



BUILDING OPERATING MANAGEMENT'S
NFMT High-Performance
BUILDINGS

2015

DIRECTORY

conference information **4** | expo information **26** | maps **38** | nfmt.com/highperformance



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Welcome,

Last winter, leaders in the commercial facilities community gathered in New York City to discuss the need for a greater focus on high-performance buildings. Featuring representatives from federal government, engineering firms, hospitals and laboratories, corporate offices and property management companies, the group immediately tackled how to best define a high-performance building, and identify the criteria by which a building earns high-performance status.

The roundtable acknowledged that the very term “high-performance” can mean different things to different facility markets, and to different organizations as well. The group also agreed that the time was right for a wide-ranging conversation among all facility stakeholders—FMs, engineers, owners and architects. And so, that vision that was first discussed on a cold day in Manhattan has been brought to life in Ft Worth, and we are pleased to welcome attendees, speakers and exhibitors to the inaugural **NFMT High-Performance Buildings Conference and Expo**.

In the coming days, our goal is to provide you with the tools and technologies to make your buildings greener, smarter, and better—and to ensure your buildings’ performance well into the future. We are thrilled to welcome more than 30 industry experts to delve into the topics of energy management, ROI, commissioning, water efficiency, codes and compliance, building envelope and more. A special thanks is due to our advisory board who provided structure and direction to our education program; we are fortunate to have several board members on this week’s agenda, including **Jay Black, Jasmine Amaso, Jim Newman, and Jim Sinopoli**.

In addition to the HPB conference sessions, we have tapped several industry suppliers for quick and incisive overviews on key high-performance trends and solutions. Make sure you visit the **High-Performance Theater**, located on the HBP exhibit floor to experience these technologies and solutions first hand.

Thank you for being here—and thanks in advance for feedback and suggestions you might have to make our next HPB conference the most beneficial it can be.

Best Regards,



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SHOW HIGHLIGHTS

BOMI BREAKFAST

Tuesday, 8:00 – 9:00 a.m.

Room 101

Advanced registration is required.

NETWORKING RECEPTION

Tuesday, 3:00 – 4:00 p.m.

Exhibit Hall

Join your fellow industry experts in celebrating the first day of **NFMT High-Performance Buildings**. Meet and connect with others while enjoying free appetizers and cocktails on the exhibit floor.

\$500 GRAND PRIZE DRAWING

Exhibit Hall

It pays to spend time in the Exhibit Hall in multiple ways...this one pays in cash! We will have two drawings:

Tuesday at 3:45 p.m.

Wednesday at 2:15 p.m.

In addition, the winner will receive a free, one year membership to **NFMT** members. The drawing will take place on the grand prize stage, booth #614, and you must be present to win. Good luck!

VIP PIN PROGRAM

Exhibit Hall

These pins have the power to win you \$50! Make sure to pick yours up at the **NFMT High-Performance Buildings booth #503**. Wear your pin and connect with any of the exhibitors in the Exhibit Hall for your chance to win cash on the spot. The undercover High-Performance Buildings Prize Team will select winners at random.

LET US BUY YOU LUNCH!

Exhibit Hall

Take a short break from browsing the exhibit floor and redeem your complimentary \$5 off lunch coupon. The coupon is only redeemable at the HPB Cafe located inside of the exhibit hall.

TOURS

We are excited to be able to offer two tours this year. Attendees have the opportunity to take a close look at the physical plant that supports the convention center or a behind the scenes look at the Fort Worth Convention Center. Tours are available to those who registered in advance and will take place Wednesday, June 3 at 2:45 and 3:45 p.m.

SOCIAL MEDIA

We truly appreciate hearing feedback, so don't be shy! Share your thoughts and opinions of NFMT High-Performance Buildings. Follow us to stay up to date on all high-performance building related information, specific **NFMT High-Performance Buildings** show details and a whole lot more. #NFMTHPB



SCHEDULE

MONDAY

1:00 – 5:00 pm

High-Performance Workshops

TUESDAY

8:00 – 10:15 am

Conference Sessions

10:25 – 10:55 am

High-Performance Perspectives

11:00 – 11:50 am

Conference Sessions

Noon – 4:00 pm

Exhibit Hall Open

3:45 pm

\$500 Daily Drawing

3:00 – 4:00 pm

Networking Reception

WEDNESDAY

8:00 – 9:50 am

Conference Sessions

10:00 – 10:30 am

High-Performance Perspectives

10:35 – 11:25 am

Conference Sessions

11:30 am – 2:30 pm

Exhibit Hall Open

2:15 pm

\$500 Daily Drawing

2:45 – 4:35 pm

Conference Sessions

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SESSIONS BY TRACK

CODES, REGULATIONS & RATING SYSTEMS

It's often said that codes and regulations set the floor and rating systems set the ceiling when it comes to language about high-performance buildings. This track dives into existing and emerging regulations and standards specific to high-performance buildings, and outlines key considerations when planning a project to meet or exceed local and national codes.

- T1.01** bEQ: The Drive Toward Better Performance
- T3.01** Energy Benchmarking and Transparency Laws: Increasing the Demand for High-Performance Buildings
- W1.01** Energy Efficiency Standards and Green Building Certification Systems Used by the DOD
- W1.04** The Whole Building Design Guide: A High-Performance Primer
- W2.01** Sustainable Water Use and Green Plumbing Codes
- W3.01** How Changes to the International Building Code Affect High-Performance Design and Construction

ENERGY-EFFICIENT OPERATIONS & MAINTENANCE

This track highlights opportunities for improving operations and maintenance of existing buildings, designing high performance new buildings, and finding ways to deal with the split incentives that can occur between owners and the tenants of the building and finding capital that isn't always readily available for efficiency improvements.

- PC1** Optimizing Efficiency: High-Performance Strategies for New and Existing Buildings
- PC2** Facility Risk Assessment
- T1.02C** Full-Spectrum Energy Management
- T2.02C** Total Building Commissioning and Performance
- T3.02A** Energy Dollars Out the Window ... and the Walls and Roof?
- T3.02C** San Antonio Federal Building Case Study
- W2.02C** High-Performance Buildings Require High-Performance Environments
- W3.02C** CHP for High-Performance Commercial Buildings
- W4.01** Energy Savings Performance Contracting: For Educated Buyers Only

HIGH-PERFORMANCE PERSPECTIVES

These sessions feature quick, impactful discussions of technologies and strategies that facility professionals can implement to create and sustain a high-performance building. Delivered by solution providers, and vetted by our conference committee, HP Perspectives are 30 minutes long and address an array of emerging concepts to elevate facility performance, operations and optimization.

- TP201** Fault Detection and Diagnosis: Keys to Smart Building Operations
- TP202A** The Internet of Light
- TP202C** Underfloor Air Distribution: Lessons Learned
- TP203** Risk Assessment: A Case Study
- TP204** The Energy (and Non-Energy) Benefits of Window Replacement
- WP201** Energy Storage Benefits for High-Performance Buildings
- WP202A** The Benefits of Incorporating Wireless Solutions into Existing Buildings

- WP202C** Energy Management Systems and Facility Financial Health
- WP203** Continuous Insulation and Air Barriers for High-Performance Buildings Envelope
- WP204** Water Matters More

HIGH-PERFORMANCE TECHNOLOGIES

Whether defined as a LEED-certified building that is energy and water efficient, or a people-friendly facility that earns high marks from occupants for creature comforts, a high-performance building requires specific technologies to operate optimally. This track highlights high performance products – from chillers to lighting to fire and life safety systems to plumbing – that enhance building systems and buildings.

- T1.02A** Increasing Facility Resilience
- T1.04** Five Rules for Speaking with the CEO and CFO
- T2.02A** Water Efficiency: Best Practices
- W1.02A** The Cloud Has Walls: Technology and Productivity in the New Workplace
- W2.04** Holistic Commissioning: A Collaborative Approach for New and Existing Buildings
- W3.02A** Technology Roadmap for High-Performance Buildings
- W4.02A** Ensuring United States Competitiveness in the Facilities and Infrastructure Industries

SMART BUILDINGS

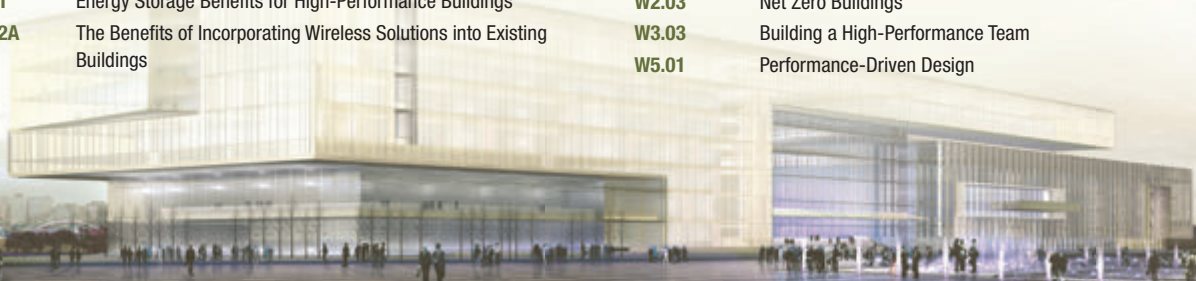
In the three decades since the term “smart building” was coined, the concept has evolved from a vague term to a more narrow definition that includes automation and improved control over various building systems. This track defines smart building concepts and offers examples of best practices in automation, data gathering, occupant behavior and monitoring.

- T2.04** Data Management & Analytics
- T3.04** Defining a High-Performance Building
- W3.04** Building Controls: Smart Building Tools
- W4.03** A Day in the Life: Changing How We Think About Space, Place and Time
- W4.04** How Smart Buildings Cut Labor Cost

SUSTAINABLE DESIGN & CONSTRUCTION

In recent years, there has been a shift in the facilities marketplace, shifting the concept of sustainability from a choice to a responsibility. This track identifies advances in the production and availability of sustainable building materials, better and clearer documentation of certification programs, and the ongoing integration between sustainable, energy-efficient and occupant-friendly design.

- T2.03** ROI Bundling: The Sum of the Parts is Better as a Whole
- T3.03** Sustaining Sustainable Operations
- W2.03** Net Zero Buildings
- W3.03** Building a High-Performance Team
- W5.01** Performance-Driven Design





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NFMT High-Performance Buildings is authorized by IACET to offer 0.1 CEUs for each conference session, with the exception of the 30-minute High-Performance Perspective sessions.

PREREQUISITES:

There are no prerequisites for this program. Anyone is allowed to register and attend.

SATISFACTORY REQUIREMENTS FOR CEU:

(the following requirements are mandatory to receive the IACET CEUs offered)

- » You must be scanned into the session.
- » You must be present for over 90% of the conference session.
- » You must successfully answer at least 70% of the learning outcome assessment questions which will be administered via email at the conclusion of the conference.

HSW: All **High-Performance Buildings** sessions that qualify for CEUs also qualify as Health, Safety and Welfare. This will be indicated on your CEU transcript.

Self-report to the appropriate professional organization using your **NFMT High-Performance Buildings** CEU transcript generated after successfully completing the assessment. **NFMT High-Performance Buildings** will not be reporting to any organizations on your behalf.

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QUESTIONS?

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SCHEDULE AT-A-GLANCE

MONDAY

1:00 PM – 5:00 PM

Room Course Session Title

201	PC2	Facility Risk Assessment
202C	PC1	Optimizing Efficiency: High-Performance Strategies for New and Existing Buildings

TUESDAY

8:00 AM – 9:15 AM

Room Course Session Title

201	T1.01	bEQ: The Drive Toward Better Performance
202A	T1.02A	Increasing Facility Resilience
202C	T1.02C	Full-Spectrum Energy Management
204	T1.04	Five Rules for Speaking with the CEO and CFO

9:25 AM – 10:15 AM

Room Course Session Title

202A	T2.02A	Water Efficiency: Best Practices
202C	T2.02C	Total Building Commissioning and Performance
203	T2.03	ROI Bundling: The Sum of the Parts Is Better as a Whole
204	T2.04	Data Management & Analytics

10:25 AM – 10:55 AM

Room Course Session Title

201	TP201	Fault Detection and Diagnosis: Keys to Smart Building Operations
202A	TP202A	The Internet of Light
202C	TP202C	Underfloor Air Distribution: Lessons Learned
203	TP203	Risk Assessment: A Case Study
204	TP204	The Energy (and Non-Energy) Benefits of Window Replacement

11:00 AM – 11:50 AM

Room Course Session Title

201	T3.01	Energy Benchmarking and Transparency Laws: Increasing the Demand for High-Performance Buildings
202A	T3.02A	Energy Dollars Out the Window ... and the Walls and Roof?
202C	T3.02C	San Antonio Federal Building Case Study
203	T3.03	Sustaining Sustainable Operations
204	T3.04	Defining a High-Performance Building

12:00 – 4:00 PM: **EXPO HALL OPEN**

3:00 – 4:00 PM:

NETWORKING PARTY IN THE EXPO HALL

3:45 PM: **\$500 DAILY DRAWING Booth 614**

WEDNESDAY

8:00 AM – 8:50 AM

Room Course Session Title

201	W1.01	Energy Efficiency Standards and Green Building Certification Systems used by the DOD
202A	W1.02A	The Cloud Has Walls: Technology and Productivity in the New Workplace
204	W1.04	The Whole Building Design Guide: A High-Performance Primer

9:00 AM – 9:50 AM

Room Course Session Title

201	W2.01	Sustainable Water Use and Green Plumbing Codes
202C	W2.02C	High-Performance Buildings Require High-Performance Environments
203	W2.03	Net Zero Buildings
204	W2.04	Holistic Commissioning

10:00 AM – 10:30 AM

Room Course Session Title

201	WP201	Energy Storage Benefits for High-Performance Buildings
202A	WP202A	The Benefits of Incorporating Wireless Solutions into Buildings
202C	WP202C	Energy Management Systems and Facility Financial Health
203	WP203	Continuous Insulation and Air Barriers for High-Performance Buildings Envelope
204	WP204	Water Matters More

10:35 AM – 11:25 AM

Room Course Session Title

201	W3.01	How Changes to the International Building Code Affect High-Performance Design and Construction
202A	W3.02A	Technology Roadmap for High-Performance Buildings
202C	W3.02C	CHP for High-Performance Commercial Buildings
203	W3.03	Building a High-Performance Team
204	W3.04	Building Controls: Smart Building Tools

11:30 AM – 2:30 PM: **EXPO HALL OPEN**

2:15 PM: **\$500 DAILY DRAWING Booth 614**

2:45 PM – 3:35 PM

Room Course Session Title

201	W4.01	Energy Savings Performance Contracting
202A	W4.02A	Ensuring United States Competitiveness in the Facilities and Infrastructure Industries
203	W4.03	A Day in the Life: Changing How We Think About Space, Place & Time
204	W4.04	How Smart Buildings Cut Labor Costs
	PPTour1	Fort Worth Convention Center Physical Plant Tour
	CCTour1	Fort Worth Convention Center Behind the Scenes Tour

3:45 PM – 4:35 PM

Room Course Session Title

201	W5.01	Performance-Driven Design
	PPTour2	Fort Worth Convention Center Physical Plant Tour
	CCTour2	Fort Worth Convention Center Behind the Scenes Tour

MONDAY	1:00 pm	Facility Risk Assessment	Optimizing Efficiency: High-Performance Strategies for New and Existing Buildings			
TUESDAY	8:00 am	bEQ: The Drive Toward Better Performance	Increasing Facility Resilience	Full-Spectrum Energy Management	Five Rules for Speaking with the CEO and CFO	
	9:25 am	Data Management & Analytics	Water Efficiency: Best Practices	Total Building Commissioning and Performance	ROI Bundling: The Sum of the Parts Is Better as a Whole	
	10:25 am	Fault Detection and Diagnosis: Keys to Smart Building Operations	The Internet of Light	Underfloor Air Distribution: Lessons Learned	Risk Assessment: A Case Study	The Energy (and Non-Energy) Benefits of Window Replacement
	11:00 am	Energy Benchmarking and Transparency Laws: Increasing the Demand for High-Performance Buildings	Energy Dollars Out the Window ... and the Walls and Roof?	San Antonio Federal Building Case Study	Sustaining Sustainable Operations	Defining a High-Performance Building
WEDNESDAY	8:00 am	Energy Efficiency Standards and Green Building Certification Systems used	The Cloud Has Walls: Technology and Productivity in the New Workplace	The Whole Building Design Guide: A High-Performance Primer		
	9:00 am	Sustainable Water Use and Green Plumbing Codes	High-Performance Buildings Require High-Performance Environments	Net Zero Buildings	Holistic Commissioning: A Collaborative Approach for New and Existing Buildings	
	10:00 am	Energy Storage Benefits for High-Performance Buildings	The Benefits of Incorporating Wireless Solutions into Existing Buildings	Energy Management Systems and Facility Financial Health	Continuous Insulation and Air Barriers for High-Performance Buildings Envelope	Water Matters More
	10:35 am	How Changes to the International Building Code Affect High-Performance Design and Construction	Technology Roadmap for High-Performance Buildings	CHP for High-Performance Commercial Buildings	Building a High-Performance Team	Building Controls: Smart Building Tools
	2:45 pm	Energy Savings Performance Contracting: For Educated Buyers Only	Ensuring United States Competitiveness in the Facilities and Infrastructure Industries	A Day in the Life: Changing How We Think About Space, Place and Time	How Smart Buildings Cut Labor Costs	Buildings Tours
	3:45 pm	Performance-Driven Design	Building Tours			

EDUCATION SESSIONS

■ MONDAY ■

1:00 - 5:00 pm

Energy-Efficient Operations & Maintenance

PC1 | Room: 202C

Optimizing Efficiency: High-Performance Strategies for New and Existing Buildings

Presenter(s): James L. Newman, CEM, LEED AP BD+C, ASHRAE OPMP, Managing Partner- Newman Consulting Group, LLC

Energy efficiency's key role in defining a high-performance building makes finding new ways to identify and achieve energy cost savings a priority throughout the entire building system. An effective strategy can help to uncover low- and no-cost measures to boost efficiency and reduce energy use. Attend this workshop to learn how to study, analyze and respond to the current state of building systems in both new and enterprise facilities, and identify common and not-so-common strategies to stretch your energy dollars. Covering topics from audits and retrocommissioning to PACE funding and Energy Star to dampers, drives, coils and controls, this presentation will address commonly missed opportunities to optimize the efficiency of the high-performance building, and save money in the process.

LEARNING OBJECTIVES:

1. Review underexplored areas of building systems for energy savings
2. Learn how to ensure that operations are getting the most efficiency
3. Understand the key considerations of ongoing commissioning or retrocommissioning for high-performance buildings
4. Analyze the benefits of programs such as PACE, Energy Star and ASHRAE BEQ

AUDIENCE: INTERMEDIATE | CEU: 0.4

Energy-Efficient Operations & Maintenance

PC2 | Room: 201

Facility Risk Assessment

Presenter(s): Paul Head, II, Senior Manager, Ernst & Young Construction & Real Estate Advisory Services; Michael B. Cowley, CPMM, President, CE Maintenance Solutions

Organizations are faced with risks in every aspect of their facilities and maintenance operations. Effectively mitigating risk requires the ability to identify, evaluate, prioritize and plan. This in-depth workshop offers a deep dive into FMEA - a tool/methodology to help identify risks affecting the high-performance CRE/FM/maintenance organization, determine risk exposure and prioritize remediation projects to reduce vulnerabilities while improving performance. Learn from experts on how to use a facility risk assessment to implement a risk management plan and how to develop, maintain and monitor risk action plans.

LEARNING OBJECTIVES:

1. State how to organize, classify and identify key areas of risk
2. Specify how to score risk within your organization
3. Be able to develop and prioritize a risk mitigation plan
4. Recognize how to establish controls and monitor risk

AUDIENCE: INTERMEDIATE | CEU: 0.4

■ TUESDAY ■

8:00 - 9:15 am

Codes, Regulations & Rating Systems

T1.01 | Room: 201

bEQ: The Drive Toward Better Performance

Presenter(s): James L. Newman, CEM, LEED AP BD+C, ASHRAE, OPMP, Managing Partner, Newman Consulting Group, LLC

Energy benchmarking for high-performance buildings is gaining momentum, and dozens of cities and states already require that buildings publicly share Energy Use scores. In most cases, EPA's Energy Star Portfolio Manager, or ASTM's BEPA Standard, together with ASHRAE's bEQ label (Building Energy Quotient), will form the basis for these scores. In this presentation, attendees will learn what information is required to create a building's Energy Use Index (EUI) or report card, how that information is collected, what the results (good or bad) can mean, and how improvements can be made - and which improvements don't cost a lot of money.

LEARNING OBJECTIVES:

1. Review the key elements of bEQ and Energy Star and the similarities and differences among them
2. Understand the Energy Use Index (EUI) and its background
3. Analyze methods to improve the rating of an existing building
4. Learn how to use the bEQ to your advantage, both from a functional and a marketing standpoint

AUDIENCE: INTERMEDIATE | CEU: 0.1

High-Performance Technologies

T1.02A | Room: 202A

Increasing Facility Resilience

Presenter(s): Michael Sweeney, PE, LEED, AP, Associate Principal, ARUP

Whether the risk comes from a flood or hurricane, an earthquake or a fire, facility professionals increasingly need to develop strategies to ensure that high-performance buildings are resilient — an especially challenging task, since no single template can be used across all facility types. This session will examine key concepts and concrete steps to develop a resilience strategy. Attendees will also learn why some risks are on the rise, discuss overlooked factors like accumulated risk, and review examples of resilience successes and failures.

LEARNING OBJECTIVES:

1. Review the role of resilience and resistance in an overall high-performance building-readiness strategy
2. Analyze the reasons that resilience is an increasingly urgent topic — and why that urgency will continue to rise
3. Learn how specific building systems — including the building automation system, the HVAC system, and the mass notification/emergency communication system — can make a building more resilient
4. Understand why effective operations and maintenance is an essential first step to resilience

AUDIENCE: INTERMEDIATE | CEU: 0.1

Energy-Efficient Operations & Maintenance

T1.02C | Room: 202C

Full-Spectrum Energy Management

Presenter(s): Fred Gerdes, SVP - Sales & Marketing; James Chemp, President, Chemp Energy Management, LLC

Typically, energy management programs are discussed with a very narrow focus. Some might discuss the most obvious demand-side programs such as lighting retrofit and HVAC projects. Others might discuss the supply-side programs. This session addresses all 12 aspects of an effective, full-spectrum energy management program. The session will also detail how to set up a successful program in your facility, and identify the key life cycle cost reductions and sustainability benefits.

LEARNING OBJECTIVES:

1. Understand the role of Full-Spectrum Energy Management to reduce life-cycle costs in both existing buildings and new facilities
2. Analyze first cost reductions, operating cost reductions, procuring rebates/incentives, etc.
3. Review your facility's environmental sustainability initiative
4. Learn how a facility organization can act as a responsible corporate citizen while saving significant amounts of money.

AUDIENCE: INTERMEDIATE | CEU: 0.1

High-Performance Technologies

T1.04 | Room: 204

Five Rules for Speaking with the CEO and CFO

Presenter(s): B. Alan Whitson, President, The Corporate Realty, Design & Management Institute

Learn how to win the competition for money inside your organization. Getting money for performance upgrades and end of life replacement projects is a constant battle inside any organization, but if you know the secrets you can get your fair share.

LEARNING OBJECTIVES:

1. Review how to talk CFO-Speak and when to speak like an engineer
2. Calculate how to structure a funding request that gets senior management's attention and approval
3. Clarify how to overcome the negative image of being a cost center and look like a profit center
4. State the secrets to making it easy for senior management to say yes to your projects

AUDIENCE: ADVANCED | CEU: 0.1

9:25 - 10:15 am

High-Performance Technologies

T2.02A | Room: 202A

Water Efficiency: Best Practices

Presenter(s): Bill Hoffman, Senior Technical Advisor, Water Management, Inc.

Water and wastewater costs are rising even faster than oil and electricity. At the same time, there are a multitude of code and standards changes in the pipeline that will impact how high-performance buildings can optimize the use of water going forward. There are proven ways to take charge of these rising costs and reduce the bottom line. This presentation will provide a summary of the key water-saving strategies that reduce costs and adhere to emerging regulations and codes.

LEARNING OBJECTIVES:

1. Learn how water and wastewater costs will increase even faster
2. Review changing codes and standards regarding water use
3. Understand what the facility manager can do to control these rising costs
4. Be able to identify where to go for professional help and financial assistance

AUDIENCE: INTERMEDIATE | CEU: 0.1

Energy-Efficient Operations & Maintenance

T2.02C | Room: 202C

Total Building Commissioning and Performance

Presenter(s): Bill Conley, RWC, President/Principal-in-charge, Conley Group

Initially used to describe the process by which an HVAC system was tested and balanced, today's definition of total building commissioning comprises the spectrum of all building systems, and provides a holistic approach to reducing energy use and greenhouse gases, increasing occupant comfort and health, and improving equipment reliability and life cycle. Learn the critical components of a successful total building commissioning process and its impact on sustainable building performance.

LEARNING OBJECTIVES:

1. Review the key elements of a commissioning project
2. Understand the benefits of total building commissioning
3. Apply commissioning data to leverage overall building performance

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainable Design & Construction

T2.03 | Room: 203

ROI Bundling:

The Sum of the Parts Is Better as a Whole

Presenter(s): Brenna Walraven, President & CEO, Corporate Sustainability Strategies

Bundling of returns (ROI) for energy efficiency retrofits is where high-return, shorter payback projects are combined with lower-return worthwhile projects. With this combination, deeper retrofits can gain approval for implementation as the overall blended project return satisfies internal hurdle rates. This session will provide an overview of a case study analysis example of an energy efficiency bundled retrofit and will allow real estate and facility professionals to better understand the benefits of not just bundling of ROI, but of deeper retrofits to drive longer term improved financial and environmental performance.

LEARNING OBJECTIVES:

1. Understand what a deeper retrofit is and understand the benefits of bundling ROIs
2. Learn to properly drive proposals for retrofits that provide the needed financial and environmental benefits
3. Discuss how to sell to key decision makers on energy efficiency retrofits

AUDIENCE: INTERMEDIATE | CEU: 0.1

Smart Buildings

T2.04 | Room: 204

Data Management & Analytics

Presenter(s): Jim Sinopoli, Managing Principal, Smart Buildings, LLC

The FM industry's embrace of data management and analytics is being led by the high-performance buildings sector, and already there is recognition that building data and data analytics are major tools for improving building operations. Still, the effort required to obtain and manage facility data can be hard to come by. This session will demonstrate ways to acquire automation and control system data from the start of a project and get on the road to better performance.

LEARNING OBJECTIVES:

1. Learn how to enrich data via digital relationships within the building
2. Understand how to coordinate data with project team members
3. Review methods to populate FM systems with data
4. Determine how to best apply data to overall building performance

AUDIENCE: INTERMEDIATE | CEU: 0.1

10:25 - 10:55 am

High-Performance Perspectives

TP201 | Room: 201**Fault Detection and Diagnosis: Keys to Smart Building Operations**

Presenter(s): Keith La Rose, Director of Business Development, CopperTree Analytics

Smart buildings have promised a lot: simplified management, energy efficiency, and maintenance cost savings. But smart buildings often fail to deliver on those promises - and that needs to change. Your BAS data can provide you with actionable information, but only if you go beyond metrics to management. For that you need energy analytics AND fault detection and diagnostics (FDD) so that you can drill down to the equipment and systems issues causing energy waste.

Perspective 1: Smart buildings have promised more than they deliver - and that needs to change

Perspective 2: Energy analytics alone won't do the job. Energy analytics tell you your house is on fire, but FDD tells you which room and how it started

Perspective 3: To truly make smart buildings deliver requires energy analytics AND fault detection and diagnostics.

TP202A | Room: 202A**The Internet of Light**

Presenter(s): Chuck Piccirillo, Group Marketing Manager, OSRAM SYLVANIA

The "internet of things" (IoT), where internet-connected devices convert data into actionable information, promises to help smart, high-performance buildings achieve their full potential. The "internet of light" is the application of this concept to lighting where lighting moves beyond a source of illumination to a source of information. In this workshop, we will cover how IoT is affecting the lighting industry and how this shift can enable high-performance buildings.

Perspective 1: Learn the pros/cons of connected lighting systems in high performance buildings

Perspective 2: Learn the latest technology trends for connected lighting systems in high performance buildings

Perspective 3: Learn how to apply connected lighting systems from various manufacturers

TP202C | Room: 202C**Underfloor Air Distribution: Lessons Learned**

Presenter(s): Nick Paschke, Product Manager, Specialty Products, DuctSox Corporation

Underfloor Air Distribution (UFAD) commonly includes little or no distribution of airflow within the plenum, so systems perform poorly or inefficiently. A local Dallas office tower had such a system, which resulted in displeased tenants while wasting energy. Redistributing airflow within the plenum using a textile air distribution system improved cooling at the perimeter of the space, appeasing the tenants and improving system efficiency by as much as 30 percent.

Perspective 1: Lessons learned on open plenum, comfort and energy

Perspective 2: Retrofit: comfort & efficiency found with reverse series airflow model

Perspective 3: Design concepts for UFSox, the flexible fabric alternative for UFAD

TP203 | Room: 203**Risk Assessment: A Case Study**

Presenter(s): Thomas Harris, Senior Manager, Business and Commercial Development, Honeywell Building, Envelope Solutions; David Stoltenberg, Director - Health, Safety & Environment, Honeywell - Aerospace Division

In today's production based economy, where output and immediate profit is the driver of decisions, the building is rarely considered an asset or, at the very least, is seen as impacting the bottom line. Using the real-life example of the Honeywell Tempe, AZ campus, this presentation will dramatically demonstrate the pitfalls and opportunities within the current procurement and facility management process by involving the audience through interactive surveys. As process steps are discussed, we will identify the risks, potential financial impacts and mitigation strategy for each.

Perspective 1: There is substantial risk in my current process

Perspective 2: We are not leveraging the potential value of the building asset

Perspective 3: We need to change from a reactionary mode to a proactive

TP204 | Room: 204**The Energy (and Non-Energy) Benefits of Window Replacement**

Presenter(s): John Bendt, Vice President, Apogee Enterprises, Inc.

Today's energy-efficient windows, curtainwall and storefront can dramatically lower the heating and cooling costs, reduce HVAC capacity, increase occupant comfort and improve the aesthetics of a building.

These benefits help increase the value of an owner's building, improve productivity and tenant satisfaction.

Perspective 1: Understand energy impact of window replacement

Perspective 2: Understand the non-energy benefits of replacing windows

Perspective 3: Recognize the opportunity for renovation tax credits

11:00 - 11:50 am

Energy-Efficient Operations & Maintenance

T3.02A | Room: 202A**Energy Dollars Out the Window ... and the Walls and Roof?**

Presenter(s): Nick O'Hare, Quality Manager, StructureTec

Despite common assumptions, many studies have shown that typical U.S. commercial buildings are not particularly airtight. The focus will be on identifying energy loss throughout the building envelope and how to integrate energy saving upgrades into the needed maintenance of the building envelope. This program will show how to successfully manage your building envelope projects as it pertains to energy savings and operating a high-performance building.

LEARNING OBJECTIVES:

1. Identify energy saving options/upgrades that are more common to high-performance buildings
2. Discuss methods for identifying energy loss throughout the building envelope
3. Learn how to incorporate energy upgrades into envelope restoration projects
4. Discuss what to expect for payback and ROI when investing in high-performance building envelope projects

AUDIENCE: INTERMEDIATE | CEU: 0.1

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Energy-Efficient Operations & Maintenance

T3.02C | Room: 202C

San Antonio Federal Building Case Study

Presenter(s): Joseph J Watson, PE, CxA, LEED AP,

Senior Project Engineer, E3 Designs

This presentation will detail a building systems retro-commissioning project for the 180,000 square foot Federal Building in San Antonio, Texas, with the goal of assuring proper environmental control, improving tenant comfort and satisfaction, reducing energy costs, training operations staff, and reducing long-term O&M costs. Building operators were integrated into the project team early in the process to provide key feedback and potential concerns. As a result, the building won the 2012 Energy Star National Building Competition for the largest one-year energy drop of any office building in the Energy Star portfolio.

LEARNING OBJECTIVES:

1. Discuss the common goals of a retro-commissioning project
2. Analyze who should be part of the retro-commissioning team
3. Learn about the benefits of including building operators in a retro-commissioning initiative
4. Understand which areas should be explored to identify potential energy conservation opportunities within a facility

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainable Design & Construction

T3.03 | Room: 203

Sustaining Sustainable Operations

Presenter(s): Michael B. Cowley, CPMM, President,

CE Maintenance Solutions

The key to maintaining high-performance buildings in a peak operating condition is fairly straightforward, but it requires an organized strategy along with a long-term vision and master plan. This session will outline key strategies to enable the facility management team to continually monitor a facility and make simple course corrections to keep O&M on a sustainable path.

LEARNING OBJECTIVES:

1. Discuss the keys to asset sustainability
2. Assess systems and software available to manage data and assets
3. Review performance measures to track reliability
4. Analyze the effectiveness of accountability and audit techniques

AUDIENCE: INTERMEDIATE | CEU: 0.1

Smart Buildings

T3.04 | Room: 204

Defining a High-Performance Building

Presenter(s): Jasmine Amaso, Assoc. AIA, LEED AP BD+C, Senior

Project Manager, Energy & Sustainability Services, Jones Lang

LaSalle; Jay Black, LEED AP, Director of Sustainability,

SL Green Realty

Moderated by Greg Zimmerman, Executive Editor, Building Operating Management

“High-performance” has become the term de jour for many in the industry to mean everything from “green” and “sustainable” to “energy efficient” and “smart.” Truly, it means all those things together, but each one individually isn’t quite enough. High-performance buildings also must be smart, connected, occupant friendly, and flexible. That may seem like a tall order, but more and more facility managers understand the value of creating high-performance buildings — because high-performance adds value to the organization. This session will define what a high-performance building is, and describe some best practices for getting there.

LEARNING OBJECTIVES:

1. Define a high-performance building
2. Recognize the ways in which a high-performance building adds value to an organization

3. Specify how facility managers can ensure their building is operating as efficiently as it was designed

4. Identify best practices for achieving high performance

AUDIENCE: INTERMEDIATE | CEU: 0.1

■ **WEDNESDAY** ■

8:00 - 8:50 am

Codes, Regulations & Rating Systems

W1.01 | Room: 201

Energy Efficiency Standards and Green Building Certification Systems used by the DOD

Presenter(s): Cameron Oskvig, Director, Federal Facilities Council

The U.S. Congress has an ongoing interest in ensuring that the 500,000 buildings and other structures owned and operated by the Department of Defense (DOD) are operated cost-effectively. This session will provide a background of the National Academies Board on Infrastructure and the Constructed Environment, the Federal Facility Council, and present findings of a 2013 consensus study, “Energy-Efficiency Standards and Green Building Certification Systems Used by the Department of Defense for Military Construction and Major Renovations.” The study summarizes energy efficiency standards and sustainable design attributes for military construction based on the cost-benefit analysis, return on investment, and demonstrated payback required for the building standards and green building certification systems.

LEARNING OBJECTIVES:

1. Analyze how National Academies supports the federal government in answering infrastructure questions
2. Discuss how the DOD have an opportunity to take a leadership role about high-performance buildings
3. Learn how federal agencies are able to retain flexibility to modify building standards and the application of green building certification systems
4. Understand that the effective operation of high-performance buildings requires well-trained facilities managers.

AUDIENCE: INTERMEDIATE | CEU: 0.1

High-Performance Technologies

W1.02A | Room: 202A

The Cloud Has Walls: Technology and Productivity in the New Workplace

Presenter(s): Paul E. Schlattman, Vice President, Mission Critical

Facilities Group, Environmental Systems Design, Inc.

The definition of productivity is: “The measurement of efficiency from input to output.” Never before have we been able to measure the efficiency in communicating among team members like we can today, thanks to a new array of technology that allows for greater collaboration, in real time. This session will outline how changes in technology have prompted a change in how we work, interact and communicate, and the specific implications for a high-performance workplace. Attendees will emerge from this session with keys to enhancing productivity and making the most of the data today’s building systems can provide.

LEARNING OBJECTIVES:

1. Understand how technology affects space in a high-performance setting
2. Review key design features for the new workplace environment
3. Assess the C-Level view of technology in the workplace
4. Identify the best ways to anticipate and adapt to changes in the high-performance technological landscape

AUDIENCE: ADVANCED | CEU: 0.1

Codes, Regulations & Rating Systems

W1.04 | Room: 204

The Whole Building Design Guide: A High-Performance Primer

Presenter(s): Richard Paradis, P.E., Director, Whole Building Design Guide

High-performance buildings are becoming increasingly complex and stringent when it comes to energy use, security measures, and project requirements, consequently impacting how they are designed, built and maintained. In this session, attendees will review the objectives and components of the Whole Building Design Guide, and learn how it can provide an integrated process that results in a high-performance building.

LEARNING OBJECTIVES:

1. Review the Whole Building Design Guide and its objectives
2. Summarize the elements of an integrated team process
3. Identify key members of an integrated design team
4. Describe the benefits of integrated design

AUDIENCE: INTERMEDIATE | CEU: 0.1

9:00 - 9:50 am

Codes, Regulations & Rating Systems

W2.01 | Room: 201

Sustainable Water Use and Green Plumbing Codes

Presenter(s): Bill Hoffman, Senior Technical Advisor, Water Management, Inc.

Government requirements, plumbing codes, and rating systems like LEED are all being modified to recognize the need for and importance of water efficiency. The two major national plumbing codes, U.S. Department of Energy and the EPA all have included new water efficiency standards. In addition, many cities and utilities are beginning to benchmark water use, just like they did a decade before with energy inefficiencies. Even the U.S. EPA's Energy Star Portfolio Manager now has a water component, and many of the nation's largest cities are requiring all commercial properties to use this to benchmark water efficiency, including New York, Minneapolis, and other cities.

LEARNING OBJECTIVES:

1. Discuss how the new plumbing codes, federal and local regulation will impact facility equipment and design in the future
2. Determine the new equipment standards for water efficiency
3. Understand LEED Version 4.0 new water efficiency sections
4. Analyze how benchmarking can be used to compare water use in similar facilities

AUDIENCE: INTERMEDIATE | CEU: 0.1

Energy-Efficient Operations & Maintenance

W2.02C | Room: 202 C

High-Performance Buildings Require High-Performance Environments

Presenter(s): Davor Novosel, Chief Technology Officer, National Energy Management Institute Committee (NEMIC)

One major societal focus of the last decade has been the energetic performance of buildings, often boiled down to a singular measure: the energy utilization index (EUI). Given the magnitude of the public and private efforts, any and all energy reduction methods must also result in high-performing indoor environments. This presentation introduces occupant acceptability index values (AVI) that combine energy performance with occupant satisfaction, detail what these AVIs are and how to objectively obtain them.

LEARNING OBJECTIVES:

1. Analyze why current energy performance metrics are inadequate to truly achieve high-performing buildings
2. Review metrics of occupant performance that can be objectively measured and are valid, repeatable and reliable, and result in more effective investment decisions
3. Highlight examples of potential figures of merit that combine energy performance with occupant acceptability

AUDIENCE: ADVANCED | CEU: 0.1

Sustainable Design & Construction

W2.03 | Room: 203

Net Zero Buildings

Presenter(s): R. Stephen Spinazzola, PE, LEED AP, Regional Practice Leader, KCI Technologies, Inc

This presentation will outline a roadmap for planning and designing a net zero energy building. A key component of this type of building is the cultural transformation to make the building more in scale with actual needs. Reducing "plug load" (computers, task lighting) is one element of cultural transformation. Further factors of net zero buildings will be explored by diving in to the use of photo voltaic (PV) solar power, integration of geothermal heating and cooling, and the use of LED lighting.

LEARNING OBJECTIVES:

1. Describe how a company can prepare for changing the way they allocate space and computers. One size does not fit all
2. Understand PV solar, how it works and how it is funded
3. Understand geothermal heating and cooling, how it works and how it is funded
4. De-mystify LED lighting, first cost, operating costs, life cycle O&M

AUDIENCE: INTERMEDIATE | CEU: 0.1

High-Performance Technologies

W2.04 | Room: 204

Holistic Commissioning: A Collaborative Approach for New and Existing Buildings

Presenter(s): Gerald Kettler, P.E., REM, LEED AP CA, Managing Principal & CEOAIR, Engineering & Testing, Inc.; H. Jay Enck, Co-Founder/Chief Technical Officer, Commissioning and Green Building Solutions, Inc.

Achieving high performing buildings requires a holistic and collaborative approach for both new and existing buildings. This presentation provides an overview of the holistic commissioning process that starts with setting a foundation for achieving the owner's goals and objectives from project inception through the life of the building. The incorporated case studies illustrate how holistic commissioning results in a building and its systems working in harmony and minimizing operating costs.

LEARNING OBJECTIVES:

1. Initiate the application of the holistic commissioning process for building enclosures, mechanical, electrical, and plumbing systems
2. Identify risks associated with poor building performance and occupant satisfaction
3. Include holistic commissioning in creation of the commissioning team
4. Provide advice and resources on selecting a commissioning authority for the type of building and its systems

AUDIENCE: INTERMEDIATE | CEU: 0.1

10:00 - 10:30 am

High-Performance Perspectives

WP201 | Room: 201**Energy Storage Benefits for High-Performance Buildings**

Energy storage is an essential piece of an energy management plan for high performance commercial buildings. Storage technology compliments and enhances investments in energy efficiency upgrades and renewable generation. Today commercial storage is widely known for minimizing peak demand, thereby saving businesses money on their electric bills. However, energy storage provides revenue generating and cost saving applications beyond peak shaving, including EV charging, renewable energy integration, islanding, critical backup power, and demand response.

Perspective 1: Energy storage provides a strong financial return to commercial and industrial facilities.

Perspective 2: Energy storage technology has numerous applications that meet growing customer energy needs.

Perspective 3: Energy storage is a key part of smart energy management.

WP202A | Room: 202A**The Benefits of Incorporating Wireless Solutions into Existing Buildings**

Presenter(s): Jim Kohl, Senior Product Manager, Trane

Wireless is being deployed with many different building automation systems today. Matching the attributes of wireless solutions with specific building needs can be confusing and generate poor outcomes. This session details how to match the wireless solutions available today with the needs of effective building automation, and highlights solutions that are open, reliable, and that can co-exist with other wireless solutions and ready for easy, cost-effective integration with existing building systems.

Perspective 1: Learn about the benefits of various wireless technologies

Perspective 2: Discover how to match wireless solutions with the needs of effective building automation and operation

Perspective 3: Learn which wireless solutions are open, reliable, can co-exist with other wireless solutions

WP202C | Room: 202C**Energy Management Systems and Facility Financial Health**

Presenter(s): Erika Elkington, Director, Progeneration Energy; Saurabh Kohli, Regional VP, Progeneration Energy; Anthony Shaw, Director, Progeneration Energy

Facility management is complex and full of moving parts. Your facility management decisions are influencing your energy costs. The experts on energy management systems from Progeneration Energy will show you how to mitigate those energy costs and, in turn, reduce your maintenance expense. As we introduce one of our client's sites, we explain the value of taking a full system approach to energy and some of the common ways facility managers are sabotaging their own efforts and budgets.

Perspective 1: Explain the economic benefits of a complete Energy Management System

Perspective 2: Describe the components of an EMS applicable to a facility

Perspective 3: Take away the key talking points when pitching and EMS to their CFO

WP203 | Room: 203**Continuous Insulation and Air Barriers for High-Performance Buildings Envelope**

Presenter(s): Robert W. Dazel, AIA, CSI, LEED GA, Business Development Manager - Strategic Accounts, Dryvit Systems, Inc.

Recent building and energy code changes are substantially increasing requirements for continuous insulation (ci) and continuous air barrier integration into building envelope walls. This session will cover what these code criteria are, how they affect a traditional framed wall assembly design and detailing and how continuous insulation (ci) and continuous air barrier integration can be implemented into a successful, code compliant, cost effective and high performance building envelope for both new or renovation construction.

Perspective 1: Introduce new energy code and design standards for continuous insulation (ci) and air barriers requirements

Perspective 2: Deconstruct "perceived" value of traditional cavity insulation methods and Reconstruct new strategies for higher "effective" value of exterior continuous insulation opportunities

Perspective 3: Outline the challenges in framed wall design and detailing

WP204 | Room: 204**Water Matters More**

Presenter(s): Mike Mason, President and CEO, Weathermatic

Water is a scarce and precious resource that is becoming increasingly costly. In urban areas, the average cost of water has increased faster than any other utility - 25 percent since 2010. Most people don't realize that the majority of water is used outside the facility on the landscape, and according to the EPA, 50 percent of that irrigation water is wasted. Simple smart watering technology and practices are producing profound savings for commercial property owners.

Perspective 1: Water is costly and most is used outside on the landscape

Perspective 2: According to the EPA, facilities overwater lawns by 50 percent on average

Perspective 3: Need based watering technology and practices are producing payback of 18-24 months

10:35 - 11:25 am

Codes, Regulations & Rating Systems

W3.01 | Room: 201**How Changes to the International Building Code Affect High-Performance Design and Construction**

Presenter(s): Walt Norko, PC, CCM, Vice President of Professional Practice, Construction Management Association of America

Gain an insight into the most critical 2015 updates to the International Building Code (IBC), and learn how the real-world application of those changes will affect high-performance buildings in the future. Session coverage will include changes made to all affected code sections including plumbing, mechanical, and electrical provisions. A discussion of each change will feature how the modifications revise the existing 2012 code and how it may affect real-world high performance buildings.

LEARNING OBJECTIVES:

1. Identify the 2015 updates to the International Building Code
2. Learn how the real-world application of changes from the 2012 code will affect high-performance buildings in the future
3. Discuss changes made to all affected code sections including plumbing, mechanical, and electrical provisions
4. Analyze how the modifications revise the existing 2012 code and how it may affect real-world high performance buildings

AUDIENCE: INTERMEDIATE | CEU: 0.1

High-Performance Technologies

W3.02A | Room: 202A

Technology Roadmap for High-Performance Buildings

Presenter(s): Peter A. Babigian, PE, RCDD, LEED AP, Partner; James Perry, Chief Technical Officer; James Waddell, RCDD, ISCET, Associate Principal, Cerami

This session explores trends in workplace technology and acoustical solutions within high-performance buildings and workplaces. This presentation will review the opportunities and potential benefits of technology and acoustical solutions in optimizing the high-performance workplace of the future. Specific areas to be explored include the wireless workplace, Wi-Fi and distributed antenna systems, passive optical networks and integration opportunities, unified communication solutions, intelligent lighting systems, and sound masking systems.

LEARNING OBJECTIVES:

1. Understand current industry trends, barriers to adoption and technology enablers of smart highly efficient buildings
2. Discover unique advantages of acoustical systems in ensuring occupant comfort and safety
3. Learn about the types of systems that can be integrated while exploring the efficiencies that can be gained
4. Analyze benefits related to these technology systems from a building, facility operation and occupant perspective

AUDIENCE: INTERMEDIATE | CEU: 0.1

Energy-Efficient Operations & Maintenance

W3.02C | Room: 202C

CHP for High-Performance Commercial Buildings

Presenter(s): Charlie Goff, Senior Consultant, Eastern Research Group; Gary McNeil, Communications Director, Combined Heat and Power Partnership, U.S. Environmental Protection Agency; Marc Rouse, Director of Sales - America, Capstone Turbine Corporation

Attend this session for insights into how combined heat and power (CHP) —also known as cogeneration—can improve energy efficiency at a building or facility, and play a major role in reducing carbon emissions, optimizing fuel flexibility, lowering operating costs, and earning LEED points. Attendees will learn how and why CHP is especially well-suited to the high-performance building, and what to keep in mind when considering CHP for their own buildings.

LEARNING OBJECTIVES:

1. Understand CHP and the key technologies that make it work
2. Identify the primary benefits of CHP for high-performance buildings
3. Evaluate favorable conditions for CHP and recognize attractive CHP markets
4. Learn the value of CHP for projects seeking LEED certification
5. Avoid common pitfalls to a successful CHP initiative

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainable Design & Construction

W3.03 | Room: 203

Building a High-Performance Team

Presenter(s): Teena Shouse, CFM, IFMA Fellow, Vice President, Facility Engineering Associates

In this session, attendees will review the primary attributes of an HPO — high-performance organization, and learn how to take a similar strategic approach to the future of their own facility teams. From high-level strategy and planning skills to an in-depth knowledge of stakeholders to processes for continual

improvement, the presentation will outline how to develop a high-performance workforce that can effectively deploy an HPO strategy for the long term. Case studies of HPO transformations will be included.

LEARNING OBJECTIVES:

1. Define a high-performance organization
2. Understand the difference between pure benchmarking and process analysis
3. Analyze staff needs for high performance operations
4. Explore case study examples of how organizations answered the tough questions leading them to High Performance Organizations (HPO)

AUDIENCE: INTERMEDIATE | CEU: 0.1

Smart Buildings

W3.04 | Room: 204

Building Controls: Smart Building Tools

Presenter(s): David Quirk, PE, LEED AP, CEM, Vice President and Principal, DLB Associates

A building controls system can be among the most economical and easily implemented energy efficiency strategies in high-performance buildings. High performance is achieved through a combination of many aspects of the system design, implementation, commissioning, and operation. The proper interpretation and implementation of control sequences makes all the difference in high performance. You will emerge from this session with a clear grasp of control system performance features, consequently ensuring an efficient, cost-effective system that maximizes energy savings and boosts efficiency throughout a high-performance building.

LEARNING OBJECTIVES:

1. Review essential controls strategies that every high-performance building should have in place
2. Understand higher level control system functions and how they can benefit the sustainable aspects of a facility
3. Learn how controls contribute to energy savings and sustainability

AUDIENCE: ADVANCED | CEU: 0.1

2:45 - 3:35 pm

Energy-Efficient Operations & Maintenance

W4.01 | Room: 201

Energy Savings Performance Contracting: For Educated Buyers Only

Presenter(s): Richard G. Lubinski, CEM, CDSM, CSDP, CEMSC, BEP, President, Think Energy Management LLC

This session provides an overview of energy savings performance contracting (ESPC) and how high-performance buildings can benefit from the strategy. Review a standard ESPC project development agreement and strategies for negotiating a successful contract. This session will also discuss typical contract lengths, common challenges and what to avoid in performance contracting.

LEARNING OBJECTIVES:

1. Identify which building types are best suited for ESPC
2. Understand what level of ASHRAE energy audit is required for ESPC
3. Analyze typical contract lengths and language
4. Learn what to avoid in performance contracting negotiations

AUDIENCE: ADVANCED | CEU: 0.1

High-Performance Technologies

W4.02A | Room: 202A

Ensuring United States Competitiveness in the Facilities and Infrastructure Industries

Presenter(s): Dana Smith, FAIA, President, DKS Information Consulting

Not long ago in China, a 30-story high-performance building was constructed in just 15 days. More recently, a 57-story, high-performance sustainable building was completed in 19 days. Meanwhile, the United Kingdom is working to reduce facility costs by 33 percent, delivery time by 50 percent and carbon footprint by 50 percent with the goal of making their AEC industry services twice as exportable over current practice and win bids for design and construction projects worldwide. As many as 18 other countries have identified plans to transform the way they do business in the facilities and infrastructure industries. Facility professionals in the United States cannot afford to ignore the international implications of these new strategies; how will our country respond? Find out during this session presented by the a leader who is building the coalition to take on the challenge.

LEARNING OBJECTIVES:

1. Identify successful high-performance building projects and methods used outside of the U.S.
2. Recognize the transformation of business methods in the facilities and infrastructure industries
3. Learn how the U.S. will respond to the worldwide shift
4. Understand how the U.S. will remain competitive in the facilities and infrastructure industries

AUDIENCE: ADVANCED | CEU: 0.1

Smart Buildings

W4.03 | Room: 203

A Day in the Life: Changing How We Think About Space, Place and Time

Presenter(s): Nicholas P. Lawrence, Vice President, Technology Consultant, Environmental Systems Design, Inc.; Kurt Karnatz, Executive Vice President, Environmental Systems Design

Technology is continuously changing what's possible in high-performance buildings and the ways people work. Information is expected to be accessible anytime and anywhere, seamlessly and securely. This makes it all the more important that the IT and corporate real estate teams be well aligned to reduce risks and gaps in strategy and implementation. Given the abundance of technologies available, how do we align possibility with practicality early on, then develop a clear path from strategy to execution?

LEARNING OBJECTIVES:

1. Identify key roles and responsibilities of IT and corporate real estate teams
2. Discuss alignment methodologies to reduce risks and gaps in strategy and implementation
3. Evaluate current technology benefits and applications
4. Develop a clear path from strategy to execution

AUDIENCE: ADVANCED | CEU: 0.1

Smart Buildings

W4.04 | Room: 204

How Smart Buildings Cut Labor Costs

Presenter(s): Lawrence A. Melton, CEO and President, The Building People

Smart buildings are often called connected buildings thanks to the integration of multiple systems that optimize operations and boost efficiencies. They also cut costs in labor departments, allowing for proactive maintenance, more reliable occupancy patterns and simplified operations management. This panel discussion offers a federal buildings perspective on the role smart buildings play in reducing labor costs and increasing staff efficiencies.

LEARNING OBJECTIVES:

1. Understand the federal government's approach to smart building operations, and the use of intelligent monitoring to control the costs of energy-intensive systems such as HVAC and lighting
2. Analyze troubleshooting capabilities of smart buildings that allow facilities professionals to assess real-time conditions, detect problems, and monitor building performance off-site
3. Review the role of smart building technologies in simplified operations management

AUDIENCE: INTERMEDIATE | CEU: 0.1

3:45 - 4:35 pm

Sustainable Design & Construction

W5.01 | Room: 201

Performance-Driven Design

While technology is evolving at lightning speed, the transformation of our physical spaces and real estate markets are slower to adapt to progress. This session describes how performance driven design, a strategy that taps into the economic, environmental and social impacts of design, can result in new revenue streams for the building owners and workplace productivity. The presentation includes case studies that illustrate how these ideas and concepts are applied.

LEARNING OBJECTIVES:

1. Understand the intersection of people, built environment and technology
2. Define performance-driven design
3. Analyze current workplace build environments
4. Discuss future evolution and disruptions in real estate business models

AUDIENCE: ADVANCED | CEU: 0.1





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PRESENTERS

Jasmine Amaso Assoc. AIA, LEED AP BD+C

Senior Project Manager -
Energy & Sustainability Services
Jones Lang LaSalle

Jasmine is focused on Energy and Sustainability Services in JLL's Northeast Region and has sustainability project management experience in green building design, energy efficiency assessments, LEED certification, supply chain management and zero waste initiatives. Prior to joining Jones Lang LaSalle Jasmine was a sustainability consultant for Waste Management Sustainability Services, where she was responsible for developing and implementing extensive zero waste plans and supply chain management strategies for a variety of customers including: Wal-Mart, Home Depot, Marriott, GlaxoSmithKline, Miami Heat, Minnesota Twins, Hines, and CBRE.

Jayson Antonoff

U.S. Director,
Global Buildings Performance Network
Institute for Market Transformation

Jayson Antonoff leads the United States hub of the Global Buildings Performance Network, an international knowledge partnership advancing building energy policies. The hub is based in IMT's Washington, DC office. Before joining IMT in May 2012, Jayson was the Energy/Climate Change Policy Advisor for the City of Seattle's Office of Sustainability and the Environment. There, he initiated and implemented programs to meet the city's goals for energy efficiency and greenhouse gas reduction within the built environment. He was responsible for developing Seattle's program for mandatory benchmarking and disclosure of energy performance for almost 9,000 nonresidential and multifamily buildings.

Peter Babigian PE, RCDD, LEED AP

Partner
Cerami

Peter is a professional engineer and technology program manager with sustainable design experience on major construction projects on a national scale. With over 20 years of experience, Peter is a versatile executive with expertise in strategic planning, technology design, budget and schedule management, procurement and contract administration for all technology areas with a specific focus on infrastructure systems supporting data centers, trading floors, and office facilities ranging from small scale fit-outs to multi-million square foot development projects and corporate relocations.

Jay Black LEED AP

Director of Sustainability
SL Green Realty

Jay Black is Director of Sustainability for SL Green Realty Corp., New York City's largest commercial property owner with over 44 million square feet of class A commercial office space throughout the New York metro and greater suburban areas, including Westchester and Fairfield counties. As a LEED AP, Jay established SL Green's market leading sustainable program in 2007, and is responsible for a broad platform of environmental initiatives recognized by national organizations such as BOMA for its "Best Green Practices." Jay is also an active community member as part of the NYC Energy Efficiency Corporation's Advisory Council and the Real Estate Board of New York (REBNY) Sustainability Committee.

James Chemp

President
Chemp Energy Management, LLC

James has managed up to \$235 million/year in Energy for 3 large corporations that are in the \$20-\$40B range in annual sales (7-Eleven, Honeywell, and T-Mobile). As Director of Energy & Engineering for 7-Eleven, he has provided Energy Management for 8,300 existing stores and developed construction documents for 400 new retail stores/year. Prior to this, he was Global Director of Energy & Sustainability at Honeywell International. During the last 20 years, James has saved \$570 million in cost savings through energy & construction cost reduction measures at about 43,000 locations.

Bill Conley RWC

President/Principal-in-charge
Conley Group

Mr. Bill Conley is the Founder and President of Conley Group, Inc., with over 35 years' experience in all phases of building envelope design, renovation and repair as consultant and project manager major roofing and waterproofing projects worldwide. Mr. Conley has performed condition assessments and forensic testing on over 90,000,000 SF of roof systems. He has successfully planned, designed, managed and delivered over 450 projects totaling over \$350M in construction value in 31 states and 11 foreign countries. Mr. Conley has been an active member of the Roof Consultants Institute since 1988; having served on the RWC Exam Development Committee. He currently serves as the Professional Director of the North Texas Chapter of RCI.

Michael Cowley CPMM

President
CE Maintenance Solutions

Mike Cowley is President of CE Maintenance Solutions, a company that provides training, coaching and consulting services to facility and manufacturing maintenance organizations. His background includes a BS in Mechanical Engineering and over 33 years of hands-on experience in areas of asset and maintenance management including facility and industrial maintenance. He has extensive experience in all aspects of facility and manufacturing management, computerized maintenance management systems (CMMS), contract maintenance, utility operations, project engineering and senior engineering management. Mike speaks at several leading maintenance conferences and facility management conventions.

H. Jay Enck

Co-Founder/Chief Technical Officer
Commissioning and Green Building
Solutions, Inc.

H. Jay Enck is Co-Founder and Chief Technical Officer of Commissioning and Green Building Solutions, Inc. (CxGBS®). An industry leader, he has conducted commissioning for more than \$5 billion in construction projects, of which 80 percent have included building enclosure commissioning. Mr. Enck has 40-plus years of experience in building operation, design and construction, and over 25 years investigating causes of building enclosure problems. He has fulfilled the roles of Commissioning Authority, Chief Operations Engineer and General Contractor for a variety of building and occupancy types, from animal research laboratories to food service facilities to Class A commercial buildings.

Fred Gerdes

SVP - Sales & Marketing
Chemp Energy Management, LLC

Fred has more than 20 years of experience in facility and energy management. As Director in Real Estate & Facilities at T-Mobile, he initiated and co-built an energy management team that managed over \$180 million in annual spend for utilities at 40,000 locations. This saved over \$65 million in utility costs and won a Corporate Energy Management Award for the region. Fred has management experience in non-profit, start-up, service and retail. Fred has his MBA and Bachelor of Business Management.

Charlie Goff

Senior Consultant
Eastern Research Group

Charlie Goff is a Sr. Consultant with Eastern Research Group, a multidisciplinary consulting firm serving a spectrum of public and private clients. Mr. Goff supports a number of EPA and DOE programs to advance energy efficiency and clean energy development. For the past 9 years, Mr. Goff has supported the EPA Combined Heat and Power Partnership, providing strategic planning, technical, and education/outreach support to help advance CHP development in the United States. Mr. Goff has a B.S. degree in mechanical engineering from Washington University in St. Louis, and a Master of Public Policy from Georgetown University.

Paul Head, II

Senior Manager
Ernst & Young Construction & Real Estate Advisory Services

Paul Head is a Senior Manager in EY's Construction and Real Estate Advisory Services practice. He has 20+ years of experience in strategic and operational management of facilities and real estate spanning the full spectrum of the real estate life cycle. Paul is a Lean Six Sigma Greenbelt and PMP, and helps organizations transform their real estate business by streamlining operations, reducing risk and eliminating waste. He is passionate about building a better working world through operational transformation, alignment of mission and operational effectiveness enabled through enterprise technologies.

Bill Hoffman

Senior Technical Advisor
Water Management, Inc.

Bill Hoffman is a principal with H.W. Hoffman and Associates, LLC, and water resource planning and conservation services firm located in Austin, Texas and advisor and engineer for Water Management, Inc. He is the former Program Coordinator for Industrial, Commercial and Institutional (ICI) Water Conservation Programs for the City of Austin. He has been instrumental in developing and implementing technical assistance programs for water conservation in Texas and has helped conduct a number of workshops to train municipal water conservation personnel how to set up and administer their own conservation, reuse and drought management programs. Bill has over 35 years of water and related experience both in the United States and over seas.

Kurt Karnatz

Executive Vice President
Environmental Systems Design

Kurt Karnatz is Executive Vice President of Environmental Systems Design (ESD), leading one of the nation's largest MEP Consulting Engineering firms with particular focus on sustainable, optimized engineering solutions for high performance buildings. He has acquired extensive experience in the design and execu-

tion of high performance MEP engineering solutions for commercial, institutional and industrial real estate developments. His ability to bridge his passion for sustainable design with the real world constraints of real estate development has gained him national recognition as an industry leader.

**Gerald Kettler
PE, REM, LEED AP CA**

Managing Principal & CEO
AIR Engineering & Testing, Inc.

Jerry Kettler has over four decades of experience in building management, design, construction, testing, commissioning, and operations of all building types. He is a licensed engineer in Texas and eight other states, and is certified LEED AP, signifying an in-depth of knowledge in all green building practices. He has held leadership positions in many professional industry and community organizations including: the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), Associated General Contractors (AGC), Building Commissioning Association (BCA), Construction Specification Institute (CSI), Texas Society of Professional Engineers (TSPE) and United States Green Building Council (USGBC).

Nicholas Lawrence

Vice President, Technology Consultant
Environmental Systems Design, Inc.

Nick Lawrence is a strategic, financial, technology, facility and operations-oriented professional with many years of progressive and diverse experience in budget management, resource planning, vendor relations, project execution, sustainability, marketing and international business. As a senior technology consultant he manages multiple projects with high levels of complexity, including multimillion-dollar engagements, to meet quality, schedule, milestone and budget commitments from the discovery phase through design, implementation and closeout.

**Richard Lubinski
CEM, CDSM, CSDP,
CEMSC, BEP**

President
Think Energy Management LLC

Richard G. Lubinski is President of Think Energy Management LLC, an internationally recognized energy consulting firm with 34 years energy management experience in 34 states plus DC, Canada and the Caribbean. He has conducted over 1,200 ASHRAE Level 1, 2, 3 energy audits. He is also a Life Member of the Association of Energy Engineers (AEE) and serves as the President of the Northern Ohio Chapter of AEE. He guides C&I clients on demand-side management, supply-side management, performance contracting with M&V and utility cost benchmarking and MEP project support. He writes and speaks regularly on a wide array of energy management topics. In 2010, 2011, 2012, 2013 one of his national clients won the Energy Star Partner of the Year Award.

Gary McNeil

Communications Director,
Combined Heat and Power Partnership
U.S. Environmental Protection Agency

Gary McNeil has managed non-regulatory pollution prevention programs at the US EPA since 1992. He implemented projects in Asia and Latin American to reduce emissions of refrigerants from automotive air-conditioning systems, and from 1997 to 2008 managed a program of international cooperation between the ENERGY STAR program and similar programs in Brazil and China to promote voluntary measures to improve energy efficiency in commercial buildings, office equipment, and consumer products. He joined the staff of EPA's Combined Heat and Power Partnership in June 2010 as the communications director. He holds a BA in Economics and a Masters in Business Administration from the University of Washington, and a Masters in Public Administration from the Harvard Kennedy School.

Lawrence Melton

CEO and President
The Building People

Lawrence Melton is the CEO and President of The Building People. With over 20 years of Federal Executive Service, Lawrence established the company in 2012, and found early success in its global reach to drive greater efficiency, investment, and performance for their clients. Lawrence is a recognized industry expert in real estate and facilities management, and continues to serve on multiple boards and associations. Lawrence holds a Bachelor of Arts in Communication from George Mason University. In 1999, he completed a Master of Science in Administration and Public Administration from Central Michigan University. In 2005, Lawrence completed the Senior Executive Fellows Program at Harvard University.

**James Newman
CEM, LEED AP BD+C,
ASHRAE OPMP**

Managing Partner
Newman Consulting Group, LLC

Jim Newman is managing partner of the Newman Consulting Group. He is an active member of many technical societies, and writes an engineering column for the monthly newsletter of the Detroit ASHRAE chapter. He is past vice-chair of ASHRAE's Technical Committee (TC) on Industrial Air Conditioning, is a corresponding member of TC 5.5, Air-to-Air Energy Recovery and TC 7.3, Operations and Maintenance, is on the Environment Committee of BOMA International and is Chair of the BOMA Detroit Chapter's Committee on Sustainability.

**Walt Norko
PC, CCM**

Vice President of Professional Practice
Construction Management
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America (CMAA). CMAA is North America's only organization dedicated exclusively to the interests of professional program and construction management. He is responsible for the management of the association's professional development and education programs and activities. Prior to CMAA, Mr. Norko spent over 30 years with the U.S. Army Corps of Engineers and has been involved in projects all over the world including, the Ground Launched Cruise Missile (GLCM) Program in Belgium, the Chemical Weapons Destruction Support Office in Moscow, as well as numerous other medical projects managed by the Corps in Germany, Turkey, and the Netherlands.

Davor Novosel

Chief Technology Officer
National Energy Management Institute Committee (NEMIC)

Davor Novosel is the Chief Technology Officer for the National Energy Management Institute Committee (NEMIC). He brings a more than 30-year international career in the heating, ventilating and air conditioning industry. At NEMIC, Mr. Novosel leads the technology group that identifies new technologies, market developments and trends that will affect skill sets of technicians and contractors. In his professional career, Mr. Novosel held various technical, marketing and management positions with U.S. and European heating, ventilating and air-conditioning companies.

Nick O'Hare

Quality Manager
StructureTec

Mr. O'Hare has been involved with managing numerous building envelope and paving projects in the corporate, health care, higher education, and K-12 industries. As Quality Manager he focuses on understanding customers' needs and designing educational programs to meet those needs. He prides himself in his commitment in achieving ultimate customer satisfaction, and providing value through all StructureTec programs. Mr. O'Hare is actively involved in NFMT, IFMA, ASBO, CURT and ASHE.

Cameron Oskvig

Director
Federal Facilities Council

Mr. Oskvig is a professional engineer with over 18 years' experience in the planning, design, construction, and management of constructed infrastructure. In 2014 Cameron Oskvig took over as the director of the Federal Facilities Council. In this role, Mr. Oskvig executes the annual technical program identified by member facilities organizations. The Federal Facilities Council (FFC) is a cooperative association of more than 26 federal agencies with responsibilities for large portfolios of facilities. The FFC's mission is to identify and advance technologies, processes, and management practices that improve the performance of federal facilities over their life cycles, from planning to disposal.

Richard Paradis

PE
Director
Whole Building Design Guide

Richard Paradis, P.E. is Director of the Whole Building Design Guide (WBDG) with Washington, DC based National Institute of Building Sciences (NIBS). He also manages the Facility Maintenance and Operations Committee (FMOC). Richard has extensive knowledge of the Integrated Design Process, Sustainable Design Principles, Facility Security, Energy Conservation, Training, Technical Writing, Acoustics/ Noise Control, & Program Management. Richard has been an invited speaker at a number of conferences including AIA CO, Building Innovation 2013 & NFMT Baltimore 2011 through 2014. He has done podcasts and webinars on WBDG & he has published papers on acoustics, whole building design and security.

James Pery

Chief Technical Officer
Cerami

Jim has 17 years of experience providing acoustical and vibration consulting for a variety of project types. He offers special expertise in areas of mechanical systems design and environmental noise control, especially in the design of large scale developments, residences, and healthcare facilities. Jim has appeared as an expert witness at Community Board hearings in both New York and New Jersey, offering testimony on noise transmission, with regard to noise code and residential impact issues. Jim is also an author on acoustical topics.

David Quirk

PE, LEED AP, CEM
Vice President and Principal
DLB Associates

David Quirk, P.E., provides a variety of engineering and facilities services including Building Management Systems, commissioning and design services for energy and building management supporting the commercial building industry worldwide. In his former role at Verizon Wireless Network, David was responsible for managing the design and construction of the organization's critical network facilities throughout the United States. David is licensed PE and a LEED AP. He is a past Chapter President of ASHRAE, a voting member on NFPA-76 and NFPA-75, and a voting member and Chair of ASHRAE TC9.9.

Marc Rouse

Director of Sales - America
Capstone Turbine Corporation

Marc is the Director of Sales for Capstone Turbine Corporation in America, the world's leading manufacturer of low-emission microturbine technology. Marc is the manager of distributor sales channels for the United States in the oil and gas, combined heat and power, and renewable fuel markets. Marc has a bachelors degree in Electrical Engineering from Rice University and began his career in the oil and gas and

energy industries. Previous employers include Solar Turbines Inc. and Dresser-Rand Co. Marc has experience with gas turbines (30kW to multi-MW), control systems, combustion systems, and oil and gas.

Paul Schlattman

Vice President,
Mission Critical Facilities Group
Environmental Systems Design, Inc.

Paul Schlattman is responsible for business development, project administration, strategic planning of data center, financial trading, and other information technology related projects. Prior to ESD, Mr. Schlattman founded Nexgen Building Solutions, and was also Senior Vice President of the Information Technology Group at McClier Corporation. Over his career, Mr. Schlattman has consulted within the data center sector in Europe, Pacific Rim, North America and South America. In addition to his international accomplishments, Mr. Schlattman is internationally renowned speaker and published within numerous articles and publications within the industry.

Teena Shouse

CFM, IFMA Fellow
Vice President
Facility Engineering Associates

Teena G. Shouse, CFM, Senior FM Consultant, has more than 23 years of experience in facility management; including project management, management of retail services, BPI, staff development, sustainability in food services and other areas in facility management, capital planning and budgeting, strategic client relations, O&M, associate amenities programs, quality development and program/process standardization, and sourcing and contract governance of outsourced partners. She was recently appointed to serve on the Global FM Board of Directors, a global federation of FM organizations based in Brussels, Belgium.

Jim Sinopoli

Managing Principal
Smart Buildings, LLC

Mr. Sinopoli is the Managing Principal of Smart Buildings LLC. He is a licensed Professional Engineer, an accredited LEED professional and a Registered Communications Distribution Designer. Mr. Sinopoli has received the international "Harry J. Pfister" award from the Building Industry Consulting Service International (BICS) and recently awarded the 2012 Digi Award for "Digital Impact." He is a Contributing Editor to Automatedbuildings.com and the US Editor for the Intelligent Building International Journal. His most recent book is titled "Smart Buildings Systems for Architects, Owners and Builders."

Dana Smith

FAIA
President
DKS Information Consulting

Deke Smith is a Senior Analyst with Cyon Research the home of the Congress on the Future of Engineer-



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ing Software (COFES). He was formerly the Executive Director for the buildingSMART alliance™ a council of the National Institute of Building Sciences (NIBS), and a member of buildingSMART International Executive Committee. Deke was instrumental in the beginnings of the NIBS Construction Criteria Base, now the Whole Building Design Guide (WBDG). He initiated both the United States National CAD Standard© and the National BIM Standard-United States©. He retired December 2006 after 30 years as a Designer and Director with the Naval Facilities Engineering Command, Deputy CIO at the Army Research Laboratory, and Chief Architect for the Deputy Under Secretary of Defense for Installations and Environment in supporting DoD's 540,000 facilities.

R. Stephen Spinazzola **PE, LEED AP**

Regional Practice Leader
KCI Technologies, Inc

Spinazzola brings to the firm more than 33 years of experience in project management and mechanical systems design. Prior to joining KCI, he served as the firm-wide director of mechanical, electrical and plumbing engineering for recognized architecture firm, RTKL. His work has been honored by a number of professional organizations, including the American Institute of Architects, Washington Building Congress, Real Estate Construction Review, and the General Services Administration. Award winning project experience includes the National Ground Intelligence Center, National Geospatial-Intelligence Agency campus consolidation, and the Maryland Institute College of Art dormitory building.

Michael Sweeney **PE, LEED AP**

Associate Principal
ARUP

Michael Sweeney is a registered professional engineer who is passionate about bringing energy conscious and financially optimized building solutions to reality for his clients. A LEED Accredited Professional, Michael has over 19 years of experience in building energy consulting, building systems design, and in developing and marketing web-based building energy information systems.

James Waddell **RCDD, ISCT**

Associate Principal
Cerami

James has directed technology, real estate and facilities strategies, workplace programs, projects, and operational process improvements within global companies for more than 20 years. He is skilled at delivering technology supported business impact in planning, design, construction, administration, management, and commissioning of commercial, institutional, industrial and healthcare technology systems. James' experience includes

an eight year tenure at a global technology manufacturing company and a four year tenure as managing principal of a global consultative engineering firm.

Brenna Walraven **President & CEO**

Corporate Sustainability Strategies

After over 25 years in commercial real estate and leading sustainability execution for large real estate portfolios, Brenna founded Corporate Sustainability Strategies (CSS) with the goal of driving the business case for sustainable real estate and sustainable corporate execution. Her first client was USAA Real Estate Company, for whom she had been Head of Property Operations overseeing a portfolio of over 100 million square feet. In her leadership at USAA Real Estate Company (USAA) she led USAA to 12 Energy Star Partner of the Year Awards in leadership in energy management, the most of any real estate company. Brenna has served on the Board of the Real Estate Roundtable, as well as vice-chair of the RER Sustainability Policy Advisory Council and is a past chairman of BOMA International.

Joseph Watson **PE, CxA, LEED AP**

Senior Project Engineer
E3 Designs

The principal consultant and founder of E3 Designs, Joseph J. Watson, has over 30 years of experience in all areas of the HVAC industry. He is a licensed, Professional Engineer, a LEED Accredited Professional, a Certified Commissioning Authority (CxA), and was recently certified by ASHRAE as a Building Energy Modeling Professional (BEMP). He graduated from the prestigious Carnegie-Mellon University with a degree in Mechanical Engineering. He went on to earn his MBA in 1984 and was hired by Johnson Controls in Philadelphia to coordinate energy services projects. He spent 10 years as a chiller plant optimization specialist with Tozour Trane in King of Prussia, Pennsylvania before leaving to form E3 Designs.

B. Alan Whitson **President**

The Corporate Realty
Design & Management Institute

As an author, consultant, and speaker Alan Whitson is one of the nation's most charismatic, knowledgeable speakers on how to build the business case for high performance buildings. His experience encompasses over 40 million square feet of facilities around the world in the roles of asset manager, corporate facilities manager, construction manager, development manager, and commercial real estate broker. The scope of Whitson's 30+ year career gives him a keen insight into the needs of today's facilities, and a unique understanding of the architectural, construction and real estate industries.

THANK YOU to our High-Performance Perspective Thought Leaders

John Bendt

Vice President
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Robert Dazel **AIA, CSI, LEED GA**

Business Development Manager -
Strategic Accounts
Dryvit Systems, Inc.

Erika Elkington

Director
Progeneration Energy

Thomas Harris

Senior Manager, Business and
Commercial Development
Honeywell Building Envelope Solutions

Jim Kohl

Senior Product Manager
Trane

Saurabh Kohli

Regional VP
Progeneration Energy

Keith La Rose

Director of Business Development
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Mike Mason

President and CEO
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Nick Paschke

Product Manager, Specialty Products
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Automated Logic is a leading provider of innovative building management solutions. For more than 30 years, ALC has been dedicated to designing easy-to-use building automation systems that provide the highest possible energy efficiency, while ensuring occupant comfort. Automated Logic is a part of UTC Building and Industrial Systems, a unit of United Technologies Corp.

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A professional architectural/engineering consulting firm specializing in evaluation, design, construction administration, & inspection of your building envelope. A full-service firm, which includes Professional Consultants, Architects, Engineers, Project Managers, Quality Assurance Inspectors, Specification Writers, CADD Designers, Data Base Architects and Administrative Staff.

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CopperTree Analytics is a software-as-a-services that provides you with the energy and building analytics you need to: Transform your BAS data into meaningful, actionable information; Leverage building analytics into an enterprise management view of your operations; Make operational decisions that improve your building performance and bottom line.

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criticalfacilitiesSM SUMMIT

Critical Facilities Summit

October 5-7, 2015

Charlotte Convention Center

Mission critical facilities take on a life of their own and need to be operated and managed differently than other commercial buildings. This event is tailored for 24/7 facilities such as data centers, hospitals, laboratories and trading centers, and fosters networking and peer-to-peer problem solving.

BUILDING OPERATING MANAGEMENT'S NFMT ORLANDO

NFMT Orlando

October 27-28, 2015

Orange County Convention Center

NFMT Orlando is a complimentary two-day event that focuses on many of the same themes from NFMT like sustainability, leadership and career development, maintenance and operations, and safety and security.

BUILDING OPERATING MANAGEMENT'S NFMT 2016

NFMT

March 22-24, 2016

Baltimore Convention Center

Our flagship event, NFMT has been the premiere facilities management event for over 15 years. During the three days in Baltimore attendees can participate in sessions that cover a wide range of topics including leadership, staff development, energy efficiency, safety and security, maintenance and operations and technology. And with over 500 exhibitors in the expo hall, attendees experience hands-on demonstrations of upcoming technology.

BUILDING OPERATING MANAGEMENT'S NFMT High-Performance BUILDINGS

NFMT High-Performance Buildings

May 2016

Join us again next year as we continue the discussions we started this week. As energy prices continue to fluctuate and technology advances, it is vital to ensure buildings operate at peak performance by striking a balanced combination of energy efficiency, system optimization and occupant comfort and engagement.

SHOW EXTRAS

SHOW CONCIERGE: BOOTH #503

Visit us during exhibit hours for all of your show needs:

- » Additional show directories
- » Copies of *Building Operating Management* and *Facility Maintenance Decisions* magazines
- » General show questions, comments and feedback

CONCESSION STAND HOURS

Use your \$5 lunch coupon at the HPB Cafe located inside of the exhibit hall.

Tuesday 12:00 pm – 4:00 pm

Wednesday 11:30 am – 2:30 pm

EXHIBIT SPACE SELECTION FOR 2016

Every 2015 exhibiting company is assigned a time to select space for the 2016 show. If you have a question about the space selection process, please contact your booth sales representative. The space selection area is located on the far end of the hall, behind the exhibitor presentation stage.

HASHTAG

If you are posting about the conference on social media, please make sure you include the hashtag **#NFMTHPB**

LOST AND FOUND

If you lose an item within the Fort Worth Convention Center, visit the Show Office in **Room 102** across from registration.

WIRELESS INTERNET

Free wireless is available in the lobby. With a WiFi enabled device, look for and connect to the "Instant Internet" wireless network.

SHOW HOTEL:

Hilton Fort Worth
815 Main St.
Fort Worth, TX 76102
817.882.1388

CHARGING STATIONS

Need to charge your electronics? Visit one of our charging stations located in the exhibit hall, booth #214
 Sponsored by:



NFMT MEMBERS

Want to become a **NFMT Member**?
 Sign up today at **registration** for only **\$99 a year!**
 Here is a preview of what our members receive:

- » Access to handout materials prior to the event
- » Early sign-up for tours or events
- » Special registration counters
- » Members-only lounge on the exhibit floor
- » Additional lunch coupons (1 per day)
- » A **NFMT** Member shirt

Stop by registration, learn more and
SIGN UP TODAY!



EXHIBIT HALL

FORT WORTH CONVENTION CENTER

EXHIBIT HALL HOURS

Tuesday
noon - 4:00 pm

Wednesday
11:30 am - 2:30 pm

SERVICE DESK
646

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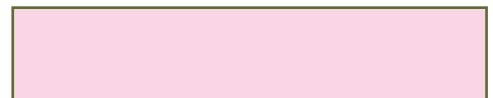
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Exhibitor Presentations

Cafe

Grand Prize

Charging Station - sponsored by



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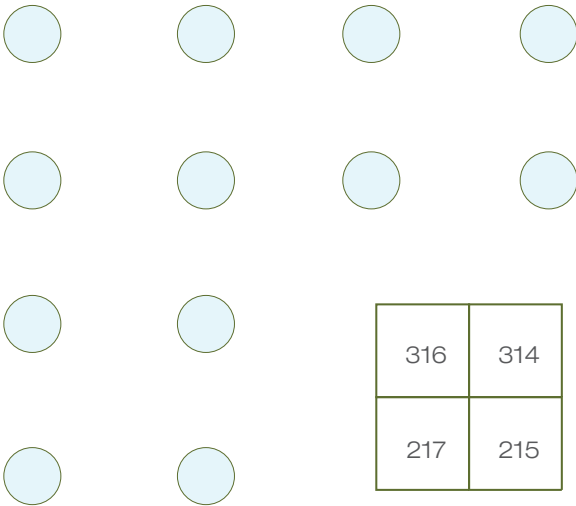
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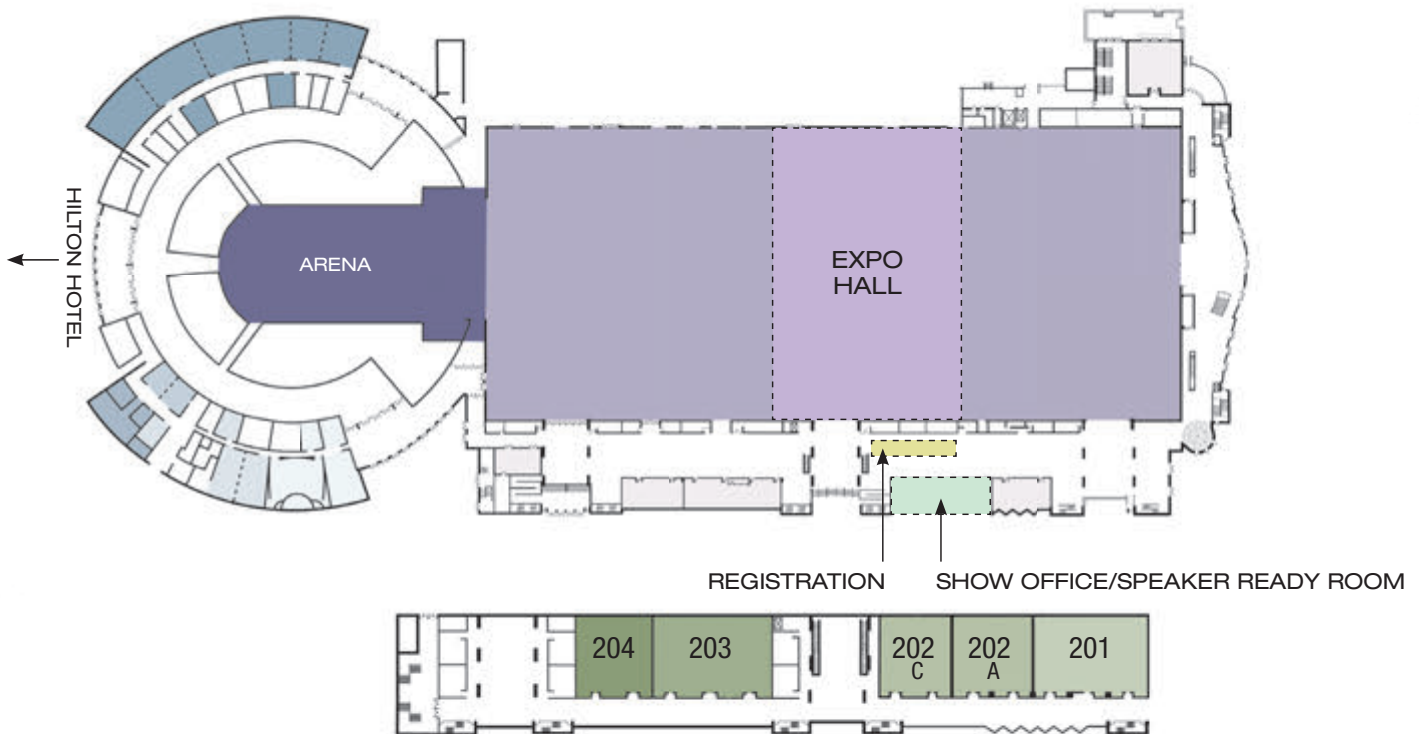
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FORT WORTH convention center

FIRST LEVEL/GROUND



SECOND FLOOR

Stop floor drain odors before they start.

Any drain. Anywhere. Every time.

SureSeal® waterless in-line drain trap seal is the preferred choice of engineers, PHC professionals and code officials across the country. SureSeal quickly and effectively solves odor problems associated with infrequently used floor drains.

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Water passes by flapper

Odors stay out

Models available to universally fit any manufacturer's ANSI/ASME A112.6.3 conforming drain.



FACILITY MANAGERS



> GREEN GLOBES FOR FACILITY MANAGERS

With roughly 80 billion square feet of existing commercial space in the United States alone, updating and modernizing existing buildings is necessary to meeting resilience, water and energy efficiency goals and to creating a healthier, safer building stock. Green Globes provides a roadmap that guides facility teams towards measures that provide a return on investment while helping managers to meet both operational and sustainability goals.

But don't take it from us, ask around:

"After the first year, we were 34% more efficient than a comparable building and that has increased in efficiency every year. We're committed to continuing to get better. Next year, we will recertify GBI and try to reach four Globes. I'm a big believer."

-Debbie Shock, Director of Operations and Facilities with the Clinton Foundation

"We recognized that there were more ways to help our building become green that we hadn't considered and earn additional certification credits in the process. We gained a lot of very good insight – not only how to be a Green Globes building right now, but also on how to progress as our building evolves and ages."

-Joe Vaughan, Manager, Application Support and Development at Mitsubishi Electric US Cooling & Heating

"We wanted to implement sustainable features that were best suited to the project, and Green Globes let us hone in on the items that were most relevant."

BRIAN KUGLER UNC Charlotte's Senior Project Manager

