

# BUILDING OPERATING MANAGEMENT'S NFMT 2014

National Facilities Management & Technology March 4-6, 2014 • Baltimore

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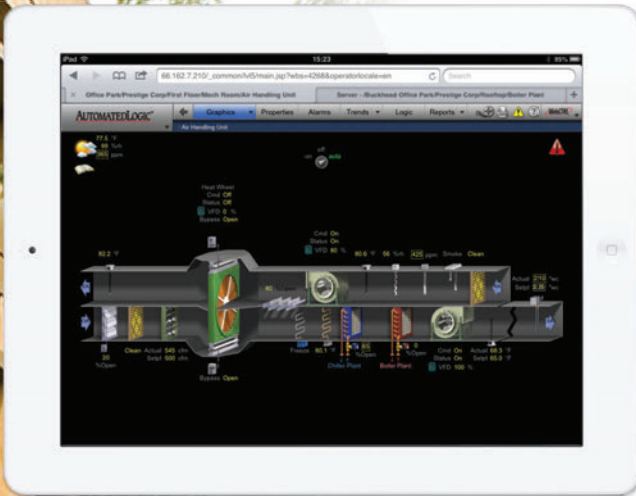
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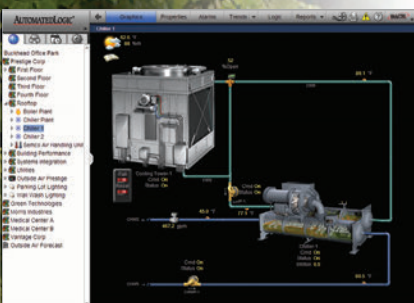
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# BUILDING OPERATING MANAGEMENT'S NFMT2014

National Facilities Management & Technology March 4-6, 2014 • Baltimore

## Schedule

### Tuesday

8:00 – 11:50 a.m. .... Conference Sessions  
 Noon – 4:00 p.m. .... Exhibit Hall Open  
 3:45 p.m. .... \$1,000 Drawing  
 4:00 – 5:00 p.m. .... Networking Party

### Wednesday

7:45 – 8:50 a.m. .... Solutions Exchange  
 9:00 – 10:50 a.m. .... Conference Sessions  
 11:00 a.m. – 3:00 p.m. .... Exhibit Hall Open  
 2:45 p.m. .... \$1,000 Drawing  
 3:10 – 5:00 p.m. .... Conference Sessions

### Thursday

8:00 – 10:50 a.m. .... Conference Sessions  
 11:00 a.m. – 2:00 p.m. .... Exhibit Hall Open  
 1:45 p.m. .... \$1,000 Drawing  
 2:10 – 4:00 p.m. .... Conference Sessions



# Welcome to NFMT 2014!

For the first time in five years the financial outlook for the coming year is positive! We're starting to see optimism among exhibitors, attendees and speakers who are talking about new and retrofit construction initiatives, formerly delayed projects getting reinstated and budgets being restored. These positive trends provide a real opportunity for facilities professionals to tackle new projects, positions and goals. And this year's NFMT is aimed right at helping our attendees meet their goals.

Our fifth annual "Women in FM" Panel and Reception will offer a distinct view of how women are forging new paths in the industry. Our esteemed panel will address the many major issues professional women face in any industry. The panel takes place Wednesday afternoon in room 345.

In recent years, facilities managers dealt with depleted departments, postponed retirements, and limited upward mobility for both their staffs and themselves. As we begin the climb out of tough fiscal times, we see opportunities for younger professionals to enter and excel in the profession. This exciting, emerging trend is why we are gathering young FM professionals on Thursday morning in room 349 for an interactive discussion on career opportunities and advancement in our industry.

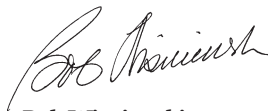
As we focus on growing the industry, the federal government is setting the stage with an unprecedented training goal: the Federal Buildings Personnel Training Act. This year, in conjunction with the GSA, NFMT is host to FBPTA Industry Day on Wednesday in Room 316. This extended session will highlight training programs available to federal government employees to successfully comply with the act.

One of the major goals of the Federal Building Personnel Training Act is to educate federal employees to operate buildings as efficiently as possible. Smarter energy use has been a key message at NFMT since our inception in 2001. The end-game has always been to decrease the amount of energy use in non-residential buildings. This year we have a robust energy track to explore during the three days here in Baltimore. We are also excited to announce the expansion of this topic at our new event NFMT: High Performance Buildings Conference and Expo taking place June 2-3, 2015 in Fort Worth, Texas. Stay tuned for additional information regarding this new event.

At NFMT we strive to create an environment where you can gather tools and information to help execute your job to the best of your ability, and identify opportunities to network and connect with your peers to ensure high job satisfaction.

As always we value your input and feedback on all aspects of the show. Enjoy your time at NFMT!

Sincerely,



**Bob Wisniewski**  
President & CEO  
NFMT



## Future NFMT Events

### NFMT Vegas

October 7-8, 2014

Mandalay Bay Convention Center

### NFMT 2015

March 10-12, 2015

Baltimore Convention Center

### NFMT High-Performance Buildings

June 2-3, 2015

Fort Worth Convention Center

For more information please visit

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# Show Highlights

Make sure to take advantage of these special opportunities...



## Tuesday

### General Session –

FMXcellence: Elevating the Role of Facilities

8:00 a.m. – 8:50 a.m. • Room 316

The fifth annual FMXcellence Panel honors six different organizations which have undergone major projects that have added value to the organization and raised the exposure of the facilities department. Attend this session to hear the stories of these impressive organizations.



### Opening Night Networking Party

4:00 – 5:00 p.m. • Pratt Street Lobby

As the first day of the conference wraps up, join us in the Pratt Street lobby for some food, drinks and lively discussion. All attendees and exhibitors are welcome to join us!

## Wednesday

### Solutions Exchange

7:45 – 8:50 a.m. • Pratt Street Lobby

### Coffee and Conversations

Join over 20 industry experts to discuss important trends and technology that will help run your facility more efficiently and effectively. You'll have a chance to participate in up to three roundtable discussions. Topics include CMMS, energy efficiency, roofing, data centers and more. Please see page 10 for topic descriptions.

### Federal Building Personnel Training Act: Industry Day

8:00 a.m. – 5:00 p.m. • Room 316

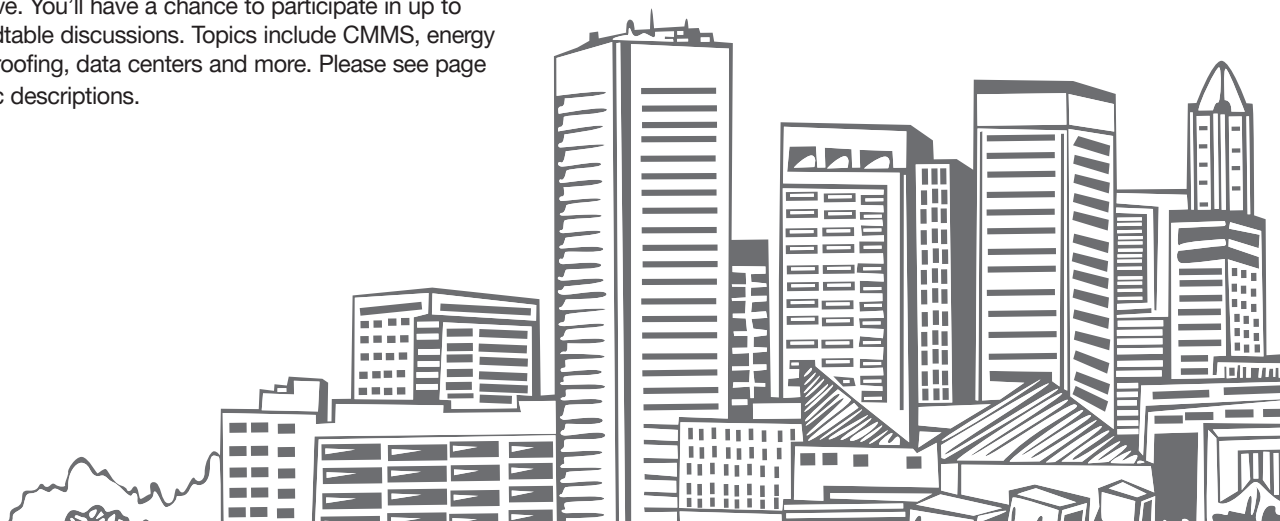
It all starts here, the premiere event to gain the necessary awareness of the Federal Buildings Personnel Training Act (FBPTA), how it will affect you, your training offerings, and your employees. Learn how you can submit your courses, certifications, and certificate programs to be mapped to the competencies in the FBPTA. Hear from the National Program Manager with the General Services Administration, responsible for the implementation of the FBPTA, about the benefits of mapping your education offerings to the FBPTA competencies. Join recognized experts in the field of facility management to identify how they can support your FBPTA compliance educational needs.

### 2013 Women in Facilities Management Roundtable Panel and Reception

3:10 – 6:00 p.m. • Room 345 and Howard Street Lobby

Every year we develop an esteemed panel of female facilities managers and this year is no different. This interactive panel will discuss the issues that you want to talk about. After the panel join us to continue the discussion during a wine and cheese reception to honor women in the fields of facilities management, property management, engineering and sustainability.

*Both the Women in Facilities Management Roundtable and Reception are sponsored by:*





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## Thursday

### General Session – Complaints: How to Deal with the Negativity

8:00 a.m. – 8:50 a.m. • Room 316

- Marc Fischer, CPM, RPA, CCIM, Senior Vice President & Director, Management Services, Transwestern
- Susan Mazur-Stommen, Behavior and Human Dimensions Program Director, American Council for an Energy-Efficient Economy
- Teena Shouse, CFM, IFMA Fellow, Vice President, Facility Engineering Associates

The facilities department is the de facto complaints department in any organization. And most any FM has a story or two of some of the doozies they've been faced with, whether the complaint was outrageous, frivolous or just bizarre. Come listen to some of the situations fellow FMs were faced with, as reported in a recent Building Operating Management reader survey, and share your own stories. A panel of industry experts will offer insight on strategies for handling particular situations and how to walk the fine line between providing good customer service and chasing fires all day.

### Facilities Management Young Professionals Panel

9:00 – 10:50 a.m. • Room 349

- Damon Gonzales, CFM, VP for Facilities Management, Davenport University
- Kevin Blanchard, Assistant Facility Manager/COTR, National Air & Space Museum, Steven F. Udvar-Hazy Center, Smithsonian Institution
- John Lucien Grillo, Facility Manager, Google

New this year, we take indepth look at the next generation of facilities managers. Join our panel of three young professionals as we explore how to develop your career.

## All Three Days

A head full of knowledge, a pocket full of cash!

### Alumni Pin \$50 Giveaway

Show your NFMT pride and wear your alumni pin in a prime location. You might be a lucky alumni to win \$50 on the spot. One winner will be selected every half hour in the exhibit hall during expo hours. You should have received your pin at reigstration.

### \$1,000 Daily Cash Drawing • Booth #600

Tuesday 3:45 p.m. • Wednesday 2:45 p.m. • Thursday 1:45 p.m.

Your lucky ballot is in your tote bag. Have the ballot stamped at both booth #2123 and #2129. Join us for the daily drawing each day to hear your name called. You must be present to win, no need to resubmit each day. Please see the enter-to-win ballot for full rules and regulations.

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### Lunch Coupons

We know the exhibit hall is large and you'll need to refuel. Use your \$8 discount food coupon in the NFMT Café, located in the exhibit hall.

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Booth #1020



Booth #807



Booth #907



Booth #722



Booth #2531



Booth #2389

MARYLAND



Booth #1022



# Solutions Exchange

Attend Solutions Exchange, and join industry experts as you participate in short, interactive discussions on changing technology and trends.

7:45-8:50 AM

PRATT STREET LOBBY

Choose up to THREE topics from the list below:

## Sponsors

### Spot Cooling Solutions for Every Facilities Manager

You'll walk away with a handy ten-point checklist to help with your next air conditioning emergency, plus you'll get answers to questions you never thought to ask. Join our discussion to learn how to use portable air conditioning as an affordable solution for backup, emergency, supplemental, primary and disaster recovery cooling.



### Energy Efficient Building Automation

With rising energy costs and tighter operating budgets, the ability to monitor and assess energy use is critical, but installing conservation measures with no thought to comfort can result in failure. This exchange will provide insights into striking the right balance.



### Sustainable Spray Polyurethane Foam (SPF) Roofing and Adhesive Solutions

Join the discussion on the advantages of selecting a SPF roofing solution. It offers excellent retrofit applications reducing the need to tear off much of the existing roof. This system is renewable and resistant against hurricanes and mechanical damage.



### Facility Management Training: Industry Trends and Pressures

Training is often an overlooked yet critical component in successfully managing, operating and maintaining commercial properties. Attend this session to discuss the latest trends in online learning along with the key training needs facing today's facility professionals including operational efficiencies, risk mitigation, succession planning, safety and compliance, skill gap analysis, and more.



### Rapid Restore of Chillers After Power Outage

Do you use chillers for critical cooling applications? Do you ever have power outages? Discuss new options to bring chillers back on line and up to capacity in significantly faster time than your current system.



### Smart Building Energy Management

Smart Building Energy Management solutions deliver up to 70% energy savings, operational efficiencies, as well as occupant-friendly work environments while providing actionable decision-support information. Join this discussion to learn how the solution also supports monitoring of other environmental conditions such as air quality, humidity, food safety, and more that comprise the "Internet of Things" (machine-to-machine) eco-system.



### Tips for Successfully going Mobile with your CMMS

Has your facility considered implementing a mobile maintenance program but just doesn't know how to get started? This discussion will include keys to successfully implementing mobile maintenance, tips on choosing the right mobile devices for your facility, and recommended strategies for overcoming common challenges and pitfalls.



### NFPA 101 Life Safety Code: 7.9.3 Periodic Testing of Emergency Lighting and Exit Signs

NFPA 101 section 7.9.3 provides the test methods and frequency under which the emergency lightings should be performed. Considering financial & human resources available, meeting these requirements might become challenging for many facilities. Join the discussion on evaluating these requirements and alternatives for lower testing cost solutions allowed by the code.



### Adopt Green, Save Green: Environmentally-Friendly Commercial Restroom Design

Join Excel Dryer, innovators of the original, patented, high-speed and energy-efficient hand dryer XLERATOR®, to discuss the future of environmentally friendly and budget-friendly restroom design.



## Sponsors

### Using Asset Management Software to Increase Equipment Uptime

Attend this discussion to learn how to avoid costly downtime in production or service operations. By using Asset Management software you can effectively forecast likely failure points and the reasons for them, and identify and model the best alternatives.



### Key Criteria and Considerations When Designing Your Mass Notification Systems

This discussion will review the four critical components facility managers need to consider for mass notification systems and the importance of understanding intelligibility when meeting NFPA72.



### Improve Your Bottom Line with Lighting Controls and Energy Monitoring Strategies

Maximize your strategic energy management plan by combining the latest lighting control technologies and the benefits of accurately measuring and verifying energy use. What you measure can be improved. Find out how to use energy information to measure, monitor, and manage operations to improve your bottom line.



### Optimizing your CMMS

Managing your maintenance is not a "do once and it's done" point in time; neither is computerizing it! You need to define your success target(s), review what you have accomplished and tune up what needs improvement to meet these targets. This exchange discusses the review process and how to get the greatest returns.



### How Modular Construction Provides Greener Advantages

During this discussion attendees will learn how modular construction provides greener advantages with shortened construction schedules, minimizes disturbance to the site, lessens vehicular traffic, reduces construction waste, and improves construction quality.



### The Risks and Rewards of Solar Systems

See sustainability as a business opportunity as well as an essential part of your facility. Attendees will learn about some of the current federal tax incentives that are making solar installation a financial possibility at many facilities.



### Trends in Data Center Design, and the Importance of BIM

Energy efficiency is now on par with reliability for the modern data center. This requires a delicate balancing of MEP systems to achieve both goals. The use of Building Informational Modeling (BIM) can facilitate decision making during design, expedite construction, and provide a valuable facility management tool for the owner.



### Sustainable Roofing Solutions

Roofing is an important component of the building's environmental profile. Attend this session to learn how to select a roofing solution that is recyclable, can save on building energy costs, reduce your greenhouse gas emissions and have a long life cycle.



### Facade Restoration: Exterior Aluminum Restoration and Maintenance

Without proper care, protective curtain wall finishes will deteriorate and sustain permanent damage. Learn how to avoid costly mistakes when preserving or enhancing clad systems with the use of clear or colored high-performance coating.



### Successful Bid Management Strategies

This discussion is geared towards managing your project and bidding process from start to finish. We will talk about finding the right vendors for projects/repairs and how to better expedite the communication process. We will also review different methods for document distribution and vendor management to save time and money.



### Arc Flash Hazard Analysis

The National Electrical Code requires electrical equipment be labeled with a warning that the potential for an arc flash hazard exists. OSHA requires you to mitigate any risks when doing energized/live electrical work. NFPA 70E provides you with the tools and knowledge to meet both requirements. Attend this table discussion to learn about the risk associated with arc flash hazards, the requirements for NFPA 70E and what comprises an effective arc flash hazard analysis program.



### Renewable Energy - Making an Impact on the Market

Attend this exchange to discuss renewable energy, its impact on the market and how it's becoming the world's fastest growing energy resource.



# Sessions At-a-Glance

## TUESDAY, MARCH 4<sup>TH</sup>

### 8:00 AM - 8:50 AM

Room	Course	Session Title
316	TS.16	FMXcellence: Elevating the Role of Facilities

### 9:00 AM - 9:50 AM

318	T1.18	Three Simple Lessons to Achieve Excellence in Maintenance Planning and Scheduling
321	T1.21	How FM Organizations Learn from their Mistakes
324	T1.24	Energy Management in Existing Buildings
327	T1.27	Greenhouse Gas Reduction Action Plan
330	T1.30	The Architect's Role in Lifecycle Commissioning
337	T1.37	Historic Buildings Go Green: You Can Teach an Old Dog New Tricks
339	T1.39	Building Sustainability through Building Automation
341	T1.41	Introduction to EGSA, the Electrical Generating Systems Association
343	T1.43	The Owners Role in Inspection, Testing and Maintenance of Water Based Fire Protection Systems
345	T1.45	Optimization of Operations and Maintenance through Data Driven Decisions
347	T1.47	Lifecycle Asset Management: A Proactive Approach
349	T1.49	COBie: How To?

### 10:00 AM - 10:50 AM

318	T2.18	Employment Law Issues Forum
321	T2.21	A Business Case and Process Re-Design to Improve OEE, ROA and ROI
324	T2.24	ASHRAE Standard 90.1 Energy Standard Overview and Applications
327	T2.27	Wireless Direct Digital Control
330	T2.30	Nutrition Labels for Building Materials: EPDs, HPDs, Product Transparency, and Product Declarations
337	T2.37	5S Case Study: Organization of a College Test Lab
339	T2.39	Transform Your Property: 10 Ways to Get More Bang For Your Landscape Buck
341	T2.41	Power Systems - Foundation for Supporting your Critical Operations
343	T2.43	The Growing Need for Mass Notification
345	T2.45	Roof Repair or Roof Despair: It's More Than You Think
347	T2.47	Strategies for Repairing Failed Floor Finishes
349	T2.49	COBie Case Studies

### 11:00 AM - 11:50 AM

318	T3.18	3rd Party Maintenance Outsourcing: Preparing for the Competition
321	T3.21	Transparency: The Future of Facility Management
324	T3.24	Real-Time Energy Management
327	T3.27	Why Benchmark for Failure?
330	T3.30	Case Studies of Design Excellence in K-12 Educational Facilities
337	T3.37	A Sustainable Certification Program for Facility Professionals
339	T3.39	Monetizing Large EPAct Tax Deductions
341	T3.41	Facility Management of the Future
343	T3.43	The Latest in NFPA 70E, NFPA 99 and OSHA Compliance in Electrical Safety
345	T3.45	Everything You Wanted to Know About the ADA, but were Afraid to Ask
347	T3.47	The Revolution in LED Lighting: Technology Comes of Age
349	T3.49	GSA's Sustainable Facilities Tool

**NOON - 4:00 P.M. Exhibit Hall Open**

**3:45 P.M. \$1,000 Cash Drawing - Booth #600**

**4:00 - 5:00 P.M. Opening Night Networking Party** Pratt Street Lobby

## WEDNESDAY, MARCH 5<sup>TH</sup>

**7:45 - 8:50 A.M. SOLUTIONS EXCHANGE** Pratt Street Lobby

### 8:00 AM - 5:00 PM

316	FBPTA	Federal Building Personnel Training Act: Industry Day at NFMT
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### 9:00 AM - 9:50 AM

318	W1.18	NASA's Post Occupancy Evaluation Program
321	W1.21	Energy Modeling Tools - Solutions for Creating a High Performance Building
324	W1.24	The Hidden Value of Commissioning
327	W1.27	Peak Value FM Services
330	W1.30	Healthcare Facility Management Compliance
337	W1.37	Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4
339	W1.39	Operationally Sustainable Procurement
341	W1.41	Solutions to the Number One Problem with Standby Generators
343	W1.43	FM Inspection and Testing of Fire Sprinklers
345	W1.45	Analytics Driven Asset Reliability & Maintenance Management
347	W1.47	Technology Trends in Retail FM
349	W1.49	Impact of Equipment Inventories on Building Owners and Organizations

### 10:00 AM - 10:50 AM

318	W2.18	Your Facility Management Career: Make the Most of it or be Under Employed
321	W2.21	Building Re-Tuning: Low-Cost Operational Improvements
324	W2.24	Optimizing Energy Strategies with Load Response and Energy Efficiency
327	W2.27	Simple Analytics using POA
337	W2.37	Green is Really About ROI
339	W2.39	Should LEED Be Adopted As Building Codes?
341	W2.41	Generator Docking Stations: How to Back up Your Facility
343	W2.43	What to Expect from a Mitigation Vendor
345	W2.45	The National Park Service and the Facility Condition Index: A Case Study
347	W2.47	Protecting Your Facility And the People & Assets Within through the Whole Building Design Guide
349	W2.49	How to Specify Commercial Flooring

**11:00 A.M. - 3:00 P.M. Exhibit Hall Open**

**2:45 P.M. \$1,000 Cash Drawing - Booth #600**

### 3:10 PM - 6:00 PM

345	W3.45	Women in Facilities Management 2014 Edition Panel and Reception
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### 3:10 PM - 4:00 PM

318	W3.18	Facility Maintenance Modeling
324	W3.24	Advanced Retrofit Conservation Technologies
327	W3.27	Case Study of Adaptive Reuse: Mill No. 1 in Mt. Vernon
330	W3.30	Integrated Weather Barrier Concepts in Healthcare Architecture
337	W3.37	Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs
339	W3.39	Sustainability in the Federal Government
341	W3.41	The Basics of Standby Power Systems
343	W3.43	Significant Changes to the 2012 International Fire Code
347	W3.47	Self-Funding Critical Facility Needs
349	W3.49	Smart Building Management

### 4:10 PM - 5:00 PM

327	W4.27	Strategic Stewardship and the Preventative Maintenance Master Plan
337	W4.37	Before and After: NYC School's response to Hurricane Sandy
339	W4.39	Water Conservation
341	W4.41	Death, Taxes & EPA Reporting
343	W4.43	Fire Alarm/Suppression Systems: Common Problems and Practical Solutions
349	W4.49	The Emergence of Outcome-Based Services

## THURSDAY, MARCH 6<sup>TH</sup>

### 8:00 AM - 8:50 AM

316 RG.16 Complaints: How to Deal with the Negativity

### 9:00 AM - 9:50 AM

318 R1.18 What's Your Grade - Calculating Your Maintenance Performance Index (MPI)  
 321 R1.21 The Foundation of Green Construction Codes: ASHRAE 189.1  
 324 R1.24 Advanced Electric Submetering for Retrofit and New Construction  
 327 R1.27 Optimizing Chilled Water Plant Performance  
 330 R1.30 Emerging Communications Technologies for Healthcare  
 337 R1.37 Social Media's Role in Sustainability  
 339 R1.39 Ensuring a Clean, Green & Healthy Indoor Environment  
 341 R1.41 International Building Code and On-Site Power Generation  
 343 R1.43 The ADA: Red Flags that Trigger Complaints  
 345 R1.45 NEC 2014: Changes that Affect Your Facility  
 347 R1.47 Monitoring Based Commissioning using Visualization Techniques

### 9:00 AM - 10:50 AM

349 R1.49 Facilities Management Young Professionals Panel

### 10:00 AM - 10:50 AM

318 R2.18 Fundamentals for Legionella Water Safety  
 324 R2.24 Maximize Your Facilities Management, Maintenance, and Energy Performance  
 327 R2.27 LED Lighting: Less Secrets and More Surprises  
 337 R2.37 Be Water-Wise: Create and Maintain a Water-Efficient Landscape  
 339 R2.39 Full-Depth Reclamation (FDR)  
 341 R2.41 Solar Grid Tied Micro Grid Inverters  
 343 R2.43 Implementing NFPA 70E for Arc Flash Safety  
 345 R2.45 CM Delivery Methods  
 347 R2.47 Advice to New FMs : Apply the 11 Core Competencies of Facility Managers

**11:00 A.M. - 2:00 P.M. Exhibit Hall Open**

**1:45 P.M. \$1,000 Cash Drawing - Booth #600**

### 2:10 PM - 3:00 PM

324 R3.24 Retro-Commissioning (RCx)  
 339 R3.39 Geothermal Heat Pump Technology: The Energy Under our Feet  
 343 R3.43 The 17 Mistakes Made in Emergency Plans, How to Avoid and Correct Them  
 345 R3.45 Maintenance Reliability in Natural Disasters and Emergencies  
 347 R3.47 Making All Your Dreams Come True (by Changing Your Metrics)  
 349 R3.49 Integrating Energy Data into Building Management Systems to Increase Efficiency and Cut Cost

### 3:10 PM - 4:00 PM

337 R4.37 The Next Generation of Energy Cost Reduction: From Efficiency to Productivity  
 339 R4.39 Internal Insulation and your HVAC System  
 345 R4.45 Stump the Experts

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# Tracks At-a-Glance

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## DESIGN TRENDS SESSIONS

Room	Course	Session Title
330	T1.30	The Architect's Role in Lifecycle Commissioning
330	T2.30	Nutrition Labels for Building Materials: EPDs, HPDs, Product Transparency, and Product Declarations
330	T3.30	Case Studies of Design Excellence in K-12 Educational Facilities
345	R4.45	Stump the Experts

## ENERGY EFFICIENCY, UPGRADES AND UTILITIES SESSIONS

324	T1.24	Energy Management in Existing Buildings
324	T2.24	ASHRAE Standard 90.1 Energy Standard Overview and Applications
324	T3.24	Real-Time Energy Management
339	T3.39	Monetizing Large EPACT Tax Deductions
321	W1.21	Energy Modeling Tools - Solutions for Creating a High Performance Building
324	W1.24	The Hidden Value of Commissioning
324	W2.24	Optimizing Energy Strategies with Load Response and Energy Efficiency
324	R1.24	Advanced Electric Submetering for Retrofit and New Construction
347	R1.47	Monitoring Based Commissioning using Visualization Techniques
324	R2.24	Maximize Your Facilities Management, Maintenance, and Energy Performance
327	R2.27	LED Lighting: Less Secrets and More Surprises
324	R3.24	Retro-Commissioning (RCx)
339	R3.39	Geothermal Heat Pump Technology: The Energy Under our Feet
337	R4.37	The Next Generation of Energy Cost Reduction: From Efficiency to Productivity
345	R4.45	Stump the Experts

## GREENING AN EXISTING BUILDING SESSIONS

327	T1.27	Greenhouse Gas Reduction Action Plan
349	T3.49	GSA's Sustainable Facilities Tool
337	W1.37	Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4
339	W1.39	Operationally Sustainable Procurement
327	W3.27	Case Study of Adaptive Reuse: Mill No. 1 in Mt. Vernon
337	W3.37	Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs
339	W3.39	Sustainability in the Federal Government
339	R1.39	Ensuring a Clean, Green & Healthy Indoor Environment
327	R2.27	LED Lighting: Less Secrets and More Surprises
327	R2.37	Be Water-Wise: Create and Maintain a Water-Efficient Landscape
339	R2.39	Full-Depth Reclamation (FDR)
345	R4.45	Stump the Experts

## HEALTHCARE FACILITIES TODAY SESSIONS

330	W1.30	Healthcare Facility Management Compliance
330	W3.30	Integrated Weather Barrier Concepts in Healthcare Architecture
330	R1.30	Emerging Communications Technologies for Healthcare
339	R1.39	Ensuring a Clean, Green & Healthy Indoor Environment

## HIGH PERFORMANCE BUILDINGS SESSIONS

337	T1.37	Historic Buildings Go Green: You Can Teach an Old Dog New Tricks
324	T2.24	ASHRAE Standard 90.1 Energy Standard Overview and Applications
324	T3.24	Real-Time Energy Management
316	FBPTA	Federal Building Personnel Training Act: Industry Day at NFMT
321	W1.21	Energy Modeling Tools - Solutions for Creating a High Performance Building
321	W2.21	Building Re-Tuning: Low-Cost Operational Improvements
321	R1.21	The Foundation of Green Construction Codes: ASHRAE 189.1
345	R4.45	Stump the Experts

## LEADERSHIP AND CAREER ADVANCEMENT SESSIONS

316	TS.16	FMXcellence: Elevating the Role of Facilities
321	T1.21	How FM Organizations Learn from their Mistakes
318	T2.18	Employment Law Issues Forum
321	T3.21	Transparency: The Future of Facility Management
316	FBPTA	Federal Building Personnel Training Act: Industry Day at NFMT
318	W2.18	Your Facility Management Career: Make the Most of it or be Under Employed
345	W3.45	Women in Facilities Management 2014 Edition
327	W4.27	Strategic Stewardship and the Preventative Maintenance Master Plan
316	RG.16	Complaints: How to Deal with the Negativity
349	R1.49	Facilities Management Young Professionals Panel
347	R2.47	Advice to New FM's : Apply the 11 Core Competencies of Facility Managers
347	R3.47	Making All Your Dreams Come True (by Changing Your Metrics)
345	R4.45	Stump the Experts

## MAINTENANCE AND OPERATIONS SESSIONS

318	T1.18	Three Simple Lessons to Achieve Excellence in Maintenance Planning and Scheduling
345	T1.45	Optimization of Operations and Maintenance through Data Driven Decisions
321	T2.21	A Business Case and Process Re-Design to Improve OEE, ROA and ROI
337	T2.37	5S Case Study: Organization of a College Test Lab
345	T2.45	Roof Repair or Roof Despair: It's More Than You Think
318	T3.18	3rd Party Maintenance Outsourcing: Preparing for the Competition
318	W1.18	NASA's Post Occupancy Evaluation Program
327	W1.27	Peak Value FM Services
349	W1.49	Impact of Equipment Inventories on Building Owners and Organizations
318	W2.18	Your Facility Management Career: Make the Most of it or be Under Employed
345	W2.45	The National Park Service and the Facility Condition Index: A Case Study
349	W2.49	How to Specify Commercial Flooring
318	W3.18	Facility Maintenance Modeling
337	W4.37	Before and After: NYC School's response to Hurricane Sandy
349	W4.49	The Emergence of Outcome-Based Services
318	R1.18	What's Your Grade - Calculating Your Maintenance Performance Index (MPI)
327	R1.27	Optimizing Chilled Water Plant Performance
339	R1.39	Ensuring a Clean, Green & Healthy Indoor Environment
345	R1.45	NEC 2014: Changes that Affect Your Facility
318	R2.18	Fundamentals for Legionella Water Safety
345	R2.45	CM Delivery Methods
345	R3.45	Maintenance Reliability in Natural Disasters and Emergencies
349	R3.49	Integrating Energy Data into Building Management Systems to Increase Efficiency and Cut Cost
339	R4.39	Internal Insulation and your HVAC System
345	R4.45	Stump the Experts

## POWER: GENERATION AND RELIABILITY SESSIONS

341	T1.41	Introduction to EGSA, the Electrical Generating Systems Association
341	T2.41	Power Systems - Foundation for Supporting your Critical Operations
341	T3.41	Facility Management of the Future
341	W1.41	Solutions to the Number One Problem with Standby Generators
341	W2.41	Generator Docking Stations: How to Back up Your Facility when Your Backup Plan Fails
341	W3.41	The Basics of Standby Power Systems
341	W4.41	Death, Taxes & EPA Reporting
341	R1.41	International Building Code and On-Site Power Generation
341	R2.41	Solar Grid Tied Micro Grid Inverters

## SAFETY AND SECURITY SESSIONS

343	T1.43	The Owners Role in Inspection, Testing and Maintenance of Water Based Fire Protection Systems
343	T2.43	The Growing Need for Mass Notification
343	T3.43	The Latest in NFPA 70E, NFPA 99 and OSHA Compliancy in Electrical Safety
345	T3.45	Everything You Wanted to Know About the ADA, but were Afraid to Ask
343	W1.43	FM Inspection and Testing of Fire Sprinklers
343	W2.43	What to Expect from a Mitigation Vendor
347	W2.47	Protecting your Facility and the People and Assets within through the Whole Building Design Guide

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343	W3.43	Significant Changes to the 2012 International Fire Code
337	W4.37	Before and After: NYC School's response to Hurricane Sandy
343	W4.43	Fire Alarm/Suppression Systems: Common Problems and Practical Solutions
343	R1.43	The ADA: Red Flags that Trigger Complaints
345	R1.45	NEC 2014: Changes that Affect Your Facility
343	R2.43	Implementing NFPA 70E for Arc Flash Safety
343	R3.43	The 17 Mistakes Made in Emergency Plans, How to Avoid and Correct Them
345	R4.45	Stump the Experts

### SYSTEMS SESSIONS

327	T2.27	Wireless Direct Digital Control
327	T3.27	Why Benchmark for Failure?
327	W2.27	Simple Analytics using POA
327	W4.27	Strategic Stewardship and the Preventative Maintenance Master Plan
327	R1.27	Optimizing Chilled Water Plant Performance
327	R2.27	LED Lighting: Less Secrets and More Surprises
345	R4.45	Stump the Experts

### TECHNOLOGY SESSIONS

339	T1.39	Building Sustainability through Building Automation
345	T1.45	Optimization of Operations and Maintenance through Data Driven Decisions
347	T1.47	Lifecycle Asset Management: A Proactive Approach
349	T2.49	COBie: How To?
347	T2.47	Strategies for Repairing Failed Floor Finishes
349	T2.49	COBie Case Studies
347	T3.47	The Revolution in LED Lighting: Technology Comes of Age
345	W1.45	Analytics Driven Asset Reliability & Maintenance Management
345	T1.45	Technology Trends in Retail FM
321	W2.21	Building Re-Tuning: Low-Cost Operational Improvements
347	W2.47	Protecting your Facility and the People and Assets within through the Whole Building Design Guide
347	W3.47	Self-Funding Critical Facility Needs
349	W3.49	Smart Building Management: Reducing Overhead and Headaches with Proactive BMS Technology
324	R2.24	Maximize Your Facilities Management, Maintenance, and Energy Performance
339	R3.39	Geothermal Heat Pump Technology: The Energy Under our Feet
349	R3.49	Integrating Energy Data into Building Management Systems to Increase Efficiency and Cut Cost
345	R4.45	Stump the Experts

### SUSTAINABLE STANDARDS SESSIONS

327	T1.27	Greenhouse Gas Reduction Action Plan
337	T1.37	Historic Buildings Go Green: You Can Teach an Old Dog New Tricks
339	T1.39	Building Sustainability through Building Automation
339	T2.39	Transform Your Property: 10 Ways to Get More Bang For Your Landscape Buck
337	T3.37	A Sustainable Certification Program for Facility Professionals
339	T3.39	Monetizing Large EPC Act Tax Deductions
349	T3.49	GSA's Sustainable Facilities Tool
337	W2.37	Green is Really About ROI
339	W2.39	Should LEED Be Adopted As Building Codes?
324	W3.24	Advanced Retrofit Conservation Technologies
327	W3.27	Case Study of Adaptive Reuse: Mill No. 1 in Mt. Vernon
339	W3.39	Sustainability in the Federal Government
339	W4.39	Water Conservation
337	R1.37	Social Media's Role in Sustainability
337	R2.37	Be Water-Wise: Create and Maintain a Water-Efficient Landscape
339	R3.39	Geothermal Heat Pump Technology: The Energy Under our Feet
345	R4.45	Stump the Experts

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### TUESDAY, MARCH 4

- T1.30 The Architect's Role in Lifecycle Commissioning
- T2.30 Nutrition Labels for Building Materials: EPDs, HPDs, Product Transparency, and Product Declarations
- T3.30 Case Studies of Design Excellence in K-12 Educational Facilities

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**Questions?** Please stop by Room 336 or contact Wendy Dietzler at [wendy.dietzler@tradepress.com](mailto:wendy.dietzler@tradepress.com) or Amy Brown at [amy.brown@tradepress.com](mailto:amy.brown@tradepress.com)

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**NFMT Booth #915**

# Conference Sessions



9:00-9:50 am

Maintenance and Operations

**T1.18 ■ Room: 318**

## Three Simple Lessons to Achieve Excellence in Maintenance Planning and Scheduling

*Presenter(s): Mike Gehloff, Discipline Leader, Work Execution Management, Allied Reliability Group*

In this high energy presentation, the focus is on “simple”. Mike Gehloff has worked with many high-profile industrial customers over the past 20 years, picking up key lessons learned. During this time, he has seen that we tend to overcomplicate things, and that the best solutions are the simple ones. Mike will provide some focus and clarity around what may seem to be complex ideas, but are easily enhanced through making things simple. At the end of the seminar, a self-assessment worksheet will help you measure your own level of maturity and establish some simple improvement plans to move forward.

### LEARNING OBJECTIVES:

1. Engage internal and external maintenance team members into the maintenance planning and scheduling process through role clarification, active communication, and improved work order feedback
2. Place a focus on quantitative task descriptions in job plans to reduce rework and clarify expectations
3. Use visual management techniques to drive success in both weekly and shutdown management efforts
4. Measure your current maintenance planning and scheduling program maturity and create an improvement plan to begin closing gaps in maturity

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**T1.21 ■ Room: 321**

## How FM Organizations Learn from their Mistakes

*Presenter(s): Stormy Friday, President, The Friday Group*

Years ago we learned that successful FM organizations have a DNA. We also know that even the most successful organizations sometimes make mistakes. When these mistakes occur, however, there are characteristics or DNA of learning organizations that transform their mistakes into opportunities to grow stronger. If an FM organization is steeped in a learning philosophy, the organization can turn bad situations into positive ones! This session explores the DNA of a learning FM organization, what some of the common mistakes these organizations make, and how to develop a plan to turn failure into opportunity.

### LEARNING OBJECTIVES:

1. Understand the definition of a learning FM organization
2. Identify common mistakes FM organizations make that allow them to learn
3. Classify leading an FM organization to learn by understanding learning DNA
4. Craft a game plan to transform failure into opportunity

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**T1.24 ■ Room: 324**

## Energy Management in Existing Buildings

*Presenter(s): Davor Novosel, Chief Technology Officer, National Energy Management Institute (NEMI)*

Energy has been in the news daily lately because of volatile fuel costs and a focus on public policy and conservation movement. With energy target dates and federal mandates the need to manage energy is greater today than ever before and existing buildings offer the largest energy savings potential. Attend this session to learn how to meet energy goals, how big energy saving opportunities are, and how TAB can help you meet your energy goals.

### LEARNING OBJECTIVES:

**Tuesday 8:00 - 8:50 am** Leadership and Career Advancement

**TS.16 ■ Room: 316** FMXcellence: Elevating the Role of Facilities

*Presenter(s): Daniel C. Barr Deputy Director, Division of Facilities and Equipment Management, Ohio Department of Transportation, William D. Broome, SFP, CFM, LEED Green Associate Director of Facilities, The Westminster Schools, Trent Frazier Director, Field Operations Facilities Program Management Office, U.S. Customs and Border Protection, Bill Good Chief Operations Officer, Des Moines Public Schools, Carl L. Morgan, AIA Construction Manager II, Leon County Department of Facilities Management & Construction, Jim Schrote Executive Director of Facilities Services, George Washington University, Edward Sullivan Editor, Building Operating Management*

Join Building Operating Management magazine for the fifth annual FMXcellence Recognition honorees program. This recognition program acknowledges in-house FM teams that apply best practices and innovation to meet their organization's priorities. Hear directly from the honorees on the projects that played an important role in achieving results for the organization, whether it is a corporation, educational institution, health care provider, government entity, or another type of commercial or institutional organization. And in-house FM departments that achieve results deserve praise. The 2014 honorees include: Des Moines Public Schools, The George Washington University, Leon County Department of Facilities Management, Ohio Department of Transportation, U.S. Customs and Border Protection, and The Westminster Schools

### LEARNING OBJECTIVES:

1. Understand the importance of the in-house FM team on the overall organization
2. Review best practices for in-house FM teams
3. Learn from best-case scenarios on how to implement new programs or initiatives
4. Comprehend why these programs stood out as some of the best of the year

AUDIENCE: BEGINNER CEU: 0.1



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1. List the principal source and use of energy in existing buildings
2. Identify how big the energy savings opportunities are
3. Specify how to meet energy goals
4. Gain insight into energy management in context of human performance

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Sustainable Standards

**T1.27 ■ Room: 327**

**Greenhouse Gas Reduction Action Plan**

*Presenter(s): Danielle Schwarzmann, Economist, MDE*

The Greenhouse Gas Reduction Action Plan is to achieve a 25 percent reduction in Maryland’s greenhouse gas emissions by 2020. The state, through its implementation of the 150-plus programs and initiatives described in the plan, must reduce Maryland’s greenhouse gas emissions by 55 million metric tons of carbon dioxide-equivalent annually. This reduction includes offsetting growth that is expected to occur between 2006 and 2020 (called the “business-as-usual” forecast). The plan is a comprehensive, multi-sector, multi-agency plan that incorporates many innovative strategies. This includes programs that do not directly reduce carbon dioxide-equivalent, but rather absorb carbon dioxide from the atmosphere. The plan will support a green economy, preserve valuable agricultural and forest land, aid in restoring Chesapeake Bay, diversify energy sources, and promote renewable energy. It will also aid in expanding the state’s economy, including its renewable energy, transportation, green buildings, agriculture, fisheries, and forestry sectors. The six action sectors included in the plan are: energy, transportation, land use, agriculture, zero waste and buildings.

LEARNING OBJECTIVES:

1. Innovative ideas on reducing greenhouse gas
2. Identify how to absorb carbon dioxide from the atmosphere
3. Expand on state economy with initiatives
4. Utilize energy efficient buildings technologies

AUDIENCE: INTERMEDIATE CEU: 0.1

Design Trends

**T1.30 ■ Room: 330**

**The Architect’s Role in Lifecycle Commissioning**

*Presenter(s): Wanda Lenkewich, CxA, LEED AP, President, Chinook Systems Inc.*

The architect plays a vital role in the delivery of projects by thoroughly understanding the owner’s requirements and transposing that vision into the construction, renovation, or preservation of a facility. The commissioning agent’s primary role is to help ensure that this intent is met and that the vision will be sustainable for many years to come. This is done through a process of continuously verifying that the facility remains a safe, compliant, comfortable, energy efficient space for the occupants to accomplish their mission; however simple or complex that may be. This presentation will define lifecycle commissioning and discuss the enhanced relationships that the architect the commissioning agent may foster throughout the lifecycle of a facility, and ultimately how this will benefit the Owner.

This session sponsored by the Baltimore Chapter of the American Institute of Architects and is eligible for 1 AIA/CES HSW credit.

LEARNING OBJECTIVES:

1. Review and understand lifecycle commissioning
2. Understand the challenges associated with preserving the “vision”

while maintaining the “mission”

3. Learn how to integrate and strengthen the relationships to add the most value
4. Analyze the role that integrated software technology can play in lifecycle decision making and planning

AUDIENCE: INTERMEDIATE CEU: 0.1

High Performance Buildings, Sustainable Standards

**T1.37 ■ Room: 337**

**Historic Buildings Go Green: You Can Teach an Old Dog New Tricks**

*Presenter(s): Pete Arnoldt, Sales Consultant, Cindy Bittel, Business Development Manager, RCx Building Diagnostics*

Many believe that older, existing buildings aren’t capable of “performing” like their newer counterparts! Share your story and learn from the experts as we discuss how one company established a sustainability master plan for their National Historic Landmark built in 1896. We’ll review the various methods utilized by this group to overcome hurdles encountered along the way to achieving their sustainable goals. Lastly, we’ll discuss the hard and soft benefits including energy and water savings as well as high-performance building certifications that have been achieved while establishing itself as a sustainable leader in its region. Find out how incorporating a sustainability plan into your operating and maintenance procedures can increase the value and reduce operating expenses in your existing facility.

LEARNING OBJECTIVES:

1. Specify the critical elements necessary to develop a successful sustainability plan
2. List the various tools utilized to work toward sustainability goals
3. Recognize how to overcome challenges specific to historic/older buildings
4. Discuss your most concerning assumptions regarding sustainability in existing facilities during the interactive Q&A session

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainable Standards, Technology

**T1.39 ■ Room: 339**

**Building Sustainability through Building Automation**

*Presenter(s): Ben Dorsey, Vice President, Marketing and Communications, KMC Controls*

No matter what impels you to action in regards to sustainability, building automation and control systems can help you achieve it. We’ll examine four significant ways that building automation can help facility professionals achieve their sustainability goals of higher energy efficiency, lower operating and maintenance costs, better indoor air quality, greater occupant comfort and productivity. A case study will be used to illustrate the discussion of each of these four areas.

LEARNING OBJECTIVES:

1. Name significant factors leading to building sustainability
2. Justify how building automation can help a facility professional achieve higher energy efficiency
3. State why an open standard BACnet system offers greater sustainability achievement than proprietary control systems

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

**T1.41 ■ Room: 341**

### Introduction to EGSA, the Electrical Generating Systems Association

*Presenter(s): Michael Pope, Director of Education, EGSA*

Facilities cannot function without electrical power. Utility power failures can be expensive, and in some cases, disastrous. This presentation will explain the causes of regional and local power failures and some solutions to ensure that a facility can remain operational, even under the most adverse of conditions. Important and helpful information regarding the Electrical Generating Systems Association (EGSA) will also be discussed since the Association can be of great help to facility managers and those wishing to increase their knowledge about emergency generating systems.

#### LEARNING OBJECTIVES:

1. Have a basic understanding of the on-site power industry
2. Understand the structure, mission and services of EGSA
3. Understand how EGSA can help facility managers that operate emergency generator sets

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

**T1.43 ■ Room: 343**

### The Owners Role in Inspection, Testing and Maintenance of Water Based Fire Protection Systems

*Presenter(s): Jason Webb, Director of ITM, National Fire Sprinkler Association*

The building owner or manager is the single most important individual in the inspection, testing and maintenance of fire protection systems. NFPA 25, Standard of Inspection Testing and Maintenance of Water-Based Fire Protection Systems contains numerous requirements that are the responsibility of the building owner or manager. This seminar will provide an introduction to the owners requirements and limits when it comes to inspection, testing and maintenance. Through discussion of the administrative and system chapters of NFPA 25 this seminar will provide the attendee with guidance for an effective inspection, testing and maintenance program.

#### LEARNING OBJECTIVES:

1. Describe the role and responsibilities that building owners or their designated representatives have in the ITM process as outlined in NFPA 25
2. Recognize the difference between what is permitted for the building owner to do and what requires a fire sprinkler professional
3. Identify the proper documentation associated with inspection testing and maintenance

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations, Technology

**T1.45 ■ Room: 345**

### Optimization of Operations and Maintenance through Data Driven Decisions

*Presenter(s): Angela Lewis, P.E., PhD, LEED AP, Project Manager, Facility Engineering Associates, PC*

With continued advancements in technology and further use of software, such as computerized maintenance management systems (CMMS), computer aided facility management (CAFM) and integrated work management systems (IWMS), the opportunity for facility managers to make informed decisions using data has greatly increased. This session will explore the types of software available

to facility managers and provide practical insight about how to determine what data is needed and why. As a result of attending this session, attendees will have the opportunity to determine three uses for how data can be used across their organization to support proactive, cost effective decisions.

#### LEARNING OBJECTIVES:

1. List what software is available to facility managers today
2. Gain awareness of questions to ask when determining what data is needed to populate software
3. Learn about the construction operations building information exchange (COBie) standard and how it can be used to support data collection and software population
4. Evaluate how your facility management organization currently uses data to and how it can be used to support decision making

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

**T1.47 ■ Room: 347**

### Lifecycle Asset Management: A Proactive Approach

*Presenter(s): Marco Benitez, Director of Analysis, Assessment and Risk Management, Florida International University*

Faced with declining funds, Florida International University's Facility Operations team adopted a "lifecycle asset management" approach to justify year-over-year funding needs. FIU established baseline condition data in 2011 for their 8.1 million portfolio and initiated a program to sustain this data for optimal decision-making. Today, an internal FIU team refreshes more than 2 million of facility condition data annually, data used in support of their annual facilities capital plan. Learn about FIU's challenges and benefits on their four-year path to "lifecycle asset management."

#### LEARNING OBJECTIVES:

1. Identify how an asset lifecycle management approach works, including the path to get there
2. List the benefits of implementing a facilities management solution
3. Classify the challenges and benefits of using internal staff to keep condition data up-to-date
4. Verify an asset lifecycle management approach helps justify funding requests and save money

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

**T1.49 ■ Room: 349**

### COBie: How To?

*Presenter(s): Mariangelica Carrasquillo-Mangual, Research Civil Engineer, USACE Research and Development Center*

*Michael Tardiff, Senior Partner, BLCI Group, Inc.*

*Kerry Joels, Government Affairs, TMA Systems*

*James Whittaker, P.E., Vice President, Facility Engineering Associates, P.C.*

This first session will provide participants with a series of presentation focus on the basics of COBie and how to integrate it in the projects. The presentation will provide an overview of COBie, which is part of the National BIM Standard-US, and available tools to enhance the users understanding and start their implementation. Discuss how the process of contracting for COBie, and how to make sure the COBie implementation process is effective. Finally learn about life cycle issues and address how COBie can be an effective tool over the entire life cycle of a building, and lead to more effective facility management.

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## LEARNING OBJECTIVES:

1. Gain a basic understanding of COBie
2. Learn how to start implementing and taking advantage of COBie as facility managers
3. Understand the current and future state of COBie with regards to facility operation and maintenance

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 am

## Leadership and Career Advancement

**T2.18 ■ Room: 318****Employment Law Issues Forum***Presenter(s): John E. Cruickshank, Attorney, Alaniz Schraeder Linker Farris Mayes, LLP*

This open forum concept session gives attendees the opportunity to ask a board certified employment attorney questions about the issues that affect them. The attorney's presentation will include themes and a discussion of trends in employment law but attendees are asked to bring examples of the real world problems they deal with in managing their workplaces.

## LEARNING OBJECTIVES:

1. Recognize FMLA Issues
2. Identify sexual harassment in the workplace
3. Define the challenges of a greying workforce
4. Determine the best way to respond to government inquiries

AUDIENCE: INTERMEDIATE CEU: 0.1

## Maintenance and Operations

**T2.21 ■ Room: 321****A Business Case and Process Re-Design to Improve OEE, ROA and ROI***Presenter(s): Kevin McCraw, Facilities Manager, North America, BMW Manufacturing Co., LLC  
Martin C. P. McElroy, CFM, Principal, MartinCompany Management Consultants, Inc.*

"If it ain't broke..." Run to failure? Break-it? Upgrade it? Replace it? Systems-age equipment integrates plant, utilities, machinery and technologies -- downtime is now an obsolete term, as operational, quality and environmental standards drive accountability for overall equipment effectiveness. Reliability-Centered Maintenance does not require six-sigma projects -- it does require disciplined autonomous, predictive and preventive maintenance. Maintenance priorities, standards, procedures, technologies and controls align with asset management protocols. Systems-age management provides top executives with reliable data to forecast investment strategies for maintenance, upgrades and investment that ensure reliable performance, agile capabilities and competitive advantage.

## LEARNING OBJECTIVES:

1. Understand systems-age criteria for forecasting equipment maintenance upgrade and replacement
2. Verify application of WIMS/CMMS to maintenance planning, condition assessments and capital forecasts
3. State the maintenance team's role in reporting, tracking and advocating equipment/technology status
4. Label communication with ME/COO/CFO on maintenance/investment strategies to drive performance

AUDIENCE: INTERMEDIATE CEU: 0.1

## Energy Efficiency, Upgrades and Utilities, High Performance Buildings

**T2.24 ■ Room: 324****ASHRAE Standard 90.1 Energy Standard Overview and Applications***Presenter(s): Michael C. English, PE, CCP, LEED-AP, Senior Partner, Horizon Engineering Associates*

Increasingly, energy efficiency is being recognized as the most important "fuel". Thus, new laws are being developed in numerous cities across the nation to increase energy efficiency. Many of these laws are based on the tried and true ASHRAE codes. This session will give an overview of ASHRAE 90.1 Energy Standard, which is the basis of new energy efficiency policies. We will also delve into the application of this code.

## LEARNING OBJECTIVES:

1. Define ASHRAE Standard 90.1
2. Identify how new laws are applying ASHRAE Standard 90.1
3. Associate their facility with ASHRAE Standard 90.1 minimum requirements
4. Examine the criteria for determining compliance with ASHRAE Standard 90.1

AUDIENCE: INTERMEDIATE CEU: 0.1

## Systems

**T2.27 ■ Room: 327****Wireless Direct Digital Control***Presenter(s): Jim Kohl Senior, Product Manager, Trane*

Wireless is expected to provide significant advantages in common building controls applications. This presentation describes the common heating, ventilation and air conditioning applications, current and future wireless standards, and how wireless can be used to cost effectively and reliably overcome many common control system challenges today, and in the future. Attendees will learn about wireless building control applications; gain information about wireless solutions, advantages and disadvantages; learn when wireless solutions make sense; and learn how to leverage opens standards, such as BACnet and ZigBee Building Automation.

## LEARNING OBJECTIVES:

1. List how wireless communication can help achieve on time, on budget project completion
2. Clarify how problem solving is easier or reduced with wireless
3. Find out how wireless can help achieve life cycle savings
4. Understand how ZigBee Building Automation supports the BACnet standard

AUDIENCE: INTERMEDIATE CEU: 0.1

## Design Trends

**T2.30 ■ Room: 330****Nutrition Labels for Building Materials: EPDs, HPDs, Product Transparency, and Product Declarations***Presenter(s): Anne Hicks Harney, AIA, LEED AP BD+C, Sustainability Director,  
Allison Wilson, Assoc. AIA, LEED AP BD+C Intern Architect,  
Ayers Saint Gross*

Product transparency is beginning to gain traction with designers, product consumers, and manufacturers. "Nutrition Labels" for building materials, third party certifications, and concern about tracking environmental, social and health aspects of materials is now a major issue for all of us. But how do we negotiate the alphabet soup of product declarations? We will review basic requirements of both Environmental Product Declarations (EPDs) and Health





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Product Declarations (HPDs), how they are related, and how they are gaining steam in the industry. We will cover strategies for encouraging manufacturers to complete HPDs, strategies for tracking available HPDs, and ideas for how to integrate these into specifications, and building maintenance.

This session sponsored by the Baltimore Chapter of the American Institute of Architects and is eligible for 1 AIA/CES HSW credit.

**LEARNING OBJECTIVES:**

1. Articulate why Material Transparency has become so critical
2. Gain an understanding of the basic requirements for Environmental Product Declarations and Health Product Declarations
3. Explore various methods of industry tracking
4. Explore how transparency can lead to market transformation and optimization of products

**AUDIENCE: INTERMEDIATE CEU: 0.1**

**Maintenance and Operations**

**T2.37 ■ Room: 337**

**5S Case Study: Organization of a College Test Lab**

*Presenter(s): Kate Kerrigan, Reliability Engineer, Allied Reliability*  
5S organization can be the key to effectiveness and efficiency in the workplace. This is a case study of how we instituted 5S in a very dynamic environment. The fluid power laboratory at the Milwaukee School of Engineering uses mostly a student workforce. This workforce has little to no previous experience working in an industrial environment; in addition, the workforce hours are built around class schedules. This study shows how with a little training and empowerment, the students were able to transform the physical environment in this very non-routine workplace.

**LEARNING OBJECTIVES:**

1. Define a 5S organization
2. Apply how to organize a project plan for change
3. Recognize how to effect change with part-time college student workforce
4. Observe the sustainability impact on 5S organizations

**AUDIENCE: BEGINNER CEU: 0.1**

**Sustainable Standards**

**T2.39 ■ Room: 339**

**Transform Your Property: 10 Ways to Get More Bang For Your Landscape Buck**

*Presenter(s): Richard Restuccia, Director for Water Management Solutions, ValleyCrest Companies, Inc.*

Turn sustainability goals into action and create a unique landscape. Richard Restuccia will highlight commercial projects that attract and retain employees and customers with an amazing landscape. He'll share highlights of LEED certified and award winning properties including unique plant palettes, extensive tree collections, water conservation programs, state of the art irrigation systems, and green waste recycling programs. This is an opportunity to learn from other companies who have been successful implementing sustainability programs.

**LEARNING OBJECTIVES:**

1. Discuss what to expect from your landscape partner from cost saving ideas to enhancements that build strong curb appeal
2. Identify specific areas you should focus on to create a landscape that is functional, beautiful, sustainable and cost-effective
3. List water management secrets with the biggest ROI impact
4. Specific how to integrate your landscape with your overall property objectives including reducing its ecological footprint and why a recommendation makes sense from a financial and landscape best practice

**AUDIENCE: INTERMEDIATE CEU: 0.1**

**Power: Generation and Reliability**

**T2.41 ■ Room: 341**

**Power Systems - Foundation for Supporting your Critical Operations**

*Presenter(s): Gary Farmer, Power Systems Engineer, Curtis Engine & Equipment, Inc.*

Electrical power systems are the electrical foundation upon which facilities function. Just as a structural foundation must be designed and constructed properly to support the building resting upon it, so the electrical power system must be designed and constructed to support the functions of the facility. Beyond just life-safety loads, those functions critical to the business operation of the facility must be supported and seamlessly sustained to assure the business continues in today's competitive environment. This presentation will show fundamental requirements and advanced power system applications. A question and answer session will follow the presentation.

**LEARNING OBJECTIVES:**

1. Gain knowledge of power system fundamentals
2. See examples of advanced power system applications
3. Learn how power system design can affect operational stability of facilities
4. Gain insight into the experience of others in a Q&A session

**AUDIENCE: INTERMEDIATE CEU: 0.1**

**Safety and Security**

**T2.43 ■ Room: 343**

**The Growing Need for Mass Notification**

*Presenter(s): David Smith, Director of Business & Channel Strategy, Lencore*

This course will explain the importance of mass notification and how these systems alert and provide us with critical information and directions to follow during dangerous weather, acts of terror or other hazardous events.

**LEARNING OBJECTIVES:**

1. Define what Mass Notification is, who it affects, who it protects and how it is being monitored
2. Outline the need for visual cues such as strobes, digital signage, email notifications, text messaging and message board displays
3. Explain the importance of audio notification and why it must provide information that is successfully delivered throughout the indoor and outdoor space
4. Review accepted industry standards measurements and practices established by NFPA 72

**AUDIENCE: INTERMEDIATE CEU: 0.1**

**Maintenance and Operations**

**T2.45 ■ Room: 345**

**Roof Repair or Roof Despair: It's More Than You Think**

*Presenter(s): Nick O'Hare, Client Relations Specialist, StructureTec*

With over 300 different types of roof systems, there are always new challenges in making the right choice. By looking at common roofing practices, you can become more proactive on making the right roof repairs and limit the emergency leaks on your building. With a proactive approach, you will save money and extend the life of your existing roof systems. This presentation will focus on the how to of roof repairs and make sure that you are making the smart investments into your roof systems.

**LEARNING OBJECTIVES:**

1. Differentiating between good and bad roof repairs
2. Isolating roof deficiencies based on condition

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AUDIENCE: BEGINNER CEU: 0.1

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Technology

**T2.47 ■ Room: 347**

**Strategies for Repairing Failed Floor Finishes**

*Presenter(s): Philip Frederick, Staff Engineer, David Slick Associate Principal, Simpson Gumpertz & Heger, Inc.*

This presentation will review the causes of flooring failures, discuss various strategies for repairing failed floor finishes, and present important considerations for every repair project. Recent changes in the composition of floor finishes and concrete floor construction practices have significantly increased the number of moisture-related floor finish failures. Although there are many design- and construction-phase recommendations for reducing moisture levels and limiting performance issues, failures still occur regularly. Repair of floor finish failures are typically very costly, time consuming, and disruptive to operation. This presentation will help architects, contractors, and building owners understand the causes of flooring failures and how the failure mechanisms must be considered in the repair process.

LEARNING OBJECTIVES:

- Identify industry changes and current practices that result in elevated concrete moisture levels and contribute to finish floor failures
- Recognize critical floor failure mechanisms and understand how to address such mechanisms in the floor repair design
- Design and construct floor finish repairs that consider substrate quality and preparation, environmental conditions, code requirements and safety concerns
- Select a floor finish repair strategy that addresses existing conditions and meets performance, operational and budgetary requirements

AUDIENCE: INTERMEDIATE CEU: 0.1

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Technology

**T2.49 ■ Room: 349**

**COBie Case Studies**

*Presenter(s): Mark Cervenka, Facilities Manager, Texas A&M Health Science Center*

*Kerry Joels, Government Affairs, TMA Systems  
Kimon Onuma, President and Founder, Onuma Systems  
Igor Starkov, President, EcoDomus  
Doug Wood, Architect and Strategist, IBM*

This second COBie session will showcase case studies from different CMMS vendors which have proven their ability to integrate COBie into their software and successfully use it in a real project. Attend this session to hear some of the misconceptions or fears of BIM/COBie are not knowing how to collect the data, not knowing what to do with the data once you have it, and how to include this as a deliverable in their contract documents. See how EcoDomus helps GSA develop best practices for Lifecycle BIM. The case study will present how to manage work orders on iPad and track energy performance from design through operations by integrating BIM, Facility Management, and Smart Building technologies. Review how Texas A&M University San Antonio is in the middle of an ambitious expansion program. The decision to use BIM and COBie in the construction of a new campus over the next decade and a half, and to have their CMMS involved throughout the process (TMA Systems) is driving a development process that will become an industry standard. COBie is used as a backbone structure for the the FED iFM initiative to support the Department of Defense Military Health System facility lifecycle.

LEARNING OBJECTIVES:

- Learn how building information can be used at the operation and maintenance stage

- Gain understanding on the implementation of COBie through the showcase of case study projects
- Gain inside from difference software vendors who have integrated COBie into their software

AUDIENCE: CEU: 0.1

**11:00-11:50 am**

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Maintenance and Operations

**T3.18 ■ Room: 318**

**3rd Party Maintenance Outsourcing: Preparing for the Competition**

*Presenter(s): Jamshed Rivetna, President, Ensoft Consulting, Inc.*  
For years, the maintenance department in many organizations has been facing budget cuts. These cuts create pressure to become more efficient, to reduce staff, and to cut operating costs. Unfortunately, this cost-cutting mindset invites competition from 3rd party maintenance service providers claiming big savings to an organization's bottom line. To governing boards and upper management, outsourcing is seen as a possible solution to their financial burden. To maintenance staff and managers, it means something entirely different. With this presentation, we will explore the outsourcing topic and will present action items for facility managers to keep their departments relevant and competitive.

LEARNING OBJECTIVES:

- Learn and understand the outsourcing model and why 3rd party service providers are appealing to an organization
- Clarify specific ways your organization can keep pace with 3rd party service providers
- List examples of management reports for assessing and monitoring department operating performance
- State steps to take for identifying and implementing operating improvements

AUDIENCE: INTERMEDIATE CEU: 0.1

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Leadership and Career Advancement

**T3.21 ■ Room: 321**

**Transparency: The Future of Facility Management**

*Presenter(s): Dean Kashiwagi, PhD, P.E., Professor and Director of the Performance Based Studies Research Group, Arizona State University*  
Transparency is created by the proper metrics during procurement and contract management. Transparency requires the minimization of "management, direction and control" [MDC] and the identification and utilization of expertise. Transparency increases the value of expertise, increases accountability and minimizes decision making and risk. The use of transparency instead of MDC, moves the FM to a leadership based, supply chain, metric based approach instead of a manager of technical expertise. Examples of transparent systems shall be reviewed. FMs shall learn "how to do more with less" by utilizing expertise and increasing value rather than cutting cost.

LEARNING OBJECTIVES:

- Identify how transparency is created by the proper metrics
- Review how transparency requires minimization of "management, direction and control"
- Understand how transparency can change FM to a leadership based approach
- Discuss how to utilize expertise and increasing value rather than cutting costs

AUDIENCE: INTERMEDIATE CEU: 0.1

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Energy Efficiency, Upgrades and Utilities, High Performance Buildings  
**T3.24 ■ Room: 324**

### Real-Time Energy Management

*Presenter(s): David Borchardt, P.E., LEED AP BD+C, Chief Sustainability Officer, The Tower Companies  
 Philip Henderson, Senior Financial Policy Specialist, NRDC's Center for Market Innovation  
 Justin Lee, PE Senior Engineer, AtSite*

Large amounts of electricity are wasted in commercial office buildings today. This case study examines the energy management initiative implemented by Tower Companies, Inc., in three large, multi-tenant office buildings it owns and operates in downtown Washington, D.C. The energy management initiative produced strong results focused on operational improvements and measures, that do not require construction, disruption to an occupied office building, or substantial capital investment. This case study provides building owners, tenants, efficiency programs, and others with a road map of an energy management initiative with proven results.

#### LEARNING OBJECTIVES:

1. Learn how to implement building energy monitoring at a commercial office
2. Understand the costs, potential payback, and time required for implementation of a real-time energy program
3. Apply the lessons learned by others to achieve high performance in your facilities
4. Learn how to engage your building staff to think about constant improvement of energy performance

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems

**T3.27 ■ Room: 327**

### Why Benchmark for Failure?

*Presenter(s): Stormy Friday, President, The Friday Group,  
 Doug Kincaid, PE, President and General Manager, Applied Management Engineering*

How do we compare to our peers has become a common question directed to facility managers. To answer this question, facility managers typically use published benchmarking data in an attempt to draw some comparison with spending and staffing applied to various variables. In many cases the data collected to generate benchmarks is not standard across the participants because the facilities environment does not have a standard for capturing and reporting information. This can result in understating or overstating benchmarks without digging deeper into the parameters and variables associated with the data. More importantly if you are comparing with your peers, the economy of your industry, or the locations of the benchmark peers may provide answers that are less than adequate to ensure your stewardship role. In the worst case scenario, an outside consultant has been brought in to benchmark all staffing and costs for the organization and they are using benchmark criteria that does not really relate directly to facilities. This typically results in answers that can often leave the facility manager in a very defensive mode.

#### LEARNING OBJECTIVES:

1. Review what to look for in published benchmarking data that could skew results for comparisons
2. Understand how to address benchmarking results that are pushed down and do not reflect the FM environment
3. Clarify how to develop benchmarking so it reflects true needs
4. Review how to use real internal benchmarks

AUDIENCE: BEGINNER CEU: 0.1

Design Trends

**T3.30 ■ Room: 330**

### Case Studies of Design Excellence in K-12 Educational Facilities

*Presenter(s): Pauline Beeche, AIA, LEED AP, CDT, Architect, Penza Bailey Architects  
 James A. Colimore, Jr., AIA, Principal, Colimore Architects, Inc.,  
 Tara Labosky, AIA, LEED AP, Project Manager, Penza Bailey Architects*

*Pam Loeffelman, FAIA, NCARB, LEED AP, Eastern Region K-12 Practice Director, SHW Group*

*Fritz Read, AIA, President, Read & Company Architects  
 Meredith Sullivan, AIA, LEED AP BD+C, Vice President, Colimore Architects, Inc.,*

*Scott M. Walters, AIA, LEED AP, Associate, Hord Coplan Macht Architects* will present innovative designs for healthy, high-performance, and sustainable K-12 educational facilities that advance student learning outcomes throughout Maryland and the region. Presentations will be in an engaging rapid-fire format with illuminating images and project description.

This session sponsored by the Baltimore Chapter of the American Institute of Architects and is eligible for 1 AIA/CES HSW credit.

#### LEARNING OBJECTIVES:

1. Understand how K-12 education facilities design impacts student curricular outcomes, public health, and community connectedness
2. Understand design solutions for K-12 education facilities to meet the needs of building program, circulation, building systems, energy efficiency and monitoring, and ongoing building maintenance
3. Recognize specific design goals for K-12 education facilities for building performance, environmental sustainability, resiliency/disaster preparedness and response within building spaces for student and community use
4. Identify the design features of K-12 education facilities that relate to improved student performance and learning outcomes, and engage with and transform surrounding communities: such as collaborative/flexible classrooms and furnishings, integration of technology for teaching and monitoring building performance, fenestration design for natural light, passive airflow, and connection to natural environments

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainable Standards

**T3.37 ■ Room: 337**

### A Sustainable Certification Program for Facility Professionals

*Presenter(s): Justin Koscher, Vice President of Public Policy, Center for Environmental Innovation in Roofing*

Based on a successful pilot program initiated in 2013, the Center for Environmental Innovation (CEIR) is pleased to announce the launch of a new sustainable certification program for roofing and facility professionals. This session will present the key elements of the RRP program, including eligibility requirements and application procedures as well as a sample of the on-line RRP qualifying examination required for certification. In addition, the session will discuss the types of services that may be provided by RRP, including specification assistance, evaluation of sustainable roofing strategies, and confirmation of achievement of RoofPoint credits and ratings. Upon completion of this session, all attendees will receive a copy of the Registered RoofPoint Professional Program Manual and links to useful training aids to help them achieve RRP certification.

#### LEARNING OBJECTIVES:

1. Discover how the RoofPoint Registered Professional (RRP) program helps build expertise and professionalism in sustainable roofing
2. Explore the RRP Program Manual and learn how experienced

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roofing professionals can qualify for certification

3. Learn how the RRP program can be used to assist building owners in making sustainable roofing decisions and validating their sustainable roofing choices

4. Learn how make an application to the RRP program and prepare for the RRP qualifying examination

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Sustainable Standards

### T3.39 ■ Room: 339

#### Monetizing Large EPA Act Tax Deductions

*Presenter(s): Jacob Goldman, Chief Engineer, Energy Tax Savers, Inc.*

This presentation will provide a detailed description of the extension of Energy Policy Act (EPA Act) 179D as well as the creation of the new 179F. Both 179D and 179F provide valuable tax deductions for the installation of energy efficient equipment into buildings. When these tax deductions are combined with the energy savings and utility rebates, they create a compelling financial incentive to get energy efficiency projects approved. To best understand the proposed extension, a review of the existing 179D will be conducted while simultaneously highlighting the proposed changes in the new proposed legislation. Throughout the presentation, tax savings for lighting will be emphasized over those savings for HVAC and Building Envelope.

LEARNING OBJECTIVES:

1. State the new changes to EPA Act 179D
2. Identify the details in the new 179F provision
3. State strategies to maximize return on investment related to energy efficiency projects
4. Recognize past projects can still garner tax savings

AUDIENCE: BEGINNER CEU: 0.1

Power: Generation and Reliability

### T3.41 ■ Room: 341

#### Facility Management of the Future

*Presenter(s): Bhavesh Patel, Director of Marketing and Customer Support, ASCO Power Technologies*

Digital Technologies are everywhere. They are also commonly used in Facility Management, where everything from electrical, mechanical, plumbing, etc. has some digital technology to operate, monitor, maintain and/or report. With advent of digital technologies come the possibility of using networks and internet as a media within facility management, which then expands the possibilities. There are some facility management issues, like electrical infrastructure, that is taking advantage of digital world. Power has become a critical requirement for any facility and its reliability and continuity is a focus for Facility managers. This presentation will explain the background and how the world has and will continue to change for facility managers.

LEARNING OBJECTIVES:

1. Review changing strategies using digital technologies in facility management
2. Identify the differences between needs and wants
3. Learn from other industries that experienced this change
4. Discuss what the facilities would look like in future

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

### T3.43 ■ Room: 343

#### The Latest in NFPA 70E, NFPA 99 and OSHA Compliance in Electrical Safety

*Presenter(s): Doug Tellin, Owner/Master Electrician, Electrical Safety Specialists*

This session is to provide an overall understanding of the latest NFPA 70E, and OSHA's requirements as it pertains to electrical safety and electrical distribution for facilities. The latest NFPA and OSHA standards include training for both qualified and unqualified person every three years, annual safety audits for personnel, host and contract employer responsibilities with required documentation, Arc Flash Hazard Assessments every five years, circuit identification, updated panel schedule, posted one-line diagrams.

LEARNING OBJECTIVES:

1. Define the latest NFPA 70E and OSHA requirements as it pertains to electrical safety and electrical distribution for facilities
2. Discuss what the best approach is for safety proactive or reactive
3. Determine if electrical maintenance is an important part of electrical safety

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

### T3.45 ■ Room: 345

#### Everything You Wanted to Know About the ADA, but were Afraid to Ask

*Presenter(s): M. Bradley Gaskins, AIA, CASp, COO, Partner, The McIntosh Group*

New Americans with Disabilities Act (ADA) regulations took effect on March 12, 2012. Of those 1,000 new rules, approximately 450 of them will directly affect businesses. Failure to comply could lead to staggering penalties. This session is designed to help understand the new regulations and to better navigate the gray areas. Join us in this informative and interactive session where we get all your ADA questions answered. Please bring your Title III ADA questions for Brad.

LEARNING OBJECTIVES:

1. Discover the most common misunderstood elements of the ADA
2. Learn positive reasons to be compliant
3. Learn the appropriate accessibility standards you should follow
4. Learn answers to your ADA questions

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### T3.47 ■ Room: 347

#### The Revolution in LED Lighting: Technology Comes of Age

*Presenter(s): Bruce Craig, Consultant, Axlen Lighting*

LED lighting has reached a tipping point in the commercial and industrial sectors: the performance, quality, reliability, color, environmental impact, energy efficiency, and economical advantages of LED lighting solutions are driving their adoption in replacing mercury-based fluorescent tubes. The presentation will review the evolution of lighting and LED systems, the latest advances in LED lighting technology, its integration into smart lighting control systems, and its impact in the commercial and industrial lighting sectors. Attendees will gain a better understanding of their options for lighting upgrades and learn about the economic and environmental benefits of LED solutions from real world case studies.



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## LEARNING OBJECTIVES:

1. Briefly review how LED technology has changed over the last few decades and focus on recent technological advances that affect the marketplace today
2. Understand the key issues when considering LED solutions for lighting upgrades and new construction projects
3. Review the movement

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building, Sustainable Standards

**T3.49 ■ Room: 349****GSA's Sustainable Facilities Tool**

*Presenter(s): Michael F. Bloom, Sustainability and Green Buildings Program Advisor, GSA, Office of Federal High-Performance Green Buildings*

This session will provide an overview of sftool.gov, GSA's popular and free-to-use online tool for learning sustainability terms and concepts, planning projects, exploring sustainable practices in whole building systems and interior spaces, procuring products and sharing knowledge and case studies.

## LEARNING OBJECTIVES:

1. Identify and prioritize cost-effective green building and procurement strategies to improve environmental performance
2. List how to compare products and materials, with multiple sustainability attributes
3. Review how to integrate sustainable practices into projects and procurements beyond large mechanical systems & expert-led construction projects
4. Understand how quantifiable savings can result from an interactive online sustainability tool in the areas of training, professional services, research time, operations and more

AUDIENCE: INTERMEDIATE CEU: 0.1

**7:45-8:50 am**

Pratt Street Lobby

**Solutions Exchange Networking Event****9:00-9:50 am**

Maintenance and Operations

**W1.18 ■ Room: 318****NASA's Post Occupancy Evaluation Program**

*Presenter(s): Pete Aitchison, O & M Program Manager, NASA Headquarters*

In the last two years NASA has implemented an agency-wide Post Occupancy Evaluation (POE) program for their new construction and major renovations across the agency. This comprehensive POE program focuses on the sustainable buildings and includes a process evaluation, facility manager, O & M personnel and occupant surveys and benchmarking. The program has been successful in identifying practices that worked well (and some that didn't work so well) in NASA's new construction and major renovation program.

## LEARNING OBJECTIVES:

1. Examine the value of having a comprehensive post occupancy evaluation program
2. Identify the components of a good POE program
3. Observe lessons learned from the program

AUDIENCE: INTERMEDIATE CEU: 0.1

**Wednesday 8:00 am - 5:00 pm** High Performance Buildings, Leadership and Career Advancement**FBPTA ■ Room: 316****Federal Building Personnel Training Act: Industry Day at NFMT**

Meeting the training needs for the future-Facility Management Institute FBPTA Industry Day... don't miss it! It all starts here, the premiere event to gain the necessary awareness of the Federal Buildings Personnel Training Act (FBPTA), how it will affect you, your training offerings, and your employees. Learn how you can submit your courses, certifications, and certificate programs to be mapped to the competencies in the FBPTA. Hear from the National Program Manager with the General Services Administration, responsible for the implementation of the FBPTA, about the benefits of mapping your education offerings to the FBPTA competencies. Join recognized experts in the field of facility management to identify how they can support your FBPTA compliance educational needs.

## LEARNING OBJECTIVES:

Who: Federal Facility Management professionals and facility management, energy, and sustainability education providers

Where: Baltimore, MD in conjunction with the NFMT Conference

What: Understand the FBPTA and what it means to you as an education provider or consumer

When: March 5th

AUDIENCE: INTERMEDIATE CEU: 0.1



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Energy Efficiency, Upgrades and Utilities, High Performance Buildings

**W1.21 ■ Room: 321**

### Energy Modeling Tools - Solutions for Creating a High Performance Building

*Presenter(s): Neil Maldeis, Energy Engineering Manager, Trane Commercial Systems*

Attendees will learn how energy modeling software tools can help identify specific energy saving opportunities for both old and new buildings. Energy modeling uses a sophisticated software tool to re-create building systems in a simulated environment. The simulation displays the building's systems and their interactions to show how the building is currently operating and demonstrates how the systems affect energy performance. Once the model is complete and verified, users can virtually run the building on the software. This provides a powerful resource for making infrastructure changes in a virtual environment and testing a variety of solutions to determine which would function best in the building.

#### LEARNING OBJECTIVES:

1. Learn how to use and apply modeling tools methods and practices
2. Learn from success stories of how modeling was used to achieve high performance building results
3. Gain insights on what's required to set up an energy modeling system and learn how to perform a high-level cursory review of possible energy savings
4. Understand the factors that affect possible savings regarding the efficiency and health of existing building systems

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**W1.24 ■ Room: 324**

### The Hidden Value of Commissioning

*Presenter(s): Mohamad Jamal, P.E., President and Chief Mechanical Engineer, A.J. Adam Engineering, LLC, Mark Wylie Sullivan, Associate AIA, LEED AP BD+C, A.J. Adam Engineering, LLC*

Commissioning has some obvious benefits, but there are other compelling reasons to decide to commission a project, many of which cascade one into the next. These "deeper" value outcomes are often hidden from view, but can represent substantial cost savings. But since project teams are often unaware of these potentials, they remain unrealized. Commissioning is expensive, and the costs are not limited to just the commissioning fees. Extracting all possible value from commissioning is important. We will briefly discuss these "hidden" costs before examining the deeper value commissioning can provide from two perspectives: those of owners and of contractors.

#### LEARNING OBJECTIVES:

1. Identify the costs of commissioning a specific project -- both the upfront obvious costs and the hidden costs, associated with all stages of the construction process
2. Evaluate the potential benefits associated with a decision to commission a project and assess the impact that changes in the commissioning scope can make on both costs and outcome
3. Identify the hidden potential value outcomes from commissioning a specific project in order to form a basis for clear commissioning contract requirements that increase tangible project value
4. State potential construction cost savings benefits to increase project profitability

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**W1.27 ■ Room: 327**

### Peak Value FM Services

*Presenter(s): John Jarrett, Buyer, US Facilities and Construction, Delphi Automotive PLC*

*Martin C. P. McElroy, CFM, Principal, MartinCompany Management Consultants, Inc.*

"Value" varies. Facility owners and FM service providers must mutually define, deliver, prove and improve value in facility management operations and maintenance. Service Level Agreements ("promises made") and Performance Reviews ("promises kept") provide a consistent framework for process discipline, communication and management oversight. This session describes how seamless teams engage around strategies, scopes, standards, systems and synergies to sustain operational reliability, asset life, cost efficiencies and customer satisfaction . . . resulting in Peak Value Facility Services.

#### LEARNING OBJECTIVES:

1. Outline high-performance standards for "Service-Level Agreements" - "Promises Made"
2. Establish performance criteria for FM service providers - "Promises Kept"
3. Provide owners with guidelines for evaluating FM service providers competencies and capacities
4. Define strategies for a collaborative management framework for Peak Value FM Services

AUDIENCE: INTERMEDIATE CEU: 0.1

Healthcare Facilities Today

**W1.30 ■ Room: 330**

### Healthcare Facility Management Compliance

*Presenter(s): David Stepelevich, CHFM, Vice President, Healthcare Building Solutions,*

*Joseph Watson, PE, CxA, LEED AP, Senior Project Engineer, E3 Designs*

Hospitals and Healthcare facilities have always been required to meet federal, state, and local jurisdictional requirements for compliance with certain codes and standards related to the safe occupancy of the facility and the patients it serves. The American Society of Hospital Engineers recently released their comprehensive Healthcare Commissioning (HFCx) Guidelines specifically targeting new and existing healthcare facilities. The new guidelines include proposals to hold the design and commissioning teams accountable for actual building system performance and to develop Healthcare Commissioning training programs eventually leading to an HFCx certification. Attend this session to hear a synopsis of the HFCx commissioning processes for building envelope, life safety elements, HVAC systems and controls, plumbing systems, electrical systems, fire alarm systems, lighting, refrigeration, elevators and more.

#### LEARNING OBJECTIVES:

1. Learn about ASHE Healthcare Commissioning Guidelines
2. Review about how the guidelines are outlined
3. Understand the important areas of the building according to ASHE

AUDIENCE: INTERMEDIATE CEU: 0.1



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Greening an Existing Building

**W1.37 ■ Room: 337**

### Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4

*Presenter(s): Stephen P. Ashkin, President, The Ashkin Group, LLC*  
With the newest version of USGBC LEED-EBOM v4, cleaning requirements and recommendations have gone through some major changes. Attend this session to learn how those changes will affect your organization and how to make sure your vendors are complying with these new requirements. **LEARNING OBJECTIVES:**

1. Learn the changes in LEED-EBOM V4 and how they specifically affect cleaning requirements
2. Learn specific easy to use recommendations to have cleaning service providers implement the changes
3. Learn cost effective strategies to separate out specific cleaning suppliers to meet LEED requirements and reduce overall costs
4. Learn how to communicate the improvements to occupants, tenants, and other important stakeholders

**AUDIENCE:** BEGINNER **CEU:** 0.1

Greening an Existing Building

**W1.39 ■ Room: 339**

### Operationally Sustainable Procurement

*Presenter(s): Vince Elliott, President, Elliott Affiliates, Ltd.*  
Operational sustainable procurement (OSP) lays the foundation for environmental sustainability. Understand common buying strategies and how emerging innovations are altering buying building services. Attend this session to learn how operational sustainable procurement is different and the pros and cons to this strategy. **LEARNING OBJECTIVES:**

1. List the seven deadly sins of buying services
2. State the number one reason for knowing that you selected the right contractor
3. Apply how to manage the bidding project in a lot less time
4. Observe how to know that you have the right price

**AUDIENCE:** INTERMEDIATE **CEU:** 0.1

Power: Generation and Reliability

**W1.41 ■ Room: 341**

### Solutions to the Number One Problem with Standby Generators

*Presenter(s): William Kaewert, President and CTO, SENS - Stored Energy Systems*  
Standby generators (gensets) exist to power essential infrastructure when the bulk power grid fails. Genset failure during an emergency puts both lives and large amounts of money at risk. According to genset supplier Cummins, "the number one reason standby generators fail to start is due to dead starting batteries." The presentation explores the causes of this unacceptable situation and presents practical, fact-based suggestions for action that will reduce the #1 problem with gensets. Anyone responsible for the reliability of on-site generation will benefit from attending. **LEARNING OBJECTIVES:**

1. Review why genset starting batteries fail
2. Explain how correct charging and maintenance reduce battery failure risk
3. Review the tradeoffs between different types of starting batteries
4. Verify how to specify genset batteries and chargers for maximum starting reliability

**AUDIENCE:** INTERMEDIATE **CEU:** 0.1

Safety and Security

**W1.43 ■ Room: 343**

### FM Inspection and Testing of Fire Sprinklers

*Presenter(s): Dan Meneguín, Chief Operations Officer, Sinsinawa Dominicans Inc.*

This session will involve hands-on training related to the inspection and testing of fire sprinkler systems first hand from a facilities manager. Receive a detailed description of the types of systems, how they operate and the different components that make up the system. Next understand the required inspections per NFPA 25 which is the national standard on the inspection, testing and maintenance of fire sprinkler systems, including weekly inspection requirements which the facility manager would be responsible for in almost all jurisdictions.

**LEARNING OBJECTIVES:**

1. Review an overview of fire sprinkler systems
2. Identify the inspection requirements and procedures
3. List the testing requirements
4. Explain the owner responsibilities

**AUDIENCE:** INTERMEDIATE **CEU:** 0.1

Technology

**W1.45 ■ Room: 345**

### Analytics Driven Asset Reliability & Maintenance Management

*Presenter(s): Sunil Kamerkar, Principal Consultant, Asset Analytix*  
Asset operations and maintenance generate lot of data which often resides in disparate systems. The session will cover how plant and equipment related data from different sub-systems can be combined and leveraged to solve business problems associated with reliability and maintenance. The session will cover how to identify and solve data quality issues like accuracy, consistency, uniformity & completeness to get reliable and trustworthy analysis. Session will cover data analysis and visualization options of delivering analysis, metrics, KPIs, dashboards, scorecards, reports to support different type of users like reliability analyst, maintenance supervisors, business analyst & senior management. Learn how to utilize reporting & analytics for subject matters like asset reliability, availability, utilization, tracking, work order management, resource management, planning, scheduling, spare parts optimization, purchase, maintenance costing and budgeting, compliance etc

**LEARNING OBJECTIVES:**

1. Review, assess, and improve asset related data quality
2. Tips for streamlining reliability and maintenance analysis requirements
3. Review best practices KPIs to be included in the dashboards and reports

**AUDIENCE:** ADVANCED **CEU:** 0.1

Technology

**W1.47 ■ Room: 347**

### Technology Trends in Retail FM

*Presenter(s): Monica Munoz, RID Director, Industry Programs, PRSM - Professional Retail Store Maintenance Association*  
*Mark Warren, Director, Maintenance, Waste & Recycling, Petco Animal Supplies, Inc.*

See how the use of technology impacts the retail facilities sector. After an overview of the trends, such as mobile, IVR/CMMS, EMS, BAS and E-Auction, see how one retailer is adapting to rapidly changing technology and using it to drive efficiencies in their FM department. Petco Animal Supplies, Inc. will share their best practices as they have embraced technology across their FM portfolio.

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## LEARNING OBJECTIVES:

1. Learn about the trends in technology impacting retail FM
2. Streamline vendor management processes thru integration with new technologies
3. Learn about efficiencies to be gained through deployment of new technology in your FM departments

AUDIENCE: BEGINNER CEU: 0.1

## Maintenance and Operations

**W1.49 ■ Room: 349****Impact of Equipment Inventories on Building Owners and Organizations***Presenter(s): Robert Keady, Facility Manager*

Billions of dollars are lost every year in the U.S. because of the improper operation of facilities. One of the major causes of these financial losses is poor and inaccurate equipment inventories. So what are equipment inventories and how do they impact everyone in the organization including the CEO and CFO? What is the business case for accurate up to date equipment inventories for your facility?

## LEARNING OBJECTIVES:

1. Define and learn the different equipment inventory types
2. Define the business case for accurate equipment inventories
3. Define the importance of equipment inventories to business
4. Determine the best type of equipment inventory for any business.

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 am

## Leadership and Career Advancement, Maintenance and Operations

**W2.18 ■ Room: 318****Your Facility Management Career: Make the Most of it or be Under Employed***Presenter(s): Michael B. Cowley, CPMM, President, CE Maintenance Solutions*

The facility management profession is changing rapidly. Understanding where it's going and how to prepare for the change is a daunting task. In this presentation Mr. Cowley will highlight the upcoming changes in the profession and identify components which will require close attention by the facility management professional and enable them to retire on their on schedule. The presentation will focus on the key components such as technology, organizational dynamics, finance, and professional development. Attendees will take away ideas and tools that will enable them to develop short and long term plans which will allow them to prepare for the future.

## LEARNING OBJECTIVES:

1. Understand the direction the profession is headed
2. Review how technology will assist moving forward
3. Discuss how the depth and quality of your organization can assist as you move into the future
4. Create an understanding of the financial tools and processes which will assist in justifying future changes
5. Assemble professional development goals and objectives which will allow you to be prepared for future changes and challenges.

AUDIENCE: INTERMEDIATE CEU: 0.1

## High Performance Buildings, Technology

**W2.21 ■ Room: 321****Building Re-Tuning: Low-Cost Operational Improvements**

*Presenter(s): John Wilson, Instructional Specialist, National Sustainable Structures Center, Pennsylvania College of Technology*  
Is your building eating too much energy? There are common opportunities for operational savings in most buildings. Finding these opportunities can be as simple as walking around and using the five senses. This session will provide an overview of low-cost and no-cost methods to reduce operating cost and obtain a typical energy savings of 5 to 20 percent in small/medium-sized buildings.

## LEARNING OBJECTIVES:

1. Learn the four step prescriptive approach of building re-tuning to identify and correct building operational problems that lead to energy waste
2. Discuss the importance of conducting regular building walk-downs and what to look for during these investigations
3. Examine a case study example to determine recommendations and solutions
4. Identify how to use meter data profile analysis to calculate energy savings

AUDIENCE: INTERMEDIATE CEU: 0.1

## Energy Efficiency, Upgrades and Utilities

**W2.24 ■ Room: 324****Optimizing Energy Strategies with Load Response and Energy Efficiency***Presenter(s): Greg Fox, Director, Business Development, Constellation*

In today's economic environment, businesses are looking for ways to reduce their energy costs, one of the largest operating expenses. Almost 25 percent of what customers pay for electricity is determined by energy usage during several peak hours each year. Limiting energy use during these hours yields significant savings. This session will highlight the key components of a successful energy management strategy, focusing on load response and energy efficiency, two of the most effective strategies for optimizing energy spending. The session will also discuss the role that data plays to ensure the best efficiency results for your business.

## LEARNING OBJECTIVES:

1. How to effectively analyze your company's energy needs while considering business driver, operational issues and data in order to ensure the best efficiency results
2. The importance of approaching all of your company's energy interactions (water power technology BMS, load response, wind, sustainability, solar, on-site generation, and energy efficiency) as one integrated energy management system
3. Understanding your company's energy management system, including rate response, peak response, price response, and efficiency made easy
4. Processing and analyzing your company's energy data

AUDIENCE: BEGINNER CEU: 0.1

## Systems

**W2.27 ■ Room: 327****Simple Analytics using POA***Presenter(s): Steve Tom, P.E., PhD, Director of Technical Information, Automated Logic Corp.*

One of the hottest buzzwords in building automation today is "Analytics." Traditional BAS providers are offering analytics



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packages. While there is no disputing the fact that analytics packages can implement sophisticated algorithms to reveal esoteric opportunities to improve performance, much of their power is used to sift through reams of data to discover simple problems like leaking valves and stuck dampers. On the other hand, the building operator may already have a tool that can discover these simple problems, a tool called “Plain Old Alarming.” This presentation will show how the alarming package in an existing building automation system can be used to detect energy-wasting equipment problems while avoiding the false alarms that have in the past caused people to disregard all alarms.

#### LEARNING OBJECTIVES:

1. Understand how equipment failures and maintenance problems can dramatically affect energy use
2. Know how analytics packages utilize fault detection and diagnostics routines to spot operating problems
3. Understand how rules-based logic can be used to identify common problems such as stuck dampers, leaking valves, or rogue schedules
4. Understand how techniques such as algorithmic alarming, hierarchical alarm suppression

AUDIENCE: INTERMEDIATE CEU: 0.1

#### Sustainable Standards

### W2.37 ■ Room: 337

#### Green is Really About ROI

*Presenter(s): F. Joshua Millman, AIA, Principal, Facilities Planners & Architects, Inc.*

Ongoing financial pressures block many efforts to promote sustainable design. What maybe lost is what green building design is really about: sustaining the life and (economic) livelihood of the occupants. In the post-recession “new normal” a building’s sustainability is best measured by its return on investment rather than the metal of its LEED certification or its Energy Star rating. Using this ROI criterion, a five-step process is proposed to identify sustainable features to incorporate in the facility. For Hanover Laboratories, this process generated cost saving opportunities that were strong competitors to lab equipment purchases being considered in the corporate five year capital plan.

#### LEARNING OBJECTIVES:

1. Employ the mechanics of ROI measurement of facilities capital projects
2. Understand a systematic process for identifying facilities sustainability projects
3. Employ ROI to evaluate facilities sustainability projects based on total cost of ownership and measureable direct and indirect returns
4. Present ROI analysis of facilities sustainability projects to upper management to obtain the capital funding

AUDIENCE: INTERMEDIATE CEU: 0.1

#### Sustainable Standards

### W2.39 ■ Room: 339

#### Should LEED Be Adopted As Building Codes?

*Presenter(s): Mark Lentz, P.E., President, Lentz Engineering Associates, Inc.,*

*Lawrence G. Spielvogel, P.E., Consulting Engineers*

Proponents of green and sustainable buildings are lobbying to have LEED requirements adopted into municipal and state building codes. This presentation will explore the extent to which “sustainable” and “green” are or should be made mandatory in building codes. Building codes are legally minimum criteria. LEED requirements contain many social engineering and “feel

good” criteria never previously contemplated in building codes. How do some green building features improve the “sustainability” of buildings? Can the benefits claimed be believed? Are they technically or economically achievable? Do they provide tangible value for what owners will have to pay for them? Does achieving LEED certification really mean “green” buildings provide sustainability? If they fail to perform, who is accountable?

#### LEARNING OBJECTIVES:

1. List common failures to achieve LEED
2. Clarify LEED facts and fiction
3. Discuss building code reality
4. Explain fuzzy green features

AUDIENCE: INTERMEDIATE CEU: 0.1

#### Power: Generation and Reliability

### W2.41 ■ Room: 341

#### Generator Docking Stations: How to Back up Your Facility when Your Backup Plan Fails

*Presenter(s): Chris Dahl, President, Trystar, Jon Sunde Certified Master Electrician, Trystar*

What happens when a large scale power outage occurs? There are a number of options for powering up your location, and now those options are becoming more readily available. Trystar’s experience and presentation will come from the rental generator and quick hook up during a significant outage perspective. We will cover what happens during the outage, what to avoid when considering equipment.

#### LEARNING OBJECTIVES:

1. Steps to protect you when your back up generator fails or needs to be taken down for service
2. Different connection methods for different applications, critical power, non-critical Power, long-duration power outages
3. Understanding what happens when the generator rental people arrive and how to be prepared for them in order to get your facility back up and running quickly
4. Eliminating significant time and cost load banking your permanent on site generator

AUDIENCE: ADVANCED CEU: 0.1

#### Safety and Security

### W2.43 ■ Room: 343

#### What to Expect from a Mitigation Vendor

*Presenter(s): John Sooker, National Accounts Division Manager, Servpro Industries, Inc.*

There are many fire and water mitigation companies across the U.S. and the identification and selection process can appear challenging to the novice facility or risk manager. Learn what traits and characteristics you should be looking for when identifying and selecting your next mitigation vendor. Compare simple selection criteria based on geography, size, training, experience and other differentiators that set apart the vast array of companies available to you. Key points of comparison will help you rank the pretenders from the contenders so you come away with the confidence that the mitigation vendor selected can bring your company out of crisis situation quickly and cost effectively.

#### LEARNING OBJECTIVES:

1. Learn how to identify, select and manage a fire and water mitigation company based on select criteria and industry standards

AUDIENCE: BEGINNER CEU: 0.1



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## Maintenance and Operations

**W2.45 ■ Room: 345****The National Park Service and the Facility Condition Index: A Case Study**

*Presenter(s):* Tim Harvey, Chief, Park Facility Management, National Park Service  
Doug Kincaid, PE, President and General Manager, Applied Management Engineering

Managing a diverse portfolio that contains historic, national treasures with limited funding is a significant challenge. The historic component prevented the NPS from using the FCI alone to evaluate and prioritize asset management decisions. But NPS facility managers realized the value of the FCI and developed a method for making it a meaningful metric. In 2002, the NPS began in earnest to more clearly define its asset management practices and, from that effort, to develop a comprehensive capital asset management program. This program focuses on answering these fundamental questions: 1. What assets does the NPS own? 2. What is the CRV of those assets? 3. What is the current condition of those assets? 4. What is required to achieve portfolio performance targets? 5. Which assets are mission critical, and where should parks invest their limited resources? Answering the first three questions revealed that the facility condition index (FCI) would play a key role in how asset management practices were developed and used for strategic decisions.

## LEARNING OBJECTIVES:

1. Identify strategic decision-making processes
2. Review defining asset management practices
3. Reivew defining facility performance targets
4. List culture change to managing facilities

AUDIENCE: BEGINNER CEU: 0.1

## Safety and Security, Technology

**W2.47 ■ Room: 347****Protecting your Facility and the People and Assets within through the Whole Building Design Guide**

*Presenter(s):* Richard Paradis, P.E., BSCP, Director, Advanced Materials Program, National Institute of Building Sciences  
Terrorism, crime, vandalism, and natural disasters impact our facilities, the assets contained in them and the safety of occupants and visitors. It is vitally important for those charged with the management, operation and maintenance of facilities to take a proactive approach to security and safety and have access to information, resources and training to address these issues. The Whole Building Design Guide, one of the largest, most comprehensive online resources in the building construction industry provides what facility managers and O&M staff need to deal with these critical issues. WBDG presents this information from the integrated, whole building design perspective.

## LEARNING OBJECTIVES:

1. Understand the integrated design process as it pertains to facility security and safety
2. Learn about the proactive approach to designing buildings for security and safety
3. Identify the fundamental principles of all-hazard building design
4. Discover security and safety resources and training that aid the facility manager and O&M staff

AUDIENCE: BEGINNER CEU: 0.1

## Maintenance and Operations

**W2.49 ■ Room: 349****How to Specify Commercial Flooring**

*Presenter(s):* Lewis G. Migliore, President, LGMTCs and Associates  
Specifying starts with knowing the space you want to put flooring in. What type of product or products you should be looking at; if they will actually perform as expecting.

## LEARNING OBJECTIVES:

1. Review getting the correct product and installation in the space
2. Understand what you need to know first for the spec
3. Clarify who should you listen to mfg or flooring contractor
4. Review how to insure you don't make a mistake

AUDIENCE: INTERMEDIATE CEU: 0.1

**3:10-4:00 pm**

## Maintenance and Operations

**W3.18 ■ Room: 318****Facility Maintenance Modeling**

*Presenter(s):* Van Dobson, Associate VP, Facilities Services and Campus Planning, Lehigh University,  
Frank Kaleba, Senior Engineer, R&K Solutions

The M&R modeling can be used to develop a parametric cost estimate for a facility. Use of the model has several benefits, including the identification of cost variation over time, and focusing maintenance planning on significant claims on reserve accounts. This presentation will discuss the process of modeling, including an example of a model, and describe how the model can be used to bolster your budgeting process.

## LEARNING OBJECTIVES:

1. Explain the need for maintenance modeling
2. Describe the steps in the modeling process
3. Describe a case study/ example
4. Summarize the benefits and use of modeling

AUDIENCE: ADVANCED CEU: 0.1

## Sustainable Standards

**W3.24 ■ Room: 324****Advanced Retrofit Conservation Technologies**

*Presenter(s):* Scott Milne, President, CEO, National Energy Technologies

Conservation investments have not impressed many large facility owners as they wade through tired options with poor payback. Scott Milne Founder of National Energy Technologies, a company that specializes in advanced conservation retrofit technologies desires to change that opinion. They research, test, validate and educate building owners on little known, rapid payback strategies that also protect equipment and health. Discover which equipment or process saves from 5 to 25 percent on electricity, cooling, water, refrigeration, lighting, laundry, fuel for fleet vehicles, compressed air, and many other resource depleting activities. These techniques provide a rapid ROI, most below 24 months, without incentives.

## LEARNING OBJECTIVES:

1. Understand advanced efficiency technologies, one building system at a time
2. Discover how to utilize elements found in nature to reduce utilities, protect health, and preserve equipment
3. Adopt new and affordable conservation solutions for efficient operations

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4. Learn how certain conservation strategies protect health and reduce consumer liability

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building, Sustainable Standards

**W3.27 ■ Room: 327**

### Case Study of Adaptive Reuse: Mill No. 1 in Mt. Vernon

*Presenter(s): David Tufaro, Developer, Founder, Terra Nova Ventures*

Mill No. 1 is a \$40 million adaptive reuse project of historic 19th century cotton mill buildings containing 250,000 square feet, located along a scenic 10-acre stretch of the Jones Falls river adjacent to Baltimore, Maryland's downtown. The mixed-use project will consist of approximately 90 residential units, 40,000 sq. ft. of office, and restaurant locations overlooking the Jones Falls. The buildings to be rehabilitated in accordance with historic preservation guidelines include three buildings- Mt. Vernon Mill No. 1, a concrete warehouse building, the "Picker Building" and the "Store House." Each building is on the National Register for Historic Places. There are historic tax credits involved with this project which will use LEED credits and is planned to receive Baltimore Green Building Standards Certifications. The Jones Falls stream and the vegetation along the third-mile stretch will be returned to its natural state.

LEARNING OBJECTIVES:

1. Understand how the renovation of a century old building within a 100 year flood plain took place
2. Discuss the adaptive reuse of existing structure without adding new structural materials
3. Review the historic tax credit application
4. Specify the historic preservation guidelines and applicability

AUDIENCE: INTERMEDIATE CEU: 0.1

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Healthcare Facilities Today

**W3.30 ■ Room: 330**

### Integrated Weather Barrier Concepts in Healthcare Architecture

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

Whether it is new construction, renovation, or repair, it is critical to the long term performance of any building that the building envelope components be brought together to create an Integrated Weather Barrier. This is achieved through the full application of the thoughtful processes applicable to any project, which include planning, concept design, development of project construction documents, and finally execution of the project during construction. This seminar will define the concept of the Integrated Weather Barrier, examine the steps necessary to develop the Integrated Weather Barrier and explain how the functions of Planning, Design, Material selection and specification, and Installation are intimately intertwined and how they must be fully integrated in order to achieve a completed project that performs as desired.

LEARNING OBJECTIVES:

1. Define and develop a better understanding of the concept of Sustainability for buildings relative to Usage, Efficiency and Integrity
2. Explore the need to integrate considerations related to the Integrated Weather Barrier during the Planning Phase of a project, and during the development of the Project Concept
3. Explore the processes of material selection and specification, and the need for complete integration of the technical requirements of the materials selected into the details developed during the

Construction Documents phase of the project

4. Explore the process of constructing your project, including project organization, quality control, and the development of procedures and controls, the goal of which is to assure that the completed project fully functions as intended, and that the Integrated Weather Barrier is complete and sound

AUDIENCE: CEU: 0.1

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Greening an Existing Building

**W3.37 ■ Room: 337**

### Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs

*Presenter(s): Bruce Buchan, Founder and CEO, CleanRiver Recycling Solutions*

The traditional recycling approach has been developing a program around the three R's of recycling - Reduce, Reuse, Recycle. The desire to improve sustainability goals while striving for zero waste requires a much different approach. As we work with clients to either start a program or build on existing successes, we have coined the term "The 3Cs Approach to Zero Waste: Culture, Communication, and Collection." Each is an integral piece of the recycling puzzle and without one, your program will be faced with many challenges. This session will look at each piece and discuss how they are critical in the building of a successful recycling program, along with the sharing of some best practices.

LEARNING OBJECTIVES:

1. Define what elements are critical to the success of a recycling program
2. Discuss why the ability to right-size the capacity of their recycling container is critical to protecting their initial capital investment
3. State the importance and relevancy of being future-ready in their recycling program and how it relates to their anticipated ROI
4. List the different types of recycling program killers and they will be equipped with strategies to avoid or address them

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building, Sustainable Standards

**W3.39 ■ Room: 339**

### Sustainability in the Federal Government

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

This discussion will center on the challenges facing federal executives using technology to measure, track and manage the sustainability programs and goals. The industry has recognized that establishing a vision around real estate and technology requires the engagement of program leaders. Furthermore, this global vision requires a strategic approach to aligning program strategies with technology roadmaps and architecture. Learn about perspectives from a variety of real estate organizations, including GSA, US Army Corps of Engineers, US Customs Border Protection and the State Department.

LEARNING OBJECTIVES:

1. Discuss how to leverage the use of technology to drive sustainable practices.
2. Review how to measure, track, monitor, and manage against sustainability goals.
3. Assess the long term strategy for ensuring the maximum benefit from repair and alterations investments.
4. Understand how technology solutions can be used to support a real estate program and long-term strategies.

AUDIENCE: CEU: 0.1



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**The Right Fire Protection Company.** The Kidde integrated approach offers a complete fire protection system that is designed, manufactured, installed and serviced by one company. From refineries to commercial kitchens... it's likely that Kidde Fire Systems is on the job.

NFMT Booth #2358

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# FIRE PROTECTION FOR PEOPLE AND PROPERTY

Power: Generation and Reliability

**W3.41 ■ Room: 341**

**The Basics of Standby Power Systems**

*Presenter(s): Ken Cockerham Executive Vice President, Nixon Power Services*

This presentation will address the purpose of standby power and will feature an in-depth discussion of the major components of standby power systems, the functions they perform, and how they interact for a complete and operable system. Dynamic illustrations will be presented, as will information regarding system installation, application and maintenance. A question-and-answer segment concludes the presentation and provides additional detail for specific facility applications.

**LEARNING OBJECTIVES:**

1. Become familiar with the definition of and need for standby power and its applications
2. Identify the basic components of engine generator sets used in the standby power systems, and describe their functions
3. Understand the basic function of the automatic transfer switch (ATS)
4. Understand the controls interface and functionality between the generator set and ATS

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

**W3.43 ■ Room: 343**

**Significant Changes to the 2012 International Fire Code**

*Presenter(s): Andrew M. Schneider, PE, Senior Fire Protection Engineer, Koffel Associates, Inc.*

The presentation will highlight the significant changes to the 2012 Edition of the International Fire Code. Topics will include typical enforcement issues and problematic areas such as building and fire protection systems, while highlighting newly introduced features such as roof gardens, in order to help ensure operability and overall building compliance when altering or maintaining spaces. The presentation will also briefly introduce hazardous materials requirements.

**LEARNING OBJECTIVES:**

1. Identify significant changes to the 2012 edition of the IFC
2. Understand the concepts behind the changes
3. Recognize the impacts of the changes to new and existing features
4. Apply the updated requirements in their facilities

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**W3.45 ■ Room: 345**

**Women in Facilities Management 2014 Edition**

*Presenter(s): Desiree Lord, General Manager, Multi-Services Corporate Services, Facilities Division, Sodexo Corporate Facilities Services*

*Theresa Olson, Vice President Corporate Real Estate, Facilities & Security, Fannie Mae*

*Mari Kay Scott, Executive Director, Global Facilities, General Motors*

Join women from across North America, as we gather to network and discuss facilities management. Now in our fifth year the Women in Facilities Management panel is not one to be missed. This highly interactive panel and reception will allow you to add your voice to the conversation regarding how to manage work/life balance, career advancement, mentoring and much more. Each year our new panelists bring a unique viewpoint that you don't want to miss.

**LEARNING OBJECTIVES:**

1. Compare if there are differences between being a woman or man in facilities management

2. Identify different career paths within facilities management
3. Review the importance of networking and mentoring others
4. Understand how to attract and retain other females in facilities management

**Session and Reception Sponsored by: Sodexo**

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

**W3.47 ■ Room: 347**

**Self-Funding Critical Facility Needs**

*Presenter(s): William Maurer, Senior Vice President, ABM*

Today's facility managers and owners are challenged with rising operating costs with no capital to make infrastructure improvements and energy upgrades. By attending this session, you'll learn how to remove the barriers to funding these critical facility needs - without impacting your existing budget! You'll learn about financing options that do not negatively affect the future sale of a building or increase debt ratios. In addition, attendees will better understand: financing options that have a zero budget impact facility, improvements that can be included in the financing, asset management programs that replace reactive repair programs

**LEARNING OBJECTIVES:**

1. How to utilize your existing operating budget to fund critical facility upgrades
2. How to implement energy saving measures that will save over 25 percent in annual utility costs
3. How to better manage and predict your operating budget
4. How to fund the necessary energy improvements

AUDIENCE: ADVANCED CEU: 0.1

Technology

**W3.49 ■ Room: 349**

**Smart Building Management: Reducing Overhead and Headaches with Proactive BMS Technology**

*Presenter(s): Michael Zimmerman CEO, BuildingIQ*

Commercial buildings consume nearly a fifth of all U.S. energy consumption, most of which can be traced to heating and cooling. This creates a huge opportunity to conserve energy through optimizing HVAC operations. New, proactive technology uses the cloud to make real-time changes to building controls, ensuring a comfortable work environment for occupants while accounting for weather conditions, demand response events and utility tariffs. Furthermore, it's relatively inexpensive to implement. In this presentation, Mike Zimmerman will discuss the barriers that are preventing building owners and operators from reaching their full efficiency potential. He will also detail what the next generation holds for BMS and how facility managers can strive for maximum savings with a relatively low investment.

**LEARNING OBJECTIVES:**

1. Review and discuss core issues facing facility managers and building owners in balancing building performance, tenant satisfaction, and managing costs - as well as a range of new technologies being introduced in the market
2. Highlight new technologies and approaches that positively overcome challenges facing facility managers and building owners without capital expenditure or operating budget increases
3. Introduce the concept of predictive energy optimization and how it is different from typical controls operation
4. Provide case studies on real savings and operational improvements even in already well managed high performing buildings

AUDIENCE: INTERMEDIATE CEU: 0.1



# SCHOOL

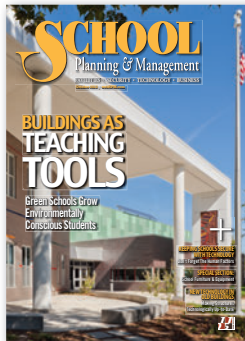
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NFMT Booth #2531

4:10-5:00 pm

Leadership and Career Advancement, Systems

**W4.27 ■ Room: 327****Strategic Stewardship and the Preventative Maintenance Master Plan**

*Presenter(s): Bruce Meyer, EdD, Assistant Vice President for Campus Operations, Bowling Green State University, William Roess, LEED AP O+M, Vice President Corporate Development, Technical Assurance, Inc.*

Although many facilities managers have embraced energy efficiency and environmental stewardship, few have made sustainability a strategic priority. This involves a holistic approach, integrating all aspects of facilities operations, financial management and business/organization leadership defined as "Strategic Stewardship." Strategic Stewardship and transformational leadership will be explored through a real world case study focused on the Bowling Green State University campus and their unique program involving a maintenance plan.

LEARNING OBJECTIVES:

1. Review how strategic planning and master planning differ
2. Understand that total cost of ownership and comprehensive asset management can be key elements for optimal efficiency and change management
3. Examine how preventative maintenance master plan facilitates a holistic approach to strategic stewardship.
4. Define how Bowling Green State University strategic objectives implemented the preventative maintenance master plan

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations, Safety and Security

**W4.37 ■ Room: 337****Before and After: NYC School's response to Hurricane Sandy**

*Presenter(s): John T. Shea, CEO, Division of School Facilities, The New York City Department of Education*

The New York City Department of Education is the largest K-12 system in the United States, as well as the country's largest single municipal agency. In October, 2012, Hurricane Sandy devastated the east coast of the United States, causing billions of dollars of infrastructure loss in New York City alone. Hundreds of NYC school

buildings were damaged, some heavily, yet 95 percent of schools were open within the first week following the storm, and 100 percent by the end of the calendar year. This presentation will give an overview of the NYC Department of Education's preparation for, aftermath of, and the recovery from this natural disaster.

LEARNING OBJECTIVES:

1. Recognize how large municipal facilities organizations manage complex natural disaster recovery operations
2. Discuss how teamwork and preparation are vital for successful outcomes, using New York City as the model
3. List what tools, processes, and procedures are needed for leaders to make good decisions during times of crises, from lessons learned during this unprecedented event

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainable Standards

**W4.39 ■ Room: 339****Water Conservation**

*Presenter(s): Ken Sensel, Senior Product Manager, BETCO*

97 percent of earth's water is in the oceans, 2 percent is frozen in the polar ice caps and 1 percent is readily available for use. Water conservation not only makes sense, it is also economically pleasing to our wallets. So, how do you reduce your water consumption and make sure that it makes sense? This discussion will focus on targets that make sense for most facilities starting from easiest to hardest with suggested solutions.

LEARNING OBJECTIVES:

1. Understand why water conservation is important.
2. Observe how water rates are increase over much of the country
3. List where we get our water sources from
4. State where you can conserve water in your facility

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

**W4.41 ■ Room: 341****Death, Taxes & EPA Reporting**

*Presenter(s): Harold Jarrett, Founder and CTO, OMNIMETRIX, LLC*

If Benjamin Franklin were alive today, he would likely wish to alter his famous proclamation to "nothing is certain except death and taxes and EPA regulation." The steady increase in the levels of governmental regulation over the operation of, and required

Thursday 8:00 - 8:50 am Leadership and Career Advancement

**RG.16 ■ Room: 316****Complaints: How to Deal with the Negativity**

*Presenter(s): Marc Fischer, CPM, RPA, CCIM Senior Vice President & Director, Management Services, Transwestern, Susan Mazur-Stommen Behavior and Human Dimensions Program Director, American Council for an Energy-Efficient Economy, Teena Shouse, CFM, IFMA Fellow Vice President, Facility Engineering Associates*

The facilities department is the de facto complaints department in any organization. And most any FM has a story or two of some of the doozies they've been faced with, whether the complaint was outrageous, frivolous or just bizarre. Come listen to some of the situations fellow FMs were faced with, as reported in a recent Building Operating Management reader survey, and share your own stories. A panel of industry experts will offer insight on strategies for handling particular situations and how to walk the fine line between providing good customer service and chasing fires all day.

LEARNING OBJECTIVES:

1. Review the situations fellow FMs are faced with
2. Review strategies for handling particular situations
3. Understand how to walk the fine line between providing good customer service and chasing fires all day

AUDIENCE: INTERMEDIATE CEU: 0.1

reporting on, emergency power generators adds legal pressure to the owners of these critical power devices. This presentation will address the use of remote monitoring for data collection to meet the ever-growing compliance needs of stand-by generator owners.  
**LEARNING OBJECTIVES:**

1. Reivew remote monitoring methods
2. Discuss genset features related to EPA needs
3. Specify examples of EPA data reporting
4. Justify prognostic use of data for failure prevention.

**AUDIENCE:** BEGINNER **CEU:** 0.1

reduce or even eliminate those costly emergency calls and false alarms.  
**LEARNING OBJECTIVES:**

1. Reduce emergency fire alarm calls saving time and money
2. Have a better understanding of NFPA Standard requirements for all fire alarm systems
3. Learn how to train your staff to address simple and avoidable problems.
4. Learn the What, Where and How long for NFPA required record keeping.

**AUDIENCE:** BEGINNER **CEU:** 0.1

Safety and Security

**W4.43 ■ Room: W4.43**

**Fire Alarm/Suppression Systems: Common Problems and Practical Solutions**

*Presenter(s): Steve Carter, Vice President of Engineering, ORR Protection Systems*

Fire alarm systems are installed to protect people, the building and its contents, but sometimes they become more of a problem than a protector. By properly inspecting, testing and maintaining your fire systems, you can avoid most, if not all, of these common problems. If there ever was a fire, you will be held responsible; therefore just hiring any company and trusting they will do what is required by law to inspect your fire system is not enough. You need to know what the NFPA code requires for proper inspection and testing of your fire system. This session will help you to understand code requirements, what records to keep and how to properly maintain your systems to

Maintenance and Operations

**W4.49 ■ Room: 349**

**The Emergence of Outcome-Based Services**

*Presenter(s): Leon Surbaugh, Program Manager - Service Agreements, Trane*

The evolution in providing building services is predicated upon the cost-effective availability of operational data and real-time information. Providing services to facilities can be more efficient and cost-effective if such services are based upon pre-defined operational outcomes.

**LEARNING OBJECTIVES:**

1. Why operational outcomes are replacing calendar-based service tasks in today's service models
2. Capture data to create more effective service models
3. How to economically justify service

**AUDIENCE:** INTERMEDIATE **CEU:** 0.1

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9:00-9:50 am

Maintenance and Operations

**R1.18 ■ Room: 318**

### What's Your Grade - Calculating Your Maintenance Performance Index (MPI)

*Presenter(s): C. Paul Oberg, President and Chief Executive Officer, EPAC Software Technologies, Inc.*

Maintenance performance is more than just uptime and customer service. It goes well beyond key performance indicators. Learn how to calculate your overall Maintenance Performance Index to get a true 360 degree evaluation of your maintenance operation.

LEARNING OBJECTIVES:

1. Describe the maintenance performance index (MPI)
2. Analyze the relationship between key performance indicators (KPI) and MPI
3. List your MPI components
4. Learn to calculate your MPI

AUDIENCE: BEGINNER CEU: 0.1

High Performance Buildings

**R1.21 ■ Room: 321**

### The Foundation of Green Construction Codes: ASHRAE 189.1

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

We're all familiar with the USGBC LEED Program, a voluntary rating system focusing on energy and sustainability for buildings. ASHRAE 189.1 also deals with green buildings but is different. The intent of ASHRAE 189.1 is mandatory green buildings. Essentially ASHRAE 189.1 will eventually provide a green building construction code that jurisdictions can adopt. This presentation will provide an overview of the standard as well as key requirements of the standard including water, siting, energy, IEQ, construction and operations. When you have the USGBC, the International Code Council, IES (Illuminating Engineering Society) and ASHRAE all working together, you know something significant is happening that will change how buildings are built.

LEARNING OBJECTIVES:

1. Develop a basic knowledge of the mandatory criteria of ASHRAE 189.1
2. Demonstrate and communicate the sustainable value of green building construction codes
3. Identify and describe the purpose, intent and foundations of ASHRAE 189.1

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**R1.24 ■ Room: 324**

### Advanced Electric Submetering for Retrofit and New Construction

*Presenter(s): Lee Shaver, Specification Engineer, Quadlogic*

The purpose of this lecture is to give a definition of submetering, and outline the reasons why submetering may be installed on both new and existing buildings, including the two most typical uses:

transfer of real energy costs to end user, and energy management. The features of a number of available technologies will be discussed. Finally, the speaker will cover three examples of projects where submetering systems were installed and helped a property manager either save or make money.

LEARNING OBJECTIVES:

1. Review how property managers give tenants visibility to their energy usage
2. Understand how energy monitoring and submetering help save money
3. State the submetering and energy monitoring technologies that exist
4. List some examples of properties successfully employing submetering and energy monitoring technology

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations, Systems

**R1.27 ■ Room: 327**

### Optimizing Chilled Water Plant Performance

*Presenter(s): David Herman, PE, LEED AP, Principal, EnerG Associates, LLC*

Central chilled water plants may never achieve or often fail to maintain the efficiency predicted during design. Although tremendous gains have been made in the efficiency of each equipment component, traditional methods of plant operation treat the chilled water plant as a collection of discrete pieces of mechanical equipment. The greatest optimization potential occurs when operators understand the chilled water plant as a complete system. Optimization strategies including case studies will be presented based on benchmarking current chiller plant operation and understanding the design and operating characteristics of each piece of equipment.

LEARNING OBJECTIVES:

1. Review the design and operating characteristics of each equipment component of a chilled water plant
2. Understand how the design characteristics and operation of each equipment component effects overall chiller plant efficiency
3. Learn how to evaluate strategies to optimize chilled water plant performance based on existing chilled water plant design and operation
4. Review actual operating data from central chilled water plants before and after implementation of optimization strategies

AUDIENCE: INTERMEDIATE CEU: 0.1

Healthcare Facilities Today

**R1.30 ■ Room: 330**

### Emerging Communications Technologies for Healthcare

*Presenter(s): Darren Vican, RCDD, OSP Vice President, Global Service Leader, RTKL Technology Design Studio*

This session will explore the potential for deploying Passive Optical Networking (PON) in the healthcare environment. This optical fiber technology has offered significant advantages in other market sectors including space savings, energy savings and overall network infrastructure savings. However, there are very unique challenges in deploying PON in the healthcare sector. This session will give an overview of how PON technology can be deployed in a Healthcare environment and will offer some potential solutions and examples of how to overcome the challenges that are present.

LEARNING OBJECTIVES:

1. Obtain a basic understanding of PON technology
2. Understand the unique challenges in deploying PON in a Healthcare environment
3. Learn about the significant installation and operational cost savings that may be realized

AUDIENCE: INTERMEDIATE CEU: 0.1



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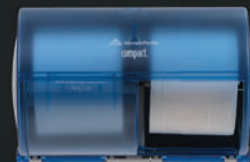
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Sustainable Standards

**R1.37 ■ Room: 337****Social Media's Role in Sustainability**

*Presenter(s): Peter Doo, FAIA, LEED AP, Partner, Doo Consulting, Lorraine Doo, MPA, LEED AP, Partner, Doo Consulting*  
Social media tools are changing as fast as we can learn about them and how to use them. The audiences we must impact with messages about sustainability are also bombarded with information - from the executives from whom we need financial decisions, to the employees who will use the technologies installed in the facilities. Yet social media is the method of communication. Understanding which tools are used most effectively with which audiences is going to be critical to for successful performance in every job sector.

LEARNING OBJECTIVES:

1. Identifying current social media tools used for communicating to different populations
2. Determine which metrics to use when evaluating the effectiveness of social media campaigns
3. How to educate leadership about the value of social media
4. Being able to build a social media campaign to create behavior change

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Healthcare Facilities Today, Maintenance and Operations

**R1.39 ■ Room: 339****Ensuring a Clean, Green & Healthy Indoor Environment**

*Presenter(s): Dan Wagner, Director of Facility Service Programs, ISSA*  
When most think about going green and sustainability, they do not immediately think of cleaning. Yet cleaning plays a crucial role in safeguarding the health, safety and well-being of facility occupants and in protecting the environment. By understanding the key characteristics of a quality, customer-focused and dependable cleaning service provider and demanding both effective management and the capability to deliver a comprehensive green cleaning program, facility management professionals can advance corporate sustainability initiatives and ensure a healthy indoor environment. Learn the principles to look for in order to ensure success and to protect health, the environment and facility assets.

LEARNING OBJECTIVES:

1. Understand the crucial connection between cleaning and sustainability
2. Recognize the necessary management and operational characteristics of a quality customer-focused cleaning organization
3. Identify the key elements of a comprehensive green cleaning program
4. Appreciate the role cleaning plays in protecting against potential public health threats

AUDIENCE: BEGINNER CEU: 0.1

Power: Generation and Reliability

**R1.41 ■ Room: 341****International Building Code and On-Site Power Generation**

*Presenter(s): Steve Stoyanac, Sales and Marketing Manager, Chillicothe Metal Company*  
The IBC (International Building Code) is a comprehensive building code that was released by the International Code Council in 2000. The primary focus of the IBC is structural integrity and fire prevention however, it also addresses on-site power generation equipment as well as other "non-structural" components. The need for emergency electrical power after an event is for life safety

systems that support building egress.

LEARNING OBJECTIVES:

1. Clarify the history of the International Building Code
2. Review how an inspector or building owner can know if a non-structural component (such as a stand-by power system) is seismically qualified in a credible, meaningful manner that meets and/or exceeds IBC requirements
3. State the risks of using non-structural components that are not seismically qualified as required by the code, or what the risk of using components that are not seismically qualified in a credible, meaningful manner

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

**R1.43 ■ Room: 343****The ADA: Red Flags that Trigger Complaints**

*Presenter(s): Mark J. Mazz, Architect, Mark J. Mazz, AIA*  
I am an architect and not an attorney. This presentation focuses on problem-solving and not legal interpretations. The ADA is not a building code. If the code inspector misses something, you may be off the hook with the local code, but you are still on the hook for an ADA violation. Additionally, the ADA has retroactive clauses that trigger remediation without a renovation project. This presentation will focus on common errors and issues that are targets for lawsuits. I will rely heavily on photos and other graphics. The audience is encouraged to ask questions throughout the presentation.

LEARNING OBJECTIVES:

1. Understand that when a space changes use, accessible concerns may appear
2. Where construction documents could be improved
3. Learn a few Red Flags that trigger complaints
4. How to reduce the risk of noncompliance

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations, Safety and Security

**R1.45 ■ Room: 345****NEC 2014: Changes that Affect Your Facility**

*Presenter(s): Robert Clukey, Instructor/Master Electrician, American Trainco*

Attend this session to learn about the recent changes to the 2014 National Electric Code. Hear how these changes will affect your facility. Finally review how to keep your employees safe around electricity.

LEARNING OBJECTIVES:

1. Understand the new changes to the 2014 National Electric Code
2. How do these changes affect your facility
3. How to keep your workers safe around electricity

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**R1.47 ■ Room: 347****Monitoring Based Commissioning using Visualization Techniques**

*Presenter(s): Ben Burgoyne, Mechanical Engineer, Ebert & Baumann Consulting Engineers, Inc.*

Unfortunately, less than one percent of all buildings are actually commissioned; continuous optimization is practically not existent. A new and innovative approach for the commissioning process is operation prognostics and operation diagnostics or monitoring based Cx. Operation diagnostics is based on enhanced visualization of BAS and monitoring data. The analysis includes schedules, set

points, the interaction of systems, as well as load characteristics and comfort criteria. Operation Prognostics uses the same approach for visually describing complex control and operation sequences. The advantage of this approach is that this information from the design phase is documented and available to the controls contractor, the commissioning agent, and eventually the operation personnel.

**LEARNING OBJECTIVES:**

1. Describe how Operating Costs can be reduced and Occupants Comfort can be increased by applying monitoring based Cx
2. Understand the innovative technique to visualize large amount of monitoring data (e.g. BAS data) using it for monitoring based Cx
3. Identify and reduce the gap between the actual and expected building performance through monitoring based Cx
4. Understand the benefit of visualizing large amount of monitoring data over a long time period

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**R1.49 ■ Room: 349**

**Facilities Management Young Professionals Panel**

*Presenter(s): Kevin Blanchard, Assistant Facility Manager/ COTR, National Air & Space Museum, Steven F. Udvar-Hazy Center, Smithsonian Institution,*

*Damon Gonzales, CFM, VP for Facilities Management, Davenport University,*

*John Lucien Grillo, Facilities Manager, Google*

The aging workforce and a changing required skill set leads to an unprecedented number of opportunities for young professionals in the facility management industry. No longer is the FM the “mop and bucket” person in an organization. Instead, an FM must be a person who thinks strategically about the goals and long-term plans of not only the FM department, but also the organization as a whole. The FM must be a person with business savvy, engineering expertise, knowledge of new technology, and polished communication and marketing skills. Increasingly, young people are filling these FM leadership positions. This panel session includes three young FMs who are making waves in leading organizations. The panelists will give young FMs an idea of what it takes to make it in the FM industry, as well as some insight into the key challenges facing young facility managers.

**LEARNING OBJECTIVES:**

1. Review how the ageing workforce is leading to an unprecedented number of opportunities for young professionals
2. Understand that an FM must be a person who thinks strategically about the goals and long-term plans for not only the FM department, but also the organization as a whole
3. List the skill sets necessary for a successful FM career

AUDIENCE: CEU: 0.1

**10:00-10:50 am**

Maintenance and Operations

**R2.18 ■ Room: 318**

**Fundamentals for Legionella Water Safety**

*Presenter(s): Frank Sidari, Vice President on Consulting, Special Pathogens Laboratory*

Taking a proactive approach is the key to minimizing the risk of Legionella in utility and building water distribution systems. This can be accomplished by applying simple and fundamental principles: understanding risk in your building, applying effective water



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treatment when needed, and completing validation of effectiveness by periodic monitoring of your system and Legionella. Executing these few simple steps can reduce facility liability associated with Legionella and demonstrate excellence in building operations.

**LEARNING OBJECTIVES:**

1. Know who is at risk for Legionnaires' disease in your facility
2. Identify key players who are responsible for water safety
3. Know what part of a water system could lead to Legionella exposure
4. Learn the fundamentals of Legionella water safety.

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Technology

**R2.24 ■ Room: 324**

**Maximize Your Facilities Management, Maintenance, and Energy Performance**

*Presenter(s): Dwayne Maxwell, Senior EAM Solutions Consultant, Infor*

This lively presentation will offer an overview of the best practices and solutions to empower efficient, effective, and profitable facilities management. Presented by an asset management industry expert and technologist, with over 20 years' experience, it will include worldwide case studies; and discuss multiple approaches to sustainability performance reporting, good capital planning, successful energy management, and much, much more.

**LEARNING OBJECTIVES:**

1. Specify the best practices in asset management
2. Review sustainability performance reporting, capital planning, and cost monitoring
3. Examples of creative uses of management dashboard, mobile solutions, and cloud-based asset management software deployment will be discussed
4. List evolving trends related to energy management and decreasing an organization's carbon footprint

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Greening an Existing Building, Systems

**R2.27 ■ Room: 327**

**LED Lighting: Less Secrets and More Surprises**

*Presenter(s): John Curran, President, LED Transformations, LLC* LEDs have become a commonly accepted light source in many lighting installations. From new wiring approaches to smartphone controls, solid-state lighting brings an exciting set of features, previously unavailable. By now, lighting professionals and facilities managers are aware that LED technology is different, but they may not understand the far-reaching implications of some of those differences. Success of lighting projects incorporating LED technology means understanding those requirements that often differ from traditional lighting practices. This presentation will provide attendees practical guidance in those differences; from rebates to installation and sensor issues, warranty concerns and even new methods of lighting control.

**LEARNING OBJECTIVES:**

1. How LEDs are enabling new lighting control architectures/ methods and what this implies to those responsible for facilities
2. Understanding how sensor selection and placement will become an important element of future lighting systems
3. Examples of some typical installation problems and how to avoid them when using LED-based luminaires
4. Knowledge of some unresolved testing standard issues that specifiers and facilities managers should be aware of when selecting LED technology for their facilities

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Sustainable Standards

**R2.37 ■ Room: 337**

**Be Water-Wise: Create and Maintain a Water-Efficient Landscape**

*Presenter(s): Scott C. Scarfone, ASLA, Principal and Founder, Oasis Design Group*

Water-efficient landscape design focus on working with nature and natural forces, such as topography, sun/shade patterns, and natural rainfall, to create an aesthetically pleasing landscape that requires less water from the local supply. Becoming ever more imperative as water resources dwindle is the need to minimize watering landscapes. To do this requires careful observation, planning, and common sense. The session presents site analysis, design, and management considerations necessary to create a water-wise landscape at your facility.

**LEARNING OBJECTIVES:**

1. Learn about water efficient landscape design and management
2. Gain insight on site analysis, design, and management considerations necessary to create a water-wise landscape
3. Understand basic horticultural principles that can aid in irrigation reduction
4. Understand overall landscape design strategies that can minimize the need for water application

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

**R2.39 ■ Room: 339**

**Full-Depth Reclamation (FDR)**

*Presenter(s): Tim McConnell, Pavements Engineer, Portland Cement Association*

Deteriorating asphalt pavement is a constant problem for facility managers. A green process called full-depth reclamation (FDR) can help ease the burden of repair and reconstruction. When compared to traditional reconstruction methods, FDR will save both time and money. This session will educate attendees on this eco-friendly process that will prove to be a win-win for you and our planet.

**LEARNING OBJECTIVES:**

1. Participants will develop an in-depth understanding of the Full Depth Reclamation (FDR) Process and how it can improve your pavement structure while providing a cost effective, green and sustainable solution for pavement reconstruction
2. Learn how your existing previously capitalized materials can be recycled and improved on site without the added expense of removing and replacing them with newly purchased and transported natural resources
3. Learn how the FDR process can save both time and money while being less disruptive to your ongoing operations

AUDIENCE: BEGINNER CEU: 0.1



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Power: Generation and Reliability

**R2.41 ■ Room: 341**

### Solar Grid Tied Micro Grid Inverters

*Presenter(s): Arnold Kravitz, Vice President Commercial Products, Technology Research Corporation*

A new paradigm in solar grid tied micro grid inverters reduces the installation burden and maintenance costs on the owners. Grid tied Micro grids are defined and their components are discussed. Methods of calculating the investment breakeven are presented along with curves that allow for the quick determination based on power generation costs (investment), energy value (electric rates), labor rates and component costs are provided. An example of how to determine the investment payback for various configurations is presented.

LEARNING OBJECTIVES:

1. Review how grid tied micro grids are defined
2. Define methods of calculating the investment breakeven
3. Clarify how to determine the investment payback for various configurations

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

**R2.43 ■ Room: 343**

### Implementing NFPA 70E for Arc Flash Safety

*Presenter(s): Daryn Lewellyn, President/Founder, Lewellyn Technology*

The practical application of NFPA 70E to real-world electrical safety programs and OSHA compliance can be confusing and at times overwhelming. In this presentation, Lewellyn Technology Founder/CEO Daryn Lewellyn equips attendees with the knowledge needed to keep their employees safe from electrical hazards. The presentation begins with an explanation of the link between NFPA 70E and OSHA. In our experience, many safety managers ignore or postpone consideration of 70E because it is not expressly an OSHA requirement. Using quotes from OSHA executive officials and anecdotal evidence, we show why 70E is the consensus standard for electrical safety in the workplace, and why it is the best option for OSHA compliance. This presentation is ideal for safety managers looking for more information on NFPA 70E.

LEARNING OBJECTIVES:

1. Learn how OSHA and NFPA 70E work together
2. Learn what changes when implementing NFPA 70E
3. Learn the steps to completing an Arc Flash Hazard Analysis
4. Learn why the NFPA 70E tables can't direct PPE usage

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**R2.45 ■ Room: 345**

### CM Delivery Methods

*Presenter(s): Keith Vandenbussche, FMA, Senior Construction Project Manager, Fishbeck, Thompson, Carr, & Huber*

Today's building construction brings a variety of options for construction management. Keith brings his 30 years of experience in construction to help attendee's understand options available today and recommended selections for different projects. This presentation will examine eight different delivery methods for construction management examining the advantages, disadvantages, structure and best practices for different projects.

LEARNING OBJECTIVES:

1. Understand construction management delivery methods
2. State tools used to select construction management
3. Discuss industry trends

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**R2.47 ■ Room: 347**

### Advice to New FM's : Apply the 11 Core Competencies of Facility Managers

*Presenter(s): Larry Morgan, CFM, SFP, Head of Operational Excellence and Sustainability Initiatives for North and Latin America, SAP Global Facilities Management, Americas*

Today's extraordinary facilities leaders combine and apply a number of skills sets that create amazing value to their current and future roles in any FM organization. In this session we will explore the 11 core FM competencies produced by the International Facilities Managers Association (IFMA): communication; emergency preparedness and business continuity; environmental stewardship and sustainability; finance and business; human factors; leadership and strategy; operations and maintenance; project management; quality; real estate and property management; and technology. We will also address some tips and tricks used by a leading global facilities subject matter expert and international instructor.

LEARNING OBJECTIVES:

1. State the 11 core FM competencies
2. Understand the importance of all 11 core FM competencies
3. Review how to apply those core competencies to your job
4. List why these core competencies are so important to the facilities management industry

AUDIENCE: BEGINNER CEU: 0.1

2:10-3:00 pm

Energy Efficiency, Upgrades and Utilities

**R3.24 ■ Room: 324**

### Retro-Commissioning (RCx)

*Presenter(s): Dan Brown, Senior Associate, The Stone House Group,*

*Darren Cassel, Principal, The Stone House Group*

Retro-Commissioning (RCx) improves existing building's O&M procedures that enhance systems performance and can lead to energy cost reductions by 10-20 percent. Performing RCx also asks the "how" and "why" of system configurations and leads to even greater gains than just cost savings. Through the assessment of systems and development of preventative maintenance plans, the process has shown to increase responsible and general knowledge of facilities department operations and procedures. Cases to be highlighted include Stuart Country Day School, a New Jersey school that saw a 17 percent reduction in cost, in addition to St. Joseph's University in Philadelphia and the Philadelphia Zoo.

LEARNING OBJECTIVES:

1. Learn the difference between process versus technical commissioning, as a precursor to understanding the importance of retro-commissioning as a down-the-road "doctor's visit"
2. Learn how retro-commissioning is able to enhance overall building performance and why it is your most cost-effective strategy to building a better bottom line
3. Learn identified systems and/or buildings that require retro-commissioning
4. Learn how the process is as much a business strategy as it is energy and can benefit the building owner in a number of ways

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Sustainable Standards, Technology  
**R3.39 ■ Room: 339**

### Geothermal Heat Pump Technology: The Energy Under our Feet

*Presenter(s): Jack DiEnna, Executive Director, Geothermal National & International Initiative*

Geothermal Heat Pump systems (GHPs), a technology that uses the earth's thermal properties, in conjunction with electricity, to provide space conditioning and water heating to facilities and one that the US Environmental Protection Agency (EPA) has stated reduces Greenhouse Gas emissions by up to 40 percent over conventional HVAC systems, can accomplish these goals. This session will be discussing what is currently happening both nationally and internationally, the benefits and what will it mean to you.

#### LEARNING OBJECTIVES:

1. Learn how it geothermal technology works
2. What are the benefits of geothermal heat pump systems
3. Analyze ways that GHP technology be implemented in facilities

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

**R3.43 ■ Room: 343**

### The 17 Mistakes Made in Emergency Plans, How to Avoid and Correct Them

*Presenter(s): Bo Mitchell, President and CEO, 911 Consulting*  
 Emergency planning for your organization is subject to many federal, state and local laws, regulations and standards. Most, which are tasked with creating and maintaining emergency plans, are confused or overwhelmed regarding those standards. Learn what laws, regulations and standards apply to your emergency planning, training and exercises. Learn what a lawsuit will do to you if you don't create a plan. Learn the 17 mistakes organizations make in creating their plans today.

#### LEARNING OBJECTIVES:

1. Review the laws, regulations and standards that control emergency plans
2. Recognize how a lawsuit affects you and your organization
3. Verify what should be the overriding attitude for managers in re-evaluating current planning
4. Name how your own employees and clients hurt your response to a disaster. What to expect by way of help from local municipalities

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**R3.45 ■ Room: 345**

### Maintenance Reliability in Natural Disasters and Emergencies

*Presenter(s): Richard Sovic, Vice President of Engineering and Project Management, ThermaSIP, Inc.*

Maintenance managers are faced with difficult situations when natural disasters strike or during critical facility equipment failures. This session addresses how to best prepare for these situations in existing facilities for business continuity. For new buildings, advanced techniques to design reliability into the facilities from case studies will be shared.

#### LEARNING OBJECTIVES:

1. Learn the benefits of a proactive approach for maintaining reliability in natural disasters and during critical equipment failures
2. Learn the five step proactive process every maintenance manager should go through to maximize facility availability and business continuity for potential existing facility emergencies

3. For new buildings and facilities learn advanced techniques for design for world class performance for facility availability and business continuity during emergencies

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**R3.47 ■ Room: 347**

### Making All Your Dreams Come True (by Changing Your Metrics)

*Presenter(s): Robin Camarote, Founder and CEO, Craft and Atlas LLC*

The facility performance metrics commonly used today (condition, O&M spend, space utilization, etc.) are too blunt to capture the critical nuances of what is really going on with our assets. The suite of measures commonly used today cause managers to miss important insights on cost reduction opportunities, risk mitigation, and occupant satisfaction. My presentation covers the art of the possible in future performance measures, how to creatively combine your existing data with other sources, and how to best tell the story of what is happening to your assets. We all share a goal in knowing as much as possible about our assets and anticipating future changes. Innovative approaches in performance measures can help delivery these insights.

#### LEARNING OBJECTIVES:

1. Learn how to expand facility performance measures beyond condition change and average O&M spend
2. Combine existing data with new sources
3. Interpret changes and integrating findings into your asset management program
4. Strategically communicate outcomes, how to best tell your story

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations, Technology

**R3.49 ■ Room: 349**

### Integrating Energy Data into Building Management Systems to Increase Efficiency and Cut Cost

*Presenter(s): Jack Group, Eastern Regional Manager, E-Mon, LLC*

This session will provide a road map for achieving increased energy savings and operational efficiency through submetering. These easily installed front-end data acquisition devices provide an inexpensive way to monitor and communicate energy data from every area of the facility, allowing integration of HVAC, lighting and other systems into the Building Management System. Predictive maintenance, energy efficiency studies and cost reduction strategies utilizing accurate, real-time performance feedback from pumps, compressors, chillers and more are just a few of the bottom-line impacting ways that metering can help building operators fine-tune their facility's performance envelope and cut operating costs.

#### LEARNING OBJECTIVES:

1. Review basic submetering terminology, equipment, installation, operation, applications and capabilities
2. Demonstrate how submeter-based energy data acquisition, analysis and presentment tools save energy and cut cost
3. Attendees will achieve an understanding of how submeters can be integrated with HVAC, lighting, utility meters and more
4. Overview leading building automation systems (BAS) and how metering communications are achieved

AUDIENCE: INTERMEDIATE CEU: 0.1

3:10-4:00 pm

Energy Efficiency, Upgrades and Utilities

**R4.37 ■ Room: 337****The Next Generation of Energy Cost Reduction: From Efficiency to Productivity***Presenter(s): John Zabilowicz, COO, ZF Energy Department*

Energy cost reduction from an efficiency POV limits your savings to a percent of expenditures, while energy productivity initiatives allow you to not only save from efficiency but also exploit the entire energy supply chain for a greener bottom line. In this talk, we will detail how a new energy management model allows facilities to evolve from efficiency to productivity to reduce costs, hedge against price increases, and benefit from marketplace fluctuations, while increasing organizational profits without new capital expenditures. The proposed model employs multiple financial and technology strategies including participation in energy markets, co/tri-generation, and sophisticated generating assets.

**LEARNING OBJECTIVES:**

1. A basic understanding how electricity and gas markets work
2. How to buy wholesale energy without wholesale risk
3. How to create five sigma+ electrical reliability
4. How to manage onsite generation technology

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**R4.39 ■ Room: 339****Internal Insulation and your HVAC System***Presenter(s): James Choquette, Vice President, Duct and Vent Cleaning of America*

This presentation will address the difference between open cell and closed cell insulation. It will discuss the indoor air quality effects and the engineering differences between the two types of insulation.

**LEARNING OBJECTIVES:**

1. Identify potential issues with internal insulation
2. Understand the difference between open and closed cell insulation
3. Understand the options that a facilities decision maker has pertaining to interior insulation
4. Understand the reasons that internal insulation is specified into a HVAC System

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement, Maintenance and Operations, Safety and Security, Sustainable Standards, Systems, Technology

**R4.45 ■ Room: 345****Stump the Experts**

*Presenter(s): Michael B. Cowley, CPMM President, CE Maintenance Solutions, Paul Head, II Manager, Ernst & Young Construction Real Estate Advisory Services, Larry Morgan, CFM, SFP Head of Operational Excellence and Sustainability Initiatives for North and Latin America, SAP Global Facilities Management, Americas*

Join NFMT experts as they answer your questions. This fun, interactive session will allow you to ask questions you don't know who could answer. Come prepared to try and "stump the experts."

**LEARNING OBJECTIVES:**

AUDIENCE: ADVANCED CEU: 0.1

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**TUESDAY**

- TS.16 FMXcellence: Elevating the Role of Facilities
- T1.18 Three Simple Lessons to Achieve Excellence in Maintenance Planning and Scheduling
- T1.24 Energy Management in Existing Buildings
- T2.18 Employment Law Issues Forum
- T2.24 ASHRAE Standard 90.1 Energy Standard Overview and Applications
- T3.18 3rd Party Maintenance Outsourcing: Preparing for the Competition
- T3.24 Real-Time Energy Management

**WEDNESDAY**

- W1.24 The Hidden Value of Commissioning
- W1.45 Analytics Driven Asset Reliability & Maintenance Management
- W2.24 Optimizing Energy Strategies with Load Response and Energy Efficiency
- W2.45 The National Park Service and the Facility Condition Index: A Case Study
- W3.39 Sustainability in the Federal Government
- W3.43 Significant Changes to the 2012 International Fire Code
- W4.39 Water Conservation
- W4.43 Fire Alarm/Suppression Systems: Common Problems and Practical Solutions

**THURSDAY**

- RG.16 Complaints: How to Deal with the Negativity
- R1.24 Advanced Electric Submetering for Retrofit and New Construction
- R1.43 The ADA: Red Flags that Trigger Complaints
- R2.24 Maximize Your Facilities Management, Maintenance, and Energy Performance
- R2.43 Implementing NFPA 70E for Arc Flash Safety
- R3.39 Geothermal Heat Pump Technology: The Energy Under our Feet
- R3.45 Maintenance Reliability in Natural Disasters and Emergencies
- R4.39 Internal Insulation and your HVAC System
- R4.45 Stump the Experts

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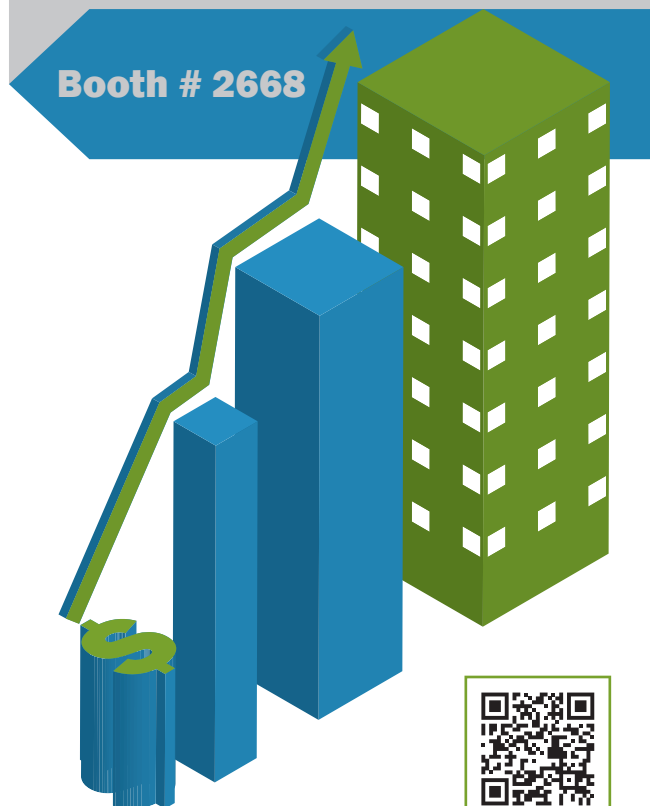


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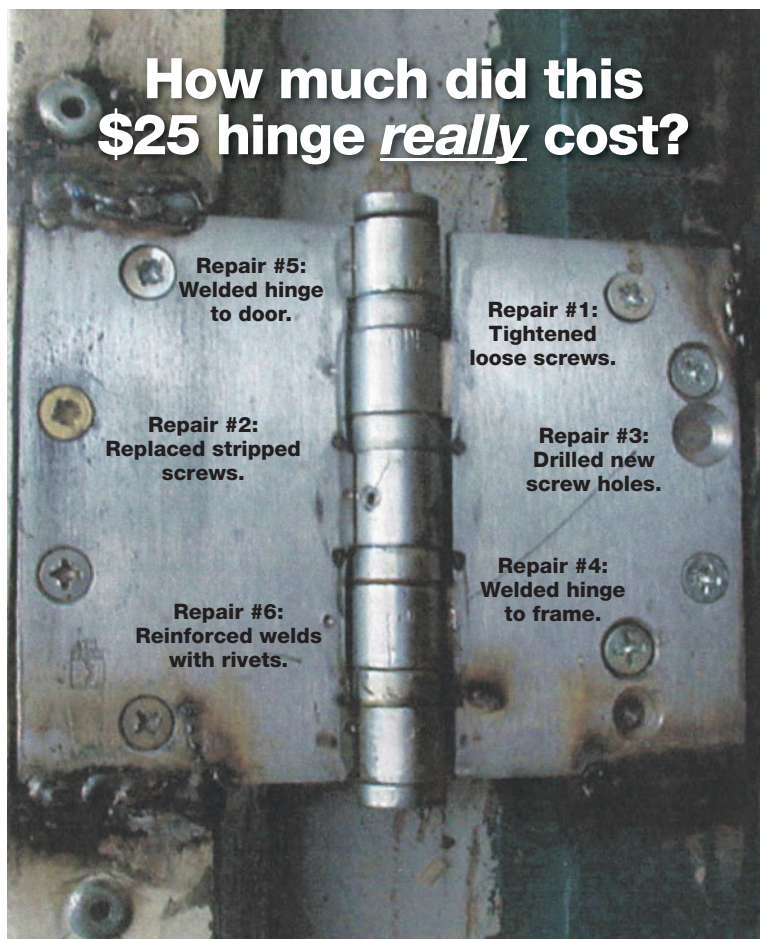
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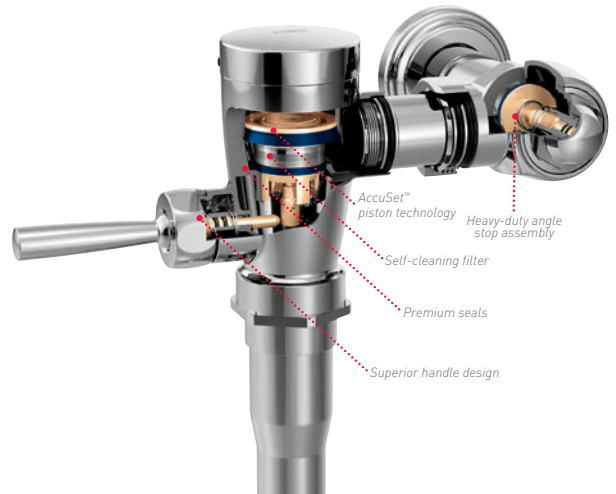
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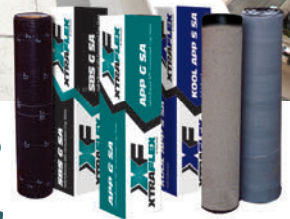
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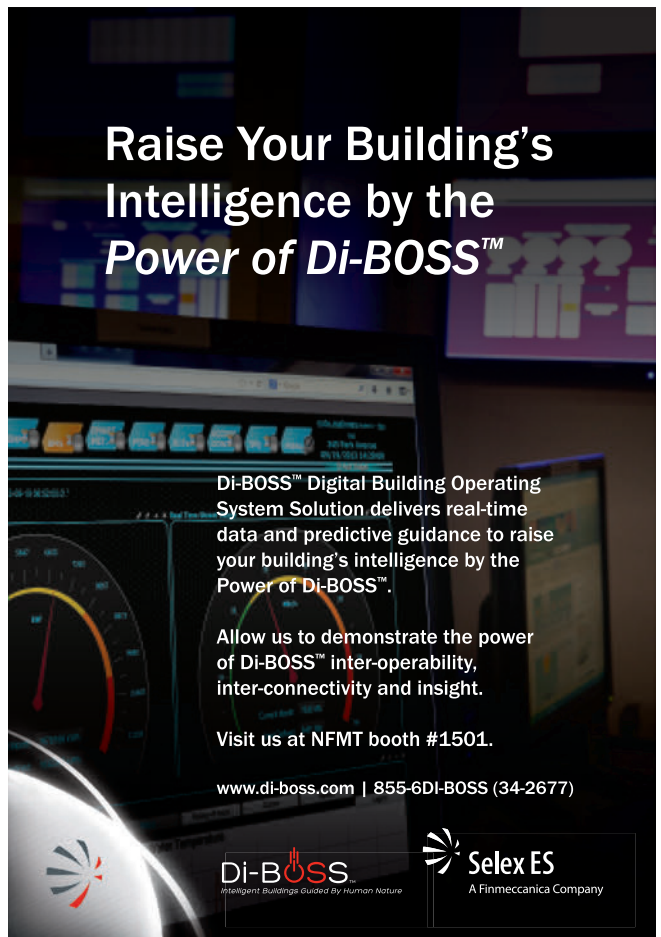
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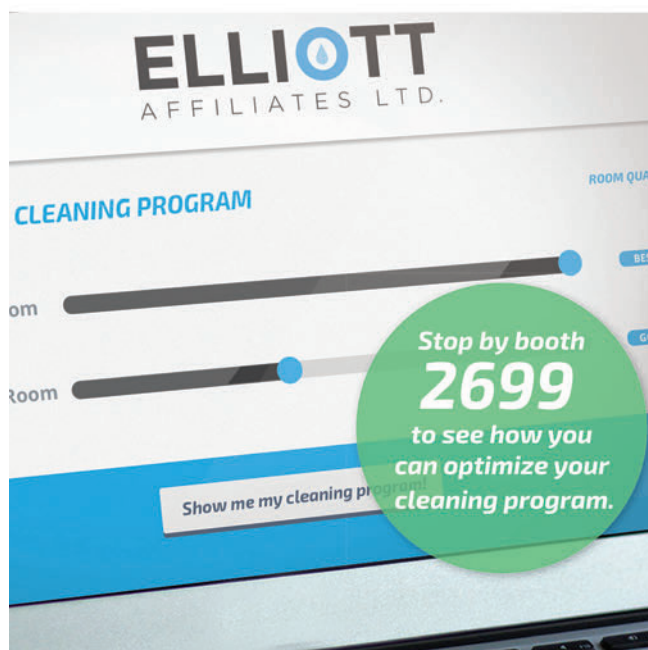
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Curtis Engine & Equipment Inc.	2049
DC Group Inc.	2349
DMAR Environmental LLC	820
EnerSys	1943
■ Fidelity Power Systems & Mechanical Services	1100
FuelTec Systems	1014
■ Gen-Tracker by Generator Solutions Inc.	1016
■ GFS Corporation	1015
■ Kelly Generator & Equipment Inc.	909
■ OMNIMETRIX LLC	1005
■ Pritchard Brown LLC	904
■ Reverso Pumps Inc.	921
Russelectric Inc.	2507
■ SENS (Stored Energy Systems LLC)	1004
Trystar	2124

## BENCHMARKING

Condition Monitoring Inc.	2283
Elliott Affiliates Ltd.	801
MD/DC APPA	723
Quadlogic Controls Corp.	2549
RCx Building Diagnostics	2668
SOMAX Inc.	2287
Titan LED	2388
VFA Inc.	2344

## BIRD/PEST CONTROL

Bell Bird Control	2245
Copesan - Specialists In Pest Solutions	1900
Rentokil/Ambius North America	2551
Terminix Commercial	2351

## BOILERS/WATER HEATERS

AUTOBrine / The Cope Company Salt	2685
Bond Water Technologies Inc.	2450
Ferguson Enterprises Inc.	1220
Fluid Dynamics NA LLC	2693
Houghton Chemical Corp.	2660
Northeastern Supply Inc.	1519
Spirax Sarco Inc.	1809

## BUILDING AUTOMATION/ SYSTEM INTEGRATION

Acuity Brands	2407
Advanced Power Control Inc.	1116
American Time	2552
Autani Corp.	2586
AUTOBrine / The Cope Company Salt	2685
Automated Logic Corp.	2413
BACnet International	2601
Cadapult FM	1631
Commissioning Agents Inc.	2040
Continental Control Systems LLC	2677
CopperTree Analytics	2579
■ Critical Power Group	1002
Daintree Networks	2141
DENT Instruments Inc.	1834
Distech Controls Inc.	2469
E-Mon	2584
Emergi-Lite	1101
Energy Systems Technologies	1117
EnTouch Controls	2573
FuelTec Systems	1014
Houghton Chemical Corp.	2660
IDEAL Industries Inc.	2042
Kanepi Wireless Controls	2580
KMC Controls Inc.	2481
Lencore Acoustics Corp.	2247
LowV Systems	2419
M3T Corporation	2600
MAMAC Systems Inc.	1929
NexLight Lighting Controls	2448
ONICON Inc.	2684
Plexaire LLC	1914
Quadlogic Controls Corp.	2549
RECURRENT	2375
Reliable Controls Corp. USA	2217
Sapling Company Inc.	1509
Selex ES	1501
Trane	1907
Viconics Technologies Inc.	2440
WaterSignal	2244

## BUILDING RESTORATION

Andersen Windows Inc.	2214
Apogee Enterprises Inc.	2536
Applied Comfort Products Inc.	1224
AQUIS	2363
ARMM Associates Inc.	2145
Ascension	2654
Belfor Property Restoration	2444

Bell Bird Control	2245
Blue Team Restoration	1937
COIT Cleaning & Restoration Services Inc.	2155
Concrete Jack	2262
Conley Group	2644
Door Guard Inc.	1719
Eastern Industrial Services Inc.	2361
FLIR Systems Inc.	2316
GSM Roofing	2548
Industrial Caulk & Seal Inc.	2367
Inland Coatings Corp.	2143
Interior Maintenance Company Inc.	2246
JetRock Inc.	2652
N-Hance Wood Renewal	2163
PBI Restoration Resources	2335
Progressive Materials LLC	2249
Quest Construction Products	2605
Royal Plus Disaster Kleenup Inc.	2242
Ruston Paving Co. Inc.	2446
SaniGLAZE International LLC	2554
SELECT Hinges/SELECT Products Ltd.	2435
SERVPRO	2337
signmojo.com	715
Square Scrub	1400
Sto Corp.	1925
StructureTec Group	2348
Stuart Dean Co. Inc.	1923
Technical Assurance Inc.	2261
Tremco Roofing and Building Maintenance	2391
Unlimited Restoration Inc.	2043
Watts Restoration Inc.	2540

## BUILDING SERVICE CONTRACTING

Able Services	2146
ACP Facilities Services	2453
Capitol Asset Recovery	2569
Cleaning Services Group	2259
Complete Landscaping Service	2128
Eastern Janitorial Services	2664
Extrutech Plastics Inc.	2646
Fire & Life Safety America Inc.	2347
IPAX-Atlantic LLC	2472
ISSA - the Worldwide Cleaning Industry Association	720
LESCO Restorations Inc.	2673
Pro-Pave Inc.	2463
SERVPRO	2337
Square Scrub	1400
Tennant Co.	2329

## CARPET/CARPET FIBER/CARPET CARE

A-1 Flood Tech	2142
ACP Facilities Services	2453
BRAVO! Building Services Inc.	1928
Chem-Dry	2241
Cleaning Services Group	2259
Corporate Care	2578
Intellibot Robotics LLC	1500
IPAX-Atlantic LLC	2472
Mats Inc.	1628
MilliCare By EBC Carpet Services	1915
NaceCare Solutions	2159
Procter & Gamble Professional	1108
Sherwin-Williams	1511



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Square Scrub .....	1400
Tennant Co. ....	2329
Whittaker Co., RE .....	1618

## CEILING

Acoustical Solutions Inc. ....	1635
Alliance Shading & Controls .....	2537
Extrutech Plastics Inc. ....	2646
Parkland Plastics .....	1722

## CHEMICALS: MAINTENANCE/ CLEANING

Betco Corp. ....	1802
Bond Water Technologies Inc. ....	2450
ChemTreat Inc. ....	2053
Cleaning Services Group .....	2259
CleanRiver .....	2265
DIC Imaging Products USA LLC .....	1731
Dreumex USA .....	1122
Green Seal Inc. ....	2486
Guardian CSC .....	2683
IPAX-Atlantic LLC .....	2472
ISSA - the Worldwide Cleaning Industry Association .....	720
NaceCare Solutions .....	2159
Procter & Gamble Professional .....	1108
San Jamar .....	1107
Schultz/NA/Dr. Schutz .....	1915
Spectra254 .....	717
Ultra-Chem Inc. ....	2591
United Soybean Board .....	2598
West Sanitation Services Inc. ....	2694
Xpedx .....	1525

## COMMUNICATIONS TECHNOLOGY

American Time .....	2552
archSCAN LLC .....	2658
Capitol Asset Recovery .....	2569
Connectrac .....	1709
FreeAvez LLC (1) .....	2518
Lencore Acoustics Corp. ....	2247
RadioBoss 2-Way Radios .....	2353
Sensity Systems Inc. ....	2120
Wizard Software Solutions .....	1822
Y-Not Sanitize LLC .....	2474

## CONSTRUCTION SUPPORT SERVICES

AccuScan .....	1600
Applied Comfort Products Inc. ....	1224
archSCAN LLC .....	2658
Baltimore Chapter of CSI .....	806
Bartlett Tree Experts .....	2052
Chamberlain Contractors Inc. ....	2144
Classic Displays .....	2678
CP Rankin Inc. - Roof Management & Contracting .....	2465
EMG .....	1123
Engineering Consulting Service (ECS) .....	2153
Kitchens To Go/Carlin Manufacturing .....	1629
Markon Inc. ....	2018
Megger .....	1114
NRB (USA) Inc. ....	1124

Precision Concrete Cutting .....	2037
Ruston Paving Co. Inc. ....	2446
Sodexo .....	1944
Stuart Dean Co. Inc. ....	1923
Wilmot Modular Structures Inc. ....	1815

## CONSULTING

AKF Group LLC .....	1935
Alarm Tech Solutions LLC .....	2029
archSCAN LLC .....	2658
ARMM Associates Inc. ....	2145
Baltimore Chapter of CSI .....	806
Bell Bird Control .....	2245
Bollinger Energy Corporation .....	2560
Building Technology Associates Inc. (BTA) .....	2674
CE Maintenance Solutions LLC .....	1946
ChemTreat Inc. ....	2053
Commissioning Agents Inc. ....	2040
Condition Monitoring Inc. ....	2283
Conley Group .....	2644
Elliott Affiliates Ltd. ....	801
ESC Services Inc. ....	1835
Facility Engineering Associates (FEA) .....	2459
Hunt Consulting .....	2299
I-Star Energy Solutions .....	2035
ISES Corporation .....	2643
JBA 360 .....	2558
Kitchens To Go/Carlin Manufacturing .....	1629
Lewellyn Technology .....	2334
NTT Training .....	2048
PBI Restoration Resources .....	2335
Phigenics LLC .....	2562
Sound Management Group LLC .....	1102
Special Pathogens Laboratory .....	2546
StructureTec Group .....	2348
SuperGreen Solutions .....	2686
VDA (Van Deusen & Associates) - Elevator Consultants .....	2140
VFA Inc. ....	2344

## CONTROL SYSTEMS

Acuity Brands .....	2407
Advanced Power Control Inc. ....	1116
American Time .....	2552
Autani Corp. ....	2586
C.N. Robinson Lighting Supply Co. ....	1716
Complete Building Services Inc. ....	2365
Cree Inc. ....	2425
Daintree Networks .....	2141
Eaton Corp. ....	2412
FST21 Inc. ....	2378
Fulham Co. Inc. ....	2589
Kanepi Wireless Controls .....	2580
KMC Controls Inc. ....	2481
Macurco .....	1115
MAMAC Systems Inc. ....	1929
NexLight Lighting Controls .....	2448
Rain Bird Corp. ....	1934
Russelectric Inc. ....	2507
Sapling Company Inc. ....	1509
Sensity Systems Inc. ....	2120
SOMAX Inc. ....	2287
Viconics Technologies Inc. ....	2440

## DETECTION/DIAGNOSTIC EQUIPMENT

Crowcon Detection Instruments Ltd. ....	1515
Fike .....	1614
FLIR Systems Inc. ....	2316
Fluke Corp. ....	2618
General Pipe Cleaners/ General Wire Spring Co. ....	1801
GrayWolf Sensing Solutions .....	1109
Macurco .....	1115
Megger .....	1114
Phigenics LLC .....	2562
RIDGID .....	2611
Test Products International Inc. ....	1505
ZTS Inc. ....	2437

## DOCUMENT SCANNING

archSCAN LLC .....	2658
JBA 360 .....	2558
SERVPRO .....	2337

## DOORS/DOOR HARDWARE

Acoustical Solutions Inc. ....	1635
Andersen Windows Inc. ....	2214
Apogee Enterprises Inc. ....	2536
ASI - Marathon Doors .....	2535
ASSA ABLOY Americas .....	2007
Caplan Bros. Glass .....	2647
CyberLock Inc. ....	2634
Detex Corp. ....	2439
DORMA .....	2534
Extrutech Plastics Inc. ....	2646
Hager Companies .....	2638
Lockmasters Inc. ....	2253
LowW Systems .....	2419
M3T Corporation .....	2600
Marks USA .....	2607
Marvin Windows and Doors .....	2539
NXTWALL .....	2630
Overy Door Co. ....	2629
Pimlico Lock & Hardware Supply .....	2636
Precision Doors & Hardware LLC .....	2639
PS Doors .....	2635
SDC (Security Door Controls) .....	2628
SELECT Hinges/SELECT Products Ltd. ....	2435
Stanley Access Technologies .....	2429
Total Security Solutions .....	2538
TownSteel Inc. ....	1901

## DRAIN CLEANING

Electric Eel Mfg. Co. Inc. ....	804
General Pipe Cleaners/ General Wire Spring Co. ....	1801
Plexaire LLC .....	1914
RIDGID .....	2611
SureSeal MFG .....	814
Ultra-Chem Inc. ....	2591

## ELECTRICAL DISTRIBUTION

American Dryer .....	1604
Benjamin Electric Co. ....	2379
Capital Tristate .....	2135

DC Group Inc. ....	2349
Eaton Corp. ....	2412
FreeAvez LLC (1) .....	2518
Lewellyn Technology .....	2334
Rexel .....	2500
Samsung Electronics America .....	2385
Truland Service Corp. ....	1953
Trystar .....	2124
Veolia Environmental Services .....	1637

## ELEVATORS/ ESCALATORS

Ascension .....	2654
Door Guard Inc. ....	1719
Schindler Elevator Corp. ....	1517
SKF Maintenance Products .....	1922
VDA (Van Deusen & Associates) - Elevator Consultants .....	2140
Vertical Express .....	1627

## ENERGY - RENEWABLE

Airius LLC .....	1623
Bollinger Energy Corporation .....	2560
EnerSys .....	1943
Harris Lighting .....	1739
New England Energy Management (NEEM) .....	2663
Palmer Asphalt Co. ....	2650
Pfister Energy Inc. ....	2165
PPL EnergyPlus .....	2260
REC Solar Inc. ....	2475
SolarCity .....	2273
Standard Solar Inc. ....	2568
SuperGreen Solutions .....	2686
Taylor-Dunn Mfg. ....	2057
Washington Gas Energy Services .....	2449

## ENERGY MANAGEMENT SYSTEMS

Advanced Power Control Inc. ....	1116
American Energy Corp. (AEC) .....	2585
Automated Logic Corp. ....	2413
BACnet International .....	2601
Benjamin Electric Co. ....	2379
Capital Tristate .....	2135
Converge Inc. ....	2487
Continental Control Systems LLC .....	2677
CopperTree Analytics .....	2579
Daintree Networks .....	2141
Distech Controls Inc. ....	2469
DTZ .....	2129
E-Mon .....	2584
Energy Misers .....	2466
Energy Systems Technologies .....	1117
EnerNOC .....	2479
EnTouch Controls .....	2573
Envirotrols Group Inc. ....	2239
Harris Lighting .....	1739
IDEAL Industries Inc. ....	2042
Infor .....	2553
Integrus Energy Services .....	2661
Intermatic Inc. ....	2662
Kanepi Wireless Controls .....	2580
KMC Controls Inc. ....	2481
Leviton Manufacturing Co. Inc. ....	1617

Lewellyn Technology.....	2334
New England Energy Management (NEEM).....	2663
OSRAM SYLVANIA.....	1828
PTM Manufacturing LLC.....	2359
Quadlogic Controls Corp.....	2549
REC Solar Inc.....	2475
RECURRENT.....	2375
Reliable Controls Corp. USA.....	2217
Ruselectric Inc.....	2507
SATEC Inc.....	1734
Selex ES.....	1501
Sensity Systems Inc.....	2120
SolarCity.....	2273
Spirax Sarco Inc.....	1809
U.S. Green Building Council Maryland Chapter.....	2389
Universal Lighting Technologies Inc.....	1714
WaterSignal.....	2244

## ENERGY MONITORING

Alban CAT Power Systems.....	2513
American Energy Corp. (AEC).....	2585
American Energy Services.....	1945
Automated Logic Corp.....	2413
Belimo Americas.....	2627
Benjamin Electric Co.....	2379
Converge Inc.....	2487
Continental Control Systems LLC.....	2677
CopperTree Analytics.....	2579
Daintree Networks.....	2141
DENT Instruments Inc.....	1834
E-Mon.....	2584
Energy Misers.....	2466
EnerNOC.....	2479
EnTouch Controls.....	2573
I-Star Energy Solutions.....	2035
IDEAL Industries Inc.....	2042
Leviton Manufacturing Co. Inc.....	1617
MAMAC Systems Inc.....	1929
New England Energy Management (NEEM).....	2663
■ OMNIMETRIX LLC.....	1005
ONICON Inc.....	2684
Onset HOB0 Data Loggers.....	2679
Quadlogic Controls Corp.....	2549
RCx Building Diagnostics.....	2668
REC Solar Inc.....	2475
RECURRENT.....	2375
Reliable Controls Corp. USA.....	2217
SATEC Inc.....	1734
Spirax Sarco Inc.....	1809

## ENERGY PRODUCTS AND SERVICES

3M Window Films c/o ATD Solar & Security.....	2046
AcryLabs.....	2360
Airius LLC.....	1623
Alban CAT Power Systems.....	2513
America's Green Line.....	2387
American Energy Corp. (AEC).....	2585
Atlantic Sun Control Inc.....	2645
BASF Corporation.....	1818
Belimo Americas.....	2627
Benjamin Electric Co.....	2379
Big Ass Fans.....	2525
Bollinger Energy Corporation.....	2560
Building Operator Certification.....	2489
Capital Tristate.....	2135
■ Catalytic Combustion Corp.....	924
CHB Industries Inc.....	1827
■ Chillicothe Metal Company Inc.....	1008
Converge Inc.....	2487

Continental Control Systems LLC.....	2677
DC Group Inc.....	2349
Duct & Vent Cleaning of America Inc.....	2346
E-Mon.....	2584
EMG.....	1123
Energy Misers.....	2466
Energy Systems Technologies.....	1117
EnerNOC.....	2479
EnerSys.....	1943
EnTouch Controls.....	2573
■ Gen-Tracker by Generator Solutions Inc.....	1016
Graybar Electric Company Inc.....	2467
I-Star Energy Solutions.....	2035
Inland Coatings Corp.....	2143
Integrus Energy Services.....	2661
Interior Maintenance Company Inc.....	2246
Intermatic Inc.....	2662
LED Living Technology.....	2670
LED Waves LLC.....	2301
LEDdynamics Inc.....	2687
Leviton Manufacturing Co. Inc.....	1617
Lunera Lighting.....	2473
MaxLite.....	2586
Nelbud Services Group Inc.....	1947
New England Energy Management (NEEM).....	2663
NexLight Lighting Controls.....	2448
■ OMNIMETRIX LLC.....	1005
OSRAM SYLVANIA.....	1828
Pepco & Delmarva Power C&I Energy Savings Program.....	2161
Pfister Energy Inc.....	2165
Philips Lighting North America.....	2319
PPL EnergyPlus.....	2260
RCx Building Diagnostics.....	2668
REC Solar Inc.....	2475
RECURRENT.....	2375
Rexel.....	2500
Samsung Electronics America.....	2385
SATEC Inc.....	1734
SEMCO LLC.....	1104
■ SENS (Stored Energy Systems LLC).....	1004
Sigma Luminous LLC.....	2671
SolarCity.....	2273
Specialty Lighting Group - Energy Services.....	2250
Standard Solar Inc.....	2568
Steril-Aire Inc.....	1808
SuperGreen Solutions.....	2686
TerraLUX Corp.....	2478
Titan LED.....	2388
Tremco Roofing and Building Maintenance.....	2391
Washington Gas Energy Services.....	2449
ZOO Fans Inc.....	2136

## ENVIRONMENTAL SERVICES/PRODUCTS/IAQ

ABUS Lock Co.....	2625
AirPac Inc.....	2026
America's Green Line.....	2387
Applied Building Technologies Inc.....	2134
Automated Logic Corp.....	2413
Big Ass Fans.....	2525
Building Operator Certification.....	2489
Busch Systems International Inc.....	2565
Capital Asset Recovery.....	2569
■ Catalytic Combustion Corp.....	924
ChemTreat Inc.....	2053
Classic Displays.....	2678
CleanRiver.....	2265
Duct & Vent Cleaning of America Inc.....	2346
DuctSox.....	2648

Dusty Ducts Inc.....	2345
EMG.....	1123
Engineering Consulting Service (ECS).....	2153
FabricAir Inc.....	1845
Facility Engineering Associates (FEA).....	2459
The Garland Co. Inc.....	1121
Green Seal Inc.....	2486
Hays Fluid Controls.....	2675
Highland Tank.....	1941
Interior Maintenance Company Inc.....	2246
Mark's Plumbing Parts.....	1608
Max-R.....	2021
MilliCare By EBC Carpet Services.....	1915
Mitsubishi Jet Towel.....	1624
Onset HOB0 Data Loggers.....	2679
Pepco & Delmarva Power C&I Energy Savings Program.....	2161
Phigenics LLC.....	2562
Polaris Industries Inc.....	2123
Quench USA.....	2575
Royal Plus Disaster Cleanup Inc.....	2242
Sanuvox Technologies Inc.....	1630
Sodexo.....	1944
Spectra254.....	717
Steril-Aire Inc.....	1808
Stormwater Maintenance & Consulting.....	705
U.S. Green Building Council Maryland Chapter.....	2389
Unlimited Restoration Inc.....	2043
UV Resources.....	1206
Veolia Environmental Services.....	1637
ZOO Fans Inc.....	2136

## EXIT SIGNS

AfterGlow LLC.....	1503
C.N. Robinson Lighting Supply Co.....	1716
Ecoglo/AccessProducts.....	1200
Emergi-Lite.....	1101
Fulham Co. Inc.....	2589
Kroy Sign Systems.....	2651
People Signs.....	1120
Primex Wireless.....	1829
signmojo.com.....	715

## EXTERIOR BUILDING SYSTEMS

AcryLabs.....	2360
BASF Corporation.....	1818
Cardinal Group Services Inc.....	2355
CAST Lighting LLC.....	2254
EasyTurf.....	2667
LED Waves LLC.....	2301
Pro-Pave Inc.....	2463
PS Doors.....	2635
Sealoflex Inc.....	1625
Sto Corp.....	1925
Technical Assurance Inc.....	2261
Versico Roofing Systems.....	1105

## FILTRATION

Applied Building Technologies Inc.....	2134
Chardon Laboratories Inc.....	2462
Elkay.....	1736
Fluid Dynamics NA LLC.....	2693
Guardian CSC.....	2683
Highland Tank.....	1941
OASIS International.....	1800
Quench USA.....	2575
■ RCI Technologies East.....	914
■ Reverso Pumps Inc.....	921

Rosedale Products Inc.....	1735
Sanuvox Technologies Inc.....	1630
Waterlogic USA.....	2285

## FIRE SAFETY

AfterGlow LLC.....	1503
AGF Manufacturing Inc.....	816
AKF Group LLC.....	1935
Alarm Tech Solutions LLC.....	2029
API National Service Group.....	1609
BFPE International.....	2148
Dropmaster by Gecco Inc.....	1927
Fike.....	1614
Fire & Life Safety America Inc.....	2347
Fireline Corp.....	2338
Garaventa Lift.....	2666
ICB/TABB.....	2498
Kinetix Fire & Life Safety Experts.....	2570
LowV Systems.....	2419
Nelbud Services Group Inc.....	1947
Precision Doors & Hardware LLC.....	2639
SDC (Security Door Controls).....	2628
SimplexGrinnell.....	1819
Wooster Products Inc.....	808
ZTS Inc.....	2437

## FLEET MANAGEMENT

CyberMetrics - FacilityWorks.....	2231
EPAC Software Technologies Inc.....	2036
Infor.....	2553
Morse Watchmans Inc.....	1836
RadioBoss 2-Way Radios.....	2353
Star EV (JH Global Services Inc.).....	1715
United Soybean Board.....	2598

## FLOORING

A-1 Flood Tech.....	2142
CentiMark Corporation.....	2258
Chemsol.....	2151
Construction Specialties Inc.....	2445
DIC Imaging Products USA LLC.....	1731
FreeAxez LLC (1).....	2518
The Garland Co. Inc.....	1121
IntelliBot Robotics LLC.....	1500
JetRock Inc.....	2652
Mats Inc.....	1628
Matting By Design.....	2051
Microguard.....	2452
MilliCare By EBC Carpet Services.....	1915
SaniGLAZE International LLC.....	2554
SchutzNA/Dr. Schutz.....	1915
Sherwin-Williams.....	1511
Superior Mfg. Group/NoTrax Floor Matting.....	1602
Tennant Co.....	2329
Tri-Chem Corp.....	817

## FURNITURE/FURNISHING MATERIALS

Caplan Bros. Glass.....	2647
Classic Displays.....	2678
CORT.....	1523
Davies Office Inc.....	2107
Gasdon Inc.....	2468
Max-R.....	2021
Nightingale Corp.....	2621
NXTWALL.....	2630
Petersen Mfg. Co. Inc.....	2529
Takeform Inc.....	1724
Zoom Inc.....	2631

**GENERATORS**

Alban CAT Power Systems..... 2513  
 Blue Team Restoration..... 1937  
 Carrier Rental Systems..... 2544  
 ■ Catalytic Combustion Corp..... 924  
 ■ Chillicothe Metal Company Inc..... 1008  
 Curtis Engine & Equipment Inc..... 2049  
 DMAR Environmental LLC..... 820  
 Enercon Engineering Inc..... 2615  
 ■ Fidelity Power Systems & Mechanical Services..... 1100  
 FuelTec Systems..... 1014  
 ■ Gen-Tracker by Generator Solutions Inc..... 1016  
 ■ GFS Corporation..... 1015  
 ■ Kelly Generator & Equipment Inc..... 909  
 ■ Kohler Power Systems..... 1021  
 ■ OMNIMETRIX LLC..... 1005  
 ■ Pritchard Brown LLC..... 904  
 Royal Plus Disaster Cleanup Inc..... 2242  
 ■ SENS (Stored Energy Systems LLC)..... 1004  
 Trane..... 1907  
 Trystar..... 2124  
 ■ Universal AET..... 1006

**HOUSEKEEPING PRODUCTS EQUIP.**

Betco Corp..... 1802  
 Busch Systems International Inc..... 2565  
 CleanRiver..... 2265  
 Glasdon Inc..... 2468  
 Mitsubishi Jet Towel..... 1624  
 NaceCare Solutions..... 2159  
 Procter & Gamble Professional..... 1108  
 Spectra254..... 717  
 Superior Mfg. Group/NoTrax Floor Matting..... 1602  
 Tomcat..... 1949  
 TOMRA Compaction-Onwak..... 1823  
 Ultra-Chem Inc..... 2591  
 West Sanitation Services Inc..... 2694  
 Xpedx..... 1525

**HVAC**

Aceto Corp..... 2485  
 Airius LLC..... 1623  
 AirPac Inc..... 2026  
 AKF Group LLC..... 1935  
 Alpine Mechanical Services LLC..... 2362  
 Applied Building Technologies Inc..... 2134  
 Applied Comfort Products Inc..... 1224  
 Aquatherm..... 2115  
 AQUIS..... 2363  
 Atlas Sales & Rentals Inc..... 2352  
 Autani Corp..... 2586  
 BACnet International..... 2601  
 Baltimore Aircoil Co..... 2659  
 Big Ass Fans..... 2525  
 Bond Water Technologies Inc..... 2450  
 BRAVO! Building Services Inc..... 1928  
 Carrier Rental Systems..... 2544  
 Chardon Laboratories Inc..... 2462  
 Cold Point Corp..... 1840  
 Complete Building Services Inc..... 2365  
 Daikin Applied..... 2277  
 Delta Cooling Towers..... 2229  
 Distech Controls Inc..... 2469  
 Dropmaster by Gecco Inc..... 1927  
 DTZ..... 2129  
 Duct & Vent Cleaning of America Inc..... 2346  
 DuctSox..... 2648  
 Dusty Ducts Inc..... 2345

EBTRON Inc..... 2563  
 EMCOR Services..... 2045  
 EMI/RetroAire..... 1610  
 Envirotrols Group Inc..... 2239  
 EVAPCO..... 1216  
 FabricAir Inc..... 1845  
 Fluke Corp..... 2618  
 Guardian CSC..... 2683  
 Harry Eklof & Associates..... 2225  
 Hays Fluid Controls..... 2675  
 Houghton Chemical Corp..... 2660  
 ICB/TABB..... 2498  
 IDEAL Industries Inc..... 2042  
 Interior Maintenance Company Inc..... 2246  
 KE Fibertec NA Inc..... 2461  
 KMC Controls Inc..... 2481  
 Macurco..... 1115  
 MAMAC Systems Inc..... 1929  
 Morin Distribution / Baltimore Aircoil Co..... 2657  
 Nelbud Services Group Inc..... 1947  
 Northeastern Supply Inc..... 1519  
 ONICON Inc..... 2684  
 Owens Corning Sales LLC..... 2370  
 Plexaire LLC..... 1914  
 PTM Manufacturing LLC..... 2359  
 Reliable Controls Corp. USA..... 2217  
 Sanuvox Technologies Inc..... 1630  
 SEMCO LLC..... 1104  
 SKF Maintenance Products..... 1922  
 Special Pathogens Laboratory..... 2546  
 Steril-Aire Inc..... 1808  
 TEMP-AIR..... 2147  
 Trane..... 1907  
 Tremco Roofing and Building Maintenance..... 2391  
 UV Resources..... 1206  
 Viconics Technologies Inc..... 2440  
 ZOO Fans Inc..... 2136

**HVAC COMMISSIONING SERVICES**

AKF Group LLC..... 1935  
 Commissioning Agents Inc..... 2040  
 EVAPCO..... 1216  
 RTKL Associates Inc..... 1626  
 Selex ES..... 1501  
 Viconics Technologies Inc..... 2440

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Atlantic Sun Control Inc..... 2645  
 BASF Corporation..... 1818  
 Cardinal Group Services Inc..... 2355  
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## Show Concierge: Booth #2395

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

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Tuesday 7:00 a.m. – 5:30 p.m.

Wednesday 7:00 a.m. – 5:30 p.m.

Thursday 7:00 a.m. – 4:30 p.m.

## Concession Stand Hours

Concession stands are located inside the exhibit hall. Special exhibitor only hours during move-in. Specific counter hours may vary, please check signs.

Monday 11:00 a.m. – 3:00 p.m. (exhibitors only)

Tuesday 11:00 a.m. – 4:00 p.m.

Wednesday 10:30 a.m. – 3:00 p.m.

Thursday 10:30 a.m. – 2:00 p.m.

## Cyber Center

NFMT features Cyber Centers – sponsored by NFMT 360 – where showgoers can send and check e-mail during exhibit hours. The Cyber Centers are located in booths #712 and #2695.

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## Show Hotels:

### Hilton Baltimore

401 West Pratt Street  
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### Sheraton Inner Harbor

300 South Charles Street  
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### Marriott Inner Harbor

110 South Eutaw Street  
410-962-0202

### Renaissance Harborplace Hotel

202 East Pratt Street  
410-547-1200

### Hyatt Regency Baltimore on the Inner Harbor

300 Light Street  
410-528-1234

### Days Inn Inner Harbor

100 Hopkins Place  
410-576-1000

## Shuttle Buses

Shuttle service is available from the Camden Yards Lot C parking lot to the Pratt Street entrance of the convention center. The shuttle will pick up at the top and bottom of the hour.

Tuesday 7:00 a.m. – 6:00 p.m.

Wednesday 7:00 a.m. – 6:00 p.m.

Thursday 7:00 a.m. – 5:00 p.m.

## Transportation

### Light Rail

The light rail runs every 20 minutes between Camden Yards (right next to the Convention Center) and BWI Airport. The half-hour trip costs \$1.60 one way.

### Taxi Information

A taxi stand is located at the Pratt Street entrance of the convention center. Yellow/Checker Cab is the largest cab company in Baltimore and can be reached at 410-685-1212.

### Super Shuttle

Super Shuttle operates between Baltimore Inner Harbor and BWI Airport. For more information or a reservation please call 1-800-258-3826, mention the NFMT code 9A5SE.

## Wireless Internet

The Baltimore Convention Center does not offer free wireless internet within the Center. The Starbucks located near NFMT registration offers complimentary wireless near its kiosk.

# BUILDING OPERATING MANAGEMENT'S NFMT 2014

National Facilities Management & Technology March 4-6, 2014 • Baltimore

## Exhibitor Map



**KEY**

- MS Expo
- EGSA Pavilion
- Building Services Pavilion
- Green Tech Pavilion
- Openings, Doors, Windows and Building Exteriors Pavilion
- Restrooms
- NFMT Café Tables
- Natural Choice Water Station

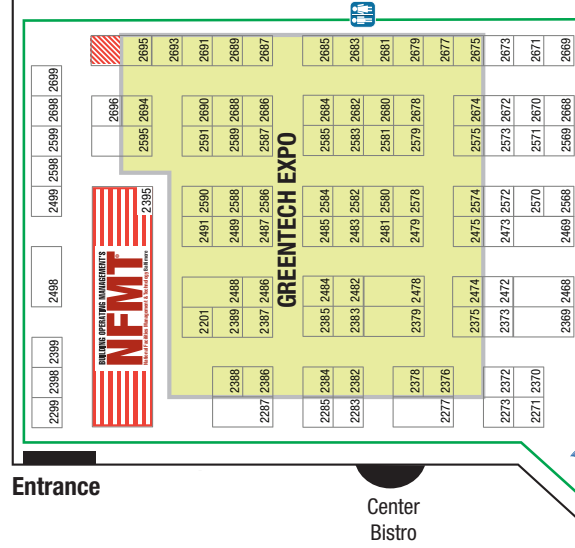
**EXPO FLOOR HIGHLIGHTS**

- NFMT Member Lounge
- Grand Prize Drawing
- Cyber Centers
- Information/NFMT Booth

**PLATINUM SPONSOR BOOTHS**

- Automated Logic
- Sloan
- Building Operating Management Magazine
- Facility Maintenance Decisions Magazine

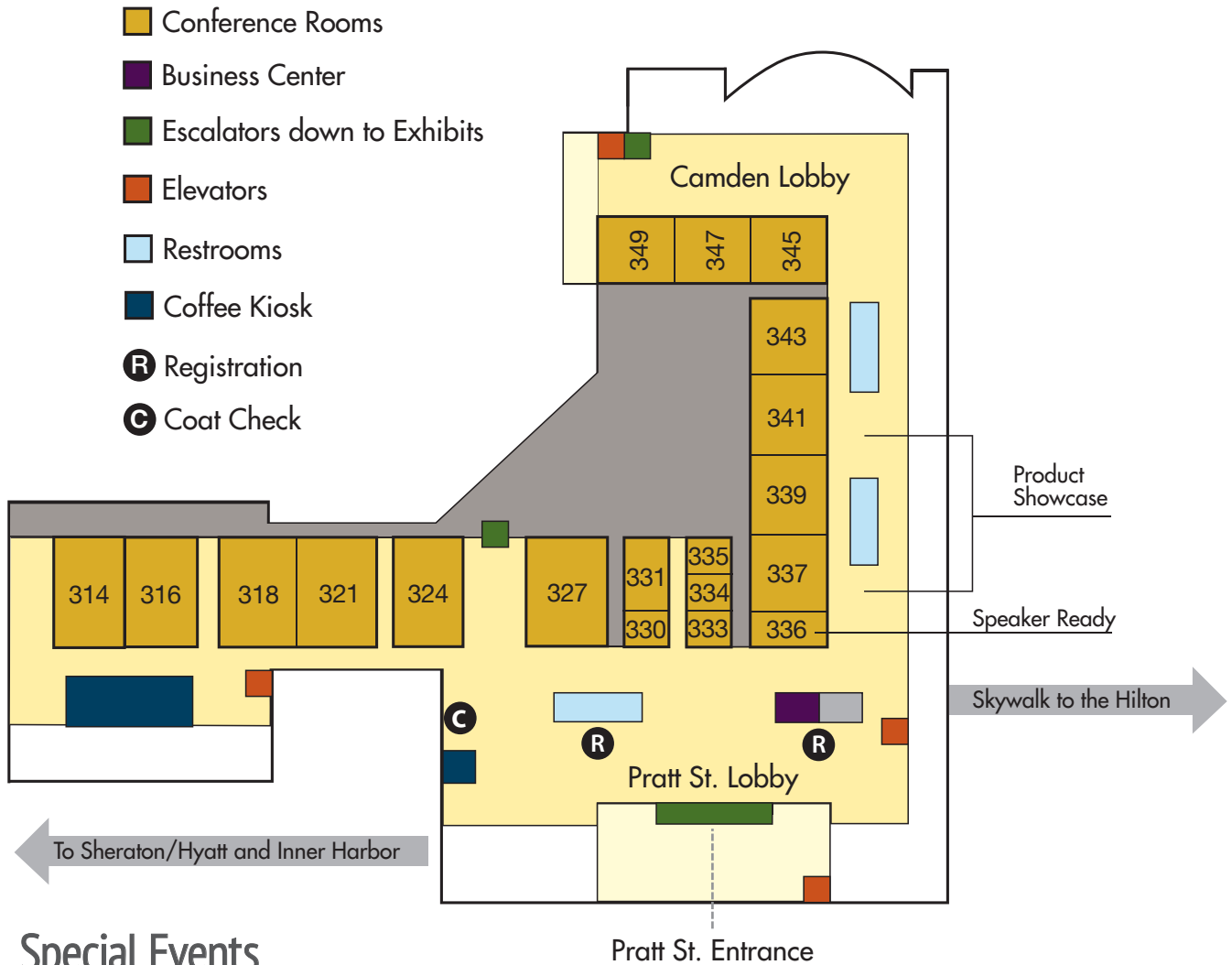
- Booth #2295
- Booth #600
- Booths #712 & 2695
- Booth #2395
- Booth #2413
- Booth #2207
- Booth #2395
- Booth #2395







# 300 Level Floor Map



## Special Events

### Room 316

Tuesday – 8:00 a.m.

TS.16 FMXcellence: Elevating the Role of Facilities

Wednesday – 8:00 a.m.

Federal Buildings Personnel Training Act: Industry Day at NFMT

Thursday – 8:00 a.m.

RG.16 Complaints: How to Deal with the Negativity

### Room 345

Wednesday – 3:10 – 6:00 p.m. W3.45

Women in Facilities Management 2014 Panel and Reception

### Room 349

Thursday – 9:00 – 10:50 a.m. R1.49

Facilities Management Young Professional Panel

## Baltimore Convention Center

Level 300

Registration and Conferences

Level 200

Pratt Street Entrance

Show/Press Office

Level 100

Exhibit Floor



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