are not yet licensed.
Online registration is available for this option.

A la Carte
Signup for individual sessions if you are unable to attend a full day.
Online registration is available for this option.

Firm Incentive Packages
For every five full packages purchased, your firm will receive one free full package. To receive this incentive, you MUST submit the registration form directly to AIA Pittsburgh for registration. This option is not available through online registration.
See registration order form for more details.

Complimentary Admission for Unemployed Architects
If you are an unemployed architect, you are eligible for a conference fee waiver. To receive this waiver, you MUST submit the registration form directly to AIA Pittsburgh for registration. This option is not available through online registration.
See registration order form for more details.

WEB
www.aiapgh.org
Not available for Firm Incentive Packages or Unemployed Architects

MAIL
AIA Pittsburgh
The Bruno Building
945 Liberty Avenue, Unit 3
Pittsburgh, PA 15222
Accepting ALL registration options

FAX
412.471.9501
Accepting ALL registration options
**REGISTRATION**  Pre-event registration ends May 2, 2014.

Company Contact:  
Company:  
Address:  
Email:  
Phone:  

**PROGRAM FEES**

<table>
<thead>
<tr>
<th>Registration Options</th>
<th>Member</th>
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Complimentary Admission for Unemployed Architects

[ ] I am requesting a conference fee waiver due to unemployment. NO CHARGE

Online registration is not available for this option.

I am purchasing # Full Package(s) x $ = $
I am purchasing # Single Sessions(s) x $ = $
I am purchasing # Keynote Address & Continental Breakfast admission(s) x $ = $
I am purchasing # Lunch & Exhibitor Show ticket(s) x $ = $
I am purchasing # Reception admission(s) x $ = $

TOTAL AMOUNT DUE = $

**Firm Incentive Packages**

Purchase five full packages, get one free!

I am purchasing # (multiples of five) full packages and will receive free full packages.

Please photocopy a completed form for all attendees (see SESSION SELECTION), indicating which sessions they will be attending. Online registration is not available for this option.

If paying by credit card:  
[ ] Amex  
[ ] Discover  
[ ] MasterCard  
[ ] Visa  
Make checks payable to AIA Pittsburgh

Credit Card #  
Expiration Date  
Security Code

Signature

**SESSION SELECTION**  Please preselect all sessions by circling them below.

Please submit one completed course selection form for each participant. You may photocopy this form for multiple registrants.

**Attendee:**

**SESSION ONE**

**BP1:** The U.S. Steel Tower: Scaffolding Tenant and Landlord Efficiencies in a Landmark Building

**DI1:** Digital Fabrication: Bridging the Gap Between Designing and Making

**L1:** Building Next-Generation Leadership

**P1:** Managing Design and Contract Administration Services: Proactive Steps to Resolve Project Issues and Manage Claims

**SESSION TWO**

**BP2:** BIM as a Tool for Energy/Daylight Performance Modeling

**D2:** Passive House Strategies: Affordable and Effective for Nearly Any Building Type

**L2:** Crafting a Results-Based Participatory Planning Process for Clients and Communities

**P2:** Cloud-Based Collaboration and Management Tools

**SESSION THREE**

**BP3:** Building Occupant and Performance Measurement: Setting Standards and Measuring Results for Research-Based Design

**D3:** Code Highlights: Energy, Accessibility, and Existing Building

**L3:** A New Concept in Practice: Leading the Delivery Process

**P3:** Profit: A Small Margin for Error

**SESSION FOUR**

**BP4:** Applying the AIA +2030 Series Strategies

**DI4:** Working through It: Insulation, Air Barriers, and NFPA 285

**L4:** Knowledge-Based Practice and the T-Shaped Architect

**P4:** Leveraging Big Data for Greater Certainty and Improved Value
COURSE SCHEDULE AT A GLANCE

7:00 A.M.  REGISTRATION  7:00-8:00 A.M.

8:00 A.M.  KEYNOTE ADDRESS  8:00-9:00 A.M.

New Administration: New Opportunities

9:00 A.M.  SESSION ONE  9:30-10:30 A.M.  Choose 1

BP1: The U.S. Steel Tower: Scaffolding Tenant and Landlord Efficiencies in a Landmark Building
D1: Digital Fabrication: Bridging the Gap Between Designing and Making
L1: Building Next-Generation Leadership
P1: Managing Design and Contract Administration Services: Proactive Steps to Resolve Project Issues and Manage Claims

10:00 A.M.  BREAK  10:00-11:00 A.M.

11:00 A.M.  SESSION TWO  11:00 A.M.-12:20 P.M.  Choose 1

BP2: BIM as a Tool for Energy/Daylight Performance Modeling
D2: Passive House Strategies: Affordable and Effective for Nearly Any Building Type
L2: Crafting a Results-Based Participatory Planning Process for Clients and Communities
P2: Cloud-Based Collaboration and Management Tools

12:00 P.M.  LUNCH & EXHIBITOR SHOW  12:00-1:30 P.M.

The Build Pittsburgh 2014 Exhibitors, our sponsors, are available to show you their latest products and services.

1:00 P.M.  LUNCH & LEARNs  12:30-1:30 P.M.

Grab some lunch and earn another learning unit for free! Select exhibitors, who are also registered AIA/CES providers, will be available to provide our attendees with a one-hour program. No need to pre-register. You may sign-up on the spot.

2:00 P.M.  SESSION THREE  1:45-3:15 P.M.  Choose 1

BP3: Building Occupant and Performance Measurement: Setting Standards and Measuring Results for Research-Based Design
D3: Code Highlights: Energy, Accessibility, and Existing Building
L3: A New Concept in Practice: Leading the Delivery Process
P3: Profit: A Small Margin for Error

3:00 P.M.  BREAK  3:15-3:45 P.M.

3:45 P.M.  SESSION FOUR  3:45-5:15 P.M.  Choose 1

BP4: Applying the AIA +2030 Series Strategies
D4: Working through It: Insulation, Air Barriers, and NFPA 285
L4: Knowledge-Based Practice and the T-Shaped Architect
P4: Leveraging Big Data for Greater Certainty and Improved Value

5:00 P.M.  RECEPTION & EXHIBITOR SHOW  5:30-7:30 P.M.
BUILD PITTSBURGH 2014  MAY 8TH
WE ARE DOING THINGS
A LITTLE DIFFERENTLY THIS YEAR...

WHAT WE DID:
AIA Pittsburgh took a new, more in-depth approach to this year’s continuing education planning. We scheduled brainstorming sessions and designed surveys because we wanted to know exactly what our members wanted to learn in 2014!
All courses offered at Build Pittsburgh 2014 are based directly off of member feedback and the results of our continuing educational needs assessment.

WHAT WE HEARD:
The message was clear: Our members want to be able to better identify business and leadership opportunities to get and retain work; keep and/or get better control of their practice, people, and partnerships to maximize profitability; and effectively communicate to clients the value they bring to the project through skills, expertise, and knowledge.
With more than 450 responses, there was one response that dominated throughout this entire process, which was the need to know the opportunities that will be available under the new mayoral administration. Therefore, this year’s keynote address will give our audience a chance to find out exactly what the new administration can offer local design/build professionals.

KEYNOTE ADDRESS
8:00–9:00 a.m.  1 LU Hour

New Administration: New Opportunities

New mayors bring new vision. The mayor depends on his staff to carry out his vision, and build a better future for our city. For architects and design professionals, City Planning and the Bureau of Building Inspections (BBI) are the two departments whose function and direction greatly affect their day-to-day practice and future projects.
Join us for this year’s keynote address titled “New Administration: New Opportunities.” The newly appointed directors of City Planning and BBI will be on hand to share their visions for their respective departments; address existing issues and proposed solutions; and discuss anticipated outcomes and a timetable for their proposed departmental changes, including the planned involvement of the design community to help inform these changes.
BUILDING PERFORMANCE

Building Performance focuses on systems integration, materials and methods, operations, and metrics of a viable building that contributes to healthy work and living spaces.

SESSION 1
BP1 9:30–10:30 a.m.  1 LU/HSW Hour

The U.S. Steel Tower: Scaffolding Tenant and Landlord Efficiencies in a Landmark Building
Presenter: Marc Mondor, AIA, LEED Faculty, evolveEA

At more that 3 million square feet, the U.S. Steel Tower constitutes roughly 5% of Downtown Pittsburgh’s office space. Starting in 2007, UPMC Health Systems, a major tenant with corporate headquarters, made an environmental commitment. Today, about 40% of the building’s square footage is LEED registered and certified for Commercial Interiors. Significant energy retrofits on the building and systems side have allowed the building to work toward BOMA 360 and Energy Star certification. These parallel efforts have led to the building’s signing on to the Pittsburgh 2030 District, a near-net-zero energy commitment for the Central Business District.

Join this case study to understand how repetitive floor scan can serve as a laboratory of ideas to discern evolving design and construction, and how landlord and tenant can divide responsibilities in the renovation of a building. Tenant-driven energy innovations in the context of a full-service lease and how to engage the larger Pittsburgh 2030 District through building benchmarking will also be discussed.

SESSION 2
BP2 11:00 a.m.–12:00 p.m.  1 LU/HSW Hour

BIM as a Tool for Energy/Daylight Performance Modeling
Presenters: Mark Dietrick, AIA, LEED AP, Case Technologies of PA, and Rudolph Marnich, LEED AP BD+C, Astorino

This course will provide an overview of integrated Building Information Modeling (BIM) tools that will simulate energy use, daylighting, and building efficiencies in order to assist with the early evaluation of sustainable strategies and optimize the design’s performance. A real-time demonstration of BIM tools will be presented, along with case studies illustrating how these and other tools have been used in practice, supporting a performance-based design process. With this information, participants will be able to recognize how early strategic planning decisions can have a long-term effect on building performance and energy use; become familiar with graphic modeling tools that help to illustrate and inform optimal daylighting strategies; and discover how performance-based design strategies may be achieved through simulation, helping to reduce energy use, and meet the AIA 2030 initiative.

SESSION 3
BP3 1:45–3:15 p.m.  1.5 LU/HSW Hours

Building Occupant and Performance Measurement: Setting Standards and Measuring Results for Research-Based Design
Presenters: Steve Orfield and Wes Chapman, Orfield Laboratories, Inc.

Through presentations of case studies of the Olmstead County, MN, Community Services Department office building, and an elderly housing project in Iowa, the theory and practice of certified building performance standards, certified building performance measurement, and architectural dynamics will be presented and examined. Participants will gain an understanding of the current state of architectural research, and be introduced to the concept of certified building performance standards, certified building performance measurements, and architectural dynamics, which will all be illustrated through case study presentations.

SESSION 4
BP4 3:45–5:15 p.m.  1.5 LU/HSW Hours

Applying the AIA+2030 Series Strategies
Presenter: Marc Mondor, AIA, LEED Faculty, evolveEA

The AIA +2030 series has become the preeminent system for teaching design and construction professionals to deliver buildings that can meet net-zero energy goals. The series systematically demonstrates how goal setting, simulation, site planning, envelope, systems, and operations contribute to the creation of buildings that can meet the Architecture 2030 Challenge. This seminar will summarize AIA Pittsburgh’s recently completed series of 10 seminars, organized by the Committee on the Environment and delivered by regional practitioners and experts, and explain how it relates to the 2030 Commitment, the 2030 Challenge, Architecture 2030, and the Pittsburgh 2030 District. Attendees of this course will be able to learn about how the AIA +2030 series breaks projects into component parts from goal setting to design, simulation to construction to occupancy, and discuss case studies from the recently completed series so that they can apply these principles to their projects.
DESIGN

Design courses include project planning, either new building or existing, from concept design through design development and documentation.

SESSION 1
D1 9:30–10:30 a.m.  1 LU Hour

**Digital Fabrication: Bridging the Gap Between Designing and Making**

**Moderator:** Drew Weinheimer, Astorino  
**Panelists:** Jeremy Ficca, Digital Fabrication Lab, Carnegie Mellon University, and Matt Verlinich, TechShop

As the use of Building Information Modeling (BIM) continues to expand within the architecture, engineering, and construction industries, we are witnessing an unprecedented transformation of traditional architectural and construction processes. We are relying more heavily on virtual building prototypes as aggregators of knowledge and vehicles of communication throughout the project life cycle, and lines are beginning to blur between design and construction as we share information and collaborate more freely.

At the same time, technological advancements are occurring rapidly within materials science and manufacturing that allow for automated fabrication or 3D printing of more complex forms, both as scale mock-ups and as full-scale building parts and assemblies directly from our Building Information Models.

Presenters of this session will illustrate how new emerging technologies allow for fabricating building components and scale mock-ups directly from digital models; explore the implications that this technology may have on the future of design and construction; and discuss the specific process of utilizing common Building Information Models to create digital prototypes, as well as the resources that are available to get involved in this process. Learn about how the convergence of these trends is beginning to transform our industry.

SESSION 2
D2 11:00 a.m.–12:00 p.m.  1 LU/HSW Hour

**Passive House Strategies: Affordable and Effective for Nearly Any Building Type**

**Presenters:** Laura Nettleton, AIA, Thoughtful Balance, Inc., and Michael Wharnaby, Thoughtful Balance, Inc.

The passive house concept represents a substantial decrease in a building’s heating energy consumption. By employing “passive” strategies such as an airtight building envelope, increased insulation, high performance windows, and increased ventilation and solar energy, minimum “active” systems are required. The resultant mechanical system is able to provide an inviting comfort level as well as a constant supply of fresh air. This course will focus on passive house strategies and the challenges involved in adaptive reuse and new construction by looking at both commercial and residential projects across an array of building types.

SESSION 3
D3 1:45–3:15 p.m.  1.5 LU/HSW Hours

**Code Highlights: Energy, Accessibility, and Existing Building**

**Moderator:** Dina Snider, AIA, LEED AP BD+C, Strada Architecture LLC  
**Presenters:** Jim Bruwelheide, Code.sys Code Consulting, Inc.; Erik Harless, MCP, City of Pittsburgh; and Henry A. Hegerle, PE, Code Consultant

This seminar will address some of the common code issues related to the 2009 International Energy Conservation Code (2009 IECC), accessibility codes, and 2009 International Existing Building Code (2009 IEBC). In addition to explaining the basics of the 2009 IECC, presenters will discuss the common oversights related to the accessibility codes and common project issues that arise when using the 2009 IECC. Also, a City of Pittsburgh Master Code Professional will be on hand to highlight code issues that are encountered during the design process for renovation projects that utilize the 2009 IEBC.

SESSION 4
D4 3:45–5:15 p.m.  1.5 LU/HSW Hours

**Working through It: Insulation, Air Barriers, and NFPA 285**

**Moderator:** Jeff Light, AIA, MacLachlan Cornelius & Filoni  
**Presenters:** Pete Eritano, Construction & Maintenance Solutions, LLC; Gary Gardner, AIA, Bayer MaterialScience; and Kris Kennedy, Florida Consulting, LLC

Insulation and air barriers are increasing in number, and the rhetoric regarding what is required and when can be misleading. This course will first discuss the importance of NFPA 285 and then discuss a thought process on how to work through continuous insulation and air barrier assemblies to best meet the requirements of NFPA 285 as well as thermal performance and air barrier requirements.

Upon completing this course, attendees will be able to better select a complete insulation and air barrier assembly. Additionally, they will be able to understand the relationship of Chapter 26 of the International Building Code regarding insulation, air barriers, and their requirements for testing NFPA 285; the relationship between increased R values and moisture issues; and the detailing issues in a complete system.
LEADERSHIP

Leadership is knowledge that inspires change and transformation in thinking and practice in regard to issues of society, firms, and organizational entities.

SESSION 1
L1 9:30–10:30 a.m.  1 LU Hour

Building Next-Generation Leadership
Presenters: Tami Greene, AIA, IKM Incorporated, and Michael P. McDonnell, AIA, IKM Incorporated

This course will focus on the key elements of talent identification and development, as well as the training necessary to build the next group of firm and industry leaders. Participants will gain an understanding of where leaders come from and what it takes to become a leader, the tools available to those seeking leadership roles and those seeking leaders, and the keys to succession planning.

SESSION 2
L2 11:00 a.m.–12:00 p.m.  1 LU Hour

Crafting a Results-Based Participatory Planning Process for Clients and Communities
Presenters: Ken Doyno, AIA, LEED AP, Rothschild Doyno Collaborative; Tiffany E. Haile, AICP, LEED AP BD+C, IDC Architects; and Ivette Mongalo-Winston, AICP, LEED AP, Mongalo-Winston Consulting, LLC

Meaningful citizen and client participation is a key part of any well-designed project. Yet building a meaningful engagement process is often a secondary consideration to physical design. Committing to and crafting a transparent process that engages all relevant stakeholders and the community in an authentic manner often leads to improved results, expedited approval processes, and a greater commitment to implementation.

Presenters of this course will discuss the importance of community engagement as a critical component of the design process; explore considerations when developing an outreach or engagement plan that is appropriate to your project context; and identify tools and methods for increasing participation throughout the process, particularly for disenfranchised populations in the community context.

SESSION 3
L3 1:45–3:15 p.m.  1.5 LU Hours

A New Concept in Practice: Leading the Delivery Process
Presenters: Ron Dellaria, CSI, DBIA, Astorino, and Mark Dietrick, AIA, LEED AP, Case Technologies of PA

Recognizing a need for change to address demands for more efficiency, project complexities, and sustainable results, the AEC industry is slowly transitioning to more integrated project delivery (IPD) methods, fostering more collaboration. Concurrently, some firms are leveraging the benefits of BIM’s emerging technology to not only work smarter, but to ultimately facilitate this change in the way projects are delivered.

The slow progression of this transition is often linked to those practitioners that are resisting the required cultural shift in the way designers practice. Risk acceptance, traditionally the architect’s biggest nightmare, may be the key reason for this ambivalence, yet this attitude also prevents potential reward. Presenters of this course will review the principles of IPD and collaboration and discuss why they may intimidate design professionals. Additionally, new approaches that integrate present at-risk contracts to a more collaborative, shared risk/reward approach will also be addressed. To that end, the presenters will demonstrate how architects have an opportunity to participate in this collaborative project orchestration, potentially differentiating themselves in today’s competitive project climate.

SESSION 4
L4 3:45–5:15 p.m.  1.5 LU/HSW Hours

Knowledge-Based Practice and the T-Shaped Architect
Facilitator: F. Jeffrey Murray, AIA, IDC Architects/CH2M HILL
Presenters: Marilee Lloyd, AIA, IDC Architects/CH2M HILL; Michael Maisie, AIA, Bohlin Cywinski Jackson; and Ed Shriver, FAIA, CCS, Strada Architecture LLC

Architects have traditionally been generalists, but in an increasingly complex and specialized world, many firms and individuals demand more specialized knowledge and expertise in order to thrive. Clients increasingly value innovation and expertise, based on either new knowledge or old knowledge seen in new ways. Many leading firms are seeking to differentiate by developing their own structured research programs and hiring specialists.

This course explores the value of knowledge and expertise, both generalized and specialized, to firms that want to advance their practice and individuals who want to advance their careers. Presenters will discuss their personal experiences as subject matter experts in their respective areas, and the positive impact this expertise had on their practice and careers.
PRACTICE

Practice track courses address processes, procedures, and policies involved in running a firm and/or managing projects and may include discussions regarding safe and sustainable built environments, project delivery systems, contracts and agreements, intellectual property, ethics, and risk management as they are practiced within firms, corporations, government agencies, and other organizations.

SESSION 1
P1 9:30–10:30 a.m.  1 LU/HSW Hour
Managing Design and Contract Administration Services: Proactive Steps to Resolve Project Issues and Manage Claims

Presenters: Michael J. Cremonese, Esq., Burke Cromer Cremonese LLC, and Eric O. Pempus, AIA, LEED GA, Oswald Companies

Design and construction phase services include multiple duties and responsibilities, all of which should be documented in the regular course of project management. Proper documentation of a project manages the design professional’s, the project owner’s, and to some extent the public’s interests and risks. Proper documentation also reduces the design professional’s professional liability insurance costs.

This seminar will discuss the importance and types of project documentation and outline tools and strategies for proper documentation of a successful project from design through construction contract administration.

SESSION 2
P2 11:00 a.m.–12:00 p.m.  1 LU Hour
Cloud-Based Collaboration and Management Tools

Moderator: Conor Ryan, ARC Document Solutions
Panelists: William S. Derence, MBA, CM-BIM, Mascaro Construction Company, and John Lingley, LEED BD+C, Perkins Eastman

There is an incredible buzz around emerging cloud computing applications and information mobility but little understanding of what comprises them and how they may best be utilized to enable collaborative project delivery processes.

This panel conversation will present a practical introduction to the components, benefits, and business objectives of project collaboration using cloud-based and information mobility applications highlighted through project case studies. Special attention will be given to the “must-have” features, best practices, and requirements to effectively implement such applications.

SESSION 3
P3 1:45–3:15 p.m.  1.5 LU Hours
Profit: A Small Margin for Error

Presenter: Stephen McCarron, First Federal Savings Bank

Businesses that aren’t profitable fail. In the professional design industry, open discussion of fees, profit, and associated margins is discouraged by general counsel and practically taboo. But in a climate where margins must be competitive, it is necessary to understand the law that governs them, the methods and technologies available to calculate them, and the factors that influence them.

Join this session to gain a better understanding of the Sherman Antitrust Act and the shifting legal climate of fee structures. Learn how to calculate your firm’s critical numbers, identify trends that impact profit margins, and explore the technologies available to assist professionals in profit tracking.

SESSION 4
P4 3:45–5:15 p.m.  1.5 LU Hours
Leveraging Big Data for Greater Certainty and Improved Value

Presenter: Mark S. Sands, PE, Performance Building Systems

This course will illustrate how the outcomes for complex projects, including costs, can be easily modeled and measured, even in the early planning stages if there is well-structured data available from completed projects. Emerging big data analytics technologies are capable of capturing massive amounts of information about existing facilities and structures and analyzing it in ways that predict the outcomes of proposed facilities based on common attributes. The age old axiom “that which gets measured gets improved” then takes root, leading to process and performance improvement.