

# 2013 EVENT DIRECTORY

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BECOME A GAME CHANGER



## BUILDING OPERATING MANAGEMENT'S **NFMT**2013

National Facilities Management & Technology March 12-14, 2013 • Baltimore

6 show highlights • 12 conference information • 60 expo information • 118 maps





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**NFMT Booth #1619**

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# BUILDING OPERATING MANAGEMENT'S NFMT2013

National Facilities Management & Technology March 12-14, 2013 • 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

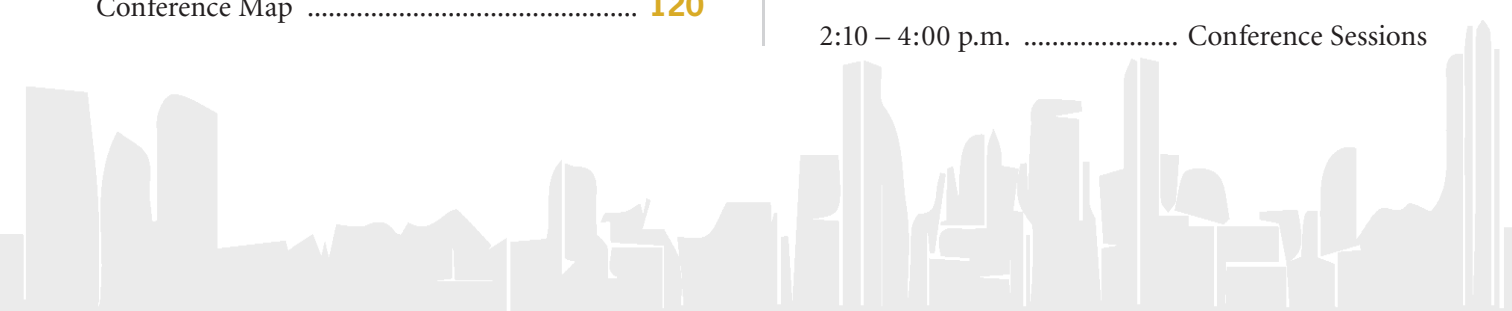
### Thursday

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 2013!

The term “game changer” is not a new one in our world. The phrase saw a lot of use during the 2008 and 2012 political cycles and typically referred to an individual who brought a new focus to a particular topic or position – and in doing so garnered a great deal of media attention.

I think it’s safe to say that members of the facility management community aren’t drawn to their profession by the promise of news coverage and press conferences. But that doesn’t mean they can’t be game changers in their own right. In fact, one prevailing reason for the launch of NFMT more than 10 years ago was to recognize the major impact commercial facilities have on the health of our economy as a whole: In 2012 alone, more than \$326.2 billion was spent on non-residential buildings.

You and I know that it’s not enough to simply manage a facility, and that’s why we’re here — as attendees, exhibitors and speakers. Over the next three days you have a chance to truly connect, and get exposure to some of the latest strategies and technologies for getting the most out of today’s buildings, their staffs and their systems. From energy efficiency to code compliance to sustainable best practices, the information packed into NFMT 2013’s educational sessions and expo

hall will elevate you to true game changer status.

We are excited to once again bring high-level facilities managers to the NFMT stage. The fifth annual Women in Facilities Management Roundtable and Reception on Wednesday afternoon is a unique way to highlight the female facilities management game changers. Thank you to Sodexo for sponsoring this important event! Make sure to join us Thursday at 8:00 a.m. as Robert Francis of Drexel University and Robert Pearlman of International


Finance Corp. share how their distinct approach to facilities management has made significant improvements to their organizations.

And when we head back to our respective jobs, there may not be cameras and microphones lining the entrance to our buildings, but don’t be surprised if the application of what you learned here brings greater awareness — and appreciation — for the role we all play in changing our industry for the better.

Welcome NFMT attendees, exhibitors and speakers. Have a great show.

Look throughout the directory to learn how to view the top videos on our new NFMT 360 website.

Best regards,



Bob Wisniewski  
President & CEO  
NFMT

P.S. Speaking of changes, be sure to check out page 16 of this directory for an important update on how CEUs will be tracked and administered at this year’s event.



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**NFMT Booth #1507**

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Booth #1619

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Management Roundtable & Reception  
Booth #1736

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Booth #1325



Georgia-Pacific  
Professional  
Booth #1657



Booth #1957



Booth #2003



Booth #2048



Booth #1987

NFMT Partners



Booth #2058



Booth #1989



Booth #2088



Booth #1888



Booth #516



Booth #1878



Booth #316



Booth #1788



Booth #1139



Booth #1798



Booth #417



Booth #319



Booth #1981



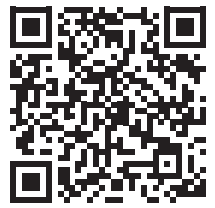
Booth #517



Booth #1999



Booth #317



# Show Highlights

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

## Tuesday

**8:00 A.M. – 8:50 A.M.**

**Room Number 316**

### General Session – FMXcellence: Elevating the Role of Facility Managers



This year NFMT is pleased to honor six deserving facilities management departments. Turn to page 18 for more information on this session.

**3:15 P.M. – 3:45 P.M.**

**Booth #501 - Prize Stage**

### Tweet Up – Calling All Social Media Users

Attend the Tweet Up to discuss how social media can enhance the FM field.

**4:00 – 5:00 P.M.**

**Pratt Street Lobby**

### Opening Night Networking Party

Join us for refreshments and live entertainment as we close out day one at NFMT. Continue conversations with exhibitors or meet a new contact, you never know which exchange could be a game changer for you.

## Wednesday

**7:45 – 8:50 A.M.**

**Pratt Street Lobby**

### Solutions Exchange

If you've never attended Solutions Exchange, you are missing out. With over 20 discussions to choose from in every area of building management and maintenance, there are solutions to any potential problem. See page 10 for the complete list of topic descriptions.

**3:10 – 6:00 P.M.**

**Room 349**

### 2013 Women in Facilities Management Roundtable and Reception

See page 42 for more information.

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



## Thursday

**8:00 A.M. – 8:50 A.M.**

**Room 316**

### General Session – Unconventional Facilities Management: Leaders Who Use Creativity and Flexibility to Run Facilities

*Robert Francis, Vice President of University Facilities, Drexel University*  
*Robert Pearlman, Senior Facilities and Administration Officer,*  
*International Finance Corp*

Find the detailed description on page 46.



Robert Pearlman



Robert Francis





**You have a facility. Now it's time for a life.** Can't get away from work? With our help, your building operations can become more efficient and predictable. Leave work where it belongs. **Stop by our booth #1629** to learn how.

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# All Three Days

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

## ALUMNI PIN \$50 HOURLY GIVEAWAY

Show your NFMT pride and wear your alumni pin in a prime location. Lucky alumni will win \$50 on the spot, one winner will be selected every half hour during expo hours. Pick up your pin at booth #409

## \$1,000 DAILY CASH DRAWING

Good luck!

Visit both booth #1629 and booth #923 to qualify for the \$1,000 drawing. The daily drawing will take place fifteen minutes prior to the hall closing at the prize stage, booth #501. Check your tote bag for the official enter-to-win form, rules and regulations.

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## LUNCH COUPONS



A special \$5 lunch discount coupon for attendees can be found in your tote bag. The lunch discount coupon is redeemable during exhibit hours only at the NFMT Café, located in the exhibit hall.

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## PRODUCT SHOWCASE

New to this year's event is the 2013 NFMT Product Showcase. Check out the displays outside the meeting rooms on the 300 level to learn more about the products and services several of our exhibitors are featuring.

## NFMT ONLINE AND ON YOUR PHONE

Use your smart phone and go to [www.nfmt.com/baltimore](http://www.nfmt.com/baltimore) for session and exhibitor information on-the-go. The website has been designed for easy use on your phone.

**QR CODES:** Throughout this directory, and the show itself, scan the QR codes to get all the pertinent show information directly to your phone.



**SOCIAL MEDIA:** Follow NFMT on social media to receive up-to-the minute updates while you are at the show and continual industry information throughout the year. Keep an eye out for contest and prizes throughout week as well.





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Warning: The Polaris BRUTUS is not intended for on-highway use. Driver must be at least 16 years old with a valid driver's license to operate. Passengers must be at least 12 years old and tall enough to sit with feet firmly on the floor. All SxS drivers should take a safety training course. Contact ROHVA at [www.rohva.org](http://www.rohva.org) or (949) 255-2560 for additional information regarding safety training. Polaris recommends that drivers and passengers wear helmets, eye protection, and protective clothing, especially for trail riding and other recreational use. Always wear seat belts. Be particularly careful on difficult terrain. Never engage in stunt driving, and avoid excessive speeds and sharp turns. Riding and alcohol/drugs don't mix. Check local laws before riding on trails. ©2013 Polaris Industries Inc.

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# Solutions Exchange

MARCH **13** Wednesday

**7:45-8:50 AM**

**PRATT STREET LOBBY**

## Arc Flash, Controls, Energy Efficiency, Lighting, Roofing, Restrooms – and more!

Nowhere else are you able to get so much information in such a short amount of time. Join us Wednesday morning for Solutions Exchange, a high-energy, interactive, roundtable discussion on some of the most important trends. Participate in three 20-minute conversation at the tables listed below. Experts in the field will help answer questions and find solutions to some of your largest problems.

Choose up to THREE topics from the list below:

### Sponsors

#### Don't Sweat the Hot Spot. Spot Coolers to the Rescue.

You'll get answers to the questions you never thought to ask. You'll learn how portable air conditioners fill a crucial role for climate control, and 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 Solution

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.



#### 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.



#### Savings from Purchasing Universal Paper and Soap

Through the roundtable discussion participants will establish an understanding of what an open purchasing system is for hand washing soap and hand drying towels. The participants will gain knowledge of the implications of signing paper and soap contracts.



#### Finding Fast Paybacks in Green Restroom Design

Join this exchange for a conversation on how to accelerate energy and cost savings through a variety of green restroom strategies — all while improving restroom hygiene.



#### Codes and Common Door Hardware Errors

Join us as we discuss an overview of architectural door hardware, proper sequencing, and basic codes as they relate to each component discussed.



#### Energy Savings Innovations

Many facilities have programs for energy reduction which identify the low hanging fruit like lighting and controls. After that, what other things can be done? What are the best kept secrets? What else can you do that is "cheap and easy"? Do you know about insulation ATM? Attend this table to discuss these issues and solutions.



## Sponsors

### Improving Efficiency Using Lighting Controls and Energy Monitoring Strategies

Attend this discussion to understand the latest lighting controls technologies that save energy for commercial applications. Also review the benefits of accurately measuring and verifying energy use to achieve maximum efficiency for a total energy savings strategy.



### How to Specify 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.



### 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.



### Long Term Door Solutions

Discussions will focus on the prevention of typical door problems in new openings, and how to correct door problems in existing openings.



### 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.



### Energy and the Building Envelope

More and more, buildings are being recognized as systems in which the operation of both internal and external components has a direct impact on the use, and therefore the cost, of energy. This round table will focus on how integrating those components to optimize overall building performance can directly result in energy savings.



### Arc Flash Hazard Analysis

NFPA 70E 2009 requires that electrical equipment be labeled with a warning that the potential for an arc flash hazard exists. 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.



### Energy Savings from Lighting Controls

At this topic discussion, attendees will learn how energy-efficient lighting controls can help you operate your building more effectively and save energy. Find out how going beyond on/off lighting controls offers even more energy saving opportunities. Whether it's using occupancy sensors and switches to turn on lighting at a lower level or automatically turning plug loads off when they're not in use, you'll find out some strategies that can work throughout your facility.



# Sessions At-A-Glance

MARCH **12** Tuesday

8:00-8:50 AM

**Room Course Title**  
316\* **TS.16** FMXcellence: Elevating the Role of Facility Managers

9:00-9:50 AM

**318 T1.18** Six Facility Maintenance Management KPIs You Must Be Using  
**321 T1.21** Identify the Next Generation of Facilities Managers  
**324\* T1.24** The ENERGY STAR Portfolio Manager Tool  
**327\* T1.27** Existing and Pending Federal Lighting Regulations  
**330 T1.30** High Performance Building Enclosures  
**337 T1.37** The Next Cleaning Specification Standard  
**339 T1.39** Sustainability: It's All About Getting on Base, Not a Homerun  
**341 T1.41** Emergency Power for Facility Managers: An Introduction to EGSA  
**343 T1.43** Federal Building Personnel Training Act  
**345 T1.45** Focused Improvement: Measure to Improve Performance  
**347 T1.47** Advantages of Open Standards in Intelligent Wireless Building Control Systems  
**349 T1.49** Saving Money, Increasing Efficiency with FM Data

10:00-10:50 AM

**318 T2.18** Implementing NFPA 70E for Arc Flash Safety  
**321 T1.21** Identify the Next Generation of Facilities Managers (Repeat)  
**324\* T2.24** Building Envelope Commissioning  
**327\* T2.27** The Power of the Data, the Data of the Power  
**330 T2.30** Historic Window Restoration and Replacement  
**331 T2.31** Mentoring: Engaging and Developing New Facility Managers  
**337 T2.37** Facts and Metrics about HHPCC Day Cleaning  
**339 T2.39** Sustainable Landscape Projects at City of Hope Medical Center  
**341 T2.41** Backup Power: How Much and For How Long?  
**343 T2.43** What You Need to Know about Mass Notification  
**345 T2.45** Recruiting and Retaining Multi-Skilled Employees in Today's Skill Gap Crisis  
**347 T2.47** How Energy Management Technology is Optimizing the Built Environment  
**349 T2.49** A Guide for BIM in Existing Facilities

11:00-11:50 AM

**318 T3.18** 10 Tips to Build a Better Maintenance Team  
**321 T3.21** Marketing Yourself Beyond LinkedIn  
**324\* T3.24** Best Practices for EE Program Participation  
**327\* T3.27** LED's Deep, Dark Secrets  
**330 T3.30** The Importance of Openings in the Overall Building Envelope  
**331 T3.31** Why to Incorporate Evidence-Based Design  
**337 T3.37** Plumbing Codes: Changes Ahead  
**339 T3.39** Ensuring a Clean, Healthy and Green Indoor Environment  
**341 T3.41** The Basics of Standby Power  
**343 T3.43** How to Manage the ADA  
**345 T3.45** The New Standards and New Approaches to Controlling Legionella in Water Systems  
**347 T3.47** Avoiding Moisture-Related Issues with Concrete Slabs  
**349 T3.49** CMMS, CAFM, IWMS Questions Answered

12:00-4:00 PM

Exhibit Hall Open

3:45 PM

Booth 501 **\$1,000 Daily Drawing — Sponsored by:**



4:00-5:00 PM

Networking Party — Pratt Street Lobby — Sponsored by:



MARCH **13** Wednesday

7:45-8:50 AM

Solutions Exchange — Pratt Street Lobby

9:00-9:50 AM

**318\* W1.18** Hunger Games: How to Curb Your Building's Appetite for Energy  
**324 W1.24** Smart Buildings: The Next Generation of Green  
**327 W1.27** Automatic Control of Natural Ventilation  
**330 W1.30** Healthcare Facility Management Compliance  
**337 W1.37** LEEDv4: Current Status and Important Updates  
**339 W1.39** New Green Floor Coverings, Backings and Installation Technology  
**341 W1.41** Modular vs. Component Standby Power Systems  
**343 W1.43** Building a Viable Enterprise Risk Program  
**345 W1.45** Workplace Issues for 2013  
**347\* W1.47** Mission Critical Facilities: FM to IT, Can We Talk?  
**349 W1.49** Catching Flies with Honey: Civility in Facilities Management

10:00-10:50 AM

**318\* W2.18** Inspection Routes: Backbone of a Reliability Program  
**321 W2.21** Success in FM...The Necessary Ingredients  
**324 W2.24** Getting Things Done: Free Energy Tools and Resources  
**327 W2.27** Lighting Retrofits: A Smarter Facility Management Option  
**330 W2.30** The Anatomy of a Healthy Healthcare Building  
**337 W2.37** Trials, Tribulations and Recommendations for LEED EB O&M Ventilation Prerequisite  
**339 W2.39** Ecologically Sustainable Development: The Future of Landscape Management  
**341 W2.41** Load Banks: Generating Success  
**343 W2.43** Overview of Fire Protection and Life Safety Construction

\* Session will be archived for NFMT Members

- 345 W2.45** Parametric Deferred Maintenance Estimating  
**347\* W2.47** Intelligent Facility System Management

## 11:00-3:00 PM

Exhibit Hall Open

## 2:45 PM

**Booth 501 \$1,000 Daily Drawing**  
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## 3:10-4:00 PM

- 318 W3.18** A Road Map for Lifecycle BIM  
**321 W3.21** The "New Business" of FM: Becoming a Value Add Leader  
**324 W3.24** Energy Efficiency for the Long Haul: How to Put Your Plan Into Action  
**327 W3.27** Sustainable HVAC Design and Operation: The Myths and the Magic  
**337\* W3.37** LEED: the Good, the Bad, the Ugly  
**339 W3.39** Positive Paybacks for Green Buildings  
**341 W3.41** Remote Diagnostics and Failure Prevention on Standby Generator Systems  
**343 W3.43** Energy Efficiency and Indoor Air Quality: Success at ASHRAE Headquarters  
**345\* W3.45** So You Think You Know Your MSDS  
**347 W3.47** Data Center Efficiency Deployed  
**349 W3.49** Women in Facilities Management 2013 (2 hours)

## 4:10-5:00 PM

- 330 W4.30** Lighting Updates for Healthcare Facilities  
**337\* W4.37** Rooftop Solar: The Good, The Bad and The Right Way!  
**339 W4.39** Testing Adjusting and Balancing to Create a High-Performance Building  
**343 W4.43** Disaster Recovery: Being Ready for Whatever Happens  
**345\* W4.45** Facility Management and Human Resource: Creating the Dream Team  
**347 W4.47** Be Green, Save Green Through PC Power Management Program

**MARCH**  
**14** Thursday

## 8:00-8:50 AM

- 316\* RS.16** Unconventional Facilities Management: Leaders Who Use Creativity and Flexibility to Run Facilities

## 9:00-9:50 AM

- 318\* R1.18** How to Develop and Write Effective, Repeatable Maintenance Procedures  
**321 R1.21** Getting to Zero: Sustainability and Carbon Neutral Buildings  
**324 R1.24** Monetizing Large EPAct Tax Deductions  
**327 R1.27** Emergency Preparedness in a Post-Sandy World: Lessons Learned  
**330 R1.30** Healthcare Facility Benchmarking: How to Get Started  
**337 R1.37** Is it Time for a National Energy Code?  
**339 R1.39** Methods and Tools for Justify High-Performance Building Projects  
**341 R1.41** Selling the Value of Power Reliability to Senior Management

- 343\* R1.43** Fire Alarms: The A-Z of Inspection, Testing and Maintenance  
**345 R1.45** What Does the ADA Now Require  
**347 R1.47** Making Sense of Controls in ASHRAE 90.1 2010  
**349 R1.49** Updating Historic Buildings Using the Whole Building Design Guide

## 10:00-10:50 AM

- 318\* R2.18** Electric Vehicle Charging Stations  
**321 R2.21** Weaknesses Don't Lie: Identify Yours Before Others Do  
**324 R2.24** Energy Dollars Out the Windows, Walls and Roof?  
**327 R2.27** Integrated Building Management Systems (IBMS) for Existing Buildings  
**330 R2.30** Workplace Violence: Lessons learned from Johns Hopkins Hospital  
**339 R2.39** Solar Thermal Projects 101  
**341 R2.41** Maintaining Diesel Fuel Quality... Strategies for Ensuring Clean Fuel Availability When You Need It  
**343\* R2.43** NFPA Code Updates  
**345 R2.45** Ensuring Fire Safety for Food Service Operations in Commercial Facilities  
**347 R2.47** Monitoring Based Commissioning Enhances Sustainability  
**349 R2.49** Acoustical Problem Solving for the Facility Manager

## 11:00-2:00 PM

Exhibit Hall Open

## 1:45 PM

**501 \$1,000 Daily Drawing**  
**Sponsored by: DTZ, a UGL Company and Polaris Industries Inc.**

## 2:10-4:00 PM

- 316 P3** The Disaster Experience Workshop (special fee applies)

## 2:10-3:00 PM

- 324 R3.24** The Next Generation Energy Service Company  
**327 R3.27** Next Generation LED Lighting Update  
**337\* R3.37** On-site Water Reclamation: Greening our Footprint, Maximizing Cost Savings  
**339\* R3.39** Take Your Facility to a Higher Plane with Smart Integration  
**341 R3.41** Protecting staff and occupants from electrocution from high current leakages, and ground faults  
**345 R3.45** Exterior Continuous Insulated Claddings for Energy Efficiency  
**347 R3.47** The Path to Streamlined Building Lifecycle Management  
**349 R3.49** Fundamentals of Quality Control & Continuous Improvement Strategy

## 3:10-4:00 PM

- 337\* R4.37** Save Money and Energy: Consolidated Building Management  
**339\* R4.39** Distributed Generation Wind Projects  
**343 R4.43** Facilities Risk Analysis  
**345 R4.45** Emergence of Performance-Based Energy Services  
**347 R4.47** 10 Tips to Build a Better Maintenance Team (Repeat Session)

# Tracks At-A-Glance

## CRITICAL FACILITIES

- 331 **T3.31** Why to Incorporate Evidence-Based Design into Your Next Project  
 347 **W1.47** Mission Critical Facilities: FM to IT, Can We Talk?  
 341 **W2.41** Load Banks: Generating Success  
 347 **W3.47** Data Center Efficiency Deployed  
 347 **W4.47** Be Green, Save Green Through PC Power Management Program

## ENERGY EFFICIENCY, UPGRADES AND UTILITIES

- 324 **T1.24** The ENERGY STAR Portfolio Manager Tool  
 327 **T1.27** Existing and Pending Federal Lighting Regulations  
 327 **T2.27** The Power of the Data, the Data of the Power  
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 337 **R1.37** Is it Time for a National Energy Code?  
 339 **R1.39** Methods and Tools for Justify High-Performance Building Projects  
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 337 **T2.37** Facts and Metrics about HHP Day Cleaning  
 339 **T2.39** Sustainable Landscape Projects at City of Hope Medical Center  
 339 **T3.39** Ensuring a Clean, Healthy and Green Indoor Environment  
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- 339 **T2.39** Sustainable Landscape Projects at City of Hope Medical Center  
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 324 **T2.24** Building Envelope Commissioning  
 330 **T2.30** Historic Window Restoration and Replacement  
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**POWER: GENERATION AND RELIABILITY**

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- 341 **T1.41** Emergency Power for Facility Managers: An Introduction to EGSA
- 327 **T2.27** The Power of the Data, the Data of the Power
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- 341 **T3.41** The Basics of Standby Power
- 341 **W1.41** Modular vs. Component Standby Power Systems
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- 343 **T2.43** What You Need to Know about Mass Notification
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- 345 **R1.45** What Does the ADA Now Require
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- 327 **W2.27** Lighting Retrofits: A Smarter Facility Management Option
- 327 **W3.27** Sustainable HVAC Design and Operation: The Myths and the Magic
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- 327 **R2.27** Integrated Building Management Systems (IBMS) for Existing Buildings
- 327 **R3.27** Next Generation LED Lighting Update

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- 349 **T1.49** Saving Money, Increasing Efficiency with FM Data
- 347 **T2.47** How Energy Management Technology is Optimizing the Built Environment
- 349 **T2.49** A Guide for BIM in Existing Facilities
- 347 **T3.47** Avoiding Moisture-Related Issues with Floor Finishes on Concrete Slabs
- 349 **T3.49** CMMS, CAFM, IWMS Questions Answered
- 327 **W1.27** Automatic Control of Natural Ventilation
- 347 **W2.47** Intelligent Facility System Management
- 318 **W3.18** A Road Map for Lifecycle BIM
- 347 **R1.47** Making Sense of Controls in ASHRAE 90.1 2010
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- 347 **R2.47** Monitoring Based Commissioning Enhances Sustainability
- 349 **R2.49** Acoustical Problem Solving for the Facility Manager
- 339 **R3.39** Take Your Facility to a Higher Plane with Smart Integration
- 347 **R3.47** The Path to Streamlined Building Lifecycle Management
- 345 **R4.45** Emergence of Performance-Based Energy Services



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# Continuing Education

## What's new with CEUs?



We've made some updates to NFMT's Continuing Education Credits program. Here's how it works:

- Be sure to have your badge scanned when you attend any session for which you wish to receive credit
- Attend the session in its entirety
- 10 days after NFMT 2013 concludes, you'll receive notification to login to your NFMT Attendee Dashboard, where you'll see the complete list of sessions you attended
- Click on each session title to access that session's specific 5-question learning outcomes assessment; score 60 percent or greater on each assessment to earn CEU credit
- Once you've completed an assessment for each session you attended, you can download and print your CEU transcript
- Self report to the appropriate professional organization using your NFMT CEU transcript

**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)

## Wish you could attend more NFMT sessions?

Now, NFMT Members have access to over 24 session videos online. The following sessions will be archived for NFMT Members to access after the conference.

### TUESDAY

- TS.16 FMXcellence: Elevating the Role of Facility Managers
- T1.24 The ENERGY STAR Portfolio Manager Tool
- T1.27 Existing and Pending Federal Lighting Regulations
- T2.24 Building Envelope Commissioning
- T2.27 The Power of the Data, the Data of the Power
- T2.24 Best Practices for EE Program Participation, Breaking Down the Barriers
- T2.27 LED's Deep, Dark Secrets

### WEDNESDAY

- W1.18 Hunger Games: How to Curb Your Building's Appetite for Energy
- W1.47 Mission Critical Facilities: FM to IT, Can We Talk?
- W2.18 Inspection Routes: Backbone of a Reliability Program
- W2.47 Intelligent Facility System Management
- W3.37 LEED: the Good, the Bad, the Ugly
- W3.45 So You Think You Know Your MSDS
- W4.37 Rooftop Solar: The Good, The Bad and The Right Way!
- W4.45 Facility Management and Human Resource: Creating the Dream Team

### THURSDAY

- RS.16 Unconventional Facilities Management: Leaders Who Use Creativity and Flexibility to Run Facilities
- R1.18 How to Develop and Write Effective, Repeatable Maintenance Procedures
- R1.43 Fire Alarms: The A-Z of Inspection, Testing and Maintenance
- R2.18 Electric Vehicle Charging Stations
- R2.43 NFPA Code Updates
- R3.37 On-site Water Reclamation: Greening our Footprint, Maximizing Cost Savings
- R3.39 Take Your Facility to a Higher Plane with Smart Integration
- R4.37 Save Money and Energy Through Consolidated Building Management
- R4.39 Distributed Generation Wind Projects

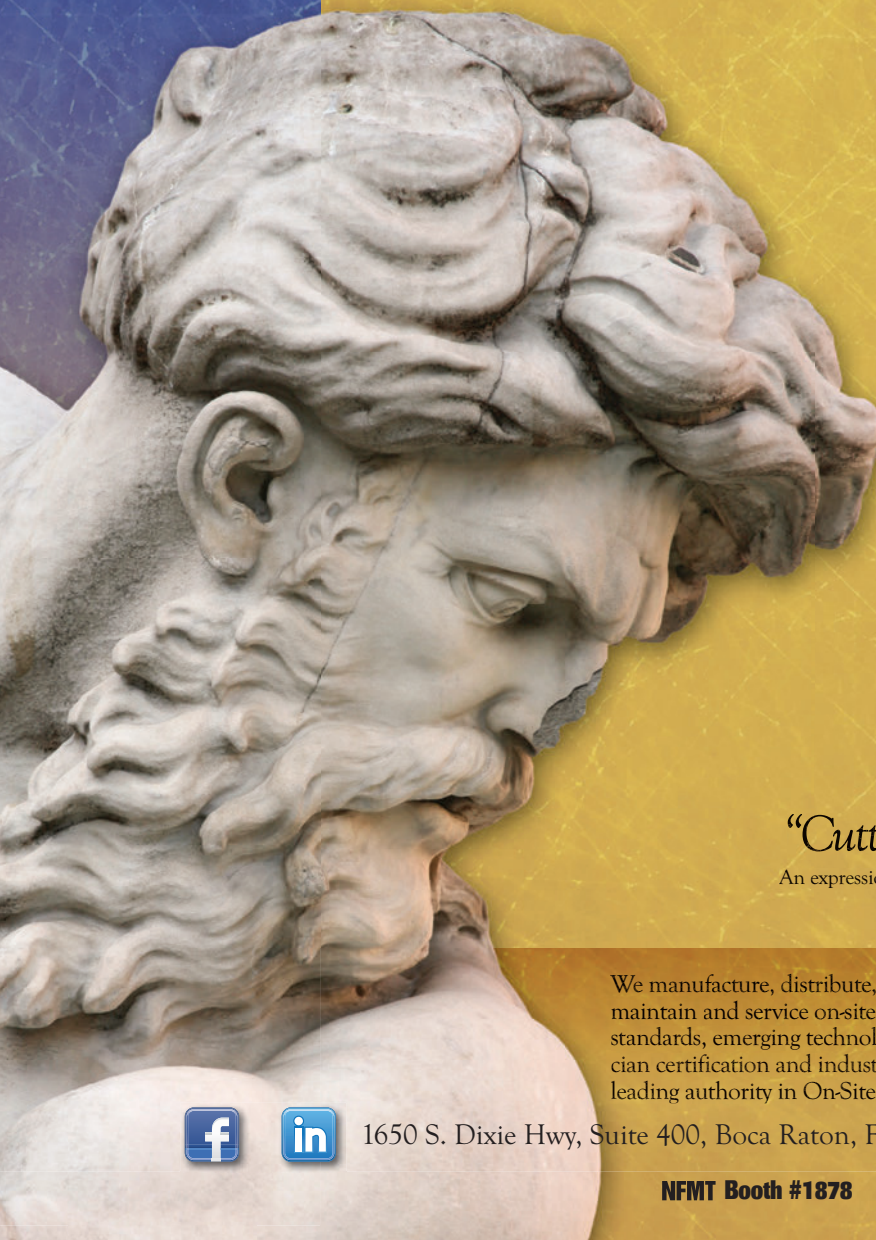
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**NFMT Booth #1878**

# Conference Sessions

MARCH **12** Tuesday

9:00-9:50 AM

Maintenance and Operations

**T1.18 ■ Room 318**

## Six Facility Maintenance Management KPIs You Must Be Using

*Ricky Smith, Senior Reliability Advisor, GP Allied*

It is always a struggle to determine which key performance indicators (KPIs) facilities management should be using to measure maintenance effectiveness and efficiency. Managing without the right KPIs can be frustrating and sometimes dangerous for any facility manager. Join Ricky Smith, lead facility investigator for the Secretary of Defense during the 2007 Walter Reed investigation, in this discussion on KPIs that are most important to facilities maintenance and the ones to concentrate on within your facility. In this presentation, you will be exposed to six leading and lagging facilities maintenance KPIs that you should be using today in order to effectively manage your facility. When you leave this presentation, you should have validated that you are measuring the correct things, or have obtained new information about KPIs you should consider using to ensure successful execution.

LEARNING OBJECTIVE(S):

1. Learn about six key performance indicators (KPIs) that should be used to achieve and sustain success in maintenance
2. Review how to properly define KPIs with guidelines and standards
3. Understand how to use KPIs to drive continuous improvement in your facility

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement

**T1.21 ■ Room 321**

## Identify and Cultivate the Next Generation of Facilities Managers

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

Creating the dream facilities management team is no easy undertaking and in recent years it has become even more difficult. The industry is at a crossroads, facing “brain drain” cause by the retirement of many skilled craftsmen and the increasing reliance on technology to run buildings. Today’s current help wanted ads call for an interesting hybrid of a hands-on employee who also understands – and can quickly adapt to – current technology. This session will continue the discussion of the necessary skillsets for future facilities managers or engineers and how current FM’s can identify and cultivate those talents to ensure a successful team and a successful future for your organization.

LEARNING OBJECTIVE(S):

1. Identify the need to recruit new individuals into the industry
2. Discover the sources for the next generation of employees, including college and university programs, technical schools, and other organizations
3. Understand what the next generation is looking for in a career and an employer
4. Review how to support employees or potential employees through internships and mentoring programs

AUDIENCE: ADVANCED CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**T1.24 ■ Room 324**

## The ENERGY STAR Portfolio Manager Tool

*Karen P. Butler, LEED Green Associate, ENERGY STAR - Commercial Building Design, US Environmental Protection*

**TUESDAY, MARCH 12 8:00-8:50 AM**

Leadership and Career Advancement

**TS.16 ■ Room 316**

## FMXcellence: Elevating the Role of Facility Managers

*Sean Delehanty, Electronic Systems Sustainability Manager, BAE Systems*

*Ken Fletcher, Deputy Division, Director of Facilities, Lawrence Berkeley National Laboratory*

*Francis Gillis, Senior Director, Housing Facilities Management, Georgia Tech, Department of Housing*

*Bob Holesko, CEM, CEA, Vice President, Facilities, HEI Hotel and Resorts*

*John DeBenedictis, Senior Manager, Retail Facilities Management, TD Bank Group*

*John T. Shea, CEO, Division of School Facilities, The New York City Department of Education*

Now in its fourth year, Building Operating Management’s FMXcellence Recognition Program acknowledges in-house FM teams that apply best practices and innovation to meet their organization’s priorities. Attend this session to hear inspiring stories from the 2013 honorees about how they used innovative thinking, best practices and team work to accomplish impressive goals.

LEARNING OBJECTIVE(S):

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: INTERMEDIATE CEU: 0.1

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#### Agency

This presentation will provide an update on ENERGY STAR for Commercial Buildings through a discussion of industry/regulatory trends, and an introduction to Portfolio Manager, including an overview of the functionality that has made this tool the de facto industry standard for tracking commercial building energy performance. The presentation will also address how Portfolio Manager outputs can be used to plan and prioritize energy management activities – thereby translating information into action.

#### LEARNING OBJECTIVE(S):

1. Understand the financial, environmental, and regulatory drivers making energy performance benchmarking a necessity
2. Gain a better understanding of EPA's Portfolio Manager benchmarking tool, from data tracking to reporting to recognition
3. Learn about the variety of entry points into benchmarking – from single-building manual entry to automated data upload for entire portfolios through third party vendors
4. Identify how benchmarking in Portfolio Manager can identify and prioritize energy improvement opportunities across portfolios

AUDIENCE: INTERMEDIATE CEU: 0.1

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

#### T1.27 ■ Room 327

### Existing and Pending Federal Lighting Regulations

*Susan Isenhour Anderson, Consultant, National Electrical Manufacturers Association*

The U.S. Government, both through legislation and authority given to the Department of Energy (DOE), sets energy efficiency standards for a number of products, including lighting products. You need to be aware of these standards so you can assure that lighting products used to upgrade existing facilities and new construction projects comply.

#### LEARNING OBJECTIVE(S):

1. Learn if your project is compliant with federal regulations
2. Understand how to purchase suitable replacement products when system maintenance is needed
3. Review how your energy efficiency goals will be achieved
4. Maximize the opportunities to potentially qualify for incentive programs that can help reduce the capital expenditures

AUDIENCE: BEGINNER CEU: 0.1

Openings: Doors, Windows and Building Exteriors

#### T1.30 ■ Room 330

### High Performance Building Enclosures

*Anne Hicks Harney, AIA, LEED AP BD+C, Sustainability*

*Director, Ayers Saint Gross Architects*

*Dan McKelvey, AIA, Senior Associate*

*Ayers Saint Gross Architects*

*Kim Schaefer, AIA, LEED APBD+C, Founder, TerraLogos: eco architecture*

Issues involving the design, specification, materials, assembly, and performance of the building enclosure (envelope) are of crucial

importance to a variety of aspects of building performance such as energy efficiency, indoor air quality, and resilient and structurally-sound protection from moisture, weather and other external factors. This session will offer an introduction to high-performance, energy efficient, sustainable, and resilient building enclosures through case studies to include commercial office, higher education and healthcare facilities. There will be ample opportunity for questions, discussion and information-sharing.

#### LEARNING OBJECTIVE(S):

1. Understand the import role of the building enclosure to the energy efficiency, structural integrity, and resiliency of facilities.
2. Learn about the elements of the building enclosure: sub-grade, exterior walls, fenestration, and roof.
3. Understand the internal and external environmental forces on the building enclosure and the fundamentals of design and maintenance of the building envelope.
4. Learn from best practices and successful case studies in the design of high-performance building enclosures.

AUDIENCE: BEGINNER CEU: 0.1

Green Standards

#### T1.37 ■ Room 337

### The Next Cleaning Specification Standard: A Least Harmful Specification

*Vince Elliott, President, Elliott Affiliates, Ltd.*

In the future, we might envision staff productivity at 9,000 to 12,000 square feet, cost reductions at 15 to 30 percent, revenue gains of 4 to 9 percent, market expansion, new business gains and much more. This session explores the evolution beyond traditional or even green cleaning specifications toward the next cleaning specification standard...a least harmful specification. It recognizes the strengths and weaknesses of today's specification alternatives and presents a new vision for developing the most advanced specification ideas. It moves beyond reducing the harmful effects of our common cleaning products toward zero acceptance of any harmful affect to our health, safety or the planet. The result for our industry is the possibility for dramatic improvements in revenue, profitability, productivity and price reduction.

#### LEARNING OBJECTIVE(S):

1. Understand the limitations of traditional and green specifications
2. Review the consequences of using traditional and green products
3. Review the evolving least harmful specification
4. Learn how chemical free cleaning can create performance-based experience

AUDIENCE: INTERMEDIATE CEU: 0.1

Green Standards, Greening an Existing Building

#### T1.39 ■ Room 339

### Sustainability: It's All About Getting on Base, Not a Homerun

*F. Joshua Millman, AIA, Principal, Facilities Planners & Architects, Inc.*

The media seeks to profile the latest LEED Platinum office building or net zero interpretive center, identifying projects as "homeruns" of the sustainability world. However, sustainability planning is really about "getting on base," and this session proposes a four-tier model that features four assessments: Basic Sustainability, ENERGY STAR,

LEED and Net Zero.

Four case studies from different industries and sectors are presented to affirm how the model can be applied to establishing baselines, setting goals and creating action plans.

LEARNING OBJECTIVE(S):

1. Understanding the assessment process in sustainability planning
2. Review modeling sustainability opportunities in construction operations, maintenance and supply chains
3. Identifying the data needs for each level of sustainability
4. Be able to present cost-benefit analysis to upper management

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

### T1.41 ■ Room 341

#### Emergency Power for Facility Managers: An Introduction to EGSA

*Michael Pope, 2012 EGSA President, Marketing Manager & Senior Sales Engineer, Clariant Corp.*

While most facility managers have a basic understanding of back-up power, many do not realize that there is a whole industry dedicated to on-site power generation. For the past 48 years, the Electrical Generating Systems Association (EGSA) has been a trusted resource in the industry —not just for our members, but for engineers and facility managers like yourself, who are responsible for the ever-increasing business demands for emergency power solutions. EGSA is the group that built your on-site electrical generating system. Our members made the engine, the generator and every electrical and mechanical accessory component from the switchgear to the exhaust rain cap. Give us this hour to introduce you to our Association and our Industry and we promise that you'll learn something of value!

LEARNING OBJECTIVE(S):

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

Leadership and Career Advancement

### T1.43 ■ Room 343

#### Federal Building Personnel Training Act

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

### T1.45 ■ Room 345

#### Focused Improvement: Measure to Improve Performance

*Bruce Wesner, Managing Principal, Life Cycle Engineering*  
Today, leaders of organizations are stretched to do more with less, and asked to cover more areas with fewer resources, less time and smaller budgets. Given these constraints, how can we continue to drive improvement and achieve success? We must tactically drive improvement and eliminate issues that impact our ability to perform. Focused improvement efforts can provide significant bottom line impacts.

LEARNING OBJECTIVE(S):

1. Understand the approach to a focused improvement effort. Why is this different?
2. Understand loss elimination, don't forget the people in the process
3. Review case study of what can this yield tactically?

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### T1.47 ■ Room 347

#### Advantages of Open Standards in Intelligent Wireless Building Control Systems

*Danny Yu, CEO, Daintree Networks*

This presentation will discuss the advantages of using an intelligent, open standard wireless technology, such as ZigBee, for building controls systems, and how such systems can significantly lower energy costs and improve building performance. Attendees will learn the pros and cons of wireless vs. wired systems, especially in the existing building market. They will hear how wireless standards enable management to use components from a larger variety of trusted suppliers. Open standards also frees users from proprietary systems, allowing greater flexibility for reconfiguring building use to meet changing requirements. A systematic approach for analyzing needs will also be presented.

LEARNING OBJECTIVE(S):

1. Discuss the advantages of open standards technologies, such as ZigBee, compared to proprietary systems
2. Understand the need for an intelligent system that will adapt more easily and inexpensively to the inevitable changes in building use that occur over time
3. Be able to project cost savings from energy reductions that result from better standards-based building controls

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### T1.49 ■ Room 349

#### Saving Money, Increasing Efficiency with FM Data

*Robert Clarke, Director, Information Resource Management Division, U.S. Department of State, Overseas Buildings Operations*

*Danilo Stapula, Applications Support and Management Branch Chief, U.S. Department of State, Overseas Buildings Operations Bureau*

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

The FM industry historically has relied on reactive practices. However, as building occupants, owners and financial decision makers begin to request high performance buildings, and technology continues to infiltrate the building industry, there is a need to transition to more proactive management practices. This transition requires the use of data for decision making and the development of new standards. The purpose of this session, the first of a three part series at NFMT, is to explain the benefits of FM data and standards from a practical perspective. After a short keynote, the session will showcase a case study from the U.S. Department of State.

LEARNING OBJECTIVE(S):

1. Understand why data is an important part of daily facility and maintenance management practices
2. Gain insight about the costs and benefits of transitioning to proactive, data driven facility management
3. Learn how building information modeling (BIM) is a part of the transition to proactive, data driven processes
4. Gain practical insights, including lessons learned about implementing data driven decision making practices and data standards

AUDIENCE: INTERMEDIATE CEU: 0.1



Zhaga

Making LED light sources interchangeable

# Concerned about specifying LED luminaires?

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interchangeable LED light sources:  
[www.zhagastandard.org](http://www.zhagastandard.org)

MARCH **12** Tuesday

**10:00-10:50 AM**

Maintenance and Operations, Safety and Security

**T2.18 ■ Room 318**

### Implementing NFPA 70E for Arc Flash Safety

*Daryn Lewellyn, President/Founder, Lewellyn Technology*

Applying NFPA 70E to real-world situations can be confusing and at times overwhelming. This informative session equips attendees with the knowledge to keep employees safe from electrical hazards. You will learn practical information you can begin to apply immediately at your workplace.

LEARNING OBJECTIVE(S):

1. Learn how NFPA 70E and OSHA work together
2. Learn how to conduct an arc flash hazard assessment at your facility
3. Get insight on the proper use of personal protective equipment
4. Discover how arc flash hazard assessment keeps workers safe

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**T1.21 ■ Room 321**

### Identify and Cultivate the Next Generation of Facilities Managers (Repeat)

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

See page 18 for full session description.

AUDIENCE: ADVANCED CEU: 0.1

Openings: Doors, Windows and Building Exteriors

**T2.24 ■ Room 324**

### Building Envelope Commissioning

*Stephen Kisielnicki, RWC, CCS, LEED AP, Associate/Building Envelope Specialists/QC Manager, Gale Associates Inc.*

*Tony Robinson, RRC, LEED AP, Project Manager, Gale Associates Inc.*

Building envelope commissioning avoids common issues in building construction, including water intrusion, air infiltration, and associated energy loss. The success of exterior envelope assemblies is attributed to the planning implemented during initial phases of the design, and requires combined efforts of the owner, commissioning consultant, design team, and contractors. Commissioning activities include reviews of the building envelope design focusing on its ability to resist moisture and air infiltration and to maintain a continuous thermal enclosure. Services during construction confirm the performance capability of the envelope assembly.

LEARNING OBJECTIVE(S):

1. Review how addressing envelope issues in the early stages of building construction projects saves money and time
2. Learn how commissioning helps avoid common issues in building construction
3. Understand that the commissioning process should begin when the design team is preparing schematic design documents

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Power: Generation and Reliability

**T2.27 ■ Room 327**

### The Power of the Data, the Data of the Power

*William Garbati, Vice President, Major Accounts, Constellation*

Energy data is everywhere, constantly flowing through the meters, controls, hardware and software, connected to gas lines and electricity wires in and throughout facilities across the country. And when this energy data is transformed from megawatts into megabytes, it can inform an integrated energy management strategy that can uncover entire revenue streams, streamline energy consumption and lower total energy costs.

LEARNING OBJECTIVE(S):

1. Review the collection and monetization of Energy Data
2. Understand how energy data can be used to inform an integrated energy management strategy
3. Learn how energy data is an untapped fuel and revenue reserve for businesses

AUDIENCE: INTERMEDIATE CEU: 0.1

Openings: Doors, Windows and Building Exteriors

**T2.30 ■ Room 330**

### Historic Window Restoration and Replacement

*Matt Hankins, Shop Manager, Worcester Eisenbrandt, Inc.*

*Jackie Browning, Business Development, Window & Door Division-Greater Baltimore, T.W. Perry*

Windows are an important element to maintain the character and energy efficiency of historic buildings. Evaluating the significance and condition of the windows of historic buildings of all sizes, and planning for their repair or replacement is a complex process involving numerous considerations and standards. This session will introduce the considerations for the restoration and in-kind replacement of historic windows through case studies of commercial office and institutional projects with architects, historic preservation craftspeople, and window replacement specialists.

LEARNING OBJECTIVE(S):

1. Understand how windows contribute to the character of historic buildings as well as energy efficiency
2. Understand how historic standards regulate the replacement of historic windows
3. Learn about techniques for restoration and repair of historic windows
4. Learn about considerations for in-kind replacement of historic windows

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement

**T2.31 ■ Room 331**

### Mentoring: Engaging and Developing New Facility Managers

*Frank Bell, Facilities Manager, Tessco Technologies, Inc.*

*Susan Moury, Business Continuity Coordinator, Tower Federal Credit Union*

*Pete Nettleton, Owner, Nettleton Management LLC*

As facility managers are dealing with reduced staff, tighter budgets, and the same if not expanded workload. They have to depend on their staff more than ever. By developing employee confidence, experience, and industry connections, thereby professionalizing your team, you can ease everyone's stress. Develop a loyal and valuable team by expanding their capabilities and broadening the knowledge pool in the department. In this session we will discuss ways FMs and professional associations can develop mentoring opportunities for their staff and lessons learned in the process. We will also discuss ways to reach out to those looking to become FMs and how less experienced FMs can take control of their career path and add value





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## CONFERENCE SESSIONS: Tuesday

within their organizations.

LEARNING OBJECTIVE(S):

1. Discuss ways FMs and professional associations can develop mentoring opportunities for their staff
2. Review ideas on how to reach out to those looking to become FMs to expand the future of the profession
3. Learn how less experienced FMs can take control of their career path and add value within their organization

This session is sponsored by IFMA Chesapeake Chapter

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

**T2.37 ■ Room 337**

### Facts and Metrics about HHPC Day Cleaning

*Jason Lee, Director of Sustainability, Harvard Service Group*  
*Robert Kohlhagen, Vice President of Sustainability, Diversy*  
HHPC day cleaning is a leading methodology to clean buildings during day time hours. HHPC day cleaning incorporates sustainable cleaning practices, tools, equipment, chemicals and procedures and has led to almost eight percent energy savings and reductions in environmental footprint. Attend this presentation to learn about the key benefits of HHPC day cleaning system for both facilities managers and occupants and tenants.

LEARNING OBJECTIVE(S):

1. Review day cleaning facts and metrics
2. Understand true energy savings available through day cleaning
3. Learn about carbon emissions savings opportunities
4. Review benefits to occupants and tenants through day cleaning

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Healthcare Facilities Today

**T2.39 ■ Room 339**

### Sustainable Landscape Projects at City of Hope Medical Center

*Richard Restuccia, Director for Water Management Solutions, ValleyCrest Companies, Inc.*

What if your job description entailed lifting the spirits of thousands of patients, families, physicians, scientists and employees? Not an easy task, but that's exactly what the landscape does at the City of Hope Medical Center. Discover how this unique landscape plays a vital role at this world-renowned cancer research and treatment center. Through sustainability practices like irrigation efficiency, water conservation, plant health, tree care and waste reduction, the landscape is supporting the mission of City of Hope while mindful of the bottom line.

LEARNING OBJECTIVE(S):

1. Discover how this unique landscape plays a vital role at this world-renowned cancer research and treatment center from patient care to a reduced ecological footprint
2. Review the sustainability practices utilized on the campus
3. Review the components of a comprehensive sustainable landscape plan
4. Learn how sustainability can support your facility's mission and when it makes sense from a financial and landscape best practice

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

**T2.41 ■ Room 341**

### Backup Power: How Much and For How Long?

*Bhavesh Patel, Director of Marketing and Customer Support, ASCO Power Technologies*

The impact of Hurricane Sandy yet again gave U.S. power providers

as well as code making bodies a wake-up call and required them to re-think the rules of engagement to keep the economy continuing to thrive immediately after any disaster — manmade or natural. One of those rules of engagement relates to the availability of backup power when normal sources are disrupted. This session will explore the codes that mandate facilities to ensure electrical continuity and investigate whether or not they keep facilities operational during disasters like Sandy. Join the discussion of what could/should be done differently, if anything?

LEARNING OBJECTIVE(S):

1. Review existing codes and requirements for backup power
2. Understand what types of facilities are required to follow codes for proper functioning of our economy
3. Learn best practices and logical decisions necessary for electrical continuity
4. Be able to identify costs of extended outages and how they may impact facility designs

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

**T2.43 ■ Room 343**

### What You Need to Know about Mass Notification

*Jodi Jacobs, Marketing Director, Lencore Acoustics Corp.* *David Smith, Director of Business & Channel Strategy, Lencore Acoustics Corp.*

During emergency events, the dissemination of information is key to life safety. Messages must not only be seen and heard, they must be understood. Mass notification systems have grown to protect us against more than fires, they now provide critical information and directions during dangerous weather, hazardous events and campus emergencies. These messages must also integrate across multiple platforms and include a complete range of communication methods. This presentation will address the critical factors in developing a mass notification and emergency communications system.

LEARNING OBJECTIVE(S):

1. Identify the growing need for MNEC systems
2. Review defining MNEC and NFPA72 code changes
3. Understanding the difference between MNEC and paging systems
4. Setting the criteria for MNEC Systems and key components to building an MNEC system

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**T2.45 ■ Room 345**

### Recruiting and Retaining Multi-Skilled Employees in Today's Skill Gap Crisis

*Bobby Edwards, President, Fusion Institute of Reliability Skills Training*

Many organizations are finding severe shortage of qualified, multi-skilled workers, with the expectation of the shortage to only increase over the next three to five years. As rapid changes are happening in the workplace, talented multi-skilled workers are in high-demand and many jobs go unfilled, even in today's high unemployment climate. As a manager, you need to be able to identify, recruit and retain these in-demand, multi-skilled employees. Attend this session to be able to put a plan in place to help fight the skill gap crisis in your facility.

LEARNING OBJECTIVE(S):

1. Understand the current need and shortage for multi-skilled works in the workforce
2. Review the current skill gap crisis and overall workforce trends
3. Be able to identify, recruit, educate and train multi-skilled employees
4. Learn strategies and tactics to decrease a skill's gap crisis at your facility

AUDIENCE: INTERMEDIATE CEU: 0.1

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## CONFERENCE SESSIONS: Tuesday

Energy Efficiency, Upgrades and Utilities, Technology

**T2.47 ■ Room 347****How Energy Management Technology is Optimizing the Built Environment***Cory Vanderpool, Business Development Director, EnOcean Alliance*

Wireless, self powered building automation and control technology is quickly becoming a go-to solution when it comes to building retrofits. Innovative energy management solutions are revolutionizing the way energy is consumed in universities, hotels, and industrial settings as well as in residential and commercial applications. Learn how incentives can help building owners cover the costs related to their implementation. This presentation aims to identify the importance of building sustainability and provides information about existing state and federal incentives.

## LEARNING OBJECTIVE(S):

1. Understand the advantages of utilizing energy harvesting technologies in buildings for improved energy efficiency
2. Understand the current and future role of energy management technology
3. Discover the benefits of exploring state and federal incentives
4. See real world examples of wireless building controls

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

**T2.49 ■ Room 349****Making the Most of FM Data: COBIE Standards and Resources***Mariangelica Carrasquillo-Mangual, Research Civil Engineer, USACE Research and Development Center**Igor Starkov, President, EcoDomus**Moderator: Angela Lewis, P.E., PhD, LEED AP, Project Manager, Facility Engineering Associates, PC*

This session is part two in a three part series highlighting the benefits of Construction Operations Building Information Exchange (COBie) and Building Information Modeling (BIM), sponsored by NIBS. Looking for ways to reduce costs, but not sure how? Attend this session for practical insights and an overview of resources that will help you better use data and reduce operating costs. After attending this session, attendees will be able to accurately evaluate the resources within an organization and create a plan start. The session will include an overview of an emerging standard to structure facility management data: COBie, as well as a case study of the Federal Aviation Association. .

## LEARNING OBJECTIVE(S):

1. Gain an understanding of what COBie is
2. Learn about resources to help implement COBie, including the COBie Guide and the COBie responsibility matrix
3. Understand the potential for cost savings and improvements by implementing standards and further defining facility management practices
4. Understand why it is important to further utilize CMMS to support high performance facility and maintenance management

AUDIENCE: INTERMEDIATE CEU: 0.1

MARCH **12** Tuesday**11:00-11:50 AM**

Maintenance and Operations

**T3.18 ■ Room 318****10 Tips to Build a Better Maintenance Team***Michael B. Cowley, CPMM, President, CE Maintenance Solutions*

No matter how top-of-the-line your equipment is, no matter how expensive your CMMS system, your success truly depends on the team you've created. Over the last few years new positions are not being created and departments have been slashed. Every single member of your team now needs to be on the top of his or her game to successfully achieve the organization's objectives. Don't despair – there are steps you can take to make sure you have the best maintenance team available. In this session, Mike Cowley will walk you through 10 steps to build a better maintenance team.

## LEARNING OBJECTIVE(S):

1. Understand the biggest hiring hurdles
2. Review interview and hiring tips
3. Learn how to identify gaps in your current departments
4. Understand ways to change behaviors within your existing team

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement

**T3.21 ■ Room 321****Marketing Yourself Beyond LinkedIn***Christopher A. Wade, Principle Consultant, Resilient Critical Facility Solutions*

In today's highly-competitive job market it is not always what you know, but rather who you know. Facilities managers are getting better about marketing the team and department within an organization but typically do not bring those initiatives to the personal level. As a professional, you need to be continually marketing you own talents and successes so you can find the next job opportunity, leadership break or invaluable connection.

## LEARNING OBJECTIVE(S):

1. Understand the true value in networking for career advancement
2. Learn successful ways to market your own talents and successes
3. Review the ways to network and market yourself
4. Be able to identify valuable contacts

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**T3.24 ■ Room 324****Best Practices for EE Program Participation, Breaking Down the Barriers***Brooke Bey Smallwood, Business Development Manager, Lockheed Martin*

This presentation will provide insight on how to proactively participate in Energy Efficiency Programs by overcoming major barriers to participation and learning best practices to navigate through the incentive process. There will be discussion of the unique challenges and barriers federal government faces in accepting incentive funds, and how GSA was able to overcome those barriers. Facility Managers in federal and other sectors, who face similar challenges with procurement and funding dilemmas regarding the acceptance of incentive funds, will find this presentation of particular interest. LEARNING OBJECTIVE(S):

1. Identify EE Program opportunities across the US
2. Understand key features of EE Programs
3. Receive an Implementation Contractor's viewpoint of program design
4. Learn about Best Practices and new innovations in EE Programs

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Systems

**T3.27 ■ Room 327****LED's Deep, Dark Secrets***John Curran, President, LED Transformations, LLC*

Today, everyone seems to be an "expert" in LED technology. Every lighting conference becomes an LED conference with each speaker extolling the virtues of LEDs. In this session, the presenter will look a little deeper into the dark recesses of the LED marketplace to help attendees avoid some

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## CONFERENCE SESSIONS: Tuesday

unfamiliar issues.

LEARNING OBJECTIVE(S):

1. Why equivalence is a misleading term
2. What causes LED drivers to fail
3. Energy savings doesn't always equal cost savings
4. Why lighting controls are especially useful with LEDs

AUDIENCE: INTERMEDIATE CEU: 0.1

Openings: Doors, Windows and Building Exteriors

### T3.30 ■ Room 330

#### The Importance of Openings in the Overall Building Envelope

*David Leslie, Sr. Consultant/Sr. Project Manager, Conley Group*  
The building envelope is a crucial component to operating a high-efficient building and is key to keeping the outside environment out and the inside environment in. However, your tenants and employees need to come and go without many restrictions. Attend this session to learn how to successfully incorporate windows and doors into the overall building envelope plan.

LEARNING OBJECTIVE(S):

1. Understand why the building envelope is a crucial component to operating a high-efficiency building
2. Review how to keep the outside environment out and the inside environment in
3. Learn how to successfully incorporate windows and doors into the overall building envelope plan

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Critical Facilities, Healthcare Facilities Today

### T3.31 ■ Room 331

#### Why to Incorporate Evidence-Based Design into Your Next Project

*Jamie C. Huffcut, NCIDQ, LEED AP ID+C, Project Interior Designer, Perkins+Will*  
*David K. Noji, AIA, EDAC, Senior Medical Planner, University of Maryland Medical Center*  
*Deborah Smith, AIA, ACHA, LEED AP BD&C, Senior Medical Planner, Perkins+Will*

Every project should be designed to achieve the best possible outcomes. Evidence-based design (EBD) is the process of basing decisions about the built environment on credible research to achieve the best possible outcome (The Center for Health Design). Speakers will address why evidenced-based design is important, their role in an EBD project and the benefits of an EBD project.

LEARNING OBJECTIVE(S):

1. Recognize the importance of evidence-based design
2. Discuss the various roles in a project in evidence-based design
3. Determine the benefits a facility can achieve by using evidenced-based design to base decisions about their built environment
4. Understand the benefits the patients, visitors and staff receive from an evidenced-based design

AUDIENCE: INTERMEDIATE CEU: 0.1

Green Standards

### T3.37 ■ Room 337

#### Plumbing Codes: Changes Ahead

*Bill Hoffman, Senior Technical Advisor, Water Management, Inc.*  
This presentation offers a deep dive into the new and emerging plumbing codes developed by the International Code Council (ICC) and the International Association of Plumbing and Mechanical Officials (IAPMO), as well as a discussion of plumbing

and water's role in the latest version of LEED EB-OM. Learn about key changes to these standards, how they will impact water use in a variety of commercial facilities, and ways to monitor and lower water use in your building.

LEARNING OBJECTIVE(S):

1. Review changing codes and standards regarding water use
2. Understand the impact of code and standard changes on water costs
3. Identify the most effective water-reduction strategies

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

### T3.39 ■ Room 339

#### Ensuring a Clean, Healthy and Green Indoor Environment

*Dan Wagner, Director of Facility Service Programs, ISSA*  
When most think about going green, 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 OBJECTIVE(S):

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

### T3.41 ■ Room 341

#### The Basics of Standby Power

*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 OBJECTIVE(S):

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
5. Become familiar with standby power system maintenance requirements

AUDIENCE: INTERMEDIATE CEU: 0.1



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# FIRE PROTECTION FOR PEOPLE AND PROPERTY

Safety and Security, Maintenance and Operations

### T3.43 ■ Room 343

#### How to Manage the ADA

*M. Bradley Gaskins, AIA, CASp, COO, Partner, The McIntosh Group*

Most businesses are aware of the American with Disabilities Act (ADA), but many wonder how it applies to them and feel overwhelmed by the requirements. Failure to comply could lead to serious penalties. Nearly half of the new ADA regulations that took effect on March 15, 2012 will directly affect businesses. In addition, the Department of Justice has increased enforcement of ADA regulations, forcing businesses to pay large sums of money on litigation. This session is designed to help you navigate and understand the new ADA regulations, begin the process of compliance and become proactive instead of reactive.

LEARNING OBJECTIVE(S):

1. Learn the risks of not complying with the ADA
2. Recognize specific barriers that may exist in your facilities based upon ADA Standards
3. Discover how to address the ADA to reduce risk and compliance cost
4. Develop your ADA barrier removal plan

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations, Systems

### T3.45 ■ Room 345

#### The New Standards and New Approaches to Controlling Legionella in Water Systems

*Janet Stout, PhD, Director, Special Pathogens Laboratory*

Confused about what to do about Legionella, recommendations for testing, and the facts about disinfection systems? New proposed Legionella standards will be reviewed, including water safety plans. Results of scientific evaluations of efficacy of disinfection approaches for controlling Legionella will be reviewed, including a new monochloramine onsite generation system. Learn more about the essential role Legionella testing and monitoring plays in keeping your building water systems safe.

LEARNING OBJECTIVE(S):

1. Understand how proposed Legionella standards from ASHRAE and the Cooling Technology Institute could impact you and your liability
2. Learn more about Legionella testing, water safety plans and hazard analysis (HACCP)
3. Understand the pros and cons of the major Legionella disinfection technologies and the science behind them
4. Learn about a new onsite monochloramine generation system for controlling Legionella in hot water systems

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### T3.47 ■ Room 347

#### Avoiding Moisture-Related Issues with Floor Finishes on Concrete Slabs

*David S. Slick, P.E., Associate Principal, Simpson, Gumpertz & Heger Inc.*

Most facility managers have or will encounter issues with the installation of moisture-sensitive floor finishes on concrete slabs. This is a scheduling and cost issue affecting many new and renovation construction projects. Moisture-related flooring failures are becoming commonplace, and the importance and complexity of concrete moisture testing is frequently ignored. Attend this session to learn how to avoid flooring failures, stay on schedule, and mitigate elevated levels of moisture in concrete.

LEARNING OBJECTIVE(S):

1. Review firsthand knowledge and testing experience of moisture-

related flooring issues

2. Discuss interpretation and understanding of governing industry standards
3. Learn about effective means to reduce the overall impact of floor and moisture issues on a project

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### T3.49 ■ Room 349

#### CMMS, CAFM, IWMS Questions Answered

*Angela Lewis, P.E., PhD, LEED AP, Project Manager, Facility Engineering Associates, PC*

Ever wish your computerized maintenance management system (CMMS), computer aided facility management system (CAFM) or integrated work management system (IWMS) had more data? That the data was more accurate? The software was further utilized? That not as much manual data entry was not required? Or, know how to make the business case to further utilize facility management software? Then this session is for you. This session will feature a panel of software vendors who will answer questions such as these by demonstrating how their software complies with the construction operations building information exchange (COBie), an international data standard.

LEARNING OBJECTIVE(S):

1. Gain insight about how to make a business case for further utilization of CMMS, CAFM and IWMS software
2. Become aware of what CMMS, CAFM and IWMS software products are COBie compliant
3. Understand why COBie is a valuable standard to support the further population of CMMS, CAFM and IWMS software
4. Learn about the potential cost savings of COBie compliant software

AUDIENCE: INTERMEDIATE CEU: 0.1

MARCH **13** Wednesday

9:00-9:50 AM

Energy Efficiency, Upgrades and Utilities, Maintenance and Operations

### W1.18 ■ Room 318

#### Hunger Games: How to Curb Your Building's Appetite for Energy

*Michael C. English, PE, CCP, LEED-AP, Senior Partner, Horizon Engineering Associates*

Retro-commissioning and energy auditing are both processes that offer an organized approach to diagnosing and providing solutions for operating problems within existing facilities and their systems. These processes also determine opportunities for increased energy efficiency and reduced operating costs. This session will review the retro-commissioning and energy audit process and focus on a case study, where retro-commissioning and energy audit services provided an aging museum facility with over \$500,000 of annual energy savings with a simple payback of 3.83 years.

LEARNING OBJECTIVE(S):

1. Define what retro-commissioning and energy audits are
2. Describe the benefits of the retro-commissioning and energy audit process
3. Identify energy conservation measures as it applies to their





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- facilities through a detailed case study
4. Evaluate if retro-commissioning and/or energy auditing is a right fit for their needs
- AUDIENCE: BEGINNER CEU: 0.1

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Energy Efficiency, Upgrades and Utilities

**W1.24 ■ Room 324**

**Smart Buildings: The Next Generation of Green – High Tech & Adaptive**

*Casey Talon, Research Analyst, IDC Energy Insights*

Smart building technologies help FM professionals improve business outcomes, customer relationships, and direct operational efficiency. These solutions bring unprecedented visibility into asset operations and facility utilization to identify new, low cost, high return opportunities for efficiency, sustainability, and tenant attainment/retention. This presentation will highlight the functionality of solutions available today and how these technologies deliver productivity improvements, reduce operating budgets, and increase profitability.

LEARNING OBJECTIVE(S):

1. Learn what defines a true smart building lighting, HVAC, plug load and fire/life/safety solution
2. Learn how to evaluate the maturity of various solutions available today
3. Learn how smart building analytics and data management help measure, monitor, control and optimize facility operations and maintenance to achieve goals while improving the bottom line

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building, Technology

**W1.27 ■ Room 327**

**Automatic Control of Natural Ventilation**

*Steve Tom, P.E., PhD, Director of Technical Information, Automated Logic Corp.*

For thousands of years natural ventilation was the dominant, and often the only way to ventilate buildings. That changed with the advent of mechanical air conditioning. Now designers recognize the energy and sustainability benefits of natural ventilation, and they are designing buildings to automatically control this ventilation. This presentation will look at the control system design of some existing and upcoming buildings, will show how natural ventilation interacts with the mechanical heating and cooling systems, and will highlight problems that have kept some buildings from reaching their full potential.

LEARNING OBJECTIVE(S):

1. Understand how a typical natural ventilation systems works
2. Understand examples of how automatic controls have been applied to natural ventilation
3. Know how natural ventilation interacts with mechanical heating and cooling systems
4. Be aware of common problems/pitfalls that can degrade the performance of natural ventilation systems

AUDIENCE: INTERMEDIATE CEU: 0.1

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Healthcare Facilities Today

**W1.30 ■ Room 330**

**Healthcare Facility Management Compliance**

*David Stepelevich, CHFM, Vice President, Healthcare Building Solutions*

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

Hospitals and healthcare facilities have always been required to meet federal, state, and local requirements for compliance with

codes and standards. 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 OBJECTIVE(S):

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

AUDIENCE: INTERMEDIATE CEU: 0.1

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Green Standards

**W1.37 ■ Room 337**

**LEEDv4: Current Status and Important Updates**

*Doug Gatlin, Vice President, Market Development, U.S. Green Building Council*

Like all LEED programs, LEED v4 aims to drive market transformation by providing a platform of resources including the rating system, reference guides and an online review system. Attend this session to hear directly from USGBC about the updates, changes and new market sectors specifically addressed in LEED v4.

LEARNING OBJECTIVE(S):

1. Understand the three main outcomes of the LEED resources:
2. Learn about the two main strategic shifts represented by LEED v4
3. Be able to identify the new market sectors specifically addressed by v4
4. Understand the two main phases LEED v4 for EB:O&M rating system is broken out

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building

**W1.39 ■ Room 339**

**New Green Floor Coverings, Backings and Installation Technology**

*Lewis G. Migliore, President, LGMTCS and Associates*

This program will cover information on the most common flooring failures today; compromising substrate conditions such as moisture, alkalinity, curing agents, highly burnished concrete and surface treatments, flame retardants and insecticides on wood. It will also cover new green carpet backings and technology for combating compromising installation issues.

LEARNING OBJECTIVE(S):

1. Review the most common flooring failures
2. Learn about new backing technologies
3. Learn about new installation technology that is not affected by substrate issues
4. Understand how to minimize mitigation expense

AUDIENCE: ADVANCED CEU: 0.1

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Power: Generation and Reliability, Critical Facilities

**W1.41 ■ Room 341**

**Modular vs. Component Standby Power Systems**

*Don Bachman, Executive Director, Mission Critical Data Centers, ASCO Power Technologies*

Capital expenditure reductions, operating expenditure restrictions

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## CONFERENCE SESSIONS: Wednesday

and speed-to-market have a profound impact on today's design and construction of facilities. As a result, containerized infrastructure and modular building construction have become popular, especially for critical facilities and data centers. This leads to a more modular design approach vs. the traditional component design for standby power systems. Modular standby power systems have benefits but they also have limitations and potential pitfalls. Attend this session to better understand the consideration that needs to be given to "right sizing" the power systems while absolutely maintaining capacity and availability.

## LEARNING OBJECTIVE(S):

1. Learn how to evaluate single line diagrams and elevation views for modular and component power systems
2. Understand how to compare conceptual and economic features
3. Discuss the reliability and redundancy characteristics of each
4. Be able to include code and regulatory considerations in the evaluations

AUDIENCE: INTERMEDIATE CEU: 0.1

## Safety and Security

**W1.43 ■ Room 343****Building a Viable Enterprise Risk Program**

*Robert Lang, Assistant Vice President, Strategic Security and Safety, Kennesaw State University*

Today's facilities, including educational institutions of all levels, strive to ensure the safety and security of all their constituents, including students, faculty, staff and visitors. However, in doing so, many leave out critical components involving risks, risk assessments and ensuring business (prime directive) continuity initiatives and plans/procedures are in place. This session discusses developing a baseline emergency operations plan, then moves into business continuity, which then evolves into a comprehensive enterprise risk management plan for any business or institution.

## LEARNING OBJECTIVE(S):

1. Understand the aspects of an enterprise risk management program
2. Learn how business continuity and emergency planning efforts into a holistic approach to crisis management

AUDIENCE: INTERMEDIATE CEU: 0.1

## Leadership and Career Advancement

**W1.45 ■ Room 345****Workplace Issues for 2013**

*John E. Cruickshank, Attorney, Alaniz & Schraeder*

Join an expert labor and employment attorney as he outlines real world ways employers can remain in compliance and steer clear of legal trouble. The session will provide an overview of the recent regulatory onslaught including the National Labor Relations Board, Office of Federal Contract Compliance Programs, Agency Driven Lawsuits & Actions and Immigration & Customs Enforcement. This session will also review best practices for mandatory arbitration, employment policies, and training.

## LEARNING OBJECTIVE(S):

1. Have an overview of strategic outlook for 2013
2. Review 2013 new developments with the NLRB
3. Learn how to stay afloat using best practices
4. Learn how to effectively implement a social media policy

AUDIENCE: INTERMEDIATE CEU: 0.1

## Critical Facilities

**W1.47 ■ Room 347****Mission Critical Facilities: FM to IT, Can We Talk?**

*R. Stephen Spinazzola, PE, LEED AP, Vice President, RTKL*

When a data center is being designed, it is increasingly important to have both facility management and IT involved in the process. Why? The simple answer is informed decision-making. With input from both groups, design decisions can be made with the combined interests of facility management and IT in mind.

## LEARNING OBJECTIVE(S):

1. Develop a mutual appreciation of the challenges they face and how those challenges differ between each discipline
2. Explore and come to appreciate their interdependencies
3. Emphasize what results have to be achieved prior to applying possible solutions
4. Consider different ways to address risks such as operations and maintenance improvements instead of infrastructure investments

AUDIENCE: INTERMEDIATE CEU: 0.1

## Leadership and Career Advancement

**W1.49 ■ Room 349****Catching Flies with Honey: Civility in Facilities Management**

*Stormy Friday, President, The Friday Group*

Most FM organizations do not realize that in addition to individuals identified as true customers, consequential strangers play a significant role in the organization's success. Research has demonstrated the need for FM organizations to become more civil in their dealings with internal staff, as well as, in their dealings with consequential strangers. Assessing an FM organization's civility is critical to creating a long-term strategy for harnessing the power of consequential strangers.

## LEARNING OBJECTIVE(S):

1. Determining the importance of consequential strangers in FM
2. Understanding why civility is a good FM business strategy
3. Assessing the degree to which FM organizations are civil internal and to consequential strangers
4. Creating a consequential strangers power strategy

AUDIENCE: ADVANCED CEU: 0.1

MARCH **13** Wednesday

**10:00-10:50 AM**

## Maintenance and Operations

**W2.18 ■ Room 318****Inspection Routes: Backbone of a Reliability Program**

*Kate Kerrigan, Reliability Engineer, Allied Reliability*

What does it take to build a good route? Inspection or preventive maintenance routes are often the backbone which we build our reliability programs. This session will cover how to build a route to get consistent asset health readings by every qualified person who runs it.

## LEARNING OBJECTIVE(S):

1. Review the purpose of route inspections
2. Learn how to optimize route length
3. Understand how to optimize route layout
4. Be able to process to ensure action on route findings

AUDIENCE: BEGINNER CEU: 0.1

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Leadership and Career Advancement

**W2.21 ■ Room 321****Success in FM...The Necessary Ingredients**

*Teena Shouse, Senior FM Consultant, Facility Engineering Associates*

There are six key ingredients in the recipe of personal success and growth in the field of facility management. They are: strong leadership, investing in your people, consistent relevant learning, being a change agent, the ability to bravely face real challenges, and to dream as a futurist.

LEARNING OBJECTIVE(S):

1. Explore how you can identify and cultivate each of these attributes in yourself
2. Create a personal roadmap to continuous growth and true satisfaction in the facility management profession
3. Explore the current trends and future outlook in FM

AUDIENCE: BEGINNER CEU: 0.1

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Energy Efficiency, Upgrades and Utilities

**W2.24 ■ Room 324****Getting Things Done: Free Energy Tools and Resources**

*Angela Lewis, P.E., PhD, LEED AP, Project Manager, Facility Engineering Associates, PC*

Having the right tool to do the job is a key to success. However, finding the right tool or information can sometimes be a challenge. This presentation will provide a practical overview of free tools and resources that can be used for day-to-day facility management decisions to support process improvements, calculate energy savings and simply "just get things done." A few of the free tools discussed will include ENERGY STAR Portfolio Manager, a calculator to estimate water and cost savings when installing water efficient fixtures and a tool to help select more energy efficient windows.

LEARNING OBJECTIVE(S):

1. Gain awareness of free tools that can be used by facility managers and building engineers to estimate energy savings
2. Learn how benchmark building energy performance using ENERGY STAR Portfolio Manager
3. Gain awareness of high performance buildings sustainability and energy efficiency resources
4. Learn how to get started using the tools and resources discussed

AUDIENCE: BEGINNER CEU: 0.1

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Systems

**W2.27 ■ Room 327****Lighting Retrofits: A Smarter Facility Management Option**

*Kurt Vogel, Director of Product Development, RELIGHT, Lithonia Lighting, an Acuity Brands company*

With rising energy costs, renewed focus on efficiency and growing availability of utility rebates, lighting retrofits are an intelligent solution now more than ever. Simply replacing lamps and ballasts may decrease energy use, but the lighting quality will remain the same. The latest retrofit lighting technology — including high performance LEDs — can deliver the appearance of a complete lighting renovation without breaking the ceiling plane. This allows facilities to achieve true upgraded lighting quickly, easily and without much mess. This presentation addresses new lighting retrofit technology, benefits of retrofitting the right way and key considerations when selecting a retrofit lighting solution.

LEARNING OBJECTIVE(S):

1. Learn why retrofits are a smarter and more attractive lighting solution now than ever before
2. Explore the reason why one-to-one retrofits are a smarter long-

- term solution than simply replacing lamps and ballasts
3. Discover how current retrofit technology/solutions including LEDs and controls options increase payback
4. Learn key considerations when specifying lighting retrofit solutions

AUDIENCE: INTERMEDIATE CEU: 0.1

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Green Standards, Healthcare Facilities Today

**W2.30 ■ Room 330****The Anatomy of a Healthy Healthcare Building**

*Lorraine Doo, MPA, LEED AP, Partner, Doo Consulting  
Peter Doo, FAIA, LEED AP, Partner, Doo Consulting*

There is a growing understanding that the materials used in buildings contribute to the quality of life for the building occupants, in unseen but very powerful ways. Several groups publish red lists, materials of concern, or precautionary lists of chemicals used in building products. Most of the substances on these lists are there for obvious reasons, other red-listed chemicals and materials might be confusing because we often do not think of the items on them as very toxic - items such as copper or neoprene or boric acid. This session will talk about the products we have and use in our buildings, how to research them, how to find alternatives, and how to effect change.

LEARNING OBJECTIVE(S):

1. Understand the rationale behind the creation of the red list and the EPA's list of chemical's of concern
2. Become knowledgeable about the Living Building Challenge and how some of the imperatives can be applied to healthcare facilities
3. Learn about some of the design technologies and strategies hospitals must apply to achieve LEED certification and the creative thinking this requires for design teams in hospital facilities
4. Be able to identify the types of financial and health benefits that can be attained by implementing sustainable design techniques

AUDIENCE: INTERMEDIATE CEU: 0.1

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Green Standards

**W2.37 ■ Room 337****Trials, Tribulations and Recommendations for LEED EB O&M Ventilation Prerequisite**

*Christopher Ashworth, Director Business Development, Healthy Buildings*

This team of experts will provide information ranging from the basic intent of EQp1 and the difficulty in measuring outdoor air ventilation (academic and lessons learned), through documentation issues associated with LEED online and interpretations of ASHRAE 62.1.2007 displaying the balance between new construction design and the existing building measurements.

LEARNING OBJECTIVE(S):

1. Identify common pitfalls in achieving EQp1 and ways to avoid them
2. Explain the difficulties in measuring and calculating the minimum outside air in commercial buildings
3. Discuss recommendations to improve the quality of EQp1 achievement and documentation

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building

**W2.39 ■ Room 339****Ecologically Sustainable Development: The Future of Landscape Management**

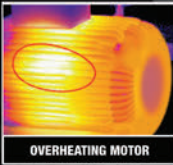
*Scott C. Scarfone, ASLA, Principal and Founder, Oasis Design Group  
Movements with The Sustainable Sites Initiative and the LEED*



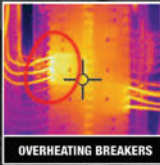
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The thermal images shown are for illustrative purposes only.

## CONFERENCE SESSIONS: Wednesday

rating system are fundamentally changing the way designers and developers are building in the landscape. How are these trends going to impact your facilities? Many jurisdictions now mandate more stringent stormwater management practices to protect local waters along with other sustainable policies. The session explores how ecology and nature's processes influence current trends in landscape planning and design. Scarfone presents his recent award-winning work in these areas and shares his ideas on what the future landscape aesthetic might look like at your facility.

## LEARNING OBJECTIVE(S):

1. Understand how The Sustainable Sites Initiative, LEED and state acts like Maryland's Stormwater Management Act of 2007 are changing facilities' landscapes
2. Learn about Ecologically Sustainable Development and how natural techniques can recharge stormwater runoff
3. Understand how water and its use and treatment will influence all land/site development decisions
4. Gain insight into what the new sustainable landscape aesthetic might look like in the future

AUDIENCE: INTERMEDIATE CEU: 0.1

Critical Facilities, Power: Generation and Reliability

**W2.41 ■ Room 341****Load Banks: Generating Success***Clayton Taylor, Chairman of the Board, ComRent*

This presentation will focus on the benefits of using load banks to commission and test back-up generators in mission-critical installations, including data centers, waste water treatment plants and healthcare.

## LEARNING OBJECTIVE(S):

1. Learn how to develop long-term strategies to prevent power outages in your building through commissioning and testing your emergency backup systems
2. Review the increasingly important role of load banks in the design and build phases of a high-performance building
3. Understand why more facilities managers, power engineers and commissioning professionals are turning to load banks to ensure that generators and backup systems are ready to jump into action when they're needed most

AUDIENCE: ADVANCED CEU: 0.1

Safety and Security

**W2.43 ■ Room 343****Overview of Fire Protection and Life Safety Construction***M. Steve Welsh, PE, Registered Fire Protection Engineer, Koffel Associates, Inc.*

This presentation will address different types of fire protection and life safety construction. Topics of discussion will include logistics, spray-on fireproofing, fire-rated construction, firestops, fire joints, sprinkler systems, fire doors and fire dampers. Methods of installation will be highlighted. Typical deficiencies will also be analyzed. This session will provide practical discussion with pictures and real life examples.

## LEARNING OBJECTIVE(S):

1. Become familiar with different types of fire protection and life safety construction
2. Increase awareness of installation practices
3. Identify basic deficiencies

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**W2.45 ■ Room 345****Parametric Deferred Maintenance Estimating***Frank Kaleba, Senior Engineer, R&K Engineering*

Estimating the backlog of maintenance is often time consuming and resource intensive. A parametric approach to this task can save time and provide results that are sufficiently accurate to defend budget requests, and identify trends.

## LEARNING OBJECTIVE(S):

1. Describe why parametric deferred maintenance estimating is important
2. Explain the major elements of a parametric estimating system
3. Demonstrate how this can be implemented
4. Summarize the main elements and pro's and cons

AUDIENCE: ADVANCED CEU: 0.1

Technology

**W2.47 ■ Room 347****Intelligent Facility System Management***Tom Rule, Product Manager, Siemens Building Technologies*

Technology is evolving rapidly, and facility managers are confronted with increasing amounts of complex information to manage. In this environment, a new breed of tools is required to support intelligent automated facility control, accurate response to critical alarms and events, and improved long term decision making to drive energy efficiency and cost reduction. Learn what these new tools can do, and what's important to consider as you investigate solutions to help your facilities run more intelligently.

## LEARNING OBJECTIVE(S):

1. Review how the pace of technology is changing facility management
2. Understand how information from a wide variety of sources impacts your operations
3. Learn what's important when evaluating integrated facility management systems
4. Review examples of how integrated systems can cost-effectively improve occupant comfort, safety, and security

AUDIENCE: INTERMEDIATE CEU: 0.1

MARCH **13** Wednesday

**3:10-4:00 PM**

Technology

**W3.18 ■ Room 318****A Road Map for Lifecycle BIM***Brian Haines, Director of Marketing, FM: Systems*

Even with all the information available on BIM, it's not always clear how facility managers can realize the value of this new technology. What's in it for us? How do you develop a BIM strategy? Are there any best practices? Marty is the vice president of BIM initiatives at FM:Systems, where he communicates daily with facility managers developing their strategies for leveraging BIM data to support FM processes. In this presentation, Marty will present their stories and challenges, the results they are getting, and the lessons learned along the way as they use BIM to solve real-world facility management challenges.

## LEARNING OBJECTIVE(S):

1. Learn more about BIM technology
2. Understand how BIM can benefit facility managers



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## CONFERENCE SESSIONS: Wednesday

3. Review best practices in making a BIM project successful
4. Learn the importance of communicating with their AEC firms  
AUDIENCE: INTERMEDIATE CEU: 0.1

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Leadership and Career Advancement

**W3.21 ■ Room 321****The “New Business” of FM: Becoming a Value Add Leader**

*Dean Kashiwagi, PhD, P.E., Professor and Director of the Performance Based Studies Research Group, Arizona State University*  
Who is the performance based FM professional? When will the FM not be looked at as a cost, but a value added business leader? How can the FM control the entire supply chain? The FM of the future uses dominant performance measurements that identify and ensure performance and value. The FM can no longer do the same job and expect different results. Neither can large outsourced FM services do business as usual. There is not enough funding to be inefficient. Dean gives examples of how the FM can change their situation from being a cost, to increasing value. Amazingly, the process makes the FM a business leader who enforces FM performance, accountability and low risk. Dean will give the latest example of application in the federal government in DC.

LEARNING OBJECTIVE(S):

1. Understand how to become a value added business leader
2. Be able to change from being a cost to increasing value
3. Review how to enforce FM performance, accountability and low risk

AUDIENCE: INTERMEDIATE CEU: 0.1

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Energy Efficiency, Upgrades and Utilities

**W3.24 ■ Room 324****Energy Efficiency for the Long Haul: How to Put Your Plan Into Action**

*B. Alan Whitson, President, The Corporate Realty, Design & Management Institute*

In today's uncertain economic climate, how can you feel confident in putting together an energy plan for the long term? By doing what you can today with what you've got – and by effectively communicating to upper management the consequences of proactive decisions, delayed decisions, and no decision at all. Attend this session to learn about how to manage the energy use of today – and tomorrow – and ensure that your facility's energy plan is fully fleshed out, forward-looking and flexible.

LEARNING OBJECTIVE(S):

1. Learn how to evaluate sustainable energy strategies for use in a variety of facilities
2. Ensure that your facility's energy plan is as effective – and efficient – as possible
3. Calculate and communicate key aspects of energy management costs and benefits to senior management

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building, Systems

**W3.27 ■ Room 327****Sustainable HVAC Design and Operation: The Myths and the Magic**

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

The presentation will highlight some of the common misconceptions and incorrect assumptions in the application of sustainable design concepts, which can significantly impact the performance and operating efficiencies of these systems. We will review actual operating data from multiple system types including

VAV, fan coils, water-source heat pumps, packaged equipment, and a wide range of central plant designs. Innovative design concepts including geothermal applications, ice storage systems, hybrid chiller plants, radiant heating and cooling, and under-floor distribution will also be discussed.

LEARNING OBJECTIVE(S):

1. Understand the real world performance of many sustainable design concepts
2. Learn some of the common misconceptions and incorrect assumptions in the application of sustainable design concepts
3. Review actual operating data from multiple system types including VAV, fan coils, water-source heat pumps, packaged equipment, and a wide range of central plant designs
4. Develop a methodology for evaluating alternative system designs and sustainable concepts

AUDIENCE: BEGINNER CEU: 0.1

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Green Standards

**W3.37 ■ Room 337****LEED: the Good, the Bad, the Ugly**

*Mark Lentz, P.E., President, Lentz Engineering Associates, Inc. Lawrence G. Spielvogel, P.E., Consulting Engineers*

This presentation looks at “sustainable” perceptions about LEED and green projects. Proponents claim the benefits, but almost never provide measured data. How does green building performance compare with other new buildings? Does achieving LEED certification mean green buildings provide good energy and IAQ performance? Information on some widely publicized and high profile green buildings will be provided.

LEARNING OBJECTIVE(S):

1. Understand ASHRAE requirements for LEED Certification
2. Review common failures to achieve LEED Certification
3. Identify risks for participants in green buildings
4. Learn LEED facts and fiction

AUDIENCE: INTERMEDIATE CEU: 0.1

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Greening an Existing Building

**W3.39 ■ Room 339****Positive Paybacks for Green Buildings**

*Pete Arnoldt, Sales Consultant, RCx Building Diagnostics Katie Flynn, Energy Engineer, RCx Building Diagnostics Cindy Bittel, Business Development Manager, RCx Building Diagnostics*

You probably already know that high performance buildings experience quick-absorption periods, attract and retain high-quality tenants, achieve competitive rents, and have higher-than-average levels of occupancy. But, did you know green buildings typically achieve a 6.6 percent overall return on investment by implementing green strategies that achieve positive paybacks? In fact, a 2011 study titled *The Economics of Green Building* found on average every dollar of energy savings yields a 3.5 percent rent premium and a 4.9 percent boost in market value. Find out how incorporating an energy management program into your building's master plan increases value and reduces operating expenses.

LEARNING OBJECTIVE(S):

1. Learn the importance of and the critical elements necessary to develop a successful energy management plan
2. Learn how to put your plan into action through energy audits, retrocommissioning and other means and start treating your utilities as a controllable cost
3. Review how to make a business case for energy efficiency and sustainability to those at the C-suite level within your

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organization

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

### W3.41 ■ Room 341

#### Remote Diagnostics and Failure Prevention on Standby Generator Systems

*Harold Jarrett, Founder and Vice President, OmniMetrix LLC*

Most emergency generator failures are caused by consumables, such as battery, fuel, oil, and water. Monitoring the consumption of these and other key performance parameters can provide critical insight for diagnostic processes, and can be the basis of failure prevention techniques. The presentation will review the use of engine data in remote diagnostic and prognostic programs.

LEARNING OBJECTIVE(S):

1. Be able to identify the most common failure modes for standby generator systems
2. Learn how to use remote monitoring to verify generator performance
3. Understand how to use remote data to manage an emergency power system for failure avoidance

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building

### W3.43 ■ Room 343

#### Energy Efficiency and Indoor Air Quality: Success at ASHRAE Headquarters

*Duke Wisser, President, Dynamic Air Quality Solutions*

Facility managers expect more from their buildings today — better indoor air quality, but less energy consumption. In 2008, officials at ASHRAE Headquarters in Atlanta completed a renovation that transformed their two-story office building into a living lab for the HVACR engineering community. The renovated LEED® Platinum facility now has a number of sustainable features that optimize indoor air quality while providing considerable cost savings. Attendees will discover how the same HVAC design and delivery solutions at the ASHRAE Headquarters can significantly reduce their own energy consumption and operating costs.

LEARNING OBJECTIVE(S):

1. Review solutions for the issues facility managers are currently facing (High IAQ = high cost/energy)
2. Learn methods for improving indoor air quality and reducing energy costs
3. Understand how to leverage technology to meet demands for a sustainable high-performing facility
4. Review quantifiable benefits (return on investment cost energy savings) citing specific real-world examples from ASHRAE headquarters

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

### W3.45 ■ Room 345

#### So You Think You Know Your MSDS

*Bill Fellows, Green Cleaning Advisor, Bill Fellows Consulting*  
MSDS training can be extremely difficult on several levels. OSHA mandates the information to be on an MSDS, but the formatting varies. The focus of most training is on where emergency information is located and students don't get the real benefit from the information on the MSDS. This presentation focuses on how to make the information interesting so students will retain and use the information.

LEARNING OBJECTIVE(S):

1. Understand the Global Harmonized System (GHS) and planned implementation timeline

2. Understand many terms used on an MSDS that are commonly misunderstood
3. Understand how to conduct training sessions that will hold interest and increase appreciation on an MSDS
4. Understand how to use the information on the MSDS for storage of chemicals and how to set up an MSDS book for maximum benefit

AUDIENCE: INTERMEDIATE CEU: 0.1

Critical Facilities

### W3.47 ■ Room 347

#### Data Center Efficiency Deployed

*Mark S. Evanko, Principal, BRUNS-PAK,*

This session addresses the most recent "state of the art" facility infrastructure efficiency deployments (construction projects completed) that include mechanical heat wheel, electrical 400v distribution, data center information management (DCIM), the impacts of ASHRAE 9.9 and the evolution of "tiered" computing equipment. These systems have been deployed and operating in a modular, scalable, and flexible fashion that optimize the PUE consideration. The presentation encompasses REVIT and the coordination of CFD modeling. A financial case study and schedule are provided.

LEARNING OBJECTIVE(S):

1. Understand the impact/advantages of heat wheels to the data center
2. Review the impacts/advantages of 400v distribution to the data center
3. Identify the impact/advantages of DCIM

AUDIENCE: ADVANCED CEU: 0.1

Leadership and Career Advancement

### W3.49 ■ Room 349

#### Women in Facilities Management 2013

*Lesley Groff, Facility Manager, The Hershey Company*

*Teena Shouse, Senior FM Consultant, Facility Engineering Associates*

*Gabriela Stephenson, Vice President, Brand Management Facility Solutions and CTM, Sodexo Healthcare*

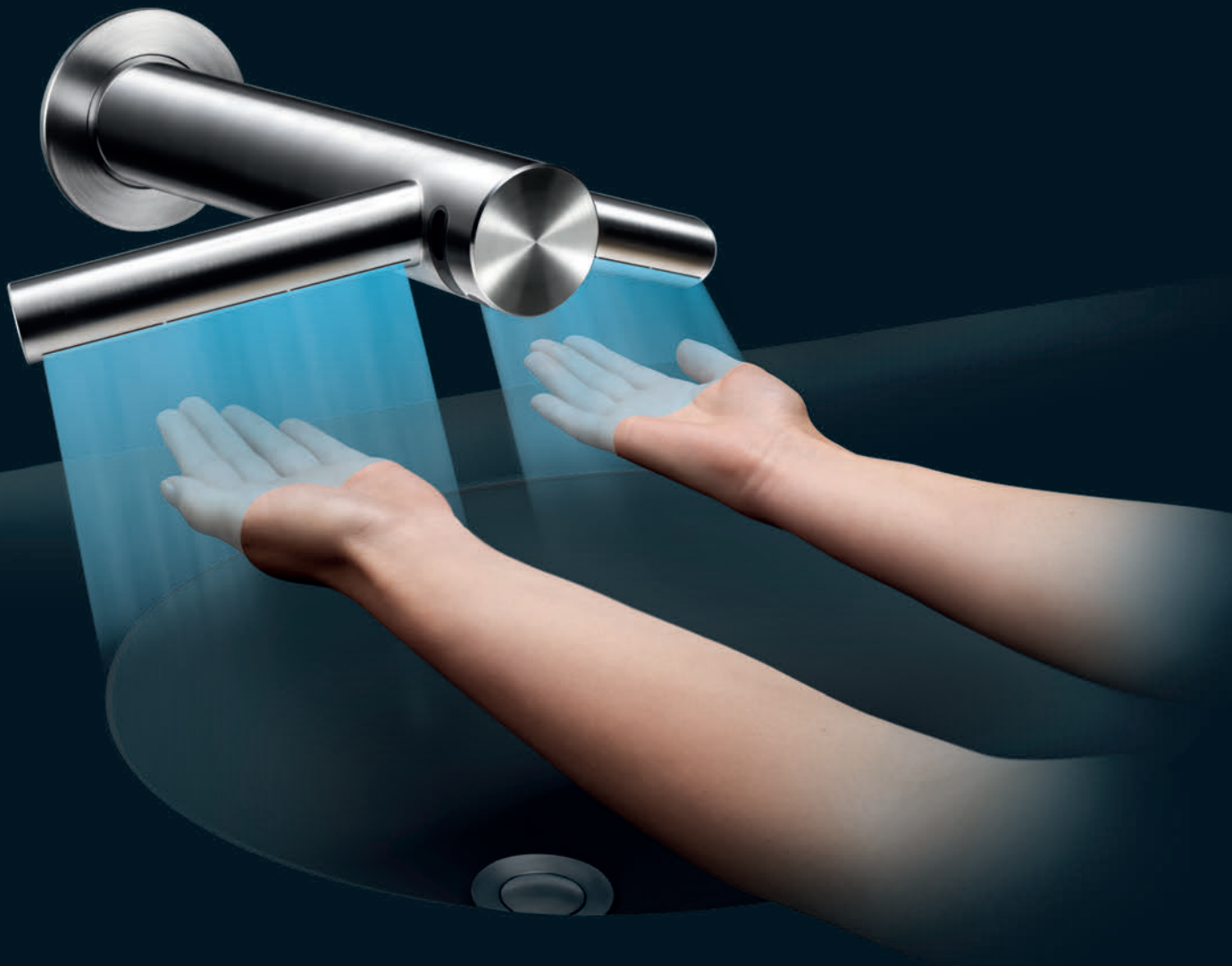
Women in Facilities Management Roundtable and Reception is sponsored by Sodexo.

The Women in Facilities Management session is a frank discussion with the industry's leaders centered on the pros and cons of being a female in this male-dominated industry. This year's session draws panelists who have global facilities management perspective and will bring unique perspectives to the issues of career advancement, mentorships and work-life balance. This exclusive session is formatted to maximize audience participation and allow for a highly interactive group discussion. All session attendees are invited to a reception at the conclusion of the session.

LEARNING OBJECTIVE(S):

1. Interact with others about the pros and cons of being a woman in facilities management
2. Discuss best practices and suggestions for career advancement
3. Review the importance of networking and mentoring others
4. Understand how to attract and retain other females in facilities management

AUDIENCE: INTERMEDIATE CEU: 0.2

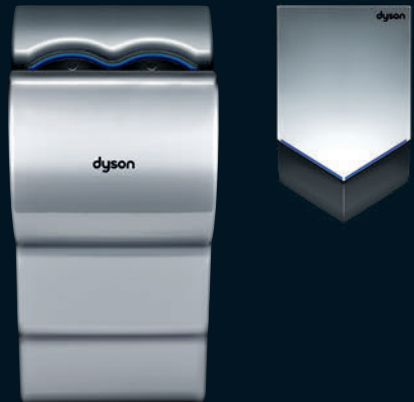


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MARCH **13** Wednesday

**4:10-5:00 PM**

Healthcare Facilities Today

**W4.30 ■ Room 330**

### Lighting Updates for Healthcare Facilities

*Karyn Gayle, Vice President of Healthcare, Acuity Brands*

Lighting plays a crucial role in healthcare environments, supporting visual and other biological systems. Integrated state-of-the-art luminaires, daylighting, and controls systems deliver an effective lighting design that can play an important part in enhancing patient experience, caregiver productivity, and the environmental sustainability of a healthcare facility. The presentation will explore the most current lighting guidelines for healthcare buildings, new lighting and controls technologies, and lighting strategies to help realize holistic operational objectives.

LEARNING OBJECTIVE(S):

1. Understand the lighting requirements for key applications in a hospital
2. Understand the characteristics of lighting and controls technologies used in healthcare settings
3. Compare and evaluate quantitative and qualitative examples of various lighting technologies in renovation scenarios
4. Determine viable options for renovation of healthcare spaces to address energy consumption, maintenance, safety and reliability, and visual experience

AUDIENCE: INTERMEDIATE CEU: 0.1

Green Standards

**W4.37 ■ Room 337**

### Rooftop Solar: The Good, The Bad and The Right Way!

*James R. Kirby, Vice President of Sustainability, The Center for Environmental Innovations in Roofing*

James Kirby, AIA, CEIR's VP of sustainability will present current industry guidelines for appropriate rooftop solar (photovoltaic) installations. Kirby will also provide photographs of current trends and products, and he will offer opinions of what works and what could be improved to achieve long-term, cost-effective solutions for rooftop PV systems. Discussions about life-cycle costs, and roof system and PV maintenance will be incorporated.

LEARNING OBJECTIVE(S):

1. Learn about current roofing industry guidelines for rooftop solar installations (photovoltaic systems)
2. Review roofing manufacturers' requirements when rooftop photovoltaic installations are installed on existing roof systems
3. Understand current rooftop photovoltaic practices—what works and what doesn't work from the roof's perspective
4. Learn about long-term, practical solutions for rooftop photovoltaic installations, including worker training and maintenance issues

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations, Systems

**W4.39 ■ Room 339**

### Testing Adjusting and Balancing to Create a High-Performance Building

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

The best designed building cannot achieve design intent without proper testing, adjusting and balancing (TAB) of the HVAC system. This presentation will discuss what TAB is and how the building design impacts TAB. Attendees will receive quantitative examples of how TAB impacts the operating budget; highlight the importance of a properly executed proportional TAB procedure; and how to specify TAB using Masterformat 2004 Division 23 - heating, ventilating, and air-conditioning.

LEARNING OBJECTIVE(S):

1. Understand what is TAB, how often it should be performed and by whom
2. Realize the impact of TAB on your operating budget
3. Understand importance of proportional balancing
4. Learn how to specify TAB using Division 23

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

**W4.43 ■ Room 343**

### Disaster Recovery: Being Ready for Whatever Happens

*John Sooker, National Accounts Division Manager, Servpro Industries, Inc.*

No one is exempt from dealing with a disaster and it can happen at any moment. You can either be proactive or reactive to any disaster — but being proactive is key. This session will provide helpful information in the categories of proactive measures, including business continuity plans, emergency response preparedness, important factors to consider when choosing a mitigation vendor, and examine proactivity vs. reactivity.

LEARNING OBJECTIVE(S):

1. Be able to reduce business interruption following a disaster
2. Learn the importance of a business continuity plan
3. Understand the difference between restoration and replacement
4. Identify what's important in choosing a mitigation company

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**W4.45 ■ Room 345**

### Facility Management and Human Resource: Creating the Dream Team

*Steve Lynch, President, McShea Residential Services*

*Pamela Mazza, President, Mid-Atlantic HR, Inc.anel*

Hiring the right facility personnel is key at this point in the economic recovery. This session will examine how to work with human resource to create the right job description and find the right person for your organization. The right person for your team may be a returning veteran, someone from a facilities management education program, or a member of the long-term unemployed. This session will discuss common hiring practices and ways to identify the right people even if they don't have a "traditional" background.

LEARNING OBJECTIVE(S):

1. Comprehend how important the human resource department is to create a successful facilities management team
2. Review important tips when creating a job description
3. Discuss common hiring practices and ways to identify the right people even if they don't have a "traditional" background

This session is sponsored by Chesapeake IFMA

AUDIENCE: INTERMEDIATE CEU: 0.1

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## CONFERENCE SESSIONS: Thursday

Critical Facilities

**W4.47 ■ Room 347****Be Green, Save Green Through PC Power Management Program***Kimber Spradlin, Senior Manager, IBM*

All companies are controlling cash flow tightly these days. And nearly every organization would like to market itself as doing something green. With 55 percent of IT electricity use coming outside the data center, a PC Power Management Program can be implemented quickly, showing immediate results, saving an organization as much as \$50 per PC per year. In this presentation you will learn: What makes a successful PC Power Management Program successful now and in the long-term, How to get started right away, What challenges will need to be overcome.

LEARNING OBJECTIVE(S):

1. Understand how a PC power management program can be implemented quickly showing immediate results
2. Learn how you can save your company money on each PC
3. Learn what makes a successful PC power management

AUDIENCE: BEGINNER CEU: 0.1

maintenance effectively. Given the state of the economy these days, companies are striving to produce more, efficiently. The easiest way is to have all mechanics perform a correct maintenance procedure in the same manner and get the same results.

LEARNING OBJECTIVE(S):

1. Review how to research and develop a maintenance procedure
2. Understand the importance of all procedures being performed in the same manner without varying results
3. Be able to develop and write an effective and repeatable maintenance procedure

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Green Standards, Greening an Existing Building

**R1.21 ■ Room 321****Getting to Zero: Sustainability and Carbon Neutral Buildings***Carri Beer, AIA, LEED AP, Senior Associate, Brennan + Company Architects and Co-chair, AIA Baltimore Committee on the Environment**Jessyca Henderson, AIA, Managing Director of Policy and Community Relations, American Institute of Architects*  
*Michael Hindle, CPHC, HERS, Building Science Consultant, Entellis Collective**Tracy Marquis, AIA, LEED AP, Associate, Ayers Saint Gross Architects*

One of the most elusive goals in the sustainability movement is carbon-neutrality: the effort to design and construct buildings, neighborhoods and cities that do not produce additional net carbon emissions in creation or operation. The challenges in achieving carbon-neutrality are multi-faceted, and these panelists, as accomplished architects, student leaders, policymakers, builders and activists, will bring diverse perspectives to the discussion.

LEARNING OBJECTIVE(S):

1. Identify interrelationship between current building construction and climate trends
2. Learn about various methods of obtaining carbon neutrality
3. Examine solutions and barriers to implementing and achieving methods to obtain carbon neutrality
4. Observe case studies of successful projects that advance efforts toward carbon neutrality

AUDIENCE: INTERMEDIATE CEU: 0.1

MARCH **14** Thursday**9:00-9:50 AM**

Maintenance and Operations

**R1.18 ■ Room 318****How to Develop and Write Effective, Repeatable Maintenance Procedures***Martin Tauber, Maintenance, Barber Foods, Production Trainer, AdvancePierre**Joel Leonard, Host, SkillTV.net*

It is important to have an effective, repeatable maintenance procedure written down, recorded and taught to all mechanics who will be performing the particular task. Maintenance work procedures are key to success in the mechanics work execution. Work execution is the function that involves how we perform preventive maintenance, predictive maintenance and corrective

**THURSDAY, MARCH 14 8:00-8:50 AM**

Leadership and Career Advancement

**RS.16****Unconventional Facilities Management: Leaders Who Use Creativity and Flexibility to Run Facilities***Robert Francis, Vice President of University Facilities, Drexel University**Robert Pearlman, Senior Facilities and Administration Officer, International Finance Corp.*

How do you break boundaries and advance your facility and organization? Our panel of industry leading facilities managers will tell you about the unconventional methods have allowed them to achieve great things. Whether being the first the campus in the country to adopt the Green Building Initiative's Green Globes program, or creating an analysis that showed almost \$65 million in avoided real estate costs – our panelist use creativity and flexibility to achieve their department and organizational goals. With the current demands to cut costs while increasing the productivity and efficiency of the facility, it is no wonder unconventional methods are working.

LEARNING OBJECTIVE(S):

1. Review current unconventional methods facilities managers are using today
2. Be able to understand why these methods work at their organizations
3. Understand how to give your staff the autonomy to think outside the box
4. Comprehend how unconventional methods today become conventional in the future

AUDIENCE: INTERMEDIATE CEU: 0.1



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Energy Efficiency, Upgrades and Utilities

**R1.24 ■ Room 324****Monetizing Large EAct Tax Deductions**

*Jacob Goldman, Chief Engineer, Energy Tax Savers, Inc.*

The Energy Policy Act of 2005 (EAct) has been extended through the end of 2013. This allows taxpayers to use 3115 process to catch up on all missed EAct deductions. Attend this session for a better understand of the available deductions, including large tax deductions for LED lighting projects, 12 types of HVAC that typically qualify for deduction, \$1.80 per square foot tax deductions for warehouses and industrial buildings and large roof deductions for pre solar projects.

LEARNING OBJECTIVE(S):

1. Understand current updates to the Energy Policy Act of 2005
2. Learn why EAct energy efficient tax incentives are gaining wide
3. Review the most frequent commercial EAct projects
4. Learn about guidelines for lighting, HVAC and building envelope projects

AUDIENCE: INTERMEDIATE CEU: 0.1

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Safety and Security

**R1.27 ■ Room 327****Emergency Preparedness in a Post-Sandy World: Lessons Learned**

*Bob Mellinger, President, Attainium Corp.*

In days and nights that followed Hurricane Sandy, scarcity of power, generators and fuel furthered the devastation. Suddenly, the term 'disaster preparedness' sounded more myth than reality. When it comes to mitigating natural disasters of such magnitude, does disaster preparedness even matter? At a time when the frequency and intensity of natural disasters seem to be increasing, the answer is an unqualified yes – and more than ever before. Attend this session for a discussion of the key disaster planning tips, understand the need for emergency preparedness and contingency planning for facilities, the people who occupy them and the communities they serve, and get started on the road to tailoring an effective, reliable disaster prep plan for your building.

LEARNING OBJECTIVE(S):

1. Understand the five phases of emergency management and how they apply to disaster preparedness
2. Determine the difference between contingency planning and emergency response and the proper use of both strategies
3. Learn which components are essential to effective emergency preparedness
4. Understand the importance of creating, maintaining, and testing a contingency plan
5. Discuss lessons learned from Hurricane Sandy and how to apply them to future disasters that could affect your organization

AUDIENCE: INTERMEDIATE CEU: 0.1

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Energy Efficiency, Upgrades and Utilities, Healthcare Facilities Today

**R1.30 ■ Room 330****Healthcare Facility Benchmarking: How to Get Started**

*B. Alan Whitson, President, The Corporate Realty, Design & Management Institute*

According to the EPA, inpatient healthcare ranks as the second largest commercial energy user after the food service industry, and according to the U.S. Department of Energy, hospital energy costs rose 56 percent from 2003 to \$6.07 in 2008 with no reduction in sight. Add to those statistics the looming requirement from the Center of Medicare and Medicaid Services that requires hospitals verify their quality of care, operational performance and fiscal

efficiency, and the facility manager's role is more vital than ever when it comes to identifying – and lowering – energy and operating costs in a medical facility. This session will introduce attendees to the concept of benchmarking in a healthcare setting, and how the resulting data can be used to manage costs and resources effectively.

LEARNING OBJECTIVE(S):

1. Learn how benchmarking data can be used to greenlight projects and upgrades
2. Understand which practices result in lower operating expenses
3. Review ways to use data to highlight how your facility is performing
4. Calculate the impact of building energy use on overall hospital operations

AUDIENCE: INTERMEDIATE CEU: 0.1

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Energy Efficiency, Upgrades and Utilities

**R1.37 ■ Room 337****Is it Time for a National Energy Code?**

*Richard G. Lubinski, CEM, CDSM, CSDP, CEMSC, BEP, President, Think Energy Management LLC*

*Jeremy Sigmon, Director, Technical Policy, U.S. Green Building Council*

*Roy Torbert, Project Manager, Rocky Mountain Institute*

The U.S. doesn't have a national energy code, but does it need one? The answer isn't as simple as merely "yes" or "no"; with wide-ranging differences in everything from population density to climate, trying to develop a basic standard that can apply across the board is challenging, yet does offer a number of benefits. This panel discussion will delve into the pros and cons of a national energy code, as well as the challenges of possibly implementing such a code.

LEARNING OBJECTIVE(S):

1. Learn about how a national energy code would set minimum energy efficiency standards across different regions
2. Understand the pros and cons of a national energy code and its potential implementation
3. Learn about both the concept and execution of a national energy code from policy and practical perspectives

AUDIENCE: ADVANCED CEU: 0.1

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Energy Efficiency, Upgrades and Utilities, Greening an Existing Building

**R1.39 ■ Room 339****Methods and Tools for Justify High-Performance Building Projects**

*Neil Maldeis, Energy Engineering Manager, Trane Commercial Systems*

Learn about methods and tools used by energy professionals to gain leadership support for their high performance building projects. Attendees will learn about several methods and the tools that have successfully helped organizations gain approval for project implementation. Methods shared will range from the best used to support simple stand-alone projects to methods that can be used at an enterprise level to obtain approval to implement multiple projects at a portfolio of facilities.

LEARNING OBJECTIVE(S):

1. Introduce attendees to the basic justification and approval methods commonly used by organizations
2. Share tools for calculating the energy and operational savings benefits to demonstrate quantifiable return-on-investment and justify high performance building projects
3. Attendees will learn methods to manage and justify high performance building project implementation for individual projects as well as enterprise-level undertakings
4. Learn from case study examples how organizations have successfully built support from implementing high performance

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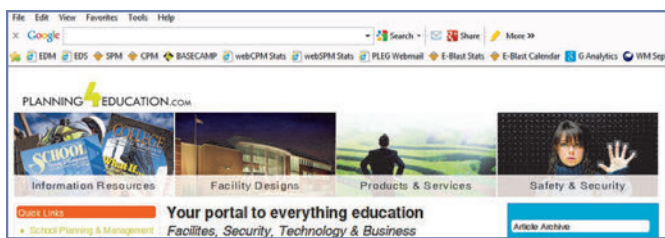
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## CONFERENCE SESSIONS: Thursday

building projects at a project and an enterprise level

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

### R1.41 ■ Room 341

#### Selling the Value of Power Reliability to Senior Management

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

### R1.43 ■ Room 343

#### Fire Alarms: The A-Z of Inspection, Testing and Maintenance

*Rick Reynolds, Director of National Accounts, Orr Protection Systems*

Fire alarm systems are installed to protect people, the building and its contents, but not knowing how your system works can cause more harm than good. If there is a fire, you can be held responsible; making your need to know NFPA code requirements for proper inspection and testing of your fire system essential. This session will help you understand code requirements, what records to keep and how to properly maintain your systems to reduce or even eliminate costly emergency calls and false alarms.

LEARNING OBJECTIVE(S):

1. How fire systems work and why understand this will save you time and money
2. Understanding NFPA inspection and testing requirements
3. Learn what record keeping is required by law and how to make it easier
4. Prevention is the best medicine; learn what to do and when to do it

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

### R1.45 ■ Room 345

#### What Does the ADA Now Require

*Mark J. Mazz, Architect, Mark J. Mazz, AIA*

The revised ADA regulations more clearly identify how the Standards apply to employee spaces; increase the retroactive requirements on existing program spaces; provide new and retroactive requirements for recreational facilities; and increased the requirements for student housing. Additionally, DOJ and advocates are demanding more compliance on exterior site improvements. Therefore, it is a good time to brush-up on the ADA requirements. The presentation will rely heavily on photos and other graphics. The audience is encouraged to ask questions throughout my presentation.

LEARNING OBJECTIVE(S):

1. Learn to identify where construction documents could be improved to create more compliance
2. Understand that when a space changes use, accessible concerns may appear
3. Identify possible consequences of noncompliance
4. Learn about red flags for complaints

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology, Green Standards

### R1.47 ■ Room 347

#### Making Sense of Controls in ASHRAE 90.1 2010

*Chris Contney, Manager Marketing and Vendor Relations, Rexel Sam Karas, Energy Specialist, Rexel USA*

A unique and comprehensive approach to lighting controls can

position your facility for the 21st century. New ASHRAE standards and codes will soon be mandatory for new construction, remodels and retrofit projects. Although these energy conservation measures are in their infancy, the time to learn these new requirements is now. State and local energy programs, utilities and energy specialists are eager to help you understand the financial and environmental benefits. Financially, lighting upgrades are proven to be the best return on investment, money can buy. A thorough explanation on technologies and applications will provide you the best solutions available today.

LEARNING OBJECTIVE(S):

1. Learn about ASHRAE 90.1 2010
2. Understand where is this going to be applied in your facilities
3. Comprehend how is it going to affect you
4. Identify how to implement Best practices before its mandatory

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology, Greening an Existing Building

### R1.49 ■ Room 349

#### Updating Historic Buildings Using the Whole Building Design Guide

*Richard Paradis, P.E., BSCP, Director, Advanced Materials Program, National Institute of Building Sciences*

Careful planning is required to balance preservation objectives with the renovation or replacement of interior systems, such as HVAC, electrical, plumbing, structural systems, information and communication technologies, and conveyance systems. Once upgrades are made it is important for them to be properly operated and maintained to meet the desired energy performance and savings. The Whole Building Design Guide provides substantial information on achieving preservation objectives that was developed by national preservation experts.

LEARNING OBJECTIVE(S):

1. Apply the preservation process successfully
2. Update building systems appropriately to achieve sustainable goals
3. Accommodate life safety and security needs
4. Operate and maintain historic structures

AUDIENCE: BEGINNER CEU: 0.1

MARCH **14** Thursday

10:00-10:50 AM

Greening an Existing Building

### R2.18 ■ Room 318

#### Electric Vehicle Charging Stations

*Rachel Yoka, LEED AP, CNU-A, Vice President of Strategic Business Planning and Sustainability, Timothy Haahs & Associates, Inc.*

This session will focus on sustainability in the parking industry, with a special focus on electric vehicles and the implementation of charging technology and other specific green parking strategies. The session will detail new technology as well as state of the market technology for EV charging, and include considerations when planning for EV charging technology and LEED implications. The session will also address best practices in sustainability for both existing and proposed parking structures, including multiple frameworks to deploy these strategies.

LEARNING OBJECTIVE(S):

1. Explore multiple frameworks for sustainability in parking, including LEED as well as emerging new frameworks.

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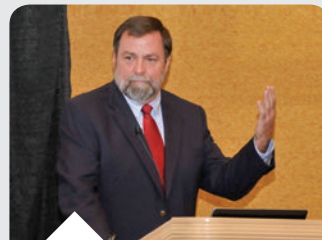
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## CONFERENCE SESSIONS: Thursday

2. Learn where the state of the EV charging market is, and how emerging technology will alter the market.
3. Gain an understanding of how EV charging and other major sustainability strategies may impact both design and operations.
4. Be able to discuss how parking can positively contribute to sustainability goals, as well as contradict them.

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

### R2.21 ■ Room 321

#### Weaknesses Don't Lie: Identify Yours Before Others Do

*James E. Barbush, Professional Speaker and Professional Engineer, Barbush Enterprises*

We mostly think positively about ourselves, viewing and promoting strengths. Leadership teachers rightly tell us to play to our strengths because strengths involve our passions, what we do well. But does anyone tell us to focus on our weaknesses? When leading in challenging situations, we can identify our strengths/weaknesses based on our behaviors that surface and reactions from others. When we identify those things, we should capitalize on strengths, recognize weaknesses, and make necessary changes in ourselves. This session will delve into identifying strengths/weaknesses and taking steps to improve further on what we do well and make changes where necessary.

LEARNING OBJECTIVE(S):

1. Be able to identify your weaknesses - it's dangerous to ignore them
2. Learn how to identify your strengths - they reveal your hidden weaknesses
3. Understand how to make needed changes, or your flaws can be fatal
4. Review resources for help, getting you where you need to be

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Openings: Doors, Windows and Building Exteriors

### R2.24 ■ Room 324

#### Energy Dollars Out the Windows, Walls and Roof?

*Nick O'Hare, Client Relations Specialist, StructureTec*

This session will review energy saving options and non destructive testing methods that are available and how to integrate these results with needed maintenance of the building envelope.

LEARNING OBJECTIVE(S):

1. Identify common energy related conditions and problems
2. Determine how to develop energy effective asset management programs
3. Incorporate energy effective solutions in your existing major capital projects
4. Review Project Profiles

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems, Technology

### R2.27 ■ Room 327

#### Integrated Building Management Systems (IBMS) for Existing Buildings

*Jim Sinopoli, Managing Principal, Smart Buildings*

IBMS offer more operational capabilities than traditional BMS: analytic tools such as HVAC fault detection and diagnostics, the ability to consolidate alarms from multiple systems into one alarm management application, much broader integration of building systems, customized dashboards for different types of users, demand response applications, energy management, etc. Deploying

an IBMS in an existing building or a portfolio of buildings involves dealing with existing building systems and system documentation which may present issues in implementation. This presentation addresses the advantages of an IBMS and more importantly the real life solutions to issues in existing buildings.

LEARNING OBJECTIVE(S):

1. Identify and describe the basic design foundations and technology systems associated with IBMS
2. Develop a basic knowledge of the design and installation issues related to integrated building management systems in existing buildings
3. Demonstrate and communicate the value of an IBMS to the building owner/operator and cost justify the approach
4. Apply aspects of an IBMS to energy management and improved operations

AUDIENCE: ADVANCED CEU: 0.1

Healthcare Facilities Today

### R2.30 ■ Room 330

#### Workplace Violence: Lessons learned from Johns Hopkins Hospital

*Sean Ahrens, CPP, CSC, Global Practice Leader for Security Consulting and Design Services, Aon Global Risk Consulting*  
*George Economas, Director, Johns Hopkins Hospital Internal Security*

This session will guide attendees through an in-depth discussion on the ever-growing problem of workplace violence via a case study of a 2010 shooting at Johns Hopkins Hospital (JHH). Learn how the events at Virginia Tech lead to a new level of preparedness at JHH, including the key steps taken by the facilities team to lock down a campus that had more than 47,000 people on it at the time of the shooting.

LEARNING OBJECTIVE(S):

1. Review workplace violence statistics and what they mean for all commercial buildings
2. Learn how to evaluate what is at stake during a workplace assault
3. Understand legislative changes and emerging standards that can impact a facility's workplace violence prevention plan
4. Understand the key steps taken to prevent additional violence on the JHH campus

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

### R2.39 ■ Room 339

#### Solar Thermal Projects 101

*Bill Guiney, Program Director, Global Renewable Energy Development, Johnson Controls, Inc.*

Learn how to develop solar thermal projects, from siting and funding to technology and management - based on successful case studies.

LEARNING OBJECTIVE(S):

1. Understand modern system designs and applications
2. Understand how low energy costs have affected solar thermal economics
3. Learn from case studies about reducing the costs of installed solar thermal systems
4. Learn which advanced solar heating and cooling technologies are coming into the market

AUDIENCE: BEGINNER CEU: 0.1

Power: Generation and Reliability

### R2.41 ■ Room 341

#### Maintaining Diesel Fuel Quality...Strategies for Ensuring Clean Fuel Availability When You Need It

*John Napurano, Owner, Reverso Pumps, Inc.*

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## CONFERENCE SESSIONS: Tuesday

The newer engine technology is increasingly requiring cleaner and drier diesel fuel, while the diesel fuel is becoming less stable, and bio-diesel blends are becoming more common in the marketplace. This presentation will take you through the options available in the industry of diesel fuel filtration, and address the importance of a complete fuel management program.

## LEARNING OBJECTIVE(S):

1. Learn how to effectively get, and keep the water out of your fuel
2. Learn the difference in fuel additives that emulsify or de-emulsify water
3. Learn how safeguard your weakest link on your back-up power strategy—your diesel fuel

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security, Openings: Doors, Windows and Building Exteriors

**R2.43 ■ Room 343****NFPA Code Updates***Lennon Peake, Manager, Koffel Associates, Inc.*

Much has been provided comparing the 2012 Edition of NFPA 101 to the 2009 Edition and the 2000 Edition as various regulatory agencies consider adopting the 2012 Edition of NFPA 101. However, very little has been said regarding changes in the standards referenced by NFPA 101. What are the significant changes in the reference standards that come with adopting a more recent edition of NFPA 101?

## LEARNING OBJECTIVE(S):

1. Understand the significant changes in NFPA 80 that impact compliance with NFPA 101
2. Identify significant changes in NFPA 72 that impact compliance with NFPA 101
3. Review changes in NFPA 13 that impact compliance with NFPA 13
4. Learn about important changes in NFPA 25 that impact compliance with NFPA 101

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**R2.45 ■ Room 345****Ensuring Fire Safety for Food Service Operations in Commercial Facilities***Nelson Dilg, President, Nelbud Services Group*

Two important issues have recently emerged regarding fires in the grease exhaust systems of commercial buildings: 1) The NFPA standard governing this particular discipline (NFPA 96) now places compliance burden squarely upon the building owner and 2) firefighter deaths that resulted from these otherwise preventable fires have prompted several cities and states to pass laws requiring licensure and strict inspection/reporting provisions, and more are beginning to speak of criminal consequences for building owners who fail to comply. This session will distill the specific responsibilities under NFPA 96, including changes to the standard, the building owner's responsibilities, the form that compliance takes in differing jurisdictions, and simple inspection techniques.

## LEARNING OBJECTIVE(S):

1. Increase awareness of the building owners and engineers' responsibility to fire safety in grease exhaust systems
2. Learn about recent changes in NFPA 96 codes and compliance
3. Understand how inspection can help reduce noncompliance as well as the risk of fire in grease exhaust systems

AUDIENCE: BEGINNER CEU: 0.1

Technology

**R2.47 ■ Room 347****Monitoring Based Commissioning Enhances Sustainability***Tim Angerame, Director of Business Development, utiliVisor*

An important approach to keep buildings operating at maximum energy-efficiency, monitoring based commissioning (MBCx) incorporates permanent energy information systems and diagnostic tools, retro-commissioning based on the data this generates, and on-going commissioning to ensure efficient building operations and measurement-based savings accounting. Requiring minimal capital investment, MBCx offers a web-based, networked solution, built on open standards, that works in real-time to collect and format data, monitor operations and equipment errors, and deliver oversight via web-based alerts and alarms. Engineers are able to track performance and remedy any malfunctions that would otherwise create operational inefficiencies, resulting in lower energy costs.

## LEARNING OBJECTIVE(S):

1. Understand diagnostic tools that can result in significant energy savings

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

**R2.49 ■ Room 349****Acoustical Problem Solving for the Facility Manager***Art Barkman, President, Sound Management Group*

Acoustical issues are frequently ignored for lack of an understanding as to what solutions might be available. This session will enable the facility manager to better understand the nature of sound and what measures can be implemented to deal with them.

## LEARNING OBJECTIVE(S):

1. Enable the facility manager to identify and anticipate acoustical problems
2. Enable the facility manager to recognize options for addressing those problems
3. Implement solutions by qualifying resources to remedy those problems
4. Learn how to take in-house measure to remedy those problems

AUDIENCE: INTERMEDIATE CEU: 0.1

MARCH 14 Thursday

2:10-3:00 PM

Energy Efficiency, Upgrades and Utilities

**R3.24 ■ Room 324****The Next Generation Energy Service Company***Dave Turner, Chief Operating Officer, Tangent Energy Solutions, Inc.*

In May 2012 a leading research firm reported that fewer than 20 percent of corporate energy managers believe suppliers of energy services can help them improve energy management. This lecture explores how the evolving role of the energy customer has made traditional energy service suppliers less relevant to their needs. It also outlines the capabilities for a next generation energy services provider and shows some examples of how key players in the industry are evolving toward this model.

## LEARNING OBJECTIVE(S):

1. Understand factors making energy management more complex



- for C&I energy managers
2. Understand why current resources are falling short (e.g. demand response, ESCO, distributed generation, etc.)
  3. Understand capabilities of a next generation energy services provider and how C&I energy managers benefit
  4. Identify industry players that are moving toward a next generation model

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Systems

### R3.27 ■ Room 327

#### Next Generation LED Lighting Update

Scott Lifer, Vice President, Axlen LED Lighting  
LED lighting has come a long way from the first generation products many people remember. This presentation will give real data and technology answers based solely upon direct applicability to the marketplace. Learn about the differences between first generation, second generation and the current third generation LED products. Attendees will have a better understanding about what they are “hearing” about production and distribution of the products, and what is actually happening. We aim to bridge that gap for managers needing hard solutions in today’s LED climate.

LEARNING OBJECTIVE(S):

1. Review a brief outline of how LED technology has changed from first generation LED’s and the recent technological advances that affect the marketplace now
2. Understand the right questions to be ask when looking for LED solution (company and standardization are key)
3. Review the movement from “LED lighting products” to “LED solutions and applications within your budget”
4. Learn from a real life case study of “commercial applicability” and how to stay ahead of the LED technology curve

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building

### R3.37 ■ Room 337

#### On-site Water Reclamation: Greening our Footprint, Maximizing Cost Savings

*Jonathan Lanciani, President, CEO, Sustainable Water*

As a result of water scarcity and rising rates, improved on-site water management is necessary in order to meet the triple bottom line. Across the country, many institutions are finding water reuse as the most environmentally and economically impactful water management tool available. Advances in ecological treatment technology now allow wastewater recycling systems to be integrated into a building or campus fabric, providing clean water supplies for non-potable uses. These systems, which appear as little more than landscaped features or greenhouses, are turning buildings into living, breathing machines that de-risk operations, lower operational costs, and deliver a greener building footprint.

LEARNING OBJECTIVE(S):

1. Understand the process of water reclamation and reuse
2. Review the benefits of water reclamation

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

### R3.39 ■ Room 339

#### Take Your Facility to a Higher Plane with Smart Integration

*Chris Hollinger, Senior Product Manager, Integrated Systems, Siemens Building Technologies, Inc.*

There is increasing emphasis on sharing system data to consolidate information for the user, providing more efficient and productive facility systems, and adding value to the facility organization. Increasing integration leads to more complete information to drive productive energy efficiency and occupant comfort decisions. To assure success, assess short term and long term facility needs and goals. Be sure the project plans and specifications in place are in keeping with the facility’s goals and priorities and in accordance with the system support structure available after installation. With more integration,

## THURSDAY, MARCH 14 2:10-4:00 PM

Safety and Security

### PC3 - Room 316

#### The Disaster Experience\*

*Bob Mellinger, President, Attainium Corp.*

\* REGISTRATION FEES APPLY, FREE FOR NFMT MEMBERS, \$49 FOR NON-MEMBERS. SIGN UP AT REGISTRATION

Business continuity planning has never been more critical to the safety and security of facilities, regardless of their size, location or industry. Unfortunately, creating and maintaining a business continuity plan (BCP) still remains a low priority for many organizations leaders. That is why this session is necessary, and not for the faint-of-heart. Every disaster is not created equally and this experience has been designed to put you in the throes of a real-life disaster situation, as it unfolds. You will make the critical decisions any organization will have to make — and deal with the consequences of — those decisions. At the completion of the four hour session, attendees will understand the importance of planning in advance for different disasters or other business disruptions.

Learning Objective(s):

1. Understand the basic principles of emergency management and how they apply to business continuity planning and effective risk management
2. Understand the importance of creating, maintaining, and testing a business continuity plan
3. Experience first-hand the problems that can result from a poorly developed, poorly executed, or non-existent plan
4. Have an opportunity to share personal experiences with colleagues regarding business continuity challenges
5. Discuss lessons learned from both previously experienced disasters and future disasters that could affect your organization

AUDIENCE: INTERMEDIATE CEU: 0.1

## CONFERENCE SESSIONS: Tuesday

Careful planning is required to ensure vendors are delivering the products and configurations requested. Communication and detailed planning becomes all the more vital.

## LEARNING OBJECTIVE(S):

1. Understand why an integration strategy is important
2. Assess the "how to" integrate systems
3. Be able to use the right tools to integrate systems
4. Learn how to make the most of the investment

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

**R3.41 ■ Room 341****Protecting staff and occupants from electrocution from high current leakages, and ground faults**

*Arnold Kravitz, Vice President Commercial Products, Technology Research Corporation*

## LEARNING OBJECTIVE(S):

1. Understand what causes high current leakages, and ground faults
2. Learn how High current GFCI's and PRCD's work
3. Review how to protect your occupants and staff

AUDIENCE: INTERMEDIATE CEU: 0.1



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Maintenance and Operations, Energy Efficiency, Upgrades and Utilities

**R3.45 ■ Room 345****Exterior Continuous Insulated Claddings for Energy Efficiency**

*Robert W. Dazel, AIA, LEED GA, Marketing Manager for Strategic Accounts, Dryvit Systems, Inc.*

This program examines the use of exterior continuous insulation based on current and proposed model building energy code requirements specifically related to improved energy efficiency objectives for envelope wall assemblies. Attendees will further recognize how the use of exterior insulated claddings in envelope wall design provide a cost effective and aesthetically diverse solution to meeting the intent of the energy code and accomplishing overall improvements to building envelope performance for both new and renovation constructions.

## LEARNING OBJECTIVE(S):

1. Deconstruct the perceived value of traditional insulation methods and reduced performance within framed-wall assemblies and reconstruct new strategies for developing true insulation value and high performance buildings
2. Identify and define model energy code and green design standard's requirements for exterior continuous insulation
3. Differentiate between prescriptive R-value and performance U-factor wall design paths and recognize where continuous insulation must be integrated
4. Discover the interrelationship between exterior insulated claddings and the use of continuous insulation to achieve energy-efficient, cost-effective and aesthetically pleasing design solutions

AUDIENCE: INTERMEDIATE CEU: 0.1

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Technology

**R3.47 ■ Room 347****The Path to Streamlined Building Lifecycle Management***Laura Handler, Director of VDC, Tocci Building Companies*

How often does Joe Boiler arrive at a facility to correct a problem, only to find out everything he knows is wrong? Building documents don't show the correct rooms, equipment, installations, or access - no wonder he brought the wrong tools. Often, experienced mechanics make wasteful trips before facility issues can be resolved. Tocci focuses on streamlining digital assets for use during building operation. Tocci uses a begin with the end in mind strategy to assist large campus owners to integrate FM systems with Building Information Modeling. The results: more efficient buildings that are easier (therefore less costly) to maintain.

LEARNING OBJECTIVE(S):

1. Define metrics of how industry-wide problems apply to their facility or campus
2. Identify the system and process required to reduce lifecycle cost
3. Determine facility-specific goals for integration of BIM and facilities management
4. Develop a high-level path to integrate BIM into facility management for their facility or campus

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**R3.49 ■ Room 349****Fundamentals of Quality Control & Continuous Improvement Strategy***John Garrett, President and CEO, Facilities Management Advisors, LLC*

How are we defining customer satisfaction? The dictionary tells us it is simply "a measure of how products and services supplied by a company meet or exceed customer expectations". World-class organizations maximize their opportunities for both organic and external growth through achieving high levels of customer satisfaction — easier said than done, right? According to a recent Gallup poll, organizations that have strong processes in place to effectively manage and improve client satisfaction have outperformed their competitors by 26 percent in gross margin and 85 percent in sales growth. For these organizations, their customers spend more, buy more, and continually renew their contracts.

LEARNING OBJECTIVE(S):

1. Learn from the historical perspective of measure, manage, improve
2. Learn how to leverage data to drive decision making and best practice modeling
3. Understand best practices in metrics management, benchmarking, and how technology supports the process
4. Discover innovations in best practice modeling as a means to drive continuous improvement strategies

AUDIENCE: BEGINNER CEU: 0.1




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MARCH **14** Thursday

**3:10-4:00 PM**

Healthcare Facilities Today, Greening an Existing Building

**R4.37 ■ Room 337**

### Save Money and Energy Through Consolidated Building Management

*Derek Watson, LEED AP, Senior Manager, AtSite*

Adventist HealthCare in Maryland has saved more than \$8 million through a unique approach to facilities management that could produce similar benefits for others. Adventist worked with a building performance management company to create a facilities and real estate department that assessed the performance of its five hospitals and developed a strategy for improvement in three key areas: 1) facility, property and project management; 2) energy and sustainability, and 3) real estate leasing and transactions. In addition to cutting facilities expenses by \$2.9 million and greenhouse gases by 16 percent, Adventist has become the largest U.S. healthcare purchaser of green energy.

LEARNING OBJECTIVE(S):

1. Understand how Adventist HealthCare increased performance in its facilities
2. Review the strategies they employed to reduce facilities expenses
3. Learn about the sustainable practices Adventist HealthCare implemented to reduce greenhouse gas
4. Comprehend their program for green energy

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

**R4.39 ■ Room 339**

### Distributed Generation Wind Projects

*Richard Krauze, Distributed Generation Wind Consultant*

The feasibility of building on-site distributed wind energy projects continues to increase due to the attractiveness of the financial returns. The improvements in wind turbine technology have resulted in greater energy capture at projects resulting in a source of fixed long-term low-cost energy. There are some great opportunities for wind turbines at commercial, industrial and institutional sites as is demonstrated with the increase in community scale projects (e.g., one to five wind turbines at a site). Even a single utility scale wind turbine project can be very beneficial to the onsite host organization. This discussion will focus on: the financial feasibility of building an onsite project, wind resources, ability to permit, site-specific considerations, utility rules including net metering and interconnection, value of RECs, financing options, factors affecting project costs and incentives, selecting the right turbine and manufacturer to support the project including the effects on project installation and operations and maintenance, characteristics of the host including percent of estimated onsite consumption and working with an internal champion.

LEARNING OBJECTIVE(S):

1. Learn about the current state of on-site distributed wind energy projects
2. Understand the project economics
3. Understand the fundamentals of building on-site distributed energy projects
4. Understand the basic criteria for evaluating the feasibility of pursuing wind energy at your facility

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

**R4.43 ■ Room 343**

### Facilities Risk Analysis

*Paul Head, II, Manager, Ernst & Young Construction Real Estate Advisory Services*

Organizations are faced with risks in every aspect of their facilities and maintenance operation. To mitigate risk, you must first be able to identify, evaluate, prioritize and plan. FMEA is a tool/methodology to help you identify risks affecting your CRE/FM/maintenance organization, determine risk exposure and prioritize remediation projects that will lower risk while improving performance of your organization.

LEARNING OBJECTIVE(S):

1. Learn how to organize, classify and identify key areas of risk
2. Be able to score risk within your organization
3. Develop and prioritize a risk mitigation plan
4. Establish controls and monitor risk

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Technology

**R4.45 ■ Room 345**

### Emergence of Performance-Based Energy Services

*Lou Ronsivalli, Global Services Offer Development Leader, Trane/Ingersoll Rand*

This session will address why it is increasingly important, yet more practical than ever to focus on achieving building infrastructure performance improvement outcomes and sustaining them over time. Leveraging emerging technology allows facilities management teams to manage infrastructure to perform efficiently, reliably, and cost-effectively over its entire life cycle. This session will discuss the metrics and performance objectives that should drive facilities management tactics.

LEARNING OBJECTIVE(S):

1. Understand what is meant by achieving sustainable outcomes
2. Learn how facilities management teams can cost-effectively leverage technology to capture monitor and validate progress in outcomes achievement
3. Review how to build internal support for the transition to specific measured outcomes
4. Be able to explain why it is important to focus on long-term benefits instead of addressing only immediate outcomes

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

**R4.47 ■ Room 347**

### 10 Tips to Build a Better Maintenance Team (Repeat)

*Michael B. Cowley, CPMM, President, CE Maintenance Solutions*

No matter how top-of-the-line your equipment is, no matter how expensive your CMMS system, your success truly depends on the team you've created. Over the last few years new positions are not being created and departments have been slashed. Every single member of your team now needs to be on the top of his or her game to successfully achieve the organization's objectives. Don't despair – there are steps you can take to make sure you have the best maintenance team available. In this session Mike Cowley will walk you through 10 steps to build a better maintenance team.

LEARNING OBJECTIVE(S):

1. Understand the biggest hiring hurdles
2. Review interview and hiring tips
3. Learn how to identify gaps in your current departments
4. Understand ways to change behaviors within your existing team

AUDIENCE: BEGINNER CEU: 0.1

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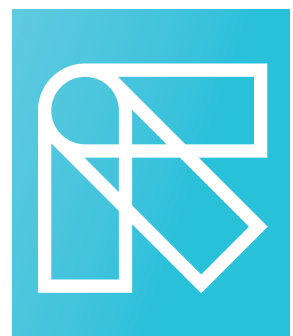
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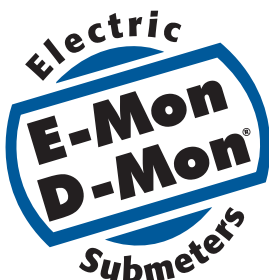
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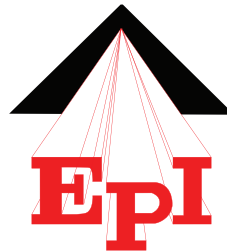
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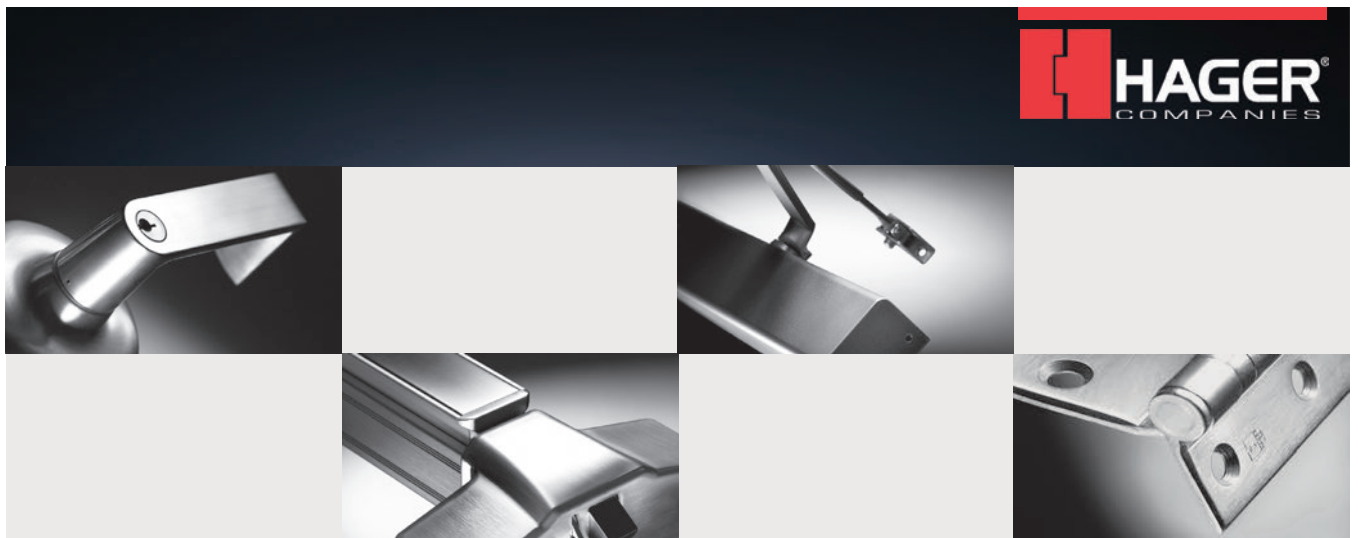
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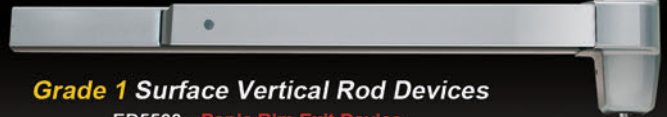
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[www.powerengineers.com](http://www.powerengineers.com)

The objectives of NAPE are the advancement of the power engineer in the field of engineering; the promotion of civic consciousness by means of education, legislation and public relations for the protection of life and property; and furtherance of high ethical standards and the creation of a social and fraternal interest among its members.



### National Association of Church Facilities Managers (NACFM)

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Broadway  
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806-535-8090  
[www.nacfm.org](http://www.nacfm.org)

NACFM is a non-profit organization established in 1995 to promote networking and educational advancement opportunities for facilities management professionals. NACFM provides an informational resource for church and religious facility management professionals by discussion groups, forums, panels, lectures, seminars, or similar programs or activities (such as this web site) designed to fulfill the purposes of the organization.

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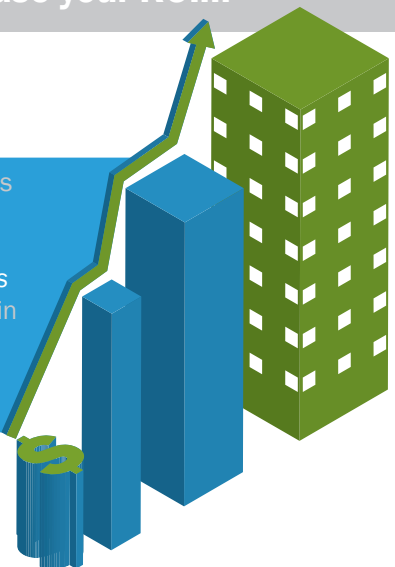
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[www.weservice.biz](http://www.weservice.biz)

Workplace Essentials specializes in a range of no-touch hygiene products and services including air care, hand care, baby care, restroom hygiene, workplace hygiene and a unique feminine hygiene service that facilitates the safe disposal of sanitary waste. Our products and services are developed to safeguard the health and well-being of employees, customers and the general public at large.

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**Worship Facilities/ Worship Facilities DESIGNER Magazine**

**Booth# 317**  
2610 Wycliff Road  
Raleigh, NC 27607  
919-325-0113  
[www.worshipfacilities.com](http://www.worshipfacilities.com)

*Worship Facilities Designer* is a new magazine reaching over 6,000 architects, builders, interior designers and design engineers focusing on the house of worship market. WFD will layout designer's challenges and their solutions through innovative design, products, building materials, green materials and practices and audio, video and lighting technology.

**Xeralux**

**Booth# 1413**  
480 Oakmead Parkway  
Sunnyvale, CA 94085  
408-841-4200  
[www.xeralux.com](http://www.xeralux.com)

Xeralux designs and manufactures LED retrofit kits and new luminaires for entire commercial campuses and municipalities. Our mission is to provide advanced lighting to enable our customers to create safer and sustainable environments while reducing energy and operational costs.

**XTec Inc.**

**Booth# 1000**  
11180 Sunrise Valley Drive, Suite 310  
Reston, VA 20191  
703-547-3524  
Fax:703-547-3533  
[www.xtec.com](http://www.xtec.com)

XTec's AuthenX is a cloud-based identity, credentialing, and access control solution. For Federal government customers, XTec's products and services are HSPD-12 approved, FISMA compliant, and available through GSA Schedules 70 and 84. XTec's engineered solutions are the result of two decades of cryptographic smart card credentialing and access control specialization, allowing your FICAM and M11-11 needs to be easily attainable.

**Yardi/SiteStuff**

**Booth# 1762**  
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Goleta, CA 93117  
805-699-2040  
Fax:805-699-2044  
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**Zhaga****Zhaga Consortium**

**Booth# 1987**  
445 Hoes Lane  
Piscataway, NJ 08854  
732-562-6037  
[www.zhagastandard.org](http://www.zhagastandard.org)

The Zhaga Consortium is a lighting-industry cooperation that is enabling the development of interchangeable LED light sources. With hundreds of member companies around the globe, Zhaga has developed interface specifications for LED light engines used in many different applications. Luminaires can now be designed using Zhaga-certified, interchangeable products, such as components, drivers and light sources, from multiple suppliers.

**ZOO Fans Inc.**

**Booth# 1136**  
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Boulder, CO 80301  
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[www.zoofans.com](http://www.zoofans.com)

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Fax:513-272-1383  
[www.ztsinc.com](http://www.ztsinc.com)

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**Zurn Industries LLC**

**Booth# 1725**  
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855-ONE-ZURN  
Fax:814-875-1270  
[www.zurn.com](http://www.zurn.com)

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# Show Concierge

## Show Concierge: Booth #409

Visit us during exhibit hours for all your show needs:

- Additional show directories
- Copies of *Building Operating Management* and *Maintenance Solutions* magazines
- Alumnus Pins
- General show questions, comments, and feedback

## Coat and Bag Check

A complimentary coat and luggage check is located near NFMT registration in the Pratt Street Lobby.

Tuesday, March 13 ..... 7:00 a.m. – 5:30 p.m.

Wednesday, March 14 ..... 7:00 a.m. – 5:30 p.m.

Thursday, March 15 ..... 7:00 a.m. – 4:30 p.m.

## Concessions

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

Tuesday, March 13 ..... 11:00 a.m. – 4:00 p.m.

Wednesday, March 14 ..... 11:00 a.m. – 3:00 p.m.

Thursday, March 15 ..... 11:00 a.m. – 2:00 p.m.

## Cyber Centers

NFMT features a Cyber Center – sponsored by MTU Onsite Energy– where showgoers can send and check e-mail during exhibit hours. The Cyber Center is located in booth #306.

## Exhibit Space Selection for 2014

Every 2013 exhibiting company is assigned a time to select space for the 2014 show. If you have a question about the re-sign process, please contact your booth sales representative. The Space Selection room is located at the end of the 300 aisle.

## Lost and Found

If you lost an item within the Baltimore Convention Center visit the NFMT Show Office, located on the 200 level in the Pratt Street Lobby or contact security.

## Press Room

Members of the media can find press kits and product information from participating NFMT exhibitors in the NFMT Show Office, just off the main Pratt Street entrance.

## Show Hotels:

Hilton Baltimore

401 West Pratt Street

443-573-8700

Renaissance Harborplace

202 East Pratt Street

410-547-1200

Hyatt Regency Baltimore

on the Inner Harbor

300 Light Street

410-528-1234

Sheraton Inner Harbor

300 South Charles Street

410-962-8300

Marriott Inner Harbor

110 South Eutaw Street

410-962-0202

## Shuttle Buses

New in 2013! Shuttle service from the Camden Yards- Lot C parking lot to the Pratt Street entrance of the convention center.

Tuesday, March 13 ..... 7:00 a.m. – 6:00 p.m.

Wednesday, March 14 ..... 7:00 a.m. – 6:00 p.m.

Thursday, March 15 ..... 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

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.

### Airport Shuttle

The Airport Shuttle operates between Baltimore Inner Harbor and BWI Airport. For more information or a reservation please call 410-381-2772.



# Exhibit Hall Map

# BUILDING OPERATING MANAGEMENT'S NFMT 2013

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**KEY**

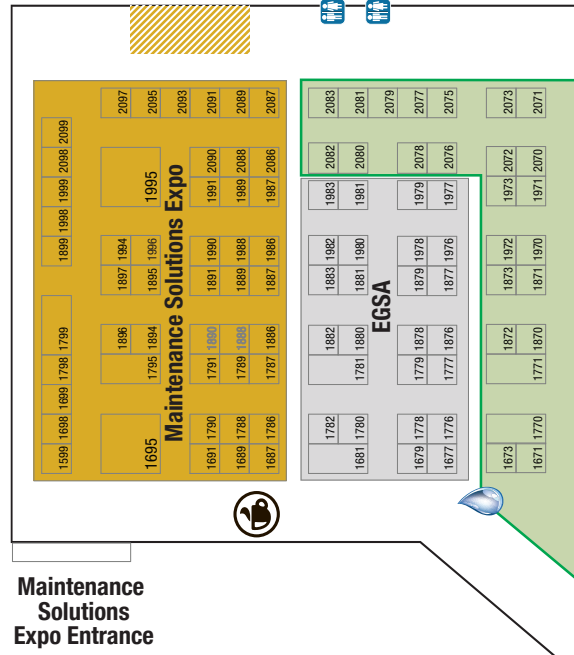
	MS Expo		NFMT Café
	EGSA Pavilion		NFMT Café Tables
	Building Services Pavilion		Natural Choice Water Station
	Green Tech Pavilion		STOKO Hand Sanitizer
	Restrooms		

**EXPO FLOOR HIGHLIGHTS**

	NFMT Member Lounge		Booth #306
	Grand Prize Drawing		Booth # 409
	Exhibitor Lounge		
	Exhibitor Space Selection		
	Cyber Center		
	Information/NFMT Booth		

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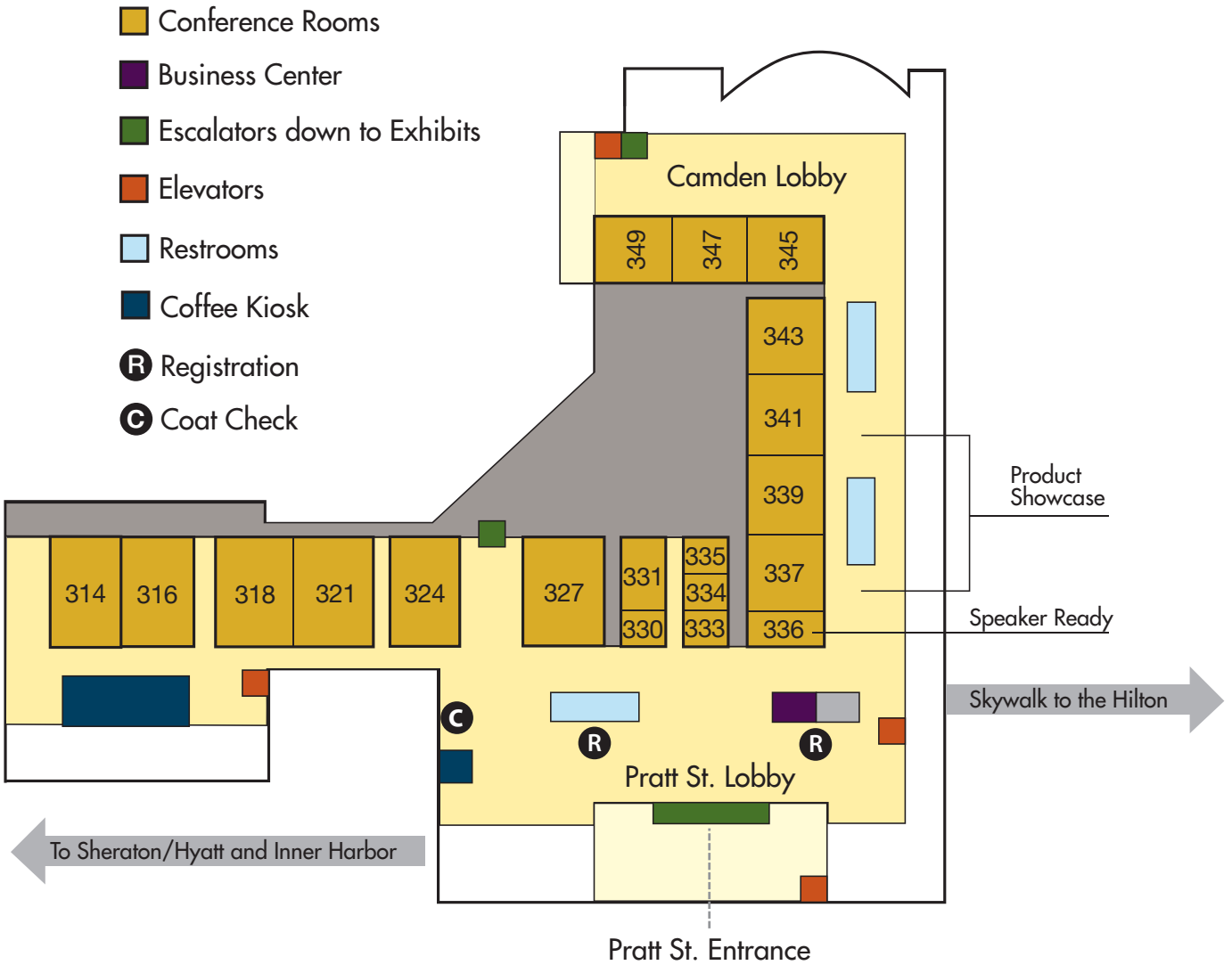
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	Sloan		Booth # 1507
	Building Operating Management Magazine		Booth # 409
	Maintenance Solutions Magazine		Booth # 409







# 300 Level Floor Map



## Special Events

### ROOM 314

- Thursday, 2:10 - 4:00 p.m. The Disaster Experience\*  
\*Special Fee Applies

### ROOM 316 - GENERAL SESSIONS

- Tuesday, 8:00 - 8:50 a.m. FMXcellence: Elevating the Role of Facility Managers
- Thursday, 8:00 - 8:50 a.m. Unconventional Facilities Management: Leaders Who Use Creativity and Flexibility to Run Facilities.

### ROOM 349

- Wednesday, 3:10 - 6:00 p.m. Women in Facilities

## Baltimore Convention Center

### LEVEL 300

Registration and Conferences

### LEVEL 200

Pratt Street Entrance  
Show/Press Office


### LEVEL 100

Exhibit Floor

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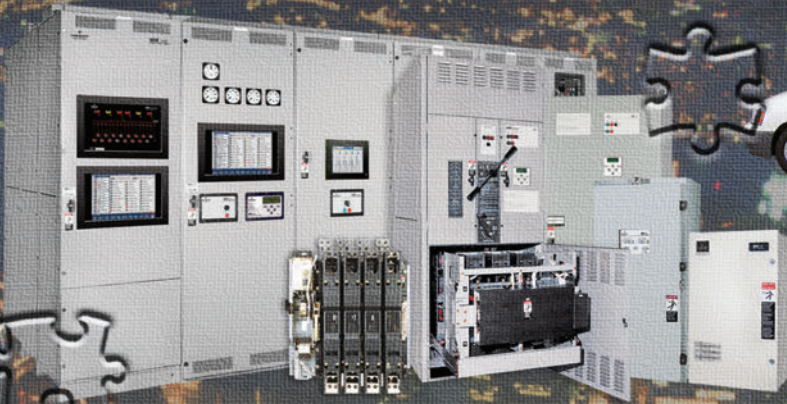
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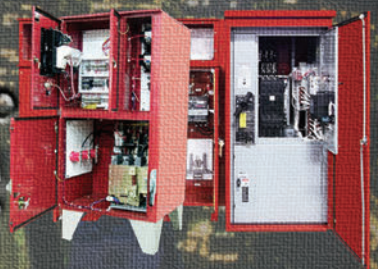
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