SUSTAINABLE and HEALTHY BUILDINGS START at HPB+W

A Free Conference and Expo for Building Owners, FMs and AE Professionals

May 17 - 18 | Arlington, TX
“Sustainable and Green buildings is a journey, not a destination. Can never stop educating myself on the subjects, that’s where High-Performance Buildings comes in.”
— Craig Battle
Senior Manager, Facility Management
United Way of Greater Houston

GIVE US 2 DAYS.

We’ll help you make your buildings SMART, SUSTAINABLE and HEALTHY

HPB+W Story
Now in its third year, HPB+W has emerged as the industry’s leading educational resource for today’s smart, sustainable and healthy facility professionals. With sessions addressing big data, IOT, standards and codes, energy retrofits and financing – and an expo boasting the latest in lighting, automation, exteriors, enclosures and more, HPB+W showcases the emerging trends and best practices to optimize building performance.

YOUR REGISTRATION INCLUDES
35+ Sessions
Cutting Edge Expo
Network Opportunities

learn more at nfmt.com/highperformance
WHO SHOULD ATTEND?

» Directors/VPs of Facilities
» Chief Building Engineers
» Chief Sustainability Officers
» Facility Managers
» Architects
» Energy Managers
» Building Owners
» Specifying Engineers

WHAT TO EXPECT?

High - Performance Buildings + Workplaces helps you tackle every day challenges by way of the following 5 tracks:

Energy, Sustainability and Technology
Funding High Performance
Health, Wellness and IAQ
Mission Critical Focus
Smart Strategies: IOT, Data and Automation

All this and much more!

learn more at nfmt.com/highperformance

“This show helped update me in new technologies, and gave me tools to improve efficiency in my plants”

— Rodolfo Zelaya
Supervisor of Plant Operations
Texas State University
At HPB+W, attendees gain insights from leading subject matter experts eager to show you how to boost the performance of today’s (and tomorrow’s) buildings and workplaces. Our speaker lineup is studded with facility professionals, engineers, architects and consultants who will provide a roadmap you can use to drive efficiency, comfort and sustainability throughout your facility and your organization as a whole.
### SCHEDULE AT A GLANCE

#### TUESDAY
**May 16**

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<td><strong>WORKSHOP</strong> M1/2 - WK1 - Evaluating Building Water Use Efficiency and Future Costs</td>
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#### WEDNESDAY
**May 17**

<table>
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<tr>
<td>8 - 8:50 AM</td>
<td>M1/2 - W1.1 - Converged Building Networks: The Foundation of a True Intelligent Building</td>
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<tr>
<td>9 - 9:50 AM</td>
<td>M5/7 - W2.5 - Trends in Commercial Real Estate: A Study of IEQ, WELL Building Standard, BREEAM and ASHRAE Standard</td>
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<tr>
<td>10 - 10:50 AM</td>
<td>M1/2 - W3.1 - Understanding Your Smart Building Cyber Vulnerabilities</td>
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<td>3:10 - 4:00 PM</td>
<td>M1/2 - W4.1 - Assembling an Open Sourced Smart Building Team</td>
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<td>4:10 - 5:00 PM</td>
<td>M1/2 - W5.1 - What's LED Lighting Without Controls</td>
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**May 18**

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<td>8 - 8:50 AM</td>
<td>M1/2 - T1.1 - Let the Data Do the Heavy Lifting: Using Advanced Data Analytics to Improve Your Building</td>
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<tr>
<td>9 - 9:50 AM</td>
<td>M5/7 - T2.5 - Low-Hanging Fruit Grows Every 2 Years: Achieving Sustained Building Performance!</td>
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<td>10 - 10:50 AM</td>
<td>M1/2 - T3.1 - Using Big Data and Building Energy Simulation Models for Smart Energy Efficiency Investments</td>
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<td>2:10 - 3:00 PM</td>
<td>M1/2 - T4.1 - How AI, BioT and Advanced Modeling Tools Impact the Design and Operations of High Performance Build</td>
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<td>3:10 - 4:00 PM</td>
<td>M1/2 - T5.1 - BIM2FM: Leveraging BIM to Achieve High-Performance Facility Management</td>
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*learn more at nfmt.com/highperformance*
TUESDAY MAY 16

1:00 PM

ENERGY, SUSTAINABILITY AND TECHNOLOGY

Evaluating Building Water Use Efficiency and Future Costs

Bill Hoffman, Principal, H.W. Hoffman and Associates

This interactive workshop is based on water audits of a number of commercial and institutional facilities. Attendees will examine and discuss four key topics to increase their understanding and strategic use of water in a variety of facilities:

» Where and how much water is used by each operation within the facility by type
» Average reductions in water use based on the decades of water audit experience
» A look at current and future cost implications of water and sewer costs based on current inflation rates for both water and energy
» How these rising costs could impact one’s return on investment by water conservation implementation

The workshop concludes with key insights into selecting a water audit team as part of a comprehensive facility energy and water use analysis.

Audience: Intermediate

8:00 AM

ENERGY, SUSTAINABILITY AND TECHNOLOGY

Finding the money: Leveraging new financing tools for energy efficiency and renewable energy

Billy Grayson, LEED AP, Principal, Bent Branch Strategies

There is never enough money to pay for energy efficiency and renewable energy projects. As energy efficiency and renewable energy projects are getting more attractive, a number of new financing tools have hit the market. These programs will allow most building owners to make energy efficiency and renewable energy investments that reduce operating expenses and are cash-positive from day one. This webinar gives you practical advice about where to start looking for energy efficiency and renewable energy financing, and how to look out for pitfalls when choosing the right strategy to pay for your project.

Audience: Intermediate

8:00 AM

SMART STRATEGIES: IOT, DATA AND AUTOMATION

Converged Building Networks: The Foundation of a True Intelligent Building

Bob Allan, Global Business Development Mgr, Intelligent Buildings, Siemon

The Internet of Things (IoT) is changing the way of life as we know it, and low-voltage building system devices and LED lighting with advanced, embedded sensors are now converging on a single IP network and being powered by advanced power over Ethernet (PoE) technologies. These trends are reshaping buildings and workspaces, providing substantial capital and operational savings. For these advantages to come to fruition, the physical cabling infrastructure that supports it all must ensure maximum reliability and performance for devices and should be designed in a way that is ideally suited for the convergence of devices over one unified network.

Audience: Beginner

9:00 AM

ENERGY, SUSTAINABILITY AND TECHNOLOGY

Strategies for Improving Energy Performance in Existing Buildings

Nick T. Floyd, Senior Project Manager, Simpson Gumpertz & Heger

Amrish K. Patel, Senior Staff II, Simpson Gumpertz & Heger

Improving energy performance of existing buildings can be challenging. Existing building design and performance criteria may not be available, requiring investigation and analysis to understand a baseline level of performance before considering upgrades. Building envelope improvements in particular may not significantly improve the overall building energy performance if improperly designed or implemented. This presentation reviews existing building energy performance assessment, examines a variety of building envelope upgrades and modifications, and presents practical examples showing how poorly thought out improvements provided little to
no improvement to the building’s energy performance or resulted in detrimental to long-term effects.

**Audience: Beginner**

**9:00 AM**

**HEALTH, WELLNESS AND IAQ**

**Trends in Commercial Real Estate: A Study of IEQ, WELL Building Standard, BREEAM and ASHRAE Standard**

*Jake Steiner MSE, MBA, CEP, LEED AP WELL AP, Regional Manager, Healthy Buildings*

It is widely known that buildings have the potential to cause great swings in the performance of occupants. Owners and occupants of buildings have the common financial goal of economic returns, yet efficiencies have traditionally been measured in energy use. Decision makers have been reluctant to use human productivity as a tool because it has been hard to measure. With over 25 studies completed, capped by a landmark Harvard Study, the jury is in. There is a spectacular relationship between indoor air quality and human cognitive function, unleashing an entirely new set of economic considerations when operating commercial property.

**Audience: Intermediate**

**10:00 AM**

**SMART STRATEGIES: IOT, DATA AND AUTOMATION**

**Understanding Your Smart Building Cyber Vulnerabilities**

*Fred Gordy, Director of Cyber Security, Intelligent Buildings*

The race to Smart Buildings systems interoperability has not been the only thing to create “holes” in cyber security of these systems. These systems and the integration practices around them along with high priority on the openness and ease of use have multiplied the risk. Attendees will come away with an understanding of how to review their systems as a whole to identify risk.

**Audience: Advanced**

**10:00 AM**

**FUNDING HIGH PERFORMANCE**

**PACE Financing: Overcoming the Domino Effect of Comprehensive Building Upgrades**

*Scott Ringlein, BSME, MSME, Founding Partner, The Energy Alliance Group of North America*

Comprehensive approaches to building upgrades can be likened to dominos falling: One element of an upgrade affects another, and can be delayed completely in favor of a piecemeal approach. While comprehensive upgrades undoubtedly save money in the long run, paying for them is the main obstacle. An emerging approach is the Property Assessed Clean Energy program, better known as PACE. This session provides an in-depth overview of the program and demonstrates how it can cover 100 percent of project costs to eliminate the domino effect of a comprehensive facility upgrade.

**Audience: Intermediate**

**10:00 AM**

**ENERGY, SUSTAINABILITY AND TECHNOLOGY**

**How Buildings Use Water**

*Bill Hoffman, Principal, H.W. Hoffman and Associates*

The water and sewer bills come and get paid, but how is the water used—and how much should a typical commercial operation use compared to the competition? This presentation is based on the examination of current literature, decades of facility audits, extensive literature reviews, and benchmarking studies from across the USA and world that include tens of thousands of data points. Attendees will discover how building location impacts water use, and learn about the most current building water use information from national sources including the EPA Water Sense Program, the DOE Energy Information Administration Commercial Buildings Energy Consumption Survey, EPA Energy Star Portfolio Manager database, and cities across the nation now requiring benchmarking of water use in commercial buildings.

**Audience: Intermediate**

**10:00 AM**

**HEALTH, WELLNESS AND IAQ**

**Innovative Workplaces and WELL Certification**

*Raymond Carney, WELL AP, Vice President, Markon Solutions*

The WELL Building Standard™ is the first building standard to focus on enhancing people’s health and well-being through the built environment. WELL Certification (and enhancing the seven concepts of air, water, nourishment, light, fitness, comfort, and mind) will assist you in designing and operating a workplace that benefits your employees’ overall well-being. The WELL Building Certification is an evidence based system for measuring, certifying, and monitoring the performance of building features that impact health and well-being of our workers. Learn what you can do to improve the work space for your employees.

**Audience: Beginner**

**10:00 AM**

**ENERGY, SUSTAINABILITY AND TECHNOLOGY**

**An Energy Saving Project Report Card: Six Criteria to Evaluate Energy Efficiency Projects**

*Jeff Julia, Manager, Energy Project Advisors*

The process of evaluating energy efficiency projects is a murky one that time and resource constrained professionals are challenged with. After working on nearly $500M in energy efficiency projects over the last 6 years, the presenter has committed himself to making the process transparent and consistent. In this presentation, Julia presents the six tried and true criteria for effective evaluation of a project. These include provider, equipment, savings/benefits, incentives/tax credits, payment terms/options and needs alignment. Participants will gain an understanding of each criteria and a framework to evaluate them gaining first hand experience using the tools provided.

**Audience: Advanced**
3:10 PM

HEALTH, WELLNESS AND IAQ

Using Efficiency to Afford Improved Indoor Environmental Quality
Christopher Walinski, CEA, Building Operations Manager, Munich Reinsurance America, Inc

Increasingly, studies are providing empirical evidence of the health benefits of improving indoor environmental quality. Reports such as Harvard University’s, “The Impact of Green Buildings on Cognitive Function”, and studies released in areas such as circadian rhythm lighting, show the potential health and productivity benefits to occupants and employers. This conversation will discuss strategies of how facilities can implement some of these improvements while still operating in a manner that was energy efficient and cost conscious.

Audience: Advanced

3:10 PM

SMART STRATEGIES: IOT, DATA AND AUTOMATION

Assembling an Open Sourced Smart Building Team
John Fabian, Director of Business Development, LVC
Ross Nelson LEED AP BD+C, CEM, General Manager, Harris Controls

“Technology meets energy and resource efficiency” is at the heart of today’s smart building. Whether building a new building or converting an existing structure, assembling the right team is imperative. Building design and uses vary, and it’s rare a single contractor will completely fit the bill, forcing you to compromise to accommodate their capabilities. Learn how to assemble a team that eliminates compromise and results in the end product you want. We will walk you through the process of identifying the anatomy of your dream team, sourcing experts and discuss the ongoing benefits of an open sourced smart building.

Audience: Beginner

3:10 PM

FUNDING HIGH PERFORMANCE

100% Financing for Efficiency Projects in Commercial Buildings
Jonathon Blackburn, Managing Director, Texas PACE Authority

The property assessed clean energy (PACE) model is an innovative mechanism for financing efficiency and renewable energy improvements, allowing commercial property owners to fund up-front costs of energy and water improvements from HVAC to building envelope upgrades to solar and more. This session provides real-world examples of how to leverage this financing to initiate an energy or water retrofit project.

Audience: Intermediate

3:10 PM

ENERGY, SUSTAINABILITY AND TECHNOLOGY

Direct Current Energy Systems: The Buildings of the Future are Here
Andrew Yip, Manager - Business Development, Bosch

Direct current (DC) microgrid technology is redefining how energy is generated and consumed, proving to be more attractive and innovative for commercial building owners than existing state of the art technologies. The DC microgrid removes power conversion devices to lower the cost of solar PV and energy storage ownership, improves building load efficiencies, and provides reliability and resiliency to these facilities. The DC microgrid approach promotes the penetration of renewable energy and energy efficiency technologies to better serve emission reduction and zero net energy goals. Attendees will gain an understanding of DC microgrids and its applicability to their facilities.

Audience: Beginner

4:10 PM

SMART STRATEGIES: IOT, DATA AND AUTOMATION

Leak Detection in Today’s Connected Buildings
Laurie Conner, President and CEO, The Detection Group, Inc.

Water leaks in commercial buildings are the leading cause for insurance claims and add up to more than claims for theft and fire combined. Water leaks also have a negative effect on tenants and can require relocating tenants for extended periods of time, which impacts rents. The advent of wireless technology has changed this equation. Now, low cost wireless sensors that detect and notify management instantly of water leaks can be installed throughout commercial buildings wherever there is a potential for leaks. This presentation will discuss what to look for in a commercial-grade leak detection system.

Audience: Intermediate

4:10 PM

SMART STRATEGIES: IOT, DATA AND AUTOMATION

What’s LED Lighting Without Controls?
Marc Migliazzo, Vice-President / Partner, EIS Lighting

It’s not just about how to pick the right LED lights or retrofit kits, you need to look past that and see the big picture. And what is the big picture? It’s answering the questions like; how will you use the new lights and what is the best plan to control them? LEDs can do so much; on/off at will, dimming, daylight harvester, etc., but only if you have the right controls that work with the new LEDs. From wall switches to building controls: what is your plan? Attend this session to put a solution in place.

Audience: Beginner
4:10 PM

**ENERGY, SUSTAINABILITY AND TECHNOLOGY**

**Drones: The New Frontier in Building Performance Testing**

Gerald Delaune RRO, RRC, REWC, WUFI, ITC, Project Consultant, Conley Group
Gary Williams, PMP, Senior Project Manager, Conley Group
Grant Hagen, EIT, Virtual Design & Construction Manager, The Beck Group
Thea Junt, LEED AP BD+C, Associate Director for Energy Conservation and Sustainability, UT Dallas Facilities Management
Norma Lehman, Associate Principal, The Beck Group

As the market drives toward a net zero energy economy and increased emphasis on occupant health and well-being, the importance of the building envelope is paramount in both new and existing buildings. Traditional thermal imaging is a common, non-destructive way to uncover thermal bridging, insulation failures, air leakage, moisture intrusion and degradation of infrastructure but can be limiting, labor intensive and pose safety issues. By utilizing the cutting edge application of drones, we can now investigate building performance issues in a fast, safe, and non-destructive manner. This session will provide an overview of the issue, tools for investigation, evaluation methods, solution and results for a building on the campus of the University of Texas at Dallas.

**Audience:** Intermediate

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4:10 PM

**HEALTH, WELLNESS AND IAQ**

**New Standards for Indoor Environments**

Simon Turner, LEED AP, WELL AP, CEO, Healthy Buildings

The intersection of cognitive function research, WELL standards and new legionella standards from ASHRAE; breathing new life into our understanding of how humans interact with their indoor environments. During this session, attendees will gain an understanding on integrating the big picture of recent, game-changing studies that are revealing the power of indoor environmental quality and the impact on human performance. IAQ has massive potential to improve corporate productivity. Mr. Turner will share results of the most recent study (published by the Harvard School of Public Health), as well as anecdotes from his 30+ years of indoor environmental experience.

**Audience:** Intermediate

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4:10 PM

**SMART STRATEGIES: IOT, DATA AND AUTOMATION**

**When the Machines Take over the Buildings**

Jim Sinopoli, Managing Principal, Smart Buildings, LLC

Building automation, building operations and related controls are going to be quite different in the near future: Automation will be less about wrenches and screwdrivers and more about a new vocabulary that includes artificial intelligence, robotic process automation, open edge software, self-managing systems, self-organizing networks, self-optimization systems and self-learning systems. These newer concepts will take some time to understand and absorb for facility owners and staff but in time it will become clear that self-learning systems can be just “another tool for the tool belt”; providing key information for the issues facility engineers are addressing. Attend this session to learn what’s needed for higher-level building automation.

**Audience:** Intermediate

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8:00 AM

**SMART STRATEGIES: IOT, DATA AND AUTOMATION**

**Let the Data Do the Heavy Lifting: Using Advanced Data Analytics to Improve Your Building**

Keith La Rose, Director of Business Development, CopperTree Analytics

Many buildings have building automation systems which are producing massive amounts of data each day. That data is often discarded and not used to its full potential to bring value to the building owners, operators and occupants. This session will explore how advanced analytics software technology is unlocking the power of that data, by turning it into actionable insight which helps improve energy efficiency, occupant comfort, and capital equipment longevity. Real-world case study examples.
will be showcased, as well as a broad technical discussion about the state of the art in building analytics technologies.

**Audience:** Intermediate

**8:00 AM**

**ENERGY, SUSTAINABILITY AND TECHNOLOGY**

**Navigating New LEED EB Certifications**

Craig Sheehy, CPM, LEED AP, President/CEO, Envision Realty Services

The session will include ways to simplify the LEED EB process and how to drive the business case value proposition. LEED EB Re-Certification Guidelines have been released; are your previously certified projects collecting the necessary documentation between certifications to become re-certified? Will the process be easy or painful? What do you need to know about LEED EB V.4? What is LEED Dynamic Plaque?

**Audience:** Beginner

**9:00 AM**

**ENERGY, SUSTAINABILITY AND TECHNOLOGY**

**Low-Hanging Fruit Grows Every 2 Years: Achieving Sustained Building Performance!**

Mahesh Tharoor, Energy & Sustainability Consultant, Building managers often wish for technology and major capital upgrades for their buildings. As the quick ROI projects gets done first, the higher capital projects often get left behind. But, the low hanging fruit continues to grow every year. This presentation explores Transwestern’s best practice approach and ongoing measurement system to ensure buildings operate at high performance and opportunities are uncovered frequently. A few case study examples will be shared on uncovering low cost/no cost opportunities. Finally, examples of implementing capital projects with zero upfront capital will be discussed.

**Audience:** Intermediate

**10:00 AM**

**SMART STRATEGIES: IOT, DATA AND AUTOMATION**

**Using Big Data and Building Energy Simulation Models for Smart Energy Efficiency Investments**

Mark Ellsworth, Vice President of Sales, Bractlet

Buildings are complex, with millions of interactions between equipment systems, the environment, and occupants. How can you know exactly how your building will respond to system optimization and equipment retrofits? How do you make sense of all the technology out there being offered to improve your facilities energy efficiency? This session will give attendees insight into how they can unlock the value of their buildings using big data analytics and building energy simulation (BES) models. Have confidence that you’ll get the ROI you want with every investment using data analytics and physics-based digital representations of your facilities.

**Audience:** Advanced
Audience: Beginner

hundreds of topics, case studies, tools, and CE courses. WBDG offers information for the entire project team from contractors and facility managers, their masterpiece among which are BIM, GIS, COBie, CAFM and CMMS. To achieve that goal, they also need the right tools, craftsmen, no matter how experienced, need the right tools to create a masterpiece. For building designers, contractors and facility managers, their masterpiece is a functional, resilient, high-performance building. To achieve that goal, they also need the right tools, among which are BIM, GIS, COBie, CAFM and CMMS. But there is one more indispensable tool missing from this list - the Whole Building Design Guide® (WBDG). The recently updated WBDG is an online resource that provides information for the entire project team from an integrated, whole building perspective. WBDG offers hundreds of topics, case studies, tools, and CE courses.

Audience: Advanced

10:00 AM
ENERGY, SUSTAINABILITY AND TECHNOLOGY
ASHRAE 90.1 2016 and IECC 2015: Understanding their Impact
Gary Short, PE, President, sys-tek
This presentation will examine how energy codes develop and how they have evolved over the last 20 years. It will also focus on the positive impacts the energy codes and high performance buildings have had on the U.S. economy and how they have contributed to the reduction of carbon emissions. Gary will discuss how to interpret the energy codes and how these codes will have an impact on both new construction and existing renovation. Finally, it will explore the various options in implementing the codes and discuss the advantages and disadvantages of the various options allowed.

Audience: Intermediate

10:00 AM
MISSION CRITICAL FOCUS
The Whole Building Design Guide: The Right Tool to Achieve Resilient, High-Performance Buildings
Craftsmen, no matter how experienced, need the right tools to create a masterpiece. For building designers, contractors and facility managers, their masterpiece is a functional, resilient, high-performance building. To achieve that goal, they also need the right tools, among which are BIM, GIS, COBie, CAFM and CMMS. But there is one more indispensable tool missing from this list - the Whole Building Design Guide® (WBDG). The recently updated WBDG is an online resource that provides information for the entire project team from an integrated, whole building perspective. WBDG offers hundreds of topics, case studies, tools, and CE courses.

Audience: Advanced

10:00 AM
ENERGY, SUSTAINABILITY AND TECHNOLOGY
Building Performance Strategies
Doug Pearson PhD, EM, CEA, CFM, LEED, Executive Director Facilities Planning and Management, UW-La Crosse
Sustainable building performance strategies consist of six fundamental components; site, energy, water, materials, indoor air quality, and maintenance. Optimizing the site takes into consideration the location, orientation, landscaping, impact on neighborhood and local ecosystems, transportation, parking, and physical security. Optimizing energy use will minimize dependence on fossil fuels by maximizing energy efficiency, and incorporating renewable energy technologies into the final design. Architects, builders and owners need to consider the concept of net zero energy buildings on every project.

10:00 AM
MISSION CRITICAL FOCUS
Mission-Critical Retrofits in High Threat Environments
Richard Hill, Facilities Administrator, Hawaii Electric Light
Are you responsible for a data center, communications facility or central plant vulnerable to hurricanes, earthquakes or other lurking natural disasters in your area? Then your CIP must be both aggressive and effective in protecting your facility and its assets. You must do more than risk analysis. You must develop an action plan that adequately funds, accurately plans and properly executes a defense against natures most awesome threats which can easily jeopardize your enterprise. This case study details an award-winning team-approach to ensuring success in one of the highest threat environments a facility manager can face - Hawaii Island.

Audience: Intermediate

10:00 AM
MISSION CRITICAL FOCUS
Direct Current Battery Technologies in Mission Critical and Commercial Buildings
David Geary, PE, Vice President, Power Analytics
Keiichi Hirose, PhD, Executive Manager, NTT Facilities Inc.
Sustainability, reliability, capital and operating expenses, these terms drive decisions during the design, construction and maintenance of facilities. A central focus within these decisions is the electrical requirements of facility inhabitants. Even as technology has changed on a variety of levels, the basic infrastructure that generates and distributes electricity has not. Today’s business and social challenges require new solutions for electricity generation and distribution. Solutions based on direct current technology (DC) provide a path forward. Although DC based power was discounted many years ago, technology and process improvements have made DC solutions.

Audience: Advanced

2:10 PM
MISSION CRITICAL FOCUS
Existing Building Commissioning for High-Performance Buildings
Tony DiLeonardo, LEED AP, CxA, President, Wick Fisher White
In today’s economy and culture, more owners, facility managers and building operators are looking for ways to decrease utility and maintenance costs. However, their time ends up being spent trying to maintain and repair building systems that should be working properly, but over time, have deteriorated. The presentation will guide attendees through each phase of the existing building commissioning process based on BCxA Best Practices and other industry resources, and will show how this process can be implemented into a facility’s annual routine in an effort to improve building maintenance and operation.

Audience: Intermediate

2:10 PM
SESSIONS
a viable and attractive options for mission critical and commercial properties.

Audience: Intermediate

2:10 PM
SMART STRATEGIES: IOT, DATA AND AUTOMATION
How AI, BIoT and Advanced Modeling Tools Impact the Design and Operations of High Performance Build
David Ellis, PE, LEED AP, Principal, Green MEP Engineering PLLC
It is an exciting time to be involved in the design and management of facilities focused on high performance buildings. In the near future, emerging technologies in sophisticated energy modeling, growth in the Internet of Things into distributed components, and the potential of design and operations enhancements through the application of Artificial Intelligence tools will provide the foundation for growth in high performance buildings. This presentation provides an overview of how these technologies are evolving and will be employed.

Audience: Intermediate

3:10 PM
MISSION CRITICAL FOCUS
Commissioning to Ensure Performance in Data Centers and Mission Critical Buildings
Wade Messer, PhD, Chief Operating Officer, Genelco Inc.
There are many reasons for the paradigm shift in commissioning strategies. One of them is the understanding that self-performing the Cx portion of a project is like “the fox guarding the hen house”. This mindset and recent trend is no longer the norm when it comes to commissioning. There is a real sense of urgency to develop a sound and thorough testing and scripting mindset, which can prevent costly disasters post turnover. Find out about this and other reasons to utilize a commissioning company at our session titled: “Commissioning to Ensure Performance”.

Audience: Intermediate

3:10 PM
ENERGY, SUSTAINABILITY AND TECHNOLOGY
Why Today’s Design, Controls and Commission Construction Process Delivers Inefficient Buildings
William Gnerre, CEO and Co-Founder, Interval Data Systems
Gregory Cmar, CTO and Co-Founder, Interval Data Systems
In this session you’ll learn why most new buildings run inefficiently wasting energy and maintenance labor. A case study will show how each of the three main players—design engineers, control contractors and commissioning authorities—contribute to this situation. The presenter will show why today’s purchasing process is a main culprit in inefficient buildings, and participants will also learn how ASHRAE 36-P can be used to operate buildings more efficiently.

Audience: Intermediate
CHECK OUT WHO’S EXHIBITING*

High-Performance Buildings and Workplaces will offer endless opportunities to learn and meet other likeminded professionals.

After listening to compelling conference sessions, walk into the Expo Hall to network and learn about new, innovative products and services. There are over 100 exhibitors at HPB+W waiting to talk with you about the new, specialized products and services they have been developing and modifying to bring to market.

*Exhibitor list as of April 5, 2017

EXPO HALL HOURS

WEDNESDAY, MAY 17 | 11AM–3PM
THURSDAY, MAY 18 | 11AM–2PM

PRODUCTS & TECHNOLOGIES ON DISPLAY

Air Cycle provides simple, sustainable recycling solutions for organizations. The Bulb Eater® reduces required storage space for fluorescent bulb recycling by up to 80% while cutting recycling costs in half. EasyPak™ - fast, convenient recycling by mail. Large quantity bulk recycling pickups for lamps, ballasts, batteries, electronics and more. Get the best prices and service by utilizing our nationwide network.

Apogee Enterprises designs, manufactures, installs, and renovates windows, curtainwalls, storefront and entrances for commercial buildings. Our companies include Viracon, Wausau Window and Wall Systems, Tubelite, Alumicor, Linetec and Harmon, Inc.. Our products offer some of the highest performing glass and aluminum in the industry. See us about our free energy modeling.

ARC Document Solutions, Inc. provides technology and services focused on document and information management for facilities managers. Our solutions reduce costs and increase efficiency in our customers’ offices, in their archives, and for their projects. Our services and solutions help you manage the volume, complexity, and workflow of digital information and hard copy documents by improving access and control over your content and information.

Automated Logic is a global leader in building automation systems. As a part of United Technologies, we make data big in all types of buildings by designing and developing intuitive, intelligent, complete controls and interfaces that make it easy for building owners and managers to balance efficiency with occupant comfort.

BOMI International, a nonprofit educational organization founded in 1970, provides education and expertise to property, facility, and building systems management personnel. Over 90,000 industry professionals have turned to BOMI International’s courses, certificates, and industry-standard designations to meet their continuing education, professional development, and staff training needs. Learn more at www.bomi.org.

Connectrac floor-mounted cabling access systems are innovative alternatives to core drilling, raised floor systems and power poles for power/voice/data connectivity. Connectrac wireways offer elegant and discreet technology access in open interior spaces through our ADA compliant “In-Carpet” or “On-Floor” styles. Through Connectrac, connectivity can be simplified conveniently and affordably.
DURO-LAST ROOFING INC.
525 Morley Drive Saginaw, MI 48601
800-248-0280 | www.duro-last.com

Duro-Last® Roofing Inc. is a national roofing manufacturer which produces a prefabricated, reinforced thermoplastic single-ply roofing system for commercial and industrial (flat, low-sloped, new or metal retrofit) applications. The Duro-Last roofing system is energy-efficient, leak-proof, and virtually maintenance-free. Duro-Last is proud to be a charter partner in the EPA’s ENERGY STAR Roof Products Program.

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High-Performance Buildings and Workplaces will help shift your career into high gear and chart the course to become an educated influencer in your organization. You will discover intelligent, innovative ways to challenge the status quo while discovering fresh approaches to boosting your building’s performance. Here are a few ways HPB+W makes it possible:

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Earn CEUs for every session you participate in at HPB+W. Approximately 10 days after the conclusion of HPB+W you’ll receive email with a link to assessment questions for every session you were scanned into. After successfully answering four true/false questions you will receive a transcript indicating the CEUs earned. That transcript can be used to self-report to any licensing body or association needed. NFMT provides attendees CEUs for no additional charge.

OPENING NIGHT NETWORKING PARTY

Join your fellow attendees as we cut loose at the end of the first day of HPB+W. Appetizers, beer and wine will be complimentary for all participants.

Trade Press Media (HPB+W) has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102; (703) 506-3275. HPB+W is authorized by IACET to offer 0.1 CEUs for each conference session.
HOTEL
HPB+W has partnered with the Sheraton Arlington. Attendees can take advantage of the discounted rate of just $159/night. Your HPB+W rate includes:

» Complimentary high speed internet access in all guestrooms
» Complimentary shuttle services to and from DFW International Airport
» Jogging Path
» Free Parking for hotel guests

TRAVEL
TRAVEL DATES (all methods):
May 14, 2017 – May 21, 2017

AIRLINES:
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You may book online at www.united.com and enter your Offer Code ZX89397964 in the Offer Code box when searching for your flights.

Telephone reservations by calling United Meetings at 800-426-1122 and provide the Z Code ZX89 and Agreement Code 397964.

Please note phone reservations are subject to a processing fee.
OFFER CODE: ZX89397964

BY TRAIN:
Amtrak offers a 10% discount off the best available rail fare to (Fort Worth, TX) between May 14, 2017 – May 21, 2017. To book your reservation call Amtrak at 1 (800) 872-7245 or contact your local travel agent. Conventions cannot be booked via Internet. Please be sure to refer to Convention Fare Code X19C-954 when making your reservation. This offer is not valid on the Auto Train and Acela Service. Fare is valid on Amtrak Regional for all departures seven days a week, except for holiday blackouts. Offer valid with Sleepers, Business Class or First Class seats with payment of the full applicable accommodation charges.

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Telephone Reservations: 1 (800) 331-1600, provide reservations agent with AWD Number D105518 to ensure the best available car rental rates.

Rates Effective May 10 to May 25
AWD NUMBER: D105518

CONFERENCE ATTIRE
Business Casual attire is suggested for all HPB+W attendees.

WEATHER
In mid-May you can expect to find Arlington temperatures in the 80s during the day, falling to mid-60s in the evenings. It can be humid and rain this time of year, so it may be helpful to pack an umbrella.

LOCATION
HPB+W takes place at the Arlington Convention Center, smack in the heart of the Entertainment District. Not only is Arlington considered the entertainment capital of Texas, the city is at the center of the largest metropolitan area in the state and is home to three professional sports teams, the largest business park in North Texas, and one of the fastest growing research institutions in the United States. In other words, it’s a high-performance city and a perfect place for the 3rd annual HPB+W.

As an attendee you are part of the conference’s many important discussions and debates on the successes and challenges of today’s emerging smart, sustainable building market.

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