

2012 EVENT DIRECTORY

BUILDING OPERATING MANAGEMENT'S

NFMT 2012

National Facilities Management & Technology March 13-15, 2012 • Baltimore

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FM

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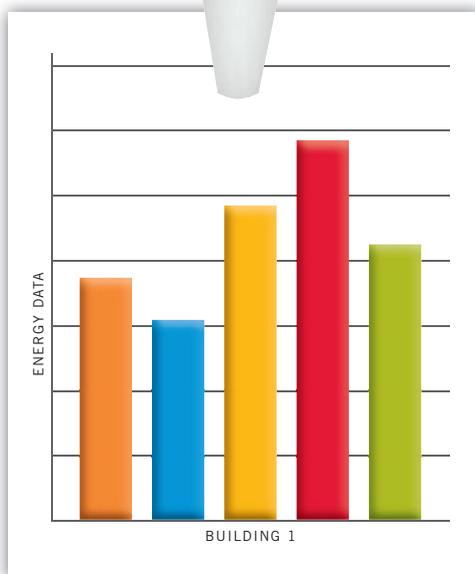
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BUILDING OPERATING MANAGEMENT'S NFMT2012

National Facilities Management & Technology March 13-15, 2012 • 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

BUILDING OPERATING MANAGEMENT'S
NFMT2012



Welcome to NFMT!

As always, it is a pleasure to welcome attendees, exhibitors and speakers to our event. I hope the next three days provide you with the resources you need to make this year rewarding, productive and downright inspiring for you, your colleagues and your organization. In fact, inspiration is something NFMT is focusing on more than ever this year. The ongoing economic challenges haven't made operating facilities any easier – budgets are still tight, staff levels remain low and many initiatives linger on the back burner. But we also know that there are many success stories to be found in our industry – stories that highlight innovation, encourage saving precious resources, and help move an organization forward by aligning the facility with the organization's overall mission and vision.

It's that kind of motivation that will be front and center at the 3rd annual FMExcellence Recognition program Tuesday morning at 8:00 a.m. (page 20). This year, we're shining the spotlight on four richly deserving FM departments: the Office of Security Programs, Architect of the Capitol; Crouse Hospital; EMD Serono, Inc.; and Munich Reinsurance America, Inc. This session isn't just about handing out an award – it's a great opportunity to hear firsthand how best-in-class initiatives are developed and implemented.

On Wednesday afternoon, we're thrilled to offer our groundbreaking "Women in FM" panel (page 42) that allows for a frank discussion of the unique challenges – and benefits – of working in an industry that is opening its doors to people from an ever-widening variety of backgrounds. Now in its fifth year, this session has become a can't-miss for many, and I look forward to hearing what emerges from this year's conversation.

And on Thursday morning, you'll want to get here early for a front row seat to hear Lenny Jachimowicz's observations on what leadership is – and isn't (page 44). Now the Vice President of Engineering and Facilities Management, Global Operation Services at Marriott, Lenny's professional life has given him a unique perspective on the qualities needed to lead an FM team and in so doing create a rewarding, fulfilling career.

When you're not taking in one of our top-notch education sessions, be sure to spend some time in our exhibit hall. Here you'll find products, services and solutions that can play a significant role in making your facility better, safer and more cost-effective. Take full advantage of all the show has to offer: grab lunch with a fellow attendee on the exhibit floor, join in the fun at the Networking Party on Tuesday evening and participate in the discussions at Wednesday morning's Solutions Exchange event (page 10-11). After all, you never know when inspiration will strike.

Again, welcome to NFMT. Enjoy the show.



Bob Wisniewski
President and CEO
NFMT

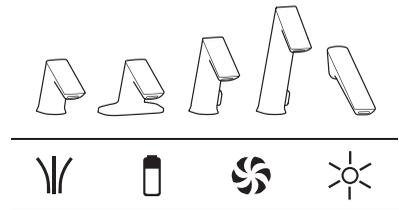
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Automated Logic is a leading provider of innovative building management solutions that provide the highest possible energy efficiency, while ensuring occupant comfort. Automated Logic is a part of UTC Climate, Controls & Security Systems, a unit of United Technologies Corp.



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Sloan is the world's leading manufacturer of commercial plumbing systems and has been in operation since 1906. Headquartered in Franklin Park, Illinois, the company is at the forefront of the green building movement and provides sustainable restroom solutions by manufacturing water and energy-efficient products such as flushometers, electronic faucets, sink systems, soap dispensing systems and vitreous china fixtures for commercial, industrial and institutional markets worldwide.



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Sodexo increases our client's competitiveness by delivering innovative workplace solutions that improve the building environment, increase employee engagement, and enhance workplace and organizational effectiveness. Ultimately, our commitment to Quality of Daily Life delivers tangible business outcomes and shareholder value at all levels of the organization. Stop by our exhibit booth to learn more about technical facilities careers at Sodexo.

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Booth #1020



Publication Bin



Booth #1012



Booth #1836



Booth #1111



Booth #2386



Maryland Chapter
 Booth #2487



Booth #2589



Booth #1411



Booth #2568



Booth #2584



Booth #2489

Show Highlights

Here are a few of the special events throughout the three days at NFMT.

Tuesday, March 13

8:00 – 8:50 am

Room 316

General Session – 2012 FMXcellence: Adding Value to Your Organization

Every year at NFMT we recognize the FMXcellence Honorees. This year hear the four organizations discuss the projects that earned them the title of FMXcellence Honoree. For a detailed description please go to page 20.



9:00 – 9:50 am

Room 314

Members Only: FMXcellence Roundtable

NFMT Members — join us after the General Session for an exclusive opportunity to delve into deeper conversations with the 2012 FMXcellence Honorees.

3:15 p.m. – 3:45 p.m.

Booth 1022 - Prize Stage

Tweetup – Calling All Social Media Users

Do you use Twitter, LinkedIn or Facebook for networking or to help with your job? If so, join us on at the Grand Prize stage area to network with other social media junkies and novices alike. You might even win a prize! Plus, follow NFMT on social media for additional chance to win prizes throughout the week.



4:00 – 5:00 p.m.

Pratt Street Lobby

Opening Night Networking Party

Party like a rock star, better yet party like a facilities manager! Enjoy adult beverages, food, and entertainment while mingling with fellow attendees and exhibitors at the NFMT 2012 Opening Night Networking Party.

Sponsored by:



Wednesday, March 14

7:45 – 8:50 am

Pratt Street Lobby

Solutions Exchange

Energy efficiency and savings, lighting, building controls, roofing, doors, budgets, renewable energy, plus more are some of the topics that will be discussed! Join us at Solutions Exchange for a round-robin, speed learning event featuring popular FM topics. You'll be able to participate in up-to three discussions from over 20 options. For more information or to read detailed discussions options please go to pages 10-11. **Free coffee for all participants.**

3:10 – 5:00 p.m.

Room 349

2012 Edition of the Women in Facilities/Property Management Panel

Join us for the fifth annual Women in Facilities/Property Management Panel at NFMT. Three highly inspiring women will share their stories on how they reached their current positions, creating a work/life balance, how sustainability is elevating females in the industry, plus they'll answer your questions.

5:00 – 8:00 p.m.

IFMA Chesapeake Chapter Reception Sports Legends Museum 301 West Camden Street

All NFMT attendees and guests are invited to the IFMA Chesapeake Chapter Reception for fellowship and networking at the Sports Legends Museum at Camden Yards. Just a short walk from the convention center. \$25 per person.



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Delayed Egress

Show Highlights

Thursday, March 15

8:00 – 8:50 a.m.

Room 316

General Session — Engage in the Five C's of Leadership for Success

Join Lenny Jachimowicz, who has catapulted up the Marriott corporate ladder from plumber to Vice President, Engineering and Facilities Management for Global Operations, for a discussion on the vital role leadership plays in a facility professional's career — and how the Five C's of Leadership identified by PepsiCo's Chairman and CEO Indra Nooyi can be uniquely tailored to the facilities and engineering field. Find the detailed description on page 44.

Friday, March 16

8:00 a.m. – Noon

Room 337

It's not too late to register for the Post-Conference Workshop! Please see someone at the registration desk to register.

The Top 5 Things FMs should know about the ADA 2010 Standard*

Joan W. Stein, President & CEO, Accessibility Development Associates, Inc.

On March 15, 2012, major changes to title II and III of the Americans with Disabilities Act (ADA) – announced in 2010 – will become a requirement for ALL new construction, alterations and barrier removal. Understanding these changes is paramount to limiting the exposure of any organization to the threat of litigation. This interactive workshop will provide a platform to ask all the ADA questions you've never known who to ask. For more information go to page 57.

*Fee applies for workshops. \$99 for NFMT members, \$249 onsite for non-members.

ALL THREE DAYS

Learn about green upstairs, win some green downstairs!

Alumni Pin \$50 Hourly Giveaway

Wear your NFMT pin for a chance to win \$50. Each hour on the exhibit floor, one random, lucky attendee wearing their alumni pin will be handed \$50. It doesn't get any easier than that – the more time you spend in the exhibit hall the better your chances are to win. Don't have an alumni pin? Come to booth #1011 to pick up your lucky pin! Remember it must be located in a visible spot. Only attendees are eligible to win!



\$1,000 Daily Cash Drawing

Who wouldn't like \$1,000? All you need to do is fill out the ballot in your NFMT tote bag and have it stamped at BOTH booth #2129 and booth #1302. Once you receive both stamps drop your ballot in the entry box at either booth listed above. No need to re-enter each day, all non-winning ballots will be included in the next day's drawing. Please see the ballot for full terms and conditions. Daily drawing will take place at booth #1022. Good luck!

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NFMT Online and On Your Phone

Use your smart phone and go to www.nfmt.com/baltimore for session and exhibitor information on-the-go. The NFMT website is designed for easy use on your smartphone.

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

Social Media: Follow NFMT on social media sites 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 the week as well.





Innovation Thru Inspiration

At Sodexo we believe that Quality of Daily Life contributes to the progress of individuals and the performance of organizations. Clients in 80 countries, across 34 thousand sites, trust Sodexo as a strategic partner to deliver solutions that positively affect their organization's success.

Our Success Is Our People

Sodexo's facilities managers, energy experts, and project engineers design, manage, and deliver comprehensive services solutions that deliver tangible results.

We encourage you to stop by our exhibit booth and learn more about Sodexo's technical services and careers.



NETWORK WITH US AT BOOTH 2429



#NFMT12

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Quality of Daily Life Solutions

Solutions Exchange

Wednesday, March 14 • 7:45 a.m. - 8:50 a.m. • Pratt Street Lobby

Building Automation, Building Envelope, Capital Budgets, Door Solutions, Energy Efficiency, Energy Standards, Heating and Cooling, Lighting, Parking Concerns, Renewables, Roofing, Technology, and More...

Attend this event to network and brainstorm – with both industry experts and your peers – on topics that affect every aspect of your facility. This round-robin, speed-learning, highly interactive experience is not to be missed. Free coffee for all attendees!

Choose up to THREE topics from the list below:

TABLE TOPIC

HOSTED BY:

Energy Audit for Mechanical Insulation

Mechanical systems consume large amounts of energy and the process pipes uses to transport these elements offer ample opportunity for energy loss to occur. Attend this discussion to learn how properly installed mechanical insulation can reduce energy loss, save money and prevent condensation from forming on pipes and ductwork.



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.



Wireless Temperature Monitoring Solutions for All Industries

Attend this discussion to learn about wireless temperature solutions that transmit real-time data, instantaneous alerts and reports, historical data files and documentation of corrective actions.



Lighting Efficiency versus Effectiveness

Many engineered energy projects focus on the efficiency of the lighting recommendations. Come to this table to learn about the variables you need to determine to get what you pay for.



An Introduction to Integrated Workplace Management Systems (IWMS)

Today, many fortune 500 companies and government organizations are realizing the value in having an integrated workplace management system (IWMS) to effectively manage the lifecycle of their facilities. Attend this session to learn more about IWMS.



ISO 50001: Are you ready for the New Energy Management Standard?

This roundtable will discuss steps and tools that your organization can adopt and comply with ISO 50001 requirements to manage your energy use and consumption, including establishing enterprise energy policy and programs, measurement and analysis, identifying non-conformities, facilitating corrective measures, and facilitating the management of energy supply through consumption.



Green Technologies for Parking

Attend this discussion to talk about green technologies that support parking and reduce carbon footprints by improving mobility and facility operation and maintenance. Discuss solutions for way finding signage, congesting reduction, payment processing and facility lighting.



Noisy Offices? How Sound Masking Can Help

This discussion will tackle the issue of office noise and how facility managers can include sound masking as part of their acoustical design approach to minimize distractions, improve privacy and create more comfortable spaces to work in.



TABLE TOPIC

SPONSOR

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.

**Pepco & Delmarva Power C&I Energy Savings Program**

Attend this discussion to learn about the cash incentives available to Maryland customers for a range of energy efficiency projects. From changing out light fixtures to replacing major mechanical equipment, the program provides cash incentives for upgrading to energy efficient equipment and systems.



C&I Energy Savings Program

Payback Periods for Lighting Projects

By deciding to invest in an energy-efficient lighting system, businesses allow themselves the opportunity to realize large reductions in operational costs. Often, projects of this type have a 1-3 year simple payback. Attend this discussion to learn how a system can pay for itself through the energy savings realized in as little as a year.

**Connecting and Interfacing Building Automation Systems**

Attend this discussion to talk about the advantages of linking together dissimilar building systems in order to start getting a comprehensive look at your efficiencies in energy usage, your dollars spent per utility system or per building, and how to develop creative dashboard displays to help make faster, smarter decisions about how and where your energy is used.

**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.

**EISA ACT and What You Need to Know**

Attend this discussion to learn more about The Energy Independence and Security Act of 2007 (EISA 2007) and the common lamp types that will be affected. We will discuss solutions as easy as a "Simple Socket Swap" to technology and fixture changes and alternative choices to replace your T12, T8 and PAR lamps which will be affected by this legislation.

**UVC and Energy Savings**

Imagine an investment that controlled energy costs and boosted productivity. Attend this discussion to learn how UVC can save energy and water costs, improve building air quality and reduce HVAC maintenance.

**Facade Restoration: Exterior Aluminum Restoration and Maintenance**

Discuss how to avoid costly mistakes when preserving or enhancing clad systems with the use of clear or colored high-performance coating.

**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.

**Creating Defensible Capital Budgets in an Uncertain Economy**

We are still in a period of time where every dollar needs to be justified and accounted for. Attend this table to discuss how to create a capital budget that you can defend and will be approved.

**Renewable Energy — Making an Impact on the Market**

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



Sessions At-A-Glance

Tuesday
MARCH 13

8:00-8:50 a.m.

Room Course Title

316 TS.16 2011 FMXcellence: Adding Value to Your Organization

9:00-11:50 a.m.

331 T1.31 COBie Challenge and Case Studies

9:00-9:50 a.m.

314 T1.14 Members Only: FMXcellence Roundtable
 318 T1.18 Reducing Energy, Water and Tax Bills for Buildings
 321 T1.21 Acoustical Impact and Green Office Design
 324 T1.24 First Things First: Improving Energy Efficiency in Existing Buildings
 327 T1.27 Demand Optimization with Lighting
 337 T1.37 Quick and Dirty: Early Grounds Projects from a Facilities Master Plan
 339 T1.39 Building Enclosure Commissioning and Retrocommissioning
 341 T1.41 Improving Power Reliability
 343 T1.43 New Leader's Guide to a High Performing Facilities Organization
 345 T1.45 Is Technology Managing You or Are You Managing Technology?
 347 T1.47 Facility Assessments: From A to Z
 349 T1.49 Energy Harvesting Building Technologies & Tax Incentives for Commercial Building

10:00-10:50 a.m.

318 T2.18 Operational Tools to Analyze and Benchmark Multiple Facility Portfolios
 321 T2.21 Renewable Energy and Sustainability in Whole Building Design Guide
 324 T2.24 Funding Energy Efficiency Improvements
 327 T2.27 Codes and Controls: Commercial Building Energy and Green Code Requirements for Lighting Controls
 330 T2.30 The Role of Sustainable Initiatives in Reducing Energy Consumption
 337 T2.37 Seven Keys to Facilities Asset Sustainability
 339 T2.39 Integrated Energy Efficient and Renewable Solar Retrofit Roof Systems
 341 T2.41 Basics of Standby Power
 343 T2.43 Implementing NFPA 70E for Arc Flash Safety
 345 T2.45 Unraveling the 5 Myths of On the Job Training
 347 T2.47 Finance 101 for Facilities Managers
 349 T2.49 Making it Run Right

11:00-11:50 a.m.

318 T3.18 Greening Towards Your Bottom Line
 321 T3.21 Real Business Benefits for Green Cleaning
 324 T3.24 Proven Energy Saving Programs & Initiatives
 327 T3.27 Delivering Green Design with Testing Adjusting and Balancing a HVAC System
 330 T3.30 Facilities Management Institute: Implementing the Federal Buildings Personnel Training Act
 337 T3.37 Pavement Management

339 T3.39 Financial Management: Helping Managers Create Bottom-Line Benefits
 341 T3.41 Perfect Power; A Perfect Way to Grid Independence
 343 T3.43 Obtaining Capital Funding with Accurate Data and Analysis
 345 T3.45 The FM of Today versus the FM of Tomorrow
 347 T3.47 Energy Management and the Green Data Center
 349 T3.49 The Impact of Integrated Smart Controls on Building Design

Noon-4:00 p.m. Exhibit Hall Open

3:45 p.m. \$1,000 Daily Drawing. Sponsored by:



4:00-5:00 p.m. Networking Party — Pratt Street Lobby
Sponsored by:



Wednesday
MARCH 14

7:45-8:50 a.m. Solutions Exchange — Pratt Street Lobby

9:00-9:50 a.m.

318 W1.18 Selecting The Right Standard
 321 W1.21 High-Performance and Outcome-Based: An Emerging Market for Facility Services
 324 W1.24 ASHRAE's Building Energy Quotient (BEQ): How Does Your Facility Stack Up?
 327 W1.27 Bagging Conventional Indoor Lighting for LED
 337 W1.37 Communicating with the E-Suite in Preparation for Economic Recovery
 339 W1.39 What Lies Beneath: An Analysis of Parking Lot Maintenance
 341 W1.41 Plug Load in Commercial Offices
 343 W1.43 The Do's and Don'ts of Fire Alarm/Suppression Inspection, Testing and Maintenance
 345 W1.45 The Eight Steps to Success for Maintenance Planning and Scheduling
 347 W1.47 Understanding the Fundamentals of Facilities Risk Analysis
 349 W1.49 Verifying Sustainable Roofing Assets with RoofPoint

10:00-10:50 a.m.

- 318 W2.18** Transpare: A New Platform for Evaluating Environmental Preferability
321 W2.21 Sustainable Commercial Landscape Management
324 W2.24 Building Renovation Improves Energy Efficiency and Sustainable Performance
327 W2.27 Finding Problems Using Thermal Imaging: Faster, Safer and More Accurate
337 W2.37 Metering, Measuring and Verification Strategies
339 W2.39 Complying with the Federal Buildings Personnel Training Act
341 W2.41 Remote Diagnostics and Failure Prevention on Standby Generator Systems
343 W2.43 Legionella and Waterborne Pathogens: What's in Your Reclaimed Water?
345 W2.45 Three Keys to Sustaining Organizational Change
347 W2.47 Smart Buildings: Energy Optimization Technology for Efficiency and Savings
349 W2.49 Linking End User Data to FM Solutions

11:00 a.m.-3:00 p.m. Exhibit Hall Open

2:45 p.m. \$1,000 Daily Drawing. Sponsored by UGL Services and Global Electric MotorCars by POLARIS.

3:10-4:00 p.m.

- 321 W3.21** Sustainable Glass Solutions
324 W3.24 Energy Efficiency in Commercial Real Estate — Double Bottom Line
327 W3.27 Lighting Efficiency or Effectiveness?
330 W3.30 Doing Business with the GSA (extended session)
337 W3.37 Your Building's Weather Barrier — What Every Facility Manager Should Know
341 W3.41 Codes and Standards for Emergency Power Systems
343 W3.43 The Six Myths of Disaster Planning: Lessons Learned in Turbulent Times
345 W3.45 Hot Topics in Labor and Employment Laws
347 W3.47 A New Tiered Approach to Employing Facility Condition Assessments
349 W3.49 2012 Edition of Women in Facilities Management Roundtable (extended session)

4:10-5:00 p.m.

- 337 W4.37** Data Centers: Scalable, Modular, Flexible, Efficient, Designs
339 W4.39 Ensuring Fire Safety for Food Service Operations in Commercial Facilities
341 W4.41 The ENERGY STAR Portfolio Manager Tool
343 W4.43 BIM and Facility Management: An Owner's Perspective
345 W4.45 Raising the Bar: Differentiating Yourself in the FM Marketplace
347 W4.47 Systems Integration Best Practices

Thursday

MARCH 15

8:00-8:50 a.m.

- 316 RS.16** Engage in the Five C's of Leadership for Success

9:00-9:50 a.m.

- 318 R1.18** The Formation of a Robust Recycling Program for Roofing
321 R1.21 Toxic-free, Chemical-free, Cleaning Strategies
324 R1.24 Using EPAAct to Make Energy Projects Possible
327 R1.27 Performing Effective Building System Re-Commissioning Studies
337 R1.37 I Survived: ADA & Safety Code Compliances in Pakistan
341 R1.41 The Grid Behind the Meter
343 R1.43 Implementing Video Image Detection for Life Safety
345 R1.45 Do you know your Peoples' Skill Gap?
347 R1.47 Identify and Quantify Mission-Critical Factors
349 R1.49 Optimizing Energy Efficiency without Compromising Occupant Comfort

10:00-10:50 a.m.

- 318 R2.18** How LEED-EBOM 2012 Will Affect Your Green Cleaning Program
321 R2.21 Preparing to Lead Sustainability Initiatives
324 R2.24 High Rate of Return Energy Efficiency Hiding in Mechanical Rooms
327 R2.27 Risks and Rewards of LED Lighting
337 R2.37 I Survived: FM Above the Arctic Circle
339 R2.39 A Review of the Final ADA Regs
341 R2.41 The Dollars and Sense of Power Reliability
343 R2.43 Healthcare Compliance Issues
345 R2.45 Developing A Leadership Style That Fits You and Leads To Success
347 R2.47 Important Factors to Avoid Low Sloped Roofing System Failure
349 R2.49 Seismic Assessment: Washington Monument

11:00 a.m.-2:00 p.m. Exhibit Hall Open

1:45 p.m. \$1,000 Daily Drawing. Sponsored by UGL Services and Global Electric MotorCars by POLARIS.

2:10-3:00 p.m.

- 318 R3.18** Developing a Sustainable Program
321 R3.21 To LEED or Not to LEED
324 R3.24 Energy Reduction Planning
327 R3.27 A Road Map for Lifecycle BIM
337 R3.37 I Survived: Walter Reed Medical Center
339 R3.39 CO2 Reduction, Water and Energy Conservation on the HVAC systems
343 R3.43 Using AHRI Certified® HVAC and Water Heating Products to Meet Building Energy Targets
345 R3.45 Project Management 101
349 R3.49 Monitoring Based Commissioning Enhances Sustainability

3:10-4:00 p.m.

- 337 R4.37** Sustainable Infrastructure Assessments — More Bang for the Buck
339 R4.39 Unlocking Efficiency: Keys to a Successful Energy Management Program
343 R4.43 ASHRAE Standard 188P: Prevention of Legionellosis
347 R4.47 Acoustical Problem Solving for the Facility Manager



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*~Mario Ruiz,
Associate Facility Team Leader*

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Tracks At-A-Glance

Energy Efficiency, Upgrades and Utilities Sessions

Room	Course	Title
318	T1.18	Reducing Energy, Water and Tax Bills for Buildings
324	T1.24	First Things First: Improving Energy Efficiency in Existing Buildings
327	T1.27	Demand Optimization with Lighting
339	T1.39	Building Enclosure Commissioning and Retrocommissioning
349	T1.49	Energy Harvesting Building Technologies & Tax Incentives
324	T2.24	Funding Energy Efficiency Improvements
324	T3.24	Proven Energy Saving Programs & Initiatives
347	T3.47	Energy Management and the Green Data Center
324	W1.24	ASHRAE's Building Energy Quotient (BEQ)
347	W2.47	Smart Buildings: Energy Optimization Technology for Efficiency
324	W3.24	Energy Efficiency in Commercial Real Estate -- Double Bottom Line
341	W4.41	The ENERGY STAR Portfolio Manager Tool
324	R1.24	Using EPAAct to Make Energy Projects Possible
349	R1.49	Optimizing Energy Efficiency without Compromising Occupant Comfort
327	R2.27	Risks and Rewards of LED Lighting
324	R3.24	Energy Reduction Planning
339	R3.39	CO2 Reduction, Water and Energy Conservation on the HVAC systems
339	R4.39	Unlocking Efficiency: Keys to a Successful Energy Management Program

Green Standards Sessions

321	T3.21	Real Business Benefits for Green Cleaning
318	W1.18	Selecting The Right Standard
318	W2.18	Transpare: A New Platform for Evaluating Environmental Preferability
318	R1.18	The Formation of a Robust Recycling Program for Roofing Systems
321	R1.21	Toxic-free, Chemical-free, Cleaning Strategies
318	R2.18	How LEED-EBOM 2012 Will Affect Your Green Cleaning Program
321	R3.21	To LEED or Not to LEED

Greening an Existing Building Sessions

318	T1.18	Reducing Energy, Water and Tax Bills for Buildings
321	T1.21	Acoustical Impact and Green Office Design
321	T2.21	Renewable Energy and Sustainability in Whole Building Design Guide
324	T2.24	The Role of Sustainable Initiatives in Reducing Energy Consumption
337	T2.37	Seven Keys to Facilities Asset Sustainability
318	T3.18	Greening Towards Your Bottom Line
321	W1.21	High-Performance and Outcome-Based
324	W2.24	Building Renovation Improves Energy Efficiency and Sustainable Performance
321	W3.21	Sustainable Glass Solutions
321	R2.21	Preparing to Lead Sustainability Initiatives
327	R2.27	Risks and Rewards of LED Lighting
318	R3.18	Developing a Sustainable Program
324	R3.24	Energy Reduction Planning
337	R4.37	Sustainable Infrastructure Assessments - More Bang for the Buck

Leadership and Career Advancement Sessions

316	TS.16	2011 FMXcellence: Adding Value to Your Organization
314	T1.14	Members Only: FMXcellence Roundtable
343	T1.43	New Leader's Guide to a High Performing Facilities Organization
345	T1.45	Is Technology Managing You or Are You Managing Technology?
347	T2.47	Finance 101 for Facilities Managers
345	T3.45	The FM of Today versus the FM of Tomorrow
345	W1.45	The Eight Steps to Success for Maintenance Planning and Scheduling
345	W2.45	Three Keys to Sustaining Organizational Change
345	W3.45	Hot Topics in Labor and Employment Laws
349	W3.49	2012 Edition of Women in Facilities Management Roundtable
345	W4.45	Raising the Bar: Differentiating Yourself in the FM Marketplace
316	RS.16	Engage in the Five C's of Leadership for Success

345	R1.45	Do you know your Peoples Skill Gap?
321	R2.21	Preparing to Lead Sustainability Initiatives
337	R2.37	I Survived: FM Above the Arctic Circle
345	R2.45	Developing A Leadership Style That Fits You and Leads To Success
337	R3.37	I Survived: Walter Reed Medical Center

Maintenance and Operations Sessions

337	T1.37	Quick and Dirty: Early Grounds Projects from a Facilities Master Plan
347	T1.47	Facility Assessments: From A to Z
318	T2.18	Operational Tools to Analyze and Benchmark Portfolios
337	T2.37	Seven Keys to Facilities Asset Sustainability
339	T2.39	Integrated Energy Efficient and Renewable Solar Retrofit Roof Systems
343	T2.43	Implementing NFPA 70E for Arc Flash Safety
337	T3.37	Pavement Management
339	T3.39	Financial Management: Helping Managers Create Bottom-Line Benefits
339	W1.39	What Lies Beneath: An Analysis of Parking Lot Maintenance
345	W1.45	The Eight Steps to Success for Maintenance Planning and Scheduling
321	W2.21	Sustainable Commercial Landscape Management
327	W2.27	Finding Problems Using Thermal Imaging
337	W2.37	Metering, Measuring and Verification Strategies
343	W2.43	Legionella and Waterborne Pathogens: What's in Your Reclaimed Water?
337	W3.37	Your Building's Weather Barrier
339	W4.39	Ensuring Fire Safety for Food Service Operations in Commercial Facilities
324	R2.24	High Rate of Return Energy Efficiency Initiative May be Hiding in Your Facility Mechanical Rooms
339	R2.39	A Review of the Final ADA Regs
347	R2.47	Important Factors to Consider to Avoid Low Sloped Roofing System Failure
337	R3.37	I Survived: Walter Reed Medical Center
343	R3.43	Using AHRI Certified® HVAC and Water Heating Products to Meet Building Energy Targets
343	R4.43	ASHRAE Standard 188P: Prevention of Legionellosis

Power: Generation and Reliability Sessions

341	T1.41	Improving Power Reliability
341	T2.41	Basics of Standby Power
341	T3.41	Perfect Power: A Perfect Way to Grid Independence
341	W1.41	Plug Load in Commercial Offices
341	W2.41	Remote Diagnostics and Failure Prevention on Standby Generator Systems
341	W3.41	Codes and Standards for Emergency Power Systems
341	R1.41	The Grid Behind the Meter
341	R2.41	The Dollars and Sense of Power Reliability

Safety and Security Sessions

343	T2.43	Implementing NFPA 70E for Arc Flash Safety
343	W1.43	The Do's and Don'ts of Fire Alarm/Suppression Inspection, Testing and Maintenance
343	W3.43	The Six Myths of Disaster Planning: Lessons Learned in Turbulent Times
337	R1.37	I Survived: ADA & Safety Code Compliances in Pakistan
343	R1.43	Implementing Video Image Detection for Life Safety and Intrusion Detection
337	R2.37	I Survived: FM Above the Arctic Circle
339	R3.39	A Review of the Final ADA Regs
343	R2.43	Healthcare Compliance Issues
343	R4.43	ASHRAE Standard 188P: Prevention of Legionellosis Associated with Building Water Systems

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Tracks At-A-Glance

Staff Training and Development Sessions

- 345 T2.45 Unraveling the 5 Myths of On the Job Training
 330 T3.30 Facilities Management Institute: Implementing the Federal Buildings Personnel Training Act
 345 T3.45 The FM of Today versus the FM of Tomorrow
 339 W2.39 Complying with the Federal Buildings Personnel Training Act
 349 W3.49 2012 Edition of Women in Facilities Management Roundtable
 345 R3.45 Project Management 101

Strategic Planning Sessions

- 339 T1.39 Building Enclosure Commissioning and Retrocommissioning
 343 T3.43 Obtaining Capital Funding with Accurate Data and Analysis
 337 W1.37 Communicating with the E-Suite in Preparation for Economic Recovery
 349 W2.49 Linking End User Data to FM Solutions
 331 W3.31 Doing Business with the GSA
 345 R3.45 Project Management 101

Systems Sessions

- 327 T1.27 Demand Optimization with Lighting
 327 T2.27 Codes and Controls: Commercial Building Energy and Green Code
 349 R2.49 Making it Run Right
 327 T3.27 Green Design with Testing Adjusting and Balancing HVAC Systems
 327 W1.27 Bagging Conventional Indoor Lighting for LED
 327 W3.27 Lighting Efficiency or Effectiveness?
 327 R1.27 Performing Effective Building System Re-Commissioning Studies
 347 R1.47 Identify and Quantify Mission-Critical Factors
 324 R2.24 High Rate of Return Energy Efficiency Initiative

Technology Sessions

- 331 T1.31 COBie Challenge and Case Studies
 349 T2.49 Making it Run Right
 347 T3.47 Energy Management and the Green Data Center
 349 T3.49 The Impact of Integrated Smart Controls on Building Design
 324 W1.24 ASHRAE's Building Energy Quotient (BEQ)
 347 W1.47 Understanding the Fundamentals of Facilities Risk Analysis
 349 W1.49 Verifying Sustainable Roofing Assets with RoofPoint
 347 W3.47 A New Tiered Approach to Employing Facility Condition Assessments
 337 W4.37 Data Centers: Scalable, Modular, Flexible, Efficient, Designs
 347 W4.47 Systems Integration Best Practices
 347 R1.47 Identify and Quantify Mission-Critical Factors
 327 R2.27 Risks and Rewards of LED Lighting
 349 R2.49 Seismic Assessment of the Washington Monument and the Washington National Cathedral
 327 R3.27 A Road Map for Lifecycle BIM
 349 R3.49 Monitoring Based Commissioning Enhances Sustainability
 347 R4.47 Acoustical Problem Solving for the Facility Manager

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- Certified Safety Professional Board
- Engineering Institute of Canada
- Federal Emergency Management Agency
- IAEI
- International Code Council
- International Facility Management Association
- National Electrical Contractors Association's MEI
- National Society of Professional Engineers
- NCEES (PE Licensure)
- Risk, Health, and Safety Management Solutions
- United States Environmental Protection Agency
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Conference Sessions



Tuesday
MARCH 13

9:00-11:50 AM

Technology

T1.31 • 331

COBie Challenge and Case Studies

Danielle Love, Research Civil Engineer, Construction Engineering Research Laboratory

This special extended and interactive session will showcase the impact a common data standard for the handover of facility information – COBie, the internationally recognized open-standard format for the exchange of building asset information – is having in practice. The COBie Challenge at NFMT allows software companies to demonstrate in real time the simplicity of consuming Facility Management handover information provided at or before occupancy of a new or renovated facility. This challenge will include live demonstrations and case studies by vendors of construction and asset management applications.

Learning Objective(s):

1. Understand the benefits of open BIM standards
2. Describe opportunities that are possible by sharing information in a BIM across a project
3. Understand current implementations of COBie

AUDIENCE: INTERMEDIATE CEU: 0.3

9:00-9:50 AM

Energy Efficiency, Upgrades and Utilities, Greening an Existing Building

T1.18 • 318

Reducing Energy, Water and Tax Bills for Buildings

Fraser Allport, CEO, Energy, Water and Taxes, LLC

Reduce energy and water bills with green technology and tax incentives. Most facilities substantially over-pay three of their largest variable costs: Their energy, water and tax bills. Property managers can reduce these three expenses by utilizing 21st century green technologies and various tax incentives. You can optimize your property's efficiency, sustainability

Tuesday, March 13 • 8:00-8:50 AM

Leadership and Career Advancement

TS.16 • 316

2012 FMXcellence: Adding Value to Your Organization

Building Operating Management's FMXcellence Recognition Program acknowledges FM departments that have added significant value to their organization by helping to achieve broader goals.

The NFMT 2012 conference will kick off with an overview of the 2012 honorees. Hear from a representative from each of the departments, while gathering great ideas you can take back to your department. Who knows, maybe next year you will be on the stage presenting a project?

2012 FMXcellence Honorees Include:

Architect of the Capitol
Crouse Hospital
EMD Serono, Inc.
Munich Reinsurance America, Inc

AUDIENCE: INTERMEDIATE CEU: 0.1



and profitability, thereby increasing its revenues, cash flow, market value and branding, while simultaneously reducing O&M.

Learning Objective(s):

1. Understand how to reduce utility bills for your property
2. Learn why implementing these efficiencies is important to the future value and marketability of your building
3. Learn where and how to start the process of greening your building
4. Learn the process of getting a building certified

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

T1.21 • 321

Acoustical Impact and Green Office Design

Jodi Jacobs, Marketing Director, Lencore Acoustics Corp.

With the driving goal to have green design accepted as a normal practice, it is critical that all components support an improvement in the space's functionality and comfort. However, many of the design changes have an adverse effect on acoustics and speech privacy, making it important to address proactively. This

course will review the elements of green office design that impact the acoustics, how sound masking can be used effectively to balance the environment for increased comfort and speech privacy, and the existing and pilot credits for acoustics under LEED.

Learning Objective(s):

1. Review the elements of green office design that impact the acoustics
2. Review how sound masking can be used effectively to balance the environment for a more comfortable space that meets the speech privacy needs of its occupants
3. Review the existing and pilot credits for acoustics under LEED

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

T1.24 • 324

First Things First: Improving Energy Efficiency in Existing Buildings

Jennifer L. Languell, PhD, President, Trifecta Construction Solutions

Success in reducing energy intensity depends on the ability to optimize the efficiency of existing facilities. This session will quantify the magnitude of energy wasted due to inefficiency and provide

actionable steps to implement effective efficiency measures in our facilities. In particular, this session will demonstrate the impact of building envelope airtightness on energy savings, share real world case studies, and offer strategies to avoid diminishing returns that results from inadvertently heating and cooling the great outdoors.

Learning Objective(s):

1. Demonstrate how energy inefficient existing building are
2. Provide actionable steps to implement energy efficient design
3. Explain the importance of an airtight building envelope
4. How to measure and analyze energy savings in new and retrofit buildings

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Systems
T1.27 • 327

Demand Optimization with Lighting
Scott Ziegenfus, Senior Applications Engineer, Lutron Electronics Co., Inc.

Demand Response (DR) is a requirement in many new energy standards and pertains to all types of energy, but most DR programs cover electricity. Two-thirds of building electrical load is HVAC and lighting. This presentation will first cover industry basics; the players, state regulations, economic vs. environmental DR programs, Smart Grid. It will then compare the management and productivity issues of HVAC and lighting and will show why lighting should not be left out because it is the easier and the less intrusive of the two to implement.

Learning Objective(s):

1. Overview and understanding of new energy standards requiring demand response
2. Overview of the electric industry landscape today and what might be tomorrow with demand response
3. What to think about when implementing a demand response program
4. Why lighting can be an easy "set it and forget it" DR strategy

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations

T1.37 • 337

**Quick and Dirty:
Early Grounds Projects from
a Facilities Master Plan**

Ken Gignac, Registered Landscape Architect, Project Manager, Ayers Saint Gross
Doug Sheredos, Registered Landscape Architect, Project Manager, Ayers Saint Gross
Jonathan Ceci, Director of Landscape Architecture Studio, Ayers Saint Gross

Landscape projects can be an attractive, cost-effective way for cash-strapped institutions to begin realizing broader master planning

goals. Successful landscapes can significantly upgrade the physical environment by creating positive first impressions and improving the quality-of-living for a fraction of the cost of a new building. This presentation will detail several master plans that were tailored to facilitate speedy implementation and profoundly transform institutions for the better. These examples include projects undertaken at the University of Scranton, Johns Hopkins University Applied Physics Laboratory, and Lafayette College.

Learning Objective(s):

1. Examine case studies of successful early implementation of master plans
2. Consider ways of packaging master plan recommendations tailored to the institutions' financial realities
3. Discuss ways of balancing expediency with quality of design and longevity
4. Understand the benefits of a quality designed and implemented open space

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities,
Strategic Planning

T1.39 • 339

**Building Enclosure
Commissioning and
Retrocommissioning**

Paul Totten, Senior Project Manager, Simpson Gumpertz & Heger, Inc.
Jennifer Williamson, Staff I - Building Technology, Simpson Gumpertz & Heger, Inc.

Building enclosure systems are critical components to separate the interior built environment from the exterior. If not evaluated correctly during new construction, long term operations and maintenance costs can increase complaints from occupants due to issues related to an underperforming building enclosure. Learn about the process used for building enclosure commissioning, the major aspects of the process using case studies, and retrocommissioning as it applies to continual evaluation of the enclosure for new and existing construction. Discussion will include diagnostic tools, such as infrared thermography.

Learning Objective(s):

1. Understand the process for building enclosure commissioning
2. Understand how diagnostics and functional performance testing of the building enclosure can be used on their projects
3. Understand the process used for retrocommissioning the building enclosure
4. Learn the importance of an air barrier system and the interaction between HVAC systems and the building enclosure

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

T1.41 • 341

Improving Power Reliability

Bhavesh Patel, Director, Marketing, ASCO Power Technologies

Electricity is a vital part of functioning as a society. One only needs to consider the consequences of a relatively short power outage – factories or offices close down, phones and computers go dead, food spoils in refrigerators, to name a few. Since every economy depends on continuous supply of good quality power, the desire for power reliability and continuity has evolved from a niche requirement to a mainstream need. Attend this session to learn key strategies for improving the reliability of power in a variety of facility settings.

Learning Objective(s):

1. Quantify the costs of power problems
2. Discuss traditional and emerging methods of improving power reliability
3. Identify regulatory environment that drives these changes
4. Share best practices facility managers could embrace for business continuity

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

T1.43 • 343

**New Leader's Guide to a High
Performing Facilities Organization**

Jim Turner, FM Consultant, MARKON, Inc.

This session introduces a maturity model concept that new managers of facilities management organizations can use to guide the development of their operations to success. Drawing from over 60 consulting projects to real estate and facilities managers, 11 facilities management competencies present themselves as key areas for assessment and development within the organizations. Whether it is the new leader's initial encounter with the organization, or a well-earned promotion has been granted, these competencies provide a framework for assessment and development that the new leader can use to elevate the department to a high-performing organization.

Learning Objective(s):

1. Identify 11 strategic competencies for the Facilities Management Organization (FMO)
2. Understand how to use these competencies for organizational assessment
3. Learn how to prioritize initiatives and incorporate the FMO competencies into your operation

AUDIENCE: INTERMEDIATE CEU: 0.1

Conference Sessions: Tuesday

Leadership and Career Advancement

T1.45 • 345

Is Technology Managing You or Are You Managing Technology?

Stormy Friday, President, The Friday Group

We embrace technology as a “necessary evil” in the day-to-day management of our FM organizations and have become totally dependent on email, voice mail, texting, tweeting, and other professional and social networking media. Some FM managers have substituted technology solutions for those that involve hard-core decision making and face-to-face interaction with staff, colleagues and senior executives. Sometimes technology over-takes effective management and communication with others. The session focuses on utilizing technology appropriately and when technology should not be substituted for other approaches. It isn't merely “getting back to basics,” but the ability to discern the right time and place for high-tech to be the tool of choice for an FM manager.

Learning Objective(s):

1. Identify the appropriate situations for a high-tech solution
2. Determine what technology tools to use in certain situations
3. Solidify the role of and function of an FM manager in a technology-driven business environment

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T1.47 • 347

Facility Assessments: From A to Z

Frank Kaleba, Senior Engineer, R&K Engineering

What is the value of assessments, and why are they important to you? Times are tough, but facility assessments pay off. This presentation will describe the applications for a wide range of facility assessments, including ASTM protocol and internal methods that can save money and improve ROI.

Learning Objective(s):

1. Describe facility assessment ASTM protocol
2. Discuss the range of methodologies available
3. Discuss the costs and benefits of a range of methods

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

T1.49 • 349

Energy Harvesting Building Technologies & Tax Incentives for Commercial Building

Cory Vanderpool, Business Development Director, EnOcean Alliance

Energy harvesting building technologies represent cost effective solutions for retrofits and new construction. There are incentives that can help building owners cover the costs related to their implementation. This presentation

aims to identify the importance of building sustainability and provides about existing state and federal incentives.

Learning Objective(s):

1. Understand the advantages of utilizing energy harvesting technologies in buildings for energy efficiency
2. Understand the Commercial Building Tax Deduction program
3. Understand the benefit of exploring state incentives for building retrofit initiatives
4. See real world examples of energy harvesting applications

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 AM

Greening an Existing Building

T2.18 • 318

Operational Tools to Analyze and Benchmark Multiple Facility Portfolios

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

The New York City Department of Education is the largest school district in the United States, opening its doors to 1.1 million students every day. The NYC DOE Division of School Facilities (DSF) is responsible for the safe and efficient operation of over 1,200 school buildings built between 1787 and 2012, with an average age of 65 years. Managing the maintenance and custodial operations of such a large and diverse portfolio requires many tools, including a means to independently analyze and benchmark building conditions to a high standard. To address this, DSF developed a solution called SchoolStat. Modeled on the CompStat crime accountability system instituted under Mayor Giuliani in 1995 to reduce crime and improve quality of life in New York City, SchoolStat uses independent inspectors to assess building conditions. The collected data is then analyzed to provide targeted feedback for building custodian engineers and their field managers on areas for improvement. This session will provide a non-technical discussion of how SchoolStat is used as a 360 degree process within the NYC DOE DSF. It was also provide insight into the day to day management of the organization.

Learning Objective(s):

1. Learn about the tools to analyze and benchmark need to maintain a large facilities portfolio
2. Understand the obstacles the DSF had to overcome to create its own internal tool SchoolStat
3. Understand the insight and information the DSF was able to gather using SchoolStat

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building

T2.21 • 321

Renewable Energy and Sustainability in Whole Building Design Guide

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

The Whole Building Design Guide is the premier resource for professionals, students and the general public to find building design information. WBDG is the largest online portal for building sciences in the world. WBDG advocates an integrated approach to the planning, design, construction, operation and maintenance of buildings. To meet today's stringent energy performance goals, building teams must look to new ideas in sustainability and renewable energy, while understanding the importance of O&M in maintaining performance over the long term. WBDG provides the resources to achieve these goals.

Learning Objective(s):

1. Understand the integrated approach to the building planning design construction, operations & maintenance process
2. Explore new renewable energy & sustainable design resources in WBDG
3. Understand the importance of O&M in achieving project design goals
4. Be aware of continuing education courses in WBDG

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities

T2.24 • 324

Funding Energy Efficiency Improvements

Brooke Bey Smallwood, Program Specialists, Pepco C&I

Today's facilities managers are constantly searching for innovative strategies to reduce energy consumption and operational costs. This session will address a number of funding mechanisms and programs which can assist facilities managers with finding ways to pay for energy and operational improvements. The session will cover demand response, energy efficiency programs, and tools which can escalate pay back, reduce operational costs and provide new streams of revenue.

Learning Objective(s):

1. Identify funding mechanisms which support energy efficiency projects in facilities
2. Understanding of how demand response programs work
3. Learn how continuous M&V and enterprise energy management provide ongoing savings
4. Learn the role of energy efficiency programs in helping to fund projects

AUDIENCE: INTERMEDIATE CEU: 0.1

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Conference Sessions: Tuesday

Systems

T2.27 • 327

Codes and Controls: Commercial Building Energy and Green Code Requirements for Lighting Controls

Michael Jouaneh, Marketing Manager, Lutron Electronics

Bob Freshman, Marketing Manager, Leviton Lighting & Energy Solutions

Mike Houston, Sr. Product Line Manager, WattStopper

Lighting controls can eliminate a significant portion of wasted lighting energy in buildings while enhancing occupant comfort and productivity. This session will review the mandated current and future lighting control requirements in standards/codes such as ASHRAE 90.1 2010 and IECC 2012.

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Technology

T2.30 • 330

The Role of Sustainable Initiatives in Reducing Energy Consumption

Swetha Madhusudanan, PhD Research Scholar, Sathyabama University, Chennai

Attend this session for a global perspective on decreasing energy use and lowering greenhouse gas emissions as part of the World Business Council for Sustainable Development's Global Climate Change challenge, which includes the goal of halving carbon emissions worldwide (based on 2005 levels) by 2050 through a shift to low-carbon energy systems. Using Acendas IT Park in Chennai, India as a case study, this presentation will detail an experiment that tapped into energy-efficient building design, including the use of double glazing, to prove the reduction of heat load on the building.

Learning Objective(s):

1. Understand how a major energy consumer can play a vital role in reducing overall energy consumption through sustainable measures
2. Review energy use trends on from a global perspective
3. Learn how addressing energy use in the building design process can result in less expensive, higher-performing buildings

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Maintenance and Operations

T2.37 • 337

Seven Keys to Facilities Asset Sustainability

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

One of the most economically and environmentally friendly initiatives a facility can implement is proactive maintenance on assets and systems. An organized proactive maintenance schedule will allow assets to

perform at peak optimization for much longer – avoiding costly repairs or replacing the asset. To achieve asset sustainability there are seven key areas facilities and maintenance managers should be considering including management, proper staffing, asset data management, work planning and scheduling, preventative and predictive maintenance, skill training and repair parts procurement and stocking. Attend this session for a better understanding on how to keep assets performing at peak optimization.

Learning Objective(s):

1. Learn how maintenance and operations can help to sustain sustainable operations
2. Understand the seven key areas for facility asset sustainability
3. Learn about the systems and software available for managing asset and system activities and history

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T2.39 • 339

Integrated Energy Efficient and Renewable Solar Retrofit Roof Systems

S. Mark James, President, RetroSpec, LLC

Retrofit re-roofing technologies have been around for more than four decades and with the current focus on building envelope upgrades for energy-efficiency and renewable solar energy, you can now incorporate increased thermal resistance and solar hot air/water and electricity in re-roofing plans. Collectively, these integrated re-roofing technologies can heat your building, provide electrical power and can even provide landscape irrigation through rainwater collection all in a roof assembly that is LEED accredited and now subsidized by federal tax credits and other local incentives.

Learning Objective(s):

1. Learn the benefits of metal roofing
2. Understand the issues with older roofing technologies and reasons to retrofit with metal
3. Review how retrofit systems are engineered to upgrade existing roofs to current code compliance
4. Learn how these assemblies play a major role in Energy Savings and LEED Certification

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

T2.41 • 341

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 details 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: BEGINNER CEU: 0.1

Maintenance and Operations, Safety and Security

T2.43 • 343

Implementing NFPA 70E for Arc Flash Safety

Daryn Lewellyn, President/Founder, Lewellyn Technology

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

Learning Objective(s):

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

AUDIENCE: INTERMEDIATE CEU: 0.1

Staff Training and Development

T2.45 • 345

Unraveling the 5 Myths of On the Job Training

Chuck Levine, EdD, President, Instructional Design Associates

On the Job Training (OJT) is everywhere; any time one person says to another "let me show you how to do this" they are doing OJT. The question is - what are they training? Is it correct, safe and does it follow procedure. Or is it "field folklore", a shortcut or an urban legend? In this session we will examine each of the five myths of OJT and discuss how they apply to today's workforce. The second part of the session we cover the six characteristics of excellent OJT training and you will have an opportunity to evaluate your own OJT training activities.

Learning Objective(s):



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OPERATIONS & MAINTENANCE | JANITORIAL | ENERGY SERVICES | OFFICE SERVICES | LANDSCAPING

Conference Sessions: Tuesday

1. Understand the five myths and apply them to your training needs
2. Use the myths as a management tool to improve the organization of the training
3. Use the characteristics of OJT training as an instructor training tool to help the trainers train more effectively

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement
T2.47 • 347

Finance 101 for Facilities Managers

Jim Wilton, VP, Marketing and Solution Management, Planon Software

Understanding and communicating the fiscal importance of real estate and facilities projects to executive management and the office of finance has never been more important. This session will walk through the key areas covered by facilities management to help facilities managers understand their cost drivers, reduce expenses, and justify their investment and secure the resources required to be successful.

Learning Objective(s):

1. Understand your property level budget
2. Uncover cost drivers and what opportunities exist to reduce property-related expenses
3. Learn the 10 key performance indicators that every CFO wants to see
4. Connect FM plans to overall corporate strategy and justify the investment in facilities management

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems, Technology
T2.49 • 349

Making it Run Right

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

There are many new products on the market that use less energy, provide more comfort, and conserve natural resources —unfortunately they all cost money. Sometimes the most cost effective improvements involve getting things to work the way they're supposed to. This presentation will show how to use existing building automation tools to find problems that are wasting money. Stuck dampers, outdated schedules, locked points, and similar problems can go unnoticed for years or they can easily be spotted by a few simple troubleshooting techniques.

Learning Objective(s):

1. Understand how common problems can lead to huge energy losses
2. Learn how existing building automation tools can help spot common problems
3. Learn simple programming tricks that can spot developing problems
4. Become aware of emerging tools that can make troubleshooting even easier

AUDIENCE: BEGINNER CEU: 0.1

11:00-11:50 AM

Greening an Existing Building

T3.18 • 318

Greening Towards Your Bottom Line

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

After a property or facilities manager has become knowledgeable on sustainable tools, benchmarked their building, appointed the team, received approval for the initiative and figured out how to pay for the initiative — it is time to start implementing these projects. This module will give participants the 30,000 foot view on different sustainable projects – from water to energy to waste management to indoor air quality – and provides effective sustainability project management strategies. This session will show you low cost/no cost solutions for sustainability in your existing buildings.

Learning Objective(s):

1. Understand the best way to venture into sustainable projects
2. Learn about the major sustainable areas including water, energy, waste and IAQ
3. Comprehend how to keep sustainable project implementation on track and on budget
4. Be able to communicate the implementation strategies to internal team and external stakeholders

AUDIENCE: INTERMEDIATE CEU: 0.1

Green Standards

T3.21 • 321

Real Business Benefits for Green Cleaning

LeRoy Dock, President, GSI Eco Healthy Cleaning

*Susan Heaton, Director/National Accounts Development, Green Seal Inc.
Marion E. Stecklow, MT, CIE, CHCM, ICE, Executive Director, Building Wellness Institute*

Join experts in sustainability and health from Green Seal, the Building Wellness Institute, and GSI Eco Healthy Cleaning for a presentation and discussion on the business benefits of cleaning to protect health and the environment. Case studies will be presented for a major league baseball stadium, commercial office property management company and county school district.

Learning Objective(s):

1. Understand the correlation between facilities maintenance and health
2. Explore science-based certification for the green products, processes and equipment
3. Understand how staff and building occupants benefit from green cleaning practices
4. Learn how to take your health and sustainability practices to the next level

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

T3.24 • 324

Proven Energy Saving Programs & Initiatives

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

This session will target proven energy saving programs and initiatives that can be overlooked by even the most experienced facilities manager. Regardless of building type, most buildings have yet to realize full operational energy saving opportunities and may still have attractive capital projects that could deliver short pay back periods. The presenter will discuss and supply a list of specific operational and capital related energy saving items that tie to HEI Hotels & Resorts Award winning Energy Conservation program (ENERGY STAR Partner of the Year 2010 & 2011).

Learning Objective(s):

1. Identify proven low cost/no cost operational energy savings items
2. Demonstrate how a group of small, easy to implement operational changes add up to substantial savings
3. Review select capital projects that may be worth revisiting as technology and pricing improve

AUDIENCE: BEGINNER CEU: 0.1

Systems

T3.27 • 327

Delivering Green Design with Testing Adjusting and Balancing a HVAC System

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

This presentation will cover the final component to make a HVAC system meet green design requirements. The importance of the testing, adjusting and balancing of the HVAC system is the single most integral part of a building truly being healthy inside. The topics covered in this presentation will touch on the do's and don'ts of commissioning/retro commissioning and testing, adjusting and balancing of HVAC systems, and the correlation between indoor air quality, energy consumption and commissioning.

Learning Objective(s):

1. How writing a modern day spec can cost the occupant energy and how to avoid that waste of energy
2. Increase audience's awareness of what it takes for a successful and optimal performing HVAC system
3. How division 23 specifications for construction and performance testing of HVAC systems are required to assure that the HVAC systems provide the proper airflow and indoor air to the occupants efficiently as possible

AUDIENCE: INTERMEDIATE CEU: 0.1



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Conference Sessions: Tuesday

Staff Training and Development

T3.30 • 330

Facilities Management Institute: Implementing the Federal Buildings Personnel Training Act

John Simpson, P.E., LEED AP, Program Manager - Federal Buildings Training Act, Office of Federal High-Performance Green Buildings, GSA

To implement the requirements of the Federal Buildings Personnel Training Act (FBPTA) and to ensure transparency, while enhancing collaboration and driving innovation, GSA has created a “cloud” institute — the Facilities Management Institute (FMI.gov). FMI will form a knowledge portal that creates a high-speed interactive conduit between the Federal government, industry and academic facilities subject matter experts while providing reporting capabilities for the Federal facilities workforce as they pursue the high-performance core competencies developed under the Act.

Learning Objective(s):

1. Review the goals of the FBPTA
2. Understand the requirements with time frames
3. Learn what the Act means to government employees and contracted employees
4. Discuss the goals and capabilities of the FMI
5. Review the road ahead for the FBPTA

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T3.37 • 337

Pavement Management

Sergio E. Pagés, Vice President/Chief Information Officer, StructureTec

This presentation will describe how to develop a pavement management program for multiple sites. By developing such a program, facility managers can plan and forecast their maintenance, operational and capital budgets for each site. In addition to reviewing different pavement technologies, we will review pavement project management processes.

Learning Objective(s):

1. Understand asset management: complete replacement versus repairs
2. Learn proper ways of assessing the condition of pavement sites
3. Develop a prioritization rating scale by using a Pavement Condition Index (PCI)
4. Become aware of sustainability programs for pavement and benefits of recycled product

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T3.39 • 339

Financial Management: Helping Managers Create Bottom-Line Benefits

Andrew Gager, CMRP, CPIM, Director of U.S. Operations, Carver PA Corp.

Rick Storlie, Director of Administrative Services, Facilities Management, University of Nevada Las Vegas

Patrick Pizzo, Director of School Facilities and Operations, East Meadow School District, Westbury, N.Y.

Managing maintenance and engineering departments creates a new set of challenges for managers each day, but many of these challenges have a common component: finances. Each decision — whether to buy one product or its competitor, how to put together a capital-project proposal, the bottom-line impact of changes in staff size, etc. — forces managers to bring financial-management skills to the decision-making process.

Learning Objective(s):

1. Discuss tangible bottom-line benefits managers will be able to bring to the departments and organizations with enhanced financial-management skills
2. Explore key financial skills managers must possess to succeed
3. Receive guidance in looking to expand their financial management skill sets

AUDIENCE: BEGINNER CEU: 0.1

Power: Generation and Reliability

T3.41 • 341

Perfect Power: A Perfect Way to Grid Independence

Steve Bridgewater, Business Development Manager, Smart Consumption, Siemens Industry, Inc. Building Technologies

The integration of alternative power sources will transform the way buildings use energy. Once-passive energy consumers will become active with the combination of on-site energy generation, storage, two-way communication, and smart consumption applications. In this presentation you will learn about the value proposition, practical applications, and the steps you can take today to prepare your building(s) for “perfect power”.

Learning Objective(s):

1. Understand what exactly is perfect power
2. Learn about the role of Microgrids in delivering reliability and security to a building’s ecosystem.
3. Highlight applications of net-zero and learn how you would prepare your building to achieve net-zero operation
4. Gain insights into the new role for building automation to deliver functional components of the smart grid

AUDIENCE: ADVANCED CEU: 0.1

Strategic Planning

T3.43 • 343

Obtaining Capital Funding with Accurate Data and Analysis

Ana Thiemer, Project Manager - Renovation and Renewal Program, Facilities Services, The University of Texas Austin

In response to increasing budget challenges, the Budgetary Council at the University of Texas at Austin implemented aggressive policies to clamp-down on unnecessary budgetary drains. As a priority measure, the Facilities Department implemented a solution to track every project dollar allocated. By leveraging both detailed facility condition assessments and a web-based self-assessment tool, they established transparency into the process of making accurate and objective funding decisions. Attendees to this session will learn how the facilities department secured an increase in annual funding based on its ability to demonstrate concrete project data and the need for more funding.

Learning Objective(s):

1. How UT Austin secured annual funding increases
2. Benefits of implementing a facilities management solution
3. Benefits of implementing a self-assessment solution
4. How to use concrete facility data to prove capital needs

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement, Staff Training and Development

T3.45 • 345

The FM of Today versus the FM of Tomorrow

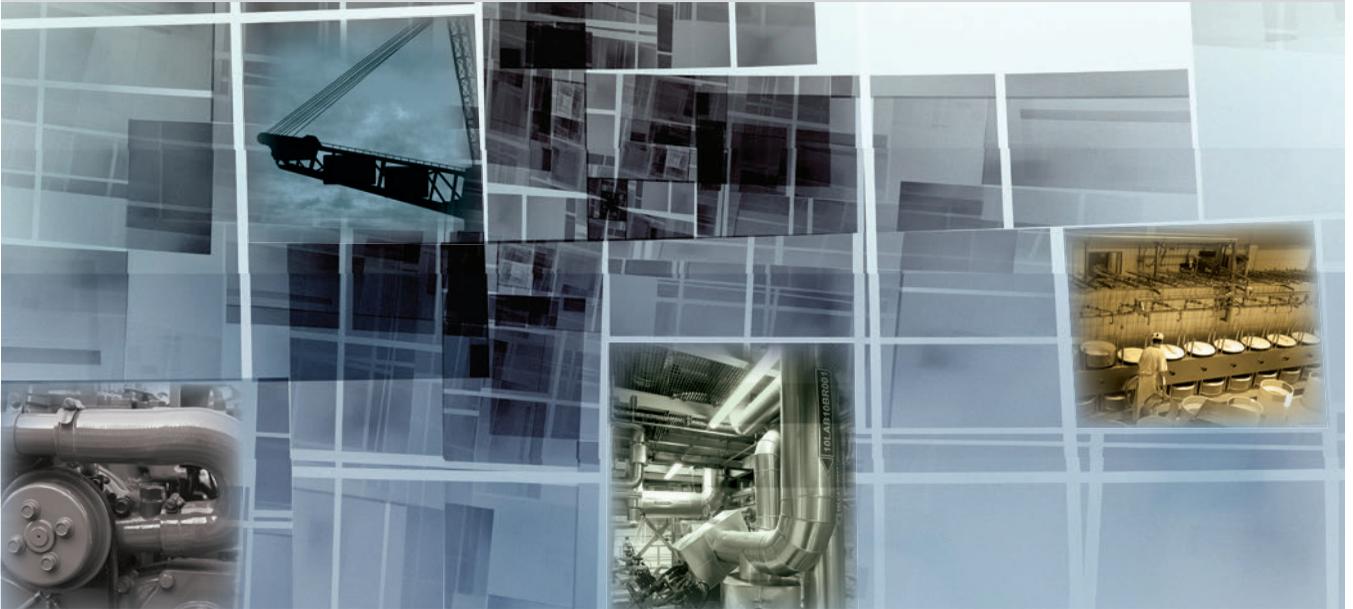
Dean Kashiwagi, PhD, P.E., Professor and Director of the Performance Based Studies Research Group, Arizona State University

What is the new FM role of the future? The FM who can deliver value and performance at a lower cost, heading a seamless organization of “in-house” and outsourced vendor personnel, which maximizes the profits of the vendors without increasing the cost. The FM will use a leadership-based structure to create a transparent measured environment that minimizes the need to manage, direct, and control. The new organization will be a revolving door of the latest technology, with very little overhead, outstanding value, and providing the facility of the future. This session will share case studies from various industries.

Learning Objective(s):

1. Creating value and accountability in a transparent manner
2. Where the industry is headed and where you want to be
3. How to lead your team to success
4. Case study results on what other leaders have done

AUDIENCE: INTERMEDIATE CEU: 0.1

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Conference Sessions: Tuesday/Wednesday

Energy Efficiency, Upgrades and Utilities, Technology
T3.47 • 347

Energy Management and the Green Data Center

Wayne Riley, Senior Technical Staff Member, IBM

Data center energy management is now one of the hottest topics in the IT industry. In this session we'll take a deeper look at the problems being faced by the IT industry around the globe, and the direction that is being taken to address the issues required for effective energy management. We will also discuss the emerging integration of the management of traditional IT and data center facilities, and share results from a recent client implementation.

Learning Objective(s):

1. Learn about the underlying factors contributing to data center energy use doubling in the past five years
2. Understand how to achieve enhanced visibility and control to optimize power efficiency and enable clients to manage and maintain lifecycle of assets
3. Learn how one customer took action and implemented a solution to address these emerging IT energy-related issues

AUDIENCE: ADVANCED CEU: 0.1

Technology

T3.49 • 349

The Impact of Integrated Smart Controls on Building Design

Jim Sinopoli, Managing Principal, Smart Buildings

While many facility managers find the concept of integrated and connected building control systems persuasive and intuitive they struggle with moving from the concept to actual deployment. Integrated building systems produce "wholes that are greater than the sum of the parts", this is reflected in greater functionality, efficiency and effectiveness. While Division 25 of the MasterFormat, Integrated Automation, formalized the use of integrated building systems as a standard part of building design, it is somewhat undervalued and misunderstood. Attend this session to understand the value and need, review case studies and change your approach and thinking for integration and connectivity.

Learning Objective(s):

1. Identify and describe the basic design foundations technology systems and management systems
2. Develop a basic knowledge of the design and installation issues including innovative energy and sustainable systems
3. Collect, organize, display and interpret the relationship commonalities of smart buildings
4. Demonstrate and communicate the sustainable value of a smart building design and cost justify the smart building approach

AUDIENCE: ADVANCED CEU: 0.1

Wednesday

MARCH 14

7:45-8:50 AM

Pratt Street Lobby Solutions Exchange

Solutions Exchange is a round-robin interactive session that engages you through discussions on the critical topics in facilities management. Take your seat among your peers and join in an exchange of ideas, facilitated by some of the top manufacturers and experts serving the facilities industry. After 20 minutes, the roundtable disperses so that the next batch of table discussions can begin. You will have the opportunity to participate in up to three table discussions. See page 10 for complete topic list and more details.

9:00-9:50 AM

Green Standards

W1.18 • 318

Selecting the Right Standard

Bill Fellows, Green Cleaning Advisor, Bill Fellows Consulting

This session is an unbiased discussion of all three standards designed to assist cleaning organizations understand each line item and how an assessor handles the assessment for each. The discussion includes the advantages and disadvantages of each standard and recommendations on preparing for the official assessment, a question and answer session is included to reply to more specific questions.

Learning Objective(s):

1. Understand the differences and similarities in ISSA's Cleaning Industry Management Standard (CIMS), Cleaning Industry Management Standard for Green Buildings and Services (CIMS-GB) and Green Seal's GS-42
2. Identify the advantages and disadvantages of each with recommendations on preparing for the official assessment
3. Select the standard(s) that brings the greatest benefits to the cleaning organization

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building

W1.21 • 321

High-Performance and Outcome-Based: An Emerging Market for Facility Services

Rick Walker, LEED AP, Program Leader, High-Performance Building Services, Trane

In 1983, Harvard University professor Theodore Levitt made the observation that "People don't want quarter inch drills. They want quarter inch holes." This outcome-based approach has changed the way companies think of services and have helped transform many service industries from a wrench-based cost-driven commodity to a high-level, knowledge-based offering that delivers business using tools, technology and connectivity with client business systems. Through case studies, this session will demonstrate how, by thinking differently about the impact of their building on their business mission, building owners were able to focus on the desired outcome in individual problem areas and dramatically improve business performance.

Learning Objective(s):

1. Understand the relationship between facilities and an organization's mission
2. Learn how high-performance buildings play a role in improving business performance
3. Define 'outcome based services' and the use of products and services to deliver desired outcomes

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Technology
W1.24 • 324

ASHRAE's Building Energy Quotient (BEQ): How Does Your Facility Stack Up?

James L. Newman, CEM, LEED AP, Managing Partner, Newman Consulting Group, LLC

ASHRAE is the primary formulator of energy, ventilation and thermal comfort codes for the building industry. These codes form the basis for many of the points in the USGBC's LEED certification for new and existing buildings. The BEQ is a report card of a building's energy use, ranging from A+ to F. This will allow potential buyers or tenants to measure buildings energy use, all other things being equal. As a facility manager or owner, it is important you be aware of what kind of information goes into this report card – and how it can affect you.

Learning Objective(s):

1. Become familiar with the definitions in the BEQ
2. Have an awareness of how the BEQ is formulated
3. Learn what can be done to improve your scoring
4. Learn how to use the BEQ to your advantage

AUDIENCE: INTERMEDIATE CEU: 0.1

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Conference Sessions: Wednesday

Systems

W1.27 • 327

Bagging Conventional Indoor Lighting for LED

Bill Ballweg, Product Development Manager, Lithonia Lighting

A 35,000-square-foot SuperValu property in Boston was the first grocery store in the nation to be entirely lit with LEDs. The grocery store chain is now beginning to install LED lighting across its portfolio. This session will present a step-by-step case study on the grocery store chain's conversion from conventional lighting to LEDs. Specifically, the speakers will guide attendees through the indoor ambient LED lighting specification process, testing criteria, installation process and best practices.

Learning Objective(s):

1. Learn about a real world application of indoor ambient LED lighting
2. Discover key performance criteria for selecting indoor ambient LED lighting including thermal management light output and color consistency
3. Learn how the installation process of LED lighting systems varies from conventional lighting systems
4. Discover best practices when specifying and installing indoor ambient LED lighting

AUDIENCE: INTERMEDIATE CEU: 0.1

Strategic Planning

W1.37 • 337

Communicating with the E-Suite in Preparation for Economic Recovery

IFMA Chesapeake Chapter

The current economic downturn has resulted in the deferral of replacements and/or upgrades of major equipment. As the economy continues through a slow recovery, the need to begin to fund projects to avoid catastrophic failures that will disrupt business continuity fast approaches. Facility managers need to begin the process of effectively communicating with the E-Suite to plan for the orderly investment in major project improvements over the next 24 months.

Learning Objective(s):

1. Understand how to gain E-Suite approval for major replacements and/or upgrades
2. Learn how to effectively communicate with the E-Suite
3. Learn what the E-Suite looks for in a business proposal

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations

W1.39 • 339

What Lies Beneath: An Analysis of Parking Lot Maintenance

Mike Condon, Sr. National Account Executive, Rose Paving Company

This interactive session will educate on the fundamentals of asphalt and how to maintain a safe and healthy pavement, even on a tight budget. Diagrams and other illustrations will help the audience to better visualize topics such as asphalt construction and failures as well as long-term budgeting for proper repairs.

Learning Objective(s):

1. Understand the life-cycle of a parking lot
2. How to assess your pavement and understand primary causes of asphalt failure
3. How to prioritize repairs and determine the most cost-effective maintenance procedures
4. Understand factors unique to your property or properties that affect the timing of pavement maintenance both short and long-term

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

W1.41 • 341

Plug Load in Commercial Offices

Michael Murray, CEO, Lucid Design Group

Plug loads in commercial offices represent a significant challenge to achieving high-performance buildings, particularly net-zero energy buildings. As efficiency gains are made in lighting and HVAC, plug loads are the next big opportunity for conservation, but they require behavioral solutions in order to be effective. The first problem is understanding the magnitude of plug loads in a typical office. This session will present measured electricity end-use data for nine buildings, representing over 900,000 sq-ft with disaggregated lighting, HVAC and plug loads. Plug loads represent 30 - 50 percent of total building electricity use in these cases, much higher than previously thought.

Learning Objective(s):

1. Understand the electricity consumed by end uses in commercial buildings through empirically measured data
2. Discuss the design and operational impacts of plug load energy consumption
3. Review strategies for utilizing real-time monitoring and web based feedback displays to engage building occupants to reduce plug load consumption between 5-35 percent

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

W1.43 • 343

The Do's and Don'ts of Fire Alarm/Suppression Inspection, Testing and Maintenance

Steve Carter, Vice President of Engineering, ORR Protection Systems

The NFPA standards along with local and state codes require your fire alarm/suppression system(s) be inspected and tested every year and in some cases multiple times in a year. Do you know what is required for your system? This session is designed to help you understand what you must "do" to maintain your fire systems and what "not to do" which often leads to nuisance alarms and system problems. By the end of this session, you will have a solid understanding of how fire alarm systems work and what you can do to reduce those costly emergency calls.

Learning Objective(s):

1. Understand how fire systems work and why
2. Understand the NFPA inspection and testing requirements
3. Learn what record keeping is required by law and how to make it easier
4. Learn that prevention is the best medicine, learn what to do and when to do it

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement, Maintenance and Operations

W1.45 • 345

The Eight Steps to Success for Maintenance Planning and Scheduling

Ricky Smith, Principle Reliability Advisor, GPAllied

Maintenance planning is a key element to the true success of any organization, but past studies have shown that most companies do not perform maintenance planning effectively. This can negatively impact work effectiveness, wrench time, equipment uptime, equipment reliability, and cost. In contrast, effective maintenance planning can result in higher wrench time and higher equipment reliability. Attend this session to learn about the 10 steps you can take in maintenance planning to become a true success — the secret is that it is not that difficult.

Learning Objective(s):

1. Learn tips to successful maintenance planning
2. Understand how to become more effective with the same staff
3. Review how to manage a proven planning and scheduling process
4. Be able to measure performance of planning and scheduling

AUDIENCE: BEGINNER CEU: 0.1



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Conference Sessions: Wednesday

Technology

W1.47 • 347

Understanding the Fundamentals of Facilities Risk Analysis

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

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

Learning Objective(s):

1. Be able to identify key areas of risk
2. Learn how to score risks within your organization
3. Develop and prioritize a risk mitigation plan
4. Understand how to establish a dashboard to measure your progress

AUDIENCE: BEGINNER CEU: 0.1

Technology

W1.49 • 349

Verifying Sustainable Roofing Assets with RoofPoint

James Hoff, DBA, Research Director, Center for Environmental Innovation in Roofing

Although the energy and environmental impacts of this roofing footprint are enormous, few guidelines are available to help facility managers make energy-efficient, sustainable roofing choices. In response to this need, the Center for Environmental Innovation in Roofing has developed RoofPoint, a sustainable roof system guideline. This session will discuss how RoofPoint can be a guide, validate the roof system selection process, and select a roofing system that aligns with well-defined building sustainability criteria. In addition, the session will discuss how RoofPoint's non-proprietary approach supports competition and choice for building owners. Finally, the session will review recent case studies demonstrating how RoofPoint is a transformational but simple program that can be integrated into almost any roofing project with minimal expense.

Learning Objective(s):

1. Recognize the contributions of commercial roofing systems in achieving a sustainable built environment and accelerating the pace of sustainable development
2. Understand the sustainability criteria and methodology incorporated in RoofPoint and how it may be used to assess roofing system alternatives and facilitate the selection of optimally sustainable roofs
3. Obtain the tools needed to conduct a RoofPoint roof system evaluation and achieve certification for roofing assets

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 AM

Green Standards

W2.18 • 318

Transpare: A New Platform for Evaluating Environmental Preferability

David Schweizer, Environmental Services Account Executive, ISSA

Radical transparency, supply chain management, and sustainability reporting are shaping the way we evaluate and exchange information about the environmental, health and safety attributes of cleaning products. Transpare, developed by ISSA and Ecoform, is a web-based system that taps into these pervasive market trends by providing a comprehensive environmental profile of cleaning products in an open and transparent manner. Transpare provides detailed information about the environmental attributes of cleaning products for more informed purchasing decisions. This session will examine the evolving green marketplace and the benefits Transpare provides in evaluating the environmental, health and safety characteristics of cleaning products.

Learning Objective(s):

1. Understand what is Transpare
2. Review the state of the green marketplace: where we are; and where we are going
3. Examine limitations of existing ecolabel systems and benefits of Transpare in light of the evolving marketplace
4. Learn about the functionality of Transpare and how it empowers facility managers to identify and select green cleaning products that are consistent with and supportive of their sustainability goals

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations

W2.21 • 321

Sustainable Commercial Landscape Management

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

Beautiful landscapes drive value, but managing this important asset is sometimes an afterthought when so many other things compete for your attention on a daily basis. Find out how other facility managers have implemented sustainable changes and what you should expect from your landscape partner from cost-saving ideas to enhancements that build strong curb appeal. Your landscape partner should be creative, proactive and committed to your property's success. We'll identify specific areas you should focus on to create a landscape that is functional, beautiful, sustainable and cost-effective. And we'll help clarify facility managers' role in developing landscaped areas that complement new construction or the

renovation of existing buildings.

Learning Objective(s):

1. Learn best management practices implemented on several large commercial properties that include developing a water conservation program, irrigation efficiency, soil stabilization, plant health and waste reduction
2. Learn water management secrets with the biggest ROI impact
3. How to integrate your landscape with your overall property objectives including reducing its ecological footprint
4. Learn why a recommendation makes sense from a financial and landscape best practice

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building

W2.24 • 324

Building Renovation Improves Energy Efficiency and Sustainable Performance

Tom A. Pedersen, Director of Sustainability, CDM

Charlie Mielcarek, Facilities Manager, CDM

CDM's Cambridge Massachusetts global headquarters, the largest commercial single tenant occupied building in the city, was identified by the Cambridge Energy Alliance as a prime candidate for their newly instituted building energy efficiency improvement program. In 2009, CDM entered into a partnership with the building owner, building manager and CEA to conduct an energy audit and implement improvement programs concurrent with sustainability focused renovation activities guided by the USGBC LEED® criteria. This presentation will describe the collaborative interdisciplinary project approach employed, the specific improvement measures implemented and the quantified reduction in energy use, greenhouse gases emissions and cost savings achieved.

Learning Objective(s):

1. Understand roles of building owner, manager, tenant and service provider in sustainability improvement
2. Recognize and leverage interdisciplinary nature (HVAC, Architectural, Civil...) of sustainability improvement projects
3. Ability to define key energy improvement opportunities
4. Recognize importance of triple bottom line dimensions (people-planet-profit) in planning improvements

AUDIENCE: ADVANCED CEU: 0.1

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NFMT Booth #2166

Conference Sessions: Wednesday

Maintenance and Operations

W2.27 • 327

Finding Problems Using Thermal Imaging: Faster, Safer and More Accurate

Ed Kochanek, Regional Manager, FLIR Systems, Inc.

With greater demands for more frequent inspections of electrical and motorized equipment, HVAC systems, building/plant energy efficiency, and structural integrity; facility and predictive maintenance professionals are looking for smart solutions to ensure their operations stay up and running smoothly and stay in compliance. In this presentation, attendees will discover the versatility of infrared thermography technology, how it compares to an IR spot temperature gun, and thermal imaging's advantages in helping technicians cover more ground and more applications cost-effectively. The audience will learn how IR cameras help facilities maintenance personnel, electricians, engineers, etc. find potential problems quickly – well in advance of a catastrophic failure – so corrective action can be taken to prevent downtime, waste, and safety hazards – ultimately saving time and money.

Learning Objective(s):

1. Learn the basics of IR thermography and how the technology is helping to streamline inspections
2. Discover how thermal imaging detects and depicts electrical overloading, mechanical overheating, energy waste, and other anomalies that signal potential problems early
3. Explore the differences between performing IR inspections with spot radiometers and thermal imaging cameras as they relate to speed, accuracy, and safety
4. See how thermal imaging technology provides comprehensive temperature measurement data and analytics as well as valuable IR and visual picture documentation.

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

W2.37 • 337

Metering, Measuring and Verification Strategies

Troy Hull, Director, Metering Solutions, Leviton

Learn about the importance of using sub-meters for Measurement and Verification as well as the products and technologies available today. This presentation will cover understanding the applications where sub-meters should be used and how to select the appropriate product. Understand how LEED credits can be earned using meters and measuring software solutions and the requirements for metering in government facilities. This will also cover the software applications that consolidate the meter data to make show how energy use can be intelligently

decreased in any type of structure.

Learning Objective(s):

1. Understanding the value and benefits of measurement and verification through metering systems
2. Understand the opportunities of employing metering in facilities
3. Learn how to gain LEED credits with measurement and verification technologies

AUDIENCE: INTERMEDIATE CEU: 0.1

Staff Training and Development

W2.39 • 339

Complying with the Federal Buildings Personnel Training Act

Larry Ross, PE, CCP, CPE, Director of Maintenance and Engineering, Erickson Retirement Communities

Signed into law in December of 2010, the Federal Buildings Personnel Training Act requires all contracted and federal employees who operate federal buildings to demonstrate core competencies in maintaining those facilities. Join representatives from the Association of Facilities Engineering for a discussion of how this legislation will affect the future of federal facility management, and learn about the competencies required to gain certification. The new training program "Fundamentals of Facility Management for Government High Performance Buildings" will also be presented.

Learning Objective(s):

1. Identify the core competencies that federal personnel must maintain in all federal buildings.
2. Learn about the industry associations helping to ensure the federal government's personnel meet the required competencies.
3. Review the six areas that General Services Administration must include as core competencies.

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

W2.41 • 341

Remote Diagnostics and Failure Prevention on Standby Generator Systems

Harold Jarrett, Founder and Vice President, OmniMetric LLC

While standby generator systems are complex mechanical systems, failures in installed generators are rarely mechanical, and typically are avoidable problems caused by consumables like batteries, oil, and fuel. Basic remote monitoring can prevent the majority of failures, and advanced monitoring can provide diagnostic data that can be used to shorten or prevent any down time. This session will cover current generation remote monitoring capabilities, and will provide examples of real-world remote diagnostics.

Learning Objective(s):

1. Get updated on current generation remote monitoring capabilities
2. Review methods for failure prevention
3. Learn techniques for remote diagnosis

AUDIENCE: ADVANCED CEU: 0.1

Maintenance and Operations

W2.43 • 343

Legionella and Waterborne Pathogens: What's in Your Reclaimed Water?

Janet Stout, PhD, Director, Special Pathogens Laboratory

Collection and reuse of greywater, rainwater, and condensate for toilet flushing, irrigation and HVAC systems could replace 7 percent of drinking water production. Potential sources and links to disease will be reviewed as well as the waterborne pathogens that pose the greatest risks from reclaimed water. Microbiological control of reclaimed water will be addressed and includes novel application of water treatment strategies, such as ultraviolet disinfection, filtration and biocides. A safe and sustainable water reuse program must address the potential public health implications of untreated reclaimed water.

Learning Objective(s):

1. Learn the potential risks of water reuse and grey water with respect to amplifying waterborne pathogens and the risk of disease
2. Learn approaches to managing the risk of waterborne pathogens and Legionnaires' disease
3. Learn what's new regarding the epidemiology of waterborne pathogens; reservoirs, transmission, risk factors and guidelines

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

W2.45 • 345

Three Keys to Sustaining Organizational Change

Bruce Wesner, Managing Principal, Life Cycle Engineering

Have you ever been the leader of a significant business change and not been able to make it "stick"? Most organizations feel that the key element in any project is sound project management. But what about the people who the change is affecting? This presentation will focus on the essential elements required to effectively manage a business change initiative and ensure it is sustainable.

Learning Objective(s):

1. Understand the three elements of successful projects
2. Understand that change happens in two dimensions
3. Connecting change management to business results
4. Case study review – why do projects fail?

AUDIENCE: INTERMEDIATE CEU: 0.1

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Conference Sessions: Wednesday

Energy Efficiency, Upgrades and Utilities

W2.47 • 347

Smart Buildings: Energy Optimization Technology for Efficiency and Savings

Michael Zimmerman, CEO, BuildingIQ

Commercial buildings consume 20 percent of U.S. energy. Facility managers are looking to save energy and reduce their utilities expense with less capital and resources. Many existing energy management systems do not have the capabilities to incorporate predictive modelling-based optimization strategies that address real-time and forecasted weather data, real-time and future energy supply pricing/constraints, and the occupant comfort the current environment demands. This session will explore the next generation of intelligent building energy management, showcasing how predictive energy optimization technology can manage energy consumption in buildings and save 10-30 percent energy with little or no capital and no impact on occupant comfort.

Learning Objective(s):

1. Review and discuss core issues in balancing building performance, tenant satisfaction and managing costs
2. Highlight new technologies and approaches that overcome challenges without capital expenditure or operating budget increases
3. Introduce the concept of predictive energy optimization and how it is different from typical controls operation
4. Provide case studies on real savings and operational improvements

AUDIENCE: INTERMEDIATE CEU: 0.1

Strategic Planning

W2.49 • 349

Linking End User Data to FM Solutions

Kevin Rettle, Director of Innovation Marketing, Sodexo

This session will present primary research that Sodexo gathered from the CoreNet community in 2011, which identified the short and long term outlook for facilities management. Most notably, CoreNet respondents anticipate a trend towards more integrated and consolidated workplaces, increased demand for a global service provider, increased integrated services, outsourcing all non-core functions and measuring outcomes related to FM. Using CoreNet trend data, Sodexo created a holistic strategy for organizational change that combines elements of designed community, designed workspace, consolidation of services, and alignment with a value structure that has been shown to influence individual and organizational well-being. This session will delve into this model and will provide case studies showing how it plays out and how we map outcomes to our process.

Learning Objective(s):

1. Understand the outlook of facilities management outsourcing
2. Understand the correlation of trend data, end user preferences and psychographics related to the design of FM solutions
3. Be able to measure FM outcomes

AUDIENCE: INTERMEDIATE CEU: 0.1

3:10-4:00 PM

Greening an Existing Building

W3.21 • 321

Sustainable Glass Solutions

Andrew Sabados, President & CEO, Cornerstone Energy Solutions, LLC

Attend this session to understand the latest technological developments in energy efficient glazing, energy conservation and how it applies to attaining LEED credits through advanced nano-ceramic window film technology.

Learning Objective(s):

1. Learn about spectrally selective advancements in window film technology
2. Understand how window film technology can satisfy numerous LEED requirements
3. Be able to analyze, further research and select appropriate window films to meet their needs

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

W3.24 • 324

Energy Efficiency in Commercial Real Estate — Double Bottom Line

Tony Liou, President, Partner Energy

The movement to green commercial real estate or to reduce energy usage and greenhouse gas emissions means commercial real estate owners are facing mandates to reduce their emissions, but also have a fiduciary duty to their clients to invest their money wisely. This session will discuss market issues driving green real estate and how green real estate is being perceived by buyers/sellers in the market, how to identify accretive energy efficiency projects — or getting the most bang for your buck. A case study will be presented on benchmarking a portfolio, performing energy audits on the lowest performing assets, and implemented the energy efficiency measures that have the greatest payback.

Learning Objective(s):

1. Learn about energy benchmarking
2. Understand energy audits
3. Comprehend energy efficiency project implementation
4. Understand quality assurance & verification

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems

W3.27 • 327

Lighting Efficiency or Effectiveness?

E. W. Dovel, VP, Public Sector, Harris Lighting

Many engineered energy projects focus on the efficiency of the lighting recommendations. Real world application requires more than just lumens/watt in any assessment. Come learn about the variables you need to determine to get what you pay for.

Learning Objective(s):

1. Define efficient and effective lighting
2. Contrast the two terms from a lighting perspective
3. Provide real world examples for both
4. Answer the question, What is the “best” lighting for my building?

AUDIENCE: BEGINNER CEU: 0.1

Strategic Planning

W3.30 • 330

Doing Business with the GSA

Mary L. Snodderly, GSA Center for Facilities Maintenance and Hardware, Business Management Division

Companies interested in doing business with the General Services Administration (GSA) should not miss this class. A representative from GSA's Public Building Service Industry Relations will discuss how they procure the products and services needed to fulfill their mission. Also, hear from a representative of GSA's Federal Acquisition Service, Facilities Maintenance and Hardware Acquisition Center on the schedules program, with emphasis on the Facilities Maintenance and Management Schedule. Learn some of the basics of the schedules program and how to obtain a schedule contract. Both will be providing information on the mandates for green purchasing.

Learning Objective(s):

1. Learn how to do business with GSA's Public Building Service
2. Find out how to obtain a GSA Schedule contract
3. Understand the green purchasing requirements of the Federal government

AUDIENCE: BEGINNER CEU: 0.1



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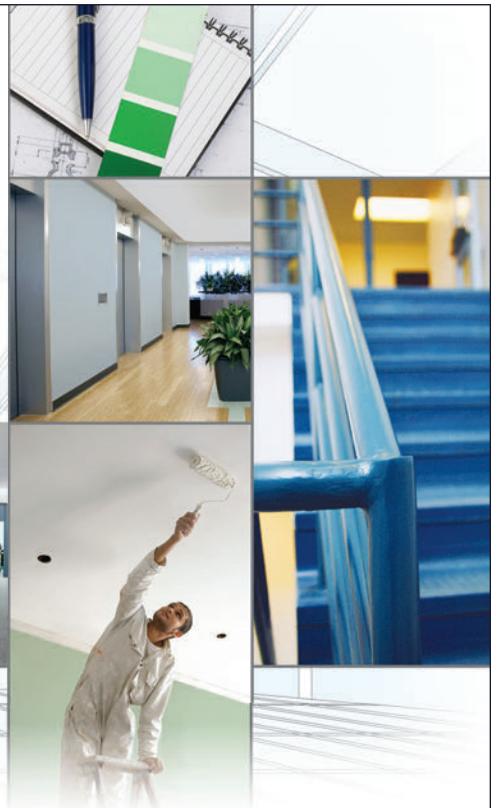
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▲ NFMT Booth #2571

Conference Sessions:

Wednesday

Maintenance and Operations

W3.37 • 337

Your Building's Weather Barrier — What Every Facility Manager Should Know

David Leslie, Sr. Consultant/Sr. Project Manager, Conley Group

Whether it is new construction, restoration or repair, it is critical to the long term success of any project and to the sustainable performance of any building that the building envelope components be brought together to create an integrated weather barrier. This is achieved through the purposeful coordination of the three elements of all projects; design, material and installation. This seminar will define the concept of the building envelope, examine the importance of obtaining an Integrated Weather Barrier and explain how the functions of design, material and installation are intimately intertwined and how they can be coordinated.

Learning Objective(s):

1. Define and develop a better understanding of the building envelope concept and the integrated weather barrier concept
2. Define and develop a better understanding of the design, material & installation concept and how they are related
3. Explore the process of proactively creating coordination between design, material and installation to achieve an integrated weather barrier

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

W3.41 • 341

Codes and Standards for Emergency Power Systems

Ronald Schroeder, Director, Product Mgt. & Applications Engineering, ASCO Power Technology

This presentation will discuss why codes and standards are becoming more important and help facility managers understand how the utilization of products meeting these requirements will lead to higher reliability of the overall facility and lower down time. As consequences from power outage become more severe, many other stake holders like Insurance Companies, Inspectors and others are becoming stricter in enforcing code compliance. Also, with adoption of NEC Article 708 (COPS), more facilities like Libraries, Schools, Sports facilities, etc. may be required to comply with stricter codes related to Emergency Power Systems.

Learning Objective(s):

1. Understand the differences and similarities with NEC Article 700, 701, 702 & 708 Power Systems
2. Learn about power switching devices installed in Optional Standby Power Systems
3. Comprehend important product and performance requirements for emergency (700), legally required standby (701) and critical operations power systems (COPS) related to power switching devices

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

W3.43 • 343

The Six Myths of Disaster Planning: Lessons Learned in Turbulent Times

Jim Wills, Commercial Restoration Program Manager, DKI

Dave Mistick, Business Development Director, DKI

Attend this session to discuss the practical steps to establish a culture of risk management and disaster planning in each organization. The session will examine lessons learned from seeing first-hand reactions to an event versus proactive actions prior to the event, and how many take hold of the task of disaster planning and preparation. Attendees will also receive guidelines for selecting vendors to support their disaster planning and recovery efforts.

Learning Objective(s):

1. Discuss the six myths of disaster planning
2. Explore practical steps to establish a culture of risk management and disaster planning

Wednesday

3. Learn to be proactive prior to an event versus reactive after it has occurred
4. Review helpful guidelines for selecting vendors to support their disaster planning and recovery efforts

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

W3.45 • 345

Hot Topics in Labor and Employment Laws

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 employment law update which includes identifying new and amended employment and labor laws impacting the industry, many have been added, modified or amended within the last 6-months to one year. The sessions will also include case examples in a way that helps facility professionals understand how these laws impact their daily operations.

Learning Objective(s):

1. Learn about major developments in Immigration Law
2. Get updated on Increased Government Regulatory Action
3. An overview on the New Jobs Bill
4. Learn what's new in labor laws impacting the facility management industry

AUDIENCE: BEGINNER CEU: 0.1

Technology

W3.47 • 347

A New Tiered Approach to Employing Facility Condition Assessments

F. Joshua Millman, AIA, Principal, Facilities Planners & Architects, Inc.
E. Garrett Brinton, Principal, FP+A

The facility condition assessment (FCA) is an important tool to lower your risk in managing and acquiring real estate assets. ASTM E20120-08 is the industry standard approach for FCAs. However, this approach may be too comprehensive and too costly. A new tiered approach defines the right assessment tool appropriate to desired outcomes. Whether you are conducting due diligence on a building purchase, creating a multi-year facilities plan, or simply determining what facility conditions need to be assessed, this is a smarter approach to setting a facilities condition baseline. This model is demonstrated in case studies for military and manufacturing facilities.

Learning Objective(s):

1. Understand the industry standards: ASTM Standard E2018-08 for Facility Condition Assessment and the ASHRAE Level II Energy Audit
2. Evaluate alternative methods to facility condition assessment using a new four tiered approach
3. Employ this model to evaluate risks to mission in facilities purchases development of maintenance action plans establishing sustainability initiatives and optimizing space utilization
4. Present cost-benefit risk-to-mission analysis of facilities assessment to upper management to obtain the funding to do the assessments

AUDIENCE: INTERMEDIATE CEU: 0.1

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Conference Sessions: Wednesday

Leadership and Career Advancement, Staff Training and Development

W3.49 • 349

2012 Edition of Women in Facilities Management Roundtable

Stacey Cohen, Director, Corporate Facilities, Marriott International, Inc.

Patricia Connolly, Director, Global Sustainability, RREEF

Eleni Reed, Chief Sustainability Officer, U.S. General Services Administration

Moderator: Naomi Millan, Associate Editor, Building Operating Management

Now in its 5th year, the Women in Facilities/Property Management Roundtable has become a “not to miss” session for any women working in the field of facilities, maintenance, engineering and/or property management. This interactive roundtable discussion will feature three highly inspiring females discussing everything from mentorships — to technical skills, life-work balance — to communication styles. The historically male dominated industry is beginning to change and many women are poised to become the next generation of leaders, come discuss with your peers on how to reach that level. As always, men are welcomed to join the discussion.

AUDIENCE: INTERMEDIATE CEU: 0.1

4:10-5:00 PM

Technology

W4.37 • 337

Data Centers: Scalable, Modular, Flexible, Efficient, Designs

Mark S. Evanko, Principal, BRUNS-PAK,

The data center facility design must optimize scalability, modularity, flexibility, and efficiency. These “elements” of facility infrastructure should be consistent and evolving with the IT departments’ computer hardware, software, network, cloud, and disaster recovery strategies. The data center “solution” should be cost effective and be compared to out-sourcing and/or co-location.

Learning Objective(s):

1. Elements of a scalable, modular, flexible, efficient data center
2. Impacts of data center elements to the information technology short/long term plan
3. Other data center cost corporate alternatives: co-location containers
4. Data center scalability and the impact to PUE. Data center “cooling” options and the decreased operating costs. The impact of scalability deferring capital cost

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

W4.39 • 339

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. Be aware of the building owners’ 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 fires

AUDIENCE: BEGINNER CEU: 0.1

Energy Efficiency, Upgrades and Utilities

W4.41 • 341

The ENERGY STAR Portfolio Manager Tool

Robert Sauchelli, ENERGY STAR Service and Product Provider Program Manager, U.S. Environmental Protection 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
3. Learn about the variety of entry points into benchmarking
4. Identify how benchmarking in Portfolio Manager can identify and prioritize energy improvement opportunities across portfolios

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W4.43 • 343

BIM and Facility Management: An Owner’s Perspective

Peggy Yee, PhD, National BIM Program Expert, General Services Administration

GSA is defining and testing its road map for BIM during Facility Management. This innovation will enable GSA to leverage facility data throughout the lifecycle of its capital assets to provide safe, healthy, effective and efficient work environments for our client agencies. We will present the business needs for BIM during Facility Management and the steps that GSA has taken to define, develop, validate and incorporate BIM during Facility Management.

Learning Objective(s):

1. Explain why BIM can be used for facility management
2. Identify key implementation steps to using BIM for facility management
3. Describe how building managers can interact with design and construction teams to leverage BIM data

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

W4.45 • 345

Raising the Bar: Differentiating Yourself in the FM Marketplace

IFMA Chesapeake Chapter

Facility managers are being asked to do more with less and thus provide greater expertise and professional knowledge to meet the management challenges of their organizations. Professional education in the form of the facility management professional credentialing is one path that allows even those new to the profession to demonstrate competence with the topics and challenges that facility managers face on a day-to-day basis. Hear from and interact with a panel that can help you learn how to distinguish yourself as a valuable commodity to the facilities management organization.

Learning Objective(s):

1. Understand the importance of differentiating yourself from other FM professionals through education
2. Learn the step to differentiate yourself
3. Understand the importance of professional credentialing

AUDIENCE: BEGINNER CEU: 0.1

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Welded hinge to door.

Repair #1:
Tightened loose screws.

Repair #2:
Replaced stripped screws.

Repair #3:
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Repair #4:
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Conference Sessions: Wednesday/Thursday

Technology

W4.47 • 347

Systems Integration Best Practices

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 system, and adding value to the facility organization. Increasing integration leads to more complete information to drive productive energy efficiency and occupant comfort decisions. This presentation emphasizes strategies to assess short term and long term facility needs and goals. Learn how more integration requires careful planning to ensure vendors are delivering the products and configurations requested, making communication and detailed planning all the more vital.

Learning Objective(s):

1. Why is an integration strategy important?
2. Assess how to integrate systems
3. Use the right tools to integrate systems
4. Make the most of the investment

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday

MARCH 15

9:00-9:50 AM

Green Standards

R1.18 • 318

The Formation of a Robust Recycling Program for Roofing Systems in North America

Rod Pfannenstiel, Vice President, Nationwide Foam Inc.

With over 3 billion square feet of commercial re-roofing each year, the resulting tear-off materials represent an area of special concern. In order to address this concern, roofing system manufacturers and industry associations have worked with roofing contractors to demonstrate the feasibility of reclamation, and private sector entrepreneurs have begun to invest in collection and processing systems.

As more end-markets for roofing debris form, the economics of handling and collection will improve dramatically. This in turn will allow recycling companies to offer roofing material recycling services that complement a project's schedule and budget — two necessary elements of a truly robust program. With experience from coast to coast in North America, an assessment will be provided on what is working, and what still needs to be done.

Learning Objective(s):

1. Learn how to solve environmental issues associated with low-slope tear-off materials
2. Comprehend how real recycling creates real results for specific materials
3. Review the specifications on what can be recycled
4. Be able to apply market development

AUDIENCE: BEGINNER CEU: 0.1

Green Standards

R1.21 • 321

Toxic-free, Chemical-free, Cleaning Strategies

Vince Elliott, President, Elliott Affiliates, Ltd.

This session will explore the emerging development of a toxic-free, chemical-free innovation in products. It will examine how cleaning strategies are changing and how that change is impacting the safety of workers, the health of building occupants and the environment. This session will also highlight the economics of cost and benefits of a chemical-free cleaning model for property managers, operations managers, buying professionals and senior managers.

Learning Objective(s):

1. Review the toxic-free, chemical-free cleaning strategies
2. Identify chemical-free materials and products
3. Learn if chemical-free products are different than traditional product

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday, March 15 • 8:00-8:50 AM

Leadership and Career Advancement

RS.16 • 316

Engage in the Five C's of Leadership for Success

Lenny Jachimowicz, Vice President, Engineering and Facilities Management, Global Operation Services, Marriott International, Inc.

Join Lenny Jachimowicz, who has catapulted up the Marriott corporate ladder from plumber to Vice President, Engineering and Facilities Management for Global Operations, for a discussion on the vital role leadership plays in a facility professional's career — and how the Five C's of Leadership identified by PepsiCo's Chairman and CEO Indra Nooyi can be uniquely tailored to the facilities and engineering field. In this in-depth, interactive and engaging session, Lenny will identify the key moments in his own career trajectory that honed his leadership capabilities, spurred him on to the next phase in his professional development and highlighted valuable lessons to pass along to the next generation of facility management leaders.

Learning Objective(s):

1. Understand the importance of being competent and a lifelong student
2. Learn how to be courageous and confidence in regard to your competencies
3. Be able to communicate effectively to mobilize people
4. Review that you are being consistent with your words and actions
5. Ensure that your compass points true North and you have integrity

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

R1.24 • 324

Using EPAct to Make Energy Projects Possible

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

Tax deductions can be a major factor in getting C-suite approval for energy efficiency projects. With the Energy Policy Act (EPAct) providing up to \$1.80/square foot for HVAC, lighting and building envelope retrofits, it behooves facility managers to develop expertise in applying these deductions, which offer an unbeatable opportunity to recoup upgrade investments and save energy dollars for the long haul. In this session, attendees will learn how to qualify for an EPAct deduction, which types of projects most often achieve deductions, and how to utilize integrated design to reduce overall building energy use.

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▲ NFMT Booth #1503

Conference Sessions: Thursday

Learning Objective(s):

1. Learn how to qualify for an EPAAct deduction
2. Understand which types of projects most often achieve deductions
3. Review ways to utilize integrated design to reduce overall building energy use

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems

R1.27 • 327

Performing Effective Building System Re-Commissioning Studies

Joe Watson, Senior Project Engineer, E3 Designs

The benefits of building system re-commissioning are spelled out in the US Green Building Council's Leadership in Energy and Environmental Design (LEED®) program, and include: improved air and water quality, reduced operating costs, enhanced asset value and profits, improved employee productivity and satisfaction and optimized life-cycle economic performance. Building system re-commissioning will enhance occupant comfort and health while improving system efficiency. This presentation will highlight some of the opportunities that may be uncovered in each of the building systems as part of a comprehensive re-commissioning program.

Learning Objective(s):

1. Discuss the wide range of assessments that should be considered when ReCx
2. Show how ReCx can enhance occupant comfort and health while improving system efficiency
3. Learn how to develop improved strategies for optimizing building system performance
4. Identify systems with the greatest need and/or those with the greatest opportunities for improvement

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

R1.37 • 337

I Survived: ADA & Safety Code Compliances in Pakistan

Saqib Naveed Cheema, Architect/ Design Manager, Camp Dresser & McKee

In October 2005 a 7.6-magnitude earthquake struck Pakistan, causing massive devastation in the northern parts of the country. This catastrophe gave architects, constructors and authorities the opportunity to "build back better". The United States Agency for International Development (USAID) launched a five-year Earthquake Reconstruction Program to assist in rebuilding facilities and ensure that new buildings are American with Disability Act and safety code compliant. The challenge: not just to reinforce the facilities with the code obligations, but more importantly execute them in the most sustainable and economical

manner. The semi-urban/rural settlements at times challenged designers and executors to even access the sites, as hardly mule tracks would lead their way. Attend this session to hear first hand how proactive engagement and consultation with the codes was adopted in the design phase to facilitate execution.

Learning Objective(s):

1. Understand the framework for reconstruction work
2. Challenges of making safety code compliant structures in mountainous terrain
3. Introducing American with Disability Act in Pakistan's earthquake reconstruction work

AUDIENCE: INTERMEDIATE CEU: 0.1

Power: Generation and Reliability

R1.41 • 341

The Grid Behind the Meter

Dave Turner, Chief Operating Officer, Tangent Energy Solutions, Inc.

Richard Deutschmann, Vice President, Business Development, Tangent Energy Solutions

The growing need for generation, especially renewable, is encumbered by infrastructure issues and transmission bottlenecks. The economic impact, in the billions, is only a fraction of the projected costs to modernize infrastructure. As a result, utility-driven solutions for more generation, cleaner energy and higher reliability are uncertain at best. Proactive facility managers need to focus on what can be done behind-the-meter to meet growing needs for reliable generation and controlled costs. This presentation explains how combining clean, on-site generation assets with energy efficiency technology can provide a significant source of power, while cutting costs.

Learning Objective(s):

1. Understand generation transmission and distribution issues
2. Learn how balancing supply and demand behind the energy meter customers can lower costs increase control reduce grid stress and increase the mix of renewables in the energy system

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

R1.43 • 343

Implementing Video Image Detection for Life Safety and Intrusion Detection

James A. Lynch, Manager of Technical Services, Fike VID

Large volume spaces such as atriums, warehouses, and manufacturing facilities present a challenge to conventional smoke detectors due to the large smoke transport time that will delay notification. This session covers the implementation and use of video image detection systems in these applications for smoke and intrusion detection. An overview

of the technology will lead to the requirements of the approvals such as UL or FM, and the requirements of NFPA code. This discussion of the technology will lead to the implementation of the technology at these large volume sites to prevent delayed detection, increase situational awareness, and general security.

Learning Objective(s):

1. Identify how a VID system functions
2. Understand the benefits of implementation
3. Identify what codes require and how they dictate the system architecture
4. Be able to identify proper applications of the technology

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement

R1.45 • 345

Do You Know Your Peoples' Skill Gap?

Bill Goebel, President, MPACT Maintenance & Reliability Solutions

Learning Objective(s):

1. Understand how to identify employees' skill gap
2. Understand how to fill that skill gap
3. Understand how to use government funds to fill the skill gap

AUDIENCE: BEGINNER CEU: 0.1

Systems, Technology

R1.47 • 347

Identify and Quantify Mission-Critical Factors (How to Perform a Critical Audit)

Neil Maldeis, Energy Engineering Manager, Trane Commercial Systems

A critical systems audit helps a facility manager assess current performance of HVAC, water, lighting, electrical, mechanical, controls and other building systems. Today, advanced audits have become a key step on the journey to create a high performance building that links the building's physical environment to its overall mission. This presentation will address steps for performing a critical system audit, assemble the right team of participants, define program objectives, understand mission-critical factors (identify and quantify), gather relevant data and make comparisons, determine strategies and actions to meet objectives, and measure results and determine program effectiveness.

Learning Objective(s):

1. Learn how to identify and quantify mission-critical factors
2. Understand the benefits of a critical system audit
3. Learn how to begin the journey to create a high-performance building with a critical system audit
4. Hear tips on how to optimize your critical system audit

AUDIENCE: INTERMEDIATE CEU: 0.1



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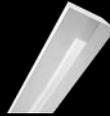
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▲ NFMT Booth #1416

Conference Sessions: Thursday

Energy Efficiency, Upgrades and Utilities, Systems
R1.49 • 349

Optimizing Energy Efficiency without Compromising Occupant Comfort

Gerrit Reinders, LEED-AP, Executive Vice President, Global Sales and Marketing, Telkonet, Inc.

This session will focus on the opportunities available to cost-effectively harvest energy savings of 20 to 50 percent with off-the-shelf, readily available technologies that control HVAC, lighting and plug loads in spaces with intermittent occupancy such as hospitality facilities, residence halls, assisted living facilities, public housing, K-12 schools and similar spaces.

Learning Objective(s):

1. Learn how spaces with intermittent occupancy are notoriously overlooked and ripe with opportunity
2. Understand how to identify spaces with intermittent occupancy
3. Review the types of energy savings available and typical off-the-shelf technology options available to harvest the savings from these spaces

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 AM

Green Standards

R2.18 • 318

How LEED-EBOM 2012 Will Affect Your Green Cleaning Program

Stephen P. Ashkin, President, The Ashkin Group, LLC

The US Green Building Council's LEED for Existing Buildings: Operations & Maintenance Rating System has become the roadmap for green cleaning. Today it is widely considered state-of-art in the cleaning industry and embraced by building owners and managers, as well as the suppliers of cleaning products and services. But LEED is changing and the new 2012 version will introduce new requirements that can help a facility further reduce its environmental performance and save money.

Learning Objective(s):

1. Understand the changes in LEED-EBOM 2012 as it applies to cleaning products and services
2. Understand specific opportunities that are easy to implement and low cost
3. Review the facility manager's role in a green cleaning program

AUDIENCE: INTERMEDIATE CEU: 0.1

Greening an Existing Building, Leadership and Career Advancement

R2.21 • 321

Preparing to Lead Sustainability Initiatives: Roles, Responsibilities, Resources

Kit Tuveson, President, Tuveson and Associates

Facility managers either choose sustainability initiatives to lead or they are given a "sustainability assignment" by management. In either case, they must take time to clearly define the objectives, measures, teams, resources and implementation plan before starting the project. A clearly defined and managed start-up phase will lead to higher probability of project success. The framework for this plan uses four elements: discover, plan, change, and sustain. Use this framework to create your own program for implementing sustainability initiatives.

Learning Objective(s):

1. Describe the sustainability initiative so it can be effectively managed
2. Establish your sustainability leadership role
3. Clearly define the entry point and choose a framework for project management
4. Assemble the right balance of internal and external resources to achieve success

AUDIENCE: INTERMEDIATE CEU: 0.1

Systems, Maintenance and Operations

R2.24 • 324

High Rate of Return Energy Efficiency Initiative May be Hiding in Your Facility Mechanical Rooms

Ron King, Past President, National Insulation Association (NIA)

This session details a pilot program to determine the energy cost and emission reduction opportunities available through repair, replacement, and/or maintenance of mechanical insulation systems in Montana's State facilities. Overall the items yielded an annualized rate of return of 24 percent and projected savings of roughly eight percent of the total natural gas consumption of the facilities analyzed. While the savings from any single item is small, the aggregated total savings from thousands of small items is significant. This presentation will review the methodology and results of the pilot program and discuss how a similar opportunity may be applicable to your facilities.

Learning Objective(s):

1. Understanding an undervalued opportunity for energy efficiency
2. Learn more about a forgotten technology, mechanical insulation
3. Examining energy savings vs. return on investment
4. Understand where to locate available resources

AUDIENCE: INTERMEDIATE CEU: 0.1

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

R2.27 • 327

Risks and Rewards of LED Lighting

John Curran, President, LED Transformations, LLC

LED technology has opportunities to reduce lighting energy usage by 20 percent. However, it also presents major risks to those who are ill-informed of its unique characteristics. Fueled by mandates and media focus, a flood of new products have been introduced to market and exaggerated performance claims cloud the marketplace creating confusion for lighting designers and building owners. In this seminar, attendees will learn key elements of LED system performance, including compromises made by manufacturers and suggestions on how to distinguish applications suitable for LEDs.

Learning Objective(s):

1. Learn the critical differences between LED and other lighting technologies
2. Understand how to distinguish good from poor SSL products and applications
3. Understand the effect of temperature on product lifetimes
4. Learn how to minimize risk when using LED products

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement, Safety and Security

R2.37 • 337

I Survived: FM Above the Arctic Circle

Michael Abels, Operations Manager, Toolik Field Station

The Toolik Field Station (TFS) is a world-renowned Arctic research station located in the northern foothills of the Brooks Range in Alaska at 68° 38' N, 149° 36' W, elevation 720 m and is open year round to support research projects. This presentation will provide a case study of the past 35 years of operations and maintenance of this unique facility.

Learning Objective(s):

1. Understand the unique challenges of building design and operations in a location with temperature ranges of -60 degrees F to 80 degrees F
2. Comprehend the obstacles for operations in the cold: vehicles, snow machines, equipment, and staff working in extreme environment
3. Learn how to keep utilities unfrozen
4. Understand the trials and tribulations of planning major construction in a remote location

AUDIENCE: BEGINNER CEU: 0.1

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▲ NFMT Booth #2275

Conference Sessions: Thursday

Maintenance and Operations, Safety and Security
R2.39 • 339

A Review of the Final ADA Regs

Joan W. Stein, President & CEO, Accessibility Development Associates, Inc.

In the last year, major changes have been announced for the Americans with Disabilities Act (ADA) and the U.S. Department of Justice has adopted the 2010 ADA Standards for Accessible Design. These changes are created many questions in the facility management world. Attend this session for a brief overview on what actually changed with the new final guidelines and timeline of when these new rules will become enforced.

Learning Objective(s):

1. Comprehend what has changed with the new final regulations
2. Understand the timeline for these changes to go into effect
3. Understand a facility manager's role in implementing these changes

AUDIENCE: ADVANCED CEU: 0.1

Power: Generation and Reliability
R2.41 • 341

The Dollars and Sense of Power Reliability

Mario Ibrahim, Product Manager, ASCO Power Technologies

Critical Power Management Systems are extremely important to an infrastructure's power availability, energy management and power analytic capabilities. In this seminar, we will discuss what you can do up front to increase the reliability of your facility's power distribution while decreasing incremental costs through power availability, energy management and power analytics. Monitoring incoming utility, generators, transfer switches and critical distribution helps a facility quickly identify and address issues, while providing advanced features such as, real-time notification, automated JCAHO reporting, and sequence of events logging. Energy meters strategically distributed throughout the power distribution system can help a facility properly manage energy usage and significantly reduce costs. System control simulators and power quality measurement increases system uptime and the usable life of equipment. Simulation can help you analyze various power control scenarios and help pinpoint issues.

Learning Objective(s):

1. Learn how monitoring incoming utility, generators, transfer switches and critical distribution helps to identify and address issues
2. Understand how energy meters manage energy usage and significantly reduce costs
3. Learn how system control simulators and power quality measurement increases system uptime and the usable life of equipment

AUDIENCE: BEGINNER CEU: 0.1

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Safety and Security
R2.43 • 343

Healthcare Compliance Issues

Jennifer Frecker, Manager, Koffel Associates, Inc.

Compliance of health care facilities with the life safety code is a top priority with The Centers for Medicare and Medicaid Services (CMS) and The Joint Commission (TJC). Life safety citations are more than 50 percent of the top ten citations made by these agencies when conducting compliance surveys. Keeping up with the ever changing issues is a top priority for any health care facility. This presentation will provide the participant with examples of some of the most common citations found in health care compliance, along with suggestions for staying in compliance.

Learning Objective(s):

1. Understand the top compliance issues for health care facilities as they pertain to the life safety code
2. Be able to identify compliance issues that are common within their own facility
3. Understand ways to implement strategies that will remedy compliance issues within their facility
4. Understand some of The Joint Commission's decision rules, changes and other clarifications

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement
R2.45 • 345

Developing A Leadership Style That Fits You and Leads To Success

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

Leadership should be a lifestyle, rather than a method. When leadership is a lifestyle, it involves our relationships at work and elsewhere, our head knowledge and our heart condition (our sense of caring, our passions). Leadership consists of life-giving actions that affect people who will get things done successfully. Life-giving actions inspire people, give people power and strength to press forward. A leader does not motivate people, but uses life-giving actions to inspire people who develop ways to do what must be done in your organization.

Learning Objective(s):

1. Distinguish between lifestyle leadership and applied methods of leadership
2. Discuss inspiration that leads to the motivation of employees for organization success
3. Consider the affect of a leader's personal style in leading others
4. Show examples of lifestyle leadership.

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations
R2.47 • 347

Important Factors to Consider to Avoid Low-Sloped Roofing System Failure

David Slick, Associate Principal; Philip Frederick, Staff Engineer, Simpson Gumpertz & Heger Inc.

In low-slope roofing systems, poorly adhered roofing assemblies are unable to resist significant wind loads and are likely to be further damaged or destroyed by wind events well below the design wind pressures for the assembly. There are several factors that can contribute to such damage. Foamed adhesives are used to join roofing assembly components to the roof substrate and to each other, and require proper design and installation.

Learning Objective(s):

1. Learn about several key factors that can effect low-sloped roofing assembly performance
2. Receive insight into several aspects of roofing system technology
3. Be aware of several issues during design and installation of low-sloped roofing assemblies
4. Take away lessons to be learned from actual low sloped roofing investigations

AUDIENCE: INTERMEDIATE CEU: 0.1



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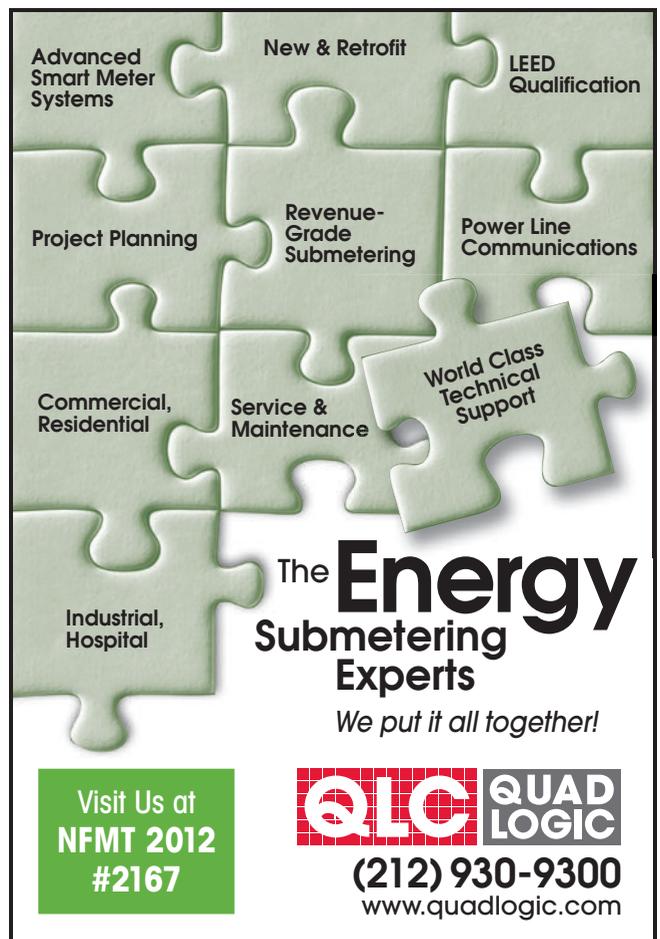
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Conference Sessions: Thursday

Technology

R2.49 • 349

Seismic Assessment of the Washington Monument and the Washington National Cathedral

Matthew C. Farmer, P.E., Principal, Wiss, Janney, Elstner Associates, Inc.

Erik C. Sohn, P.E., Senior Associate, Wiss, Janney, Elstner Associates, Inc.

Following one of the largest earthquakes to affect the east coast, and the most widely-felt earthquake in U.S. history, Wiss, Janney, Elstner Associates, Inc. was asked to evaluate the impact of potential interior and exterior seismic damage on the structure and operations of the Washington Monument and Washington National Cathedral in Washington, DC. Tasks performed ranged from the initial emergency response and make-safe operations, to development of repair designs and the evaluation of potential seismic upgrades.

Learning Objective(s):

1. Review the initial steps following a natural disaster
2. Learn what items are important to review during the initial assessment
3. Understand what types of access are available, appropriate, and potentially warranted for unique and historically significant structures

AUDIENCE: INTERMEDIATE CEU: 0.1

2:10-3:00 PM

Greening an Existing Building

R3.18 • 318

Developing a Sustainable Program

Suzanne M. Zabowski, National Accounts, StructureTec

Be proactive — not reactive! This seminar will help bring your focus back to the basics and assist you in devising a strategic “plan of attack” to meet your specific building envelope goals and objectives. The purpose of this seminar is to provide you with a “roadmap” of where you are, where you would like to be, and how to get there. The information discussed will be drawn from actual case studies for organizations and corporations across North America.

Learning Objective(s):

1. Understanding the importance of prioritization
2. Cost reduction by using the proper tools
3. Learn “sustainability approaches” for your facility

AUDIENCE: BEGINNER CEU: 0.1

Green Standards

R3.21 • 321

To LEED or Not to LEED

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

Mark Lentz, P.E., President, Lentz Engineering Associates, Inc.

There is growing evidence that some LEED certified buildings are failing to deliver the benefits the USGBC developed program has promised. The market is beginning to show signs of green fatigue. The promise or pursuit of LEED certification imputes a higher standard of care and owners expect to receive both economic and non-economic benefits because of that decision. Design firms and individuals who promise or pursue LEED certification may experience adverse consequences and be at risk if the building fails to achieve LEED certification, fails to meet performance expectations, or is later found to have achieved LEED certification fraudulently. Examples will be provided.

Learning Objective(s):

1. Understand ASHRAE requirements for LEED
2. Learn the common failures to meet LEED requirements
3. Understand the risks for participants in LEED projects
4. Comprehend LEED facts and fiction

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities, Greening an Existing Building

R3.24 • 324

Energy Reduction Planning

Jeff Euclide, P.E., CEM, Executive Vice President, Entech Engineering Inc.

This presentation will describe the steps facilities managers should take to implement an energy reduction program after the energy audit is completed, including the information requirements, a review of conservation measures and costs and measurement and verification steps. The presenter will review two case studies and examine the goals, objectives, resources and outcomes from these projects.

Learning Objective(s):

1. Review how to select energy conservation measures for implementation to budget for a multi-year energy reduction program
2. Understand how energy conservation measures and deferred maintenance projects should be managed together
3. Illustrate how a good energy program is necessary for a realistic climate action plan
4. Review measurement and verification of predicted energy savings

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

R3.27 • 327

A Road Map for Lifecycle BIM

Marty Chobot, Vice President, FM: Systems

Despite 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? In this presentation, the speaker will present their stories and challenges, the results and the lessons learned for using BIM to solve real-world facility management challenges.

Learning Objective(s):

1. Learn more about BIM technology
2. Learn how BIM can benefit facility managers
3. Review best practices in making a BIM project successful
4. Comprehend the importance of communicating with their AEC firms

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement, Maintenance and Operations

R3.37 • 337

I Survived: Walter Reed Medical Center - Behind the Scenes from the Investigator

Ricky Smith, Principle Reliability Advisor, GPAllied

The facility maintenance management system that the U.S. Army developed for its preventive maintenance program was not used properly in the Garrison Facilities at Walter Reed Army Medical Center. Consequently, senior leadership was left blind to the looming maintenance problems (they had a CMMS but had little data and the data in it was questionable). Learn from the Facility Investigating Office, MAJ Ricky Smith (Retired), on this experience and things you can do to manage a complex facility organization effectively.

Learning Objective(s):

1. Learn how to manage asset health of a complex facility
2. Review world class maintenance management attributes
3. Learn how to balance preventive with predictive maintenance
4. Understand maintenance metrics using balanced scorecards - how to know if the data is real

AUDIENCE: BEGINNER CEU: 0.1

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Conference Sessions:

Thursday

Systems

R3.39 • 339

CO2 Reduction, Water and Energy Conservation on the HVAC Systems

Brian Jenkins, Global Industry Development Manager
Nalco Company

For many facilities, the central utility plant is the primary energy and water consumer. One of the next largest energy consumers are the air handling systems. Efficient, proactive operation of these systems is the goal of facility managers. Unfortunately, while these goals have not changed, the constraints under which facility managers operate have become more challenging. Facilities personnel have more responsibilities, but fewer resources. Energy costs continue to increase. HVAC and air handler assets are more expensive. And improvement requisitions that were once easily approved are now subject to more stringent justification and documentation.

Learning Objective(s):

1. Review several approaches to reduce CO2 generation and improve the water and energy profile in several operations
2. Learn how to document the process, before and after measurements and ROI compilation
3. Understand the automation and technologies used and review several examples

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations

R3.43 • 343

Using AHRI Certified® HVAC and Water Heating Products to Meet Building Energy Targets

Laura Petrillo, AHRI Certification Engineer
AHRI

In this session, you will learn how the Certification Program of the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) works and why specifying and installing AHRI Certified® products is the only way to ensure you will get the efficiency you expect, that you've paid for, and that will help you meet your green building targets. Install AHRI Certified products and be sure.

Learning Objective(s):

1. Understand how AHRI Certification works
2. Learn why specifying and installing AHRI Certified products is essential to meeting energy efficiency goals
3. Learn how to balance preventive with predictive maintenance
4. Review how meeting green building performance targets depends on installing AHRI Certified HVAC and water heating equipment

AUDIENCE: BEGINNER CEU: 0.1

Staff Training and Development, Strategic Planning

R3.45 • 345

Project Management 101

Dr. David R. Hale, CPMM, Consultant, David R. Hale Consulting

Project management — it has been said — is 60 to 90 percent people management. This session will give attendees an introduction to project management with an emphasis on who, what, where, when and why. Is a project actually needed or can the issue be remediated with a procedural or personnel change. Also, a brief on how a competent project manager should conduct the project as well as themselves.

Learning Objective(s):

1. Understand the steps to consider when developing a project
2. Learn the thoughts to consider when running a project
3. Considerations for a professional project manager's demeanor

AUDIENCE: BEGINNER CEU: 0.1

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Thursday

Technology

R3.49 • 349

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 how monitoring based commissioning enhances sustainability
2. Be able to evaluate and implement an energy monitoring and verification program
3. Understand how chiller plant optimization can cut energy costs

AUDIENCE: INTERMEDIATE CEU: 0.1

3:10-4:00 PM

Greening an Existing Building

R4.37 • 337

Sustainable Infrastructure Assessments — More Bang for the Buck

Steve L. Shoaf, P.E., Senior Associate, TEC Inc.

Advance your understanding on how sustainable infrastructure assessments can generate tremendous value. Agencies routinely perform facility condition assessments, space utilization studies, and energy evaluations. All these assessments, performed collectively, can reduce time, effort, and cost. This session will walk you through how TEC Inc. leveraged this synergistic approach, demonstrating the value in adopting the sustainable infrastructure assessment method currently being explored by the U.S. Department of Defense.

Learning Objective(s):

1. Understand sustainable infrastructure assessments
2. Evaluate alternative methods of efficiently conducting condition assessments, energy audits, high performance building audits and space utilization/optimization studies
3. Learn ways of generating savings for large physical plant owners

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy Efficiency, Upgrades and Utilities

R4.39 • 339

Unlocking Efficiency: Keys to a Successful Energy Management Program

Pete Arnoldt, Sales Consultant, RCx Building Diagnostics

Katie Flynn, Energy Engineer, RCx Building Diagnostics

Cindy Omstead, Business Development Manager, RCx Building Diagnostics

Many facility managers have significant opportunities to reduce operating costs and improve their building's value by increasing energy efficiency. The development and implementation of an energy-management program is the first step in this process. This presentation will help to identify the key components necessary for planning and



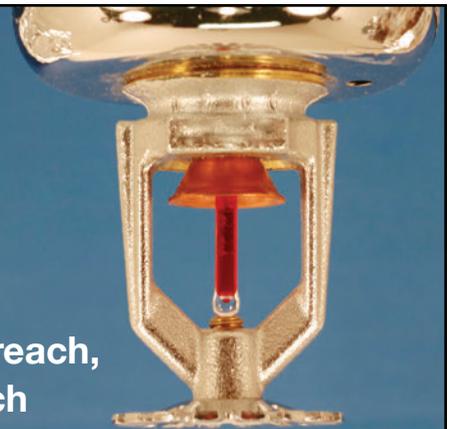
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Conference Sessions: Thursday

initiating a successful energy-management plan as well as providing you with an overview of where and how to start managing your facility's energy use. You will learn how to construct and implement an energy management plan, how to evaluate the efficiency of your facility, and identify where you can improve building performance through energy audits or retrocommissioning, when applicable.

Learning Objective(s):

1. Identify critical elements necessary for a successful energy management plan
2. Learn how to determine current energy consumption within a facility and identify opportunities for efficiency improvements
3. Understand the differences (and similarities) between energy audits and retrocommissioning and when either of these services might be applicable

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations, Safety and Security

R4.43 • 343

ASHRAE Standard 188P: Prevention of Legionellosis Associated with Building Water Systems

Dr. William F. McCoy, Chief Technology Officer, Phigenics

The American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE) has developed a standard practice that specifies what is required to prevent legionellosis associated with building water systems. The first public review was completed in November 2010; there were many supportive comments posted and also many excellent suggestions to improve the Standard. A revision was produced in response to comments received during the public review. The second public review was successfully completed in July 2011. This paper describes specifically what practice the proposed Standard requires. Perspective is given about the problem that the Standard addresses. A history is given of legionellosis prevention practice.

Learning Objective(s):

1. Review the history of legionellosis prevention practice
2. Understand the new Standard Practice from ASHRAE about preventing legionellosis
3. Review the updates from public review to the Standard

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

R4.47 • 347

Acoustical Problem Solving for the Facility Manager

Art Barkman, President, Sound Management Group

Studies have shown that the proper acoustical design can improve efficiencies by up to 14 percent. Acoustical design considerations are often overlooked in new construction and remain unaddressed in existing space. This presentation will identify the most prevalent and disruptive issues, how and where to find them and what to do to fix them. This is a valuable presentation for both the pro-active and reactive FM.

Learning Objective(s):

1. Understand sound and how to control it
2. Learn how to survey their facility to find noise control problems that impact efficiency and function
3. Evaluate solutions both in house and outsourced
4. Present solutions in a format that is concise and easy to understand

AUDIENCE: INTERMEDIATE CEU: 0.1

Friday

Friday, March 16 8:00 AM - Noon

Maintenance and Operations , Staff Training and Development

PC3 • 337

The Top Five Things FMs should know about the 2010 ADA Standards for Accessible Design*

Joan W. Stein, President & CEO, Accessibility Development Associates, Inc.

On March 15, 2012, major changes to titles II and III of the Americans with Disabilities Act (ADA) — published in September, 2010 — will become requirements for ALL new construction, alterations and barrier removal. March 15, 2012 is the date for the new elements that were not in the original ADA Standards.

Do you understand the changes to the ADA regulations? Is your facility compliant?

Join ADA expert Joan Stein for a four-hour workshop as you explore the top five changes to titles II and title III of the ADA. The 2010 Standards changes are groundbreaking -- this Civil Rights Law has not been changed since its implementation twenty years ago. Understanding these changes is paramount to limiting the exposure of any organization to the threat of litigation from individuals or the Justice Department. This interactive workshop will provide a platform to ask all the ADA questions you've been afraid to ask, or didn't know to ask.

Learning Objective(s):

1. Be able to identify the technical and scoping differences between the 1991 and 2010 Standards including height-reach ranges, parking requirements, direct access entrance from parking structures and circulation paths in employee work areas
2. Learn about the new areas that were not requirements in the 1991 enforceable standards, including children's environments, outdoor recreation (particularly new requirements for pools), dwelling units at educational institutions
3. Understand the new policies for effective communication and use of service animals
4. Comprehend the new policies for wheelchairs and other power-driven mobility devices, reservation systems and room descriptions for hotels (transient lodging)
5. Learn how the 2010 Standards will affect your ADA compliance plan

AUDIENCE: INTERMEDIATE CEU: 0.4

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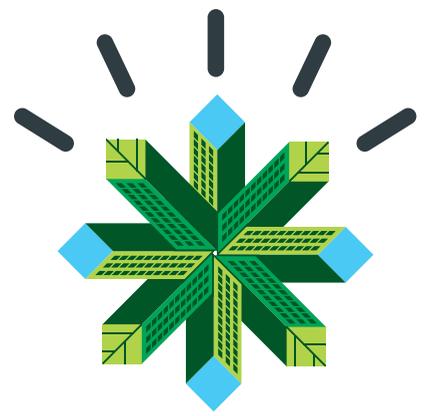
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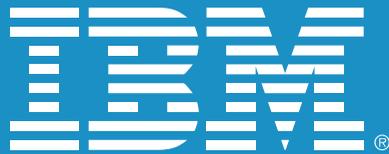
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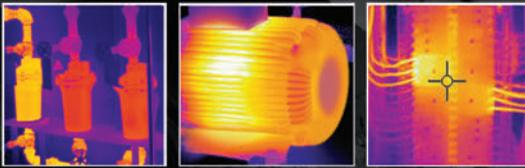
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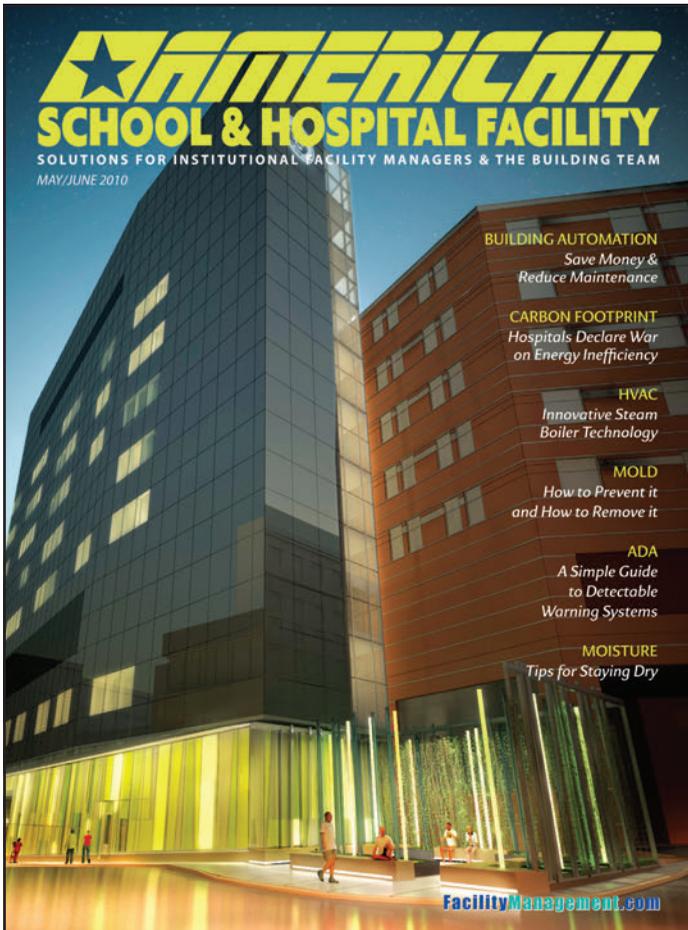
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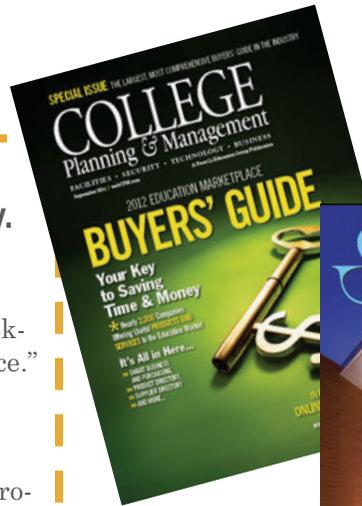
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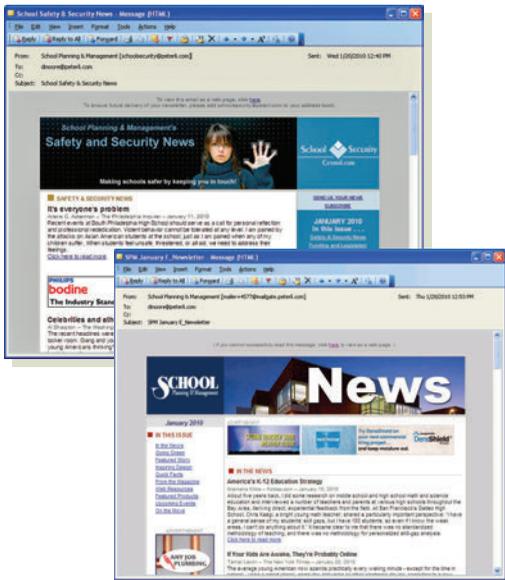
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703-253-1800
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www.pepcoenergy.com

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At signmojo.com, we specialize in customization and sign design. We create realistic images of our signs and we give you the ability to customize them before ordering. Our website is easy to use and our signs are ADA compliant guaranteed; you can't go wrong!

Sika Sarnafil, A Division of Sika Corp. – Steril-Aire Inc.



Sika Sarnafil, A Division of Sika Corp.

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 Fax: 781-828-5365
<http://usa.sarnafil.sika.com>

Sika Sarnafil has 45 years of experience delivering thermoplastic, single ply membranes and systems that offer building owners sustainable solutions for roofing and waterproofing applications.

Simon Roofing

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 Youngstown, OH 44512
 800-523-7714
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www.simonroofing.com

Simon Roofing has been leading the way in the manufacturing, installation, service and repairs of commercial roofing for more than 110 years. They have the knowledge and experience to identify roofing problems, develop service solutions to extend a roof's lifespan and reduce the spending needed for proper roof maintenance. Simon is a national company with service centers across the country.

SimplexGrinnell

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 512-514-7800
www.sitestuff.com

As the market leader in the area of MRO procurement for commercial real estate, SiteStuff helps our clients purchase everything they need to maintain and operate their building. We also offer solutions that streamline contract bidding, support reporting requirements and improve compliance into corporate initiatives.



Sloan Valve Company

Booth# 2207
 10500 Seymour Ave.
 Franklin Park, IL 60131
 800-9-VALVE-9
 Fax: 800-447-8329
www.sloanvalve.com

Sloan is the leading manufacturer of commercial plumbing systems and has been in operation since 1906. Headquartered in Franklin Park, Ill. the company is at the forefront of the green building movement and provides sustainable restroom solutions by manufacturing water- and energy-efficient products such as flush valves, electronic faucets and soap dispensing systems, sink systems, and vitreous china fixtures.

SMI Sign Systems

Booth# 2022
 2387 Lewis Ave.
 Rockville, MD 20851
 301-468-1132
 Fax: 301-230-9048
www.smisigns.com

SMI Sign Systems is a full-service sign company located in Rockville, Md. servicing the greater Washington D.C. metro area. Our product line includes, but is not limited to, interchangeable ADA-compliant sign systems, interior dimensional letters and logos, large-format digital printing, traffic and parking control signs, illuminated channel letters, pylon and monument signs, design services, permitting services and more.



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 Gaithersburg, MD 20878
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Special Pathogens Laboratory

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 Pittsburgh, PA 15219
 412-855-2127
 Fax: 412-281-7445
www.specialpathogenslab.com

Special Pathogens Laboratory® provides the healthcare and water treatment industries, and commercial and industrial sectors reliable water testing, microbiological, and consulting services. SPL provides comprehensive strategies for detection, control, and disinfection of Legionella and waterborne pathogens. Founded by internationally recognized experts for groundbreaking research in Legionnaires' disease, SPL is an accredited laboratory and CDC-ELITE certified for expertise in Legionella testing.

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 Fax: 803-714-2222
www.spiraxsarco.com/us

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www.srpglassrestoration.com

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 Fax: 203-353-9521
www.starnetflooring.com

Starnet Worldwide is a member-owned commercial flooring partnership. Our 170 member flooring contractors operate from more than 300 North American service locations, selling, installing and maintaining all types of commercial flooring. We recycle all used commercial carpet and some types of hard surface flooring.



Steril-Aire Inc.

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 818-565-1128
 Fax: 818-565-1129
www.steril-aire-usa.com

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Exhibitor Listings: STOKO Skin Care – Test Products International



STOKO Skin Care

Booth# 2533
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Greensboro, NC 27406
800-334-0282
Fax: 336-333-7512
www.stokoskincare.com

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Hunt Valley, MD 21030
410-785-0875
Fax: 443-269-0216
www.swmaintenance.com

Stormwater Maintenance LLC helps the owners of drainage and stormwater infrastructure meet regulatory obligations and predictably minimize costs. We inspect, maintain, repair, and resolve county issues with all types of above ground and below ground stormwater management facilities and drainage infrastructure. In-house professional engineering services save time and money on difficult or technical repairs. We are 'The Stormwater Experts.'

StructureTec

StructureTec
Booth# 2037
4777 Campus Drive
Kalamazoo, MI 49008
269-353-9944
Fax: 269-544-1671
www.structuretec.com

A consulting and specialty services firm that specializes in the restoration of building envelopes, roofs, pavement and concrete structures, providing turn-key solutions for our clients on a national and global level — our Total Building Envelope and Pavement Management Solution. Presentations: 3/13 @ 11 a.m. - Room 337 "Pavement Management"; 3/15 @ 2:10 p.m. - Room 318 "Developing a Sustainable Program".

Stryker EMS

Booth# 1847
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Portage, MI 49002
800-669-4968
Fax: 302-777-5694
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212-273-6900
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www.sunbeltrentals.com

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Switch Lighting™ is dedicated to innovative design and technologies that create cost-effective LED lighting solutions for consumers and businesses replacing ordinary A19 incandescent and compact fluorescent lamps in the residential, commercial, and hospitality markets. The company's high performance LED products are designed to contribute to human and planetary health with their revolutionary energy efficiency and Cradle-to-Cradle™ inspired design.

TAMKO Building Products Inc.

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www.tamko.com

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Tapmaster Incorporated

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Fax: 403-275-5928
www.tapmaster.ca

Tapmaster Incorporated manufactures unique hands free faucet controllers that operate without electricity batteries or sensors. It is a touchless faucet system designed to provide an easy, hygienic and environmentally responsible way to activate water flow. Tapmaster contributes significantly to water savings which equals cost savings. They have been known for their quality and reliability since 1993.

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Telkonet is a leading provider of energy management technology, offering hardware, software, and support services to commercial customers worldwide. Together, the EcoSmart product suite and the EcoCentral management

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Teupen USA Inc. – Universal Lighting Technologies Inc.

Teupen USA Inc.

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 www.epa.gov/lead

The U.S. Environmental Protection Agency's ENERGY STAR program has helped thousands of businesses and organizations tap into energy efficiency savings through strategic energy management. Using resources such as ENERGY STAR Portfolio Manager, a free online energy measurement and tracking tool, building owners, managers, and service providers can assess energy usage, quantify improvements, and obtain EPA recognition for superior energy performance.



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 www.uglservices.com

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 Fax: 800-367-1988
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 www.soybiobased.org

Universal Lighting Technologies Inc.

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Universal Lighting Technologies is the industry leader in designing, engineering, manufacturing and distributing intelligent lighting solutions that provide dramatic energy savings, increased design flexibility and improved reliability. Universal manufactures electronic, magnetic, dimming, HID and compact fluorescent ballasts, fluorescent sign ballasts and lighting controls for all lighting applications.

Exhibitor Listings: Unlimited Restoration Inc. – VRTX Technologies



UNLIMITED RESTORATION, INC.

Unlimited Restoration Inc.

Booth# 2342
3521 E. Federal St.
Baltimore, MD 21213
410-327-3736
Fax: 410-327-1020
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eMaintenance: the ultimate Enterprise Asset Management software that holds contractors accountable for performance and punctuality, and provides superior asset tracking. Just click a button to see preventative maintenance and repair histories, fast, accurate, online invoicing, or access superior budget reporting and controls. With eMaintenance, facility managers dramatically improve efficiency — improved contractor performance, extended asset life, and efficient operations at less cost.

Utilimon

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Tulika 19
Talinn, Estonia
+372 52 323 53
Fax: <http://utilimon.com/>

We provide property management companies, large-buildings owners and large companies solutions for practicing more efficient utility cost management. Three different stakeholders in a company are benefiting from Utilimon: • owners and executives enjoy lower utility costs • building managers can track and improve the health of their buildings • marketing can communicate this effort to general public.

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Utility Metering Solutions provides a

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443-759-3266

www.vanguardenergypartners.com

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www.vdassoc.com

VDA (Van Deusen & Associates) is one of the world's leading vertical transportation (elevator) consulting organizations. We specialize in the evaluation of your ongoing maintenance program to assist in the rectification of noted contractor deficiencies and improve your ROI. We also offer a full menu of client-focused services for the modernization of existing equipment installations and new equipment installations.

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www.vectorsecurity.com

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Port Washington, WI 53074
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Fax: 262-284-3775
www.veoliaes.com

Veolia ES Technical Solutions LLC (Veolia) is a global leader in recycling hazardous and universal waste. Whether you have large or small quantities of fluorescent lamps, ballast, batteries, mercury waste or computer electronics we can help you set up a cost-effective, safe and compliant recycling program.



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Viconics simplified automation solutions are targeted primarily at the small building and retrofit markets and offer many of the benefits associated with more complex automation systems at a lower total installed cost. Viconics specializes in network-ready and networked communicating wall-mounted temperature controls based on open industry standard protocols and include BACnet®, LonTalk® and Wireless ZigBee®.



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Videx Inc. is the manufacturer of CyberLock access control products. CyberLock is an electromechanical security solution that increases key control and accountability. The system is designed to track and control access with electronic locks and programmable keys. Each electronic lock cylinder easily retrofits into existing mechanical hardware. No wiring or battery is required for installation, enabling controlled access with audit trails even during power outages.

VRTX Technologies

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VSC Fire & Security – WM LampTracker (WMLT)

VSC Fire & Security

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www.wlgary.com

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Washington Gas Energy Services

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410-628-9437
Fax: 410-628-1392
www.wges.com

Washington Gas Energy Services Inc. (WGES) is one of the largest and most experienced energy suppliers in the Mid-Atlantic region. More than 300,000 commercial and residential customers in Md., Del., Pa., Va. and D.C. depend on WGES to supply their energy needs.

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Exhibitors by Product Category

Acoustical Solutions/Sound Masking – Construction Support Services

ACOUSTICAL SOLUTIONS/ SOUND MASKING

Acoustical Solutions Inc.....	1818
Concrete Visions LLC.....	1120
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Lencore Acoustics Corp.....	2319
Overly Door Co.....	2509
Pritchard Brown LLC.....	2599
ProCoat Products Inc.....	2147

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Ascension.....	1519
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Elkay.....	2575
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Excel Dryer Inc.....	2271
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Marks USA.....	2511
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Precision Doors & Hardware LLC.....	1529
San Jamar.....	2344
Scranton Products.....	2445
SDC (Security Door Controls).....	2323
Signmojo.com.....	1202
Sloan Valve Company.....	2207
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ISES Corp.....	2529
Kelly Generator & Equipment Inc.....	2391
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Multivista.....	2577
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RCx Building Diagnostics.....	2266
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W.L. Gary Co. Inc.....	1534

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Bell Bird Control.....	2247
Sealeze-A Unit of Jason Inc.....	2365

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Control Technologies Inc.....	1303
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Exhibitors by Product Category: Safety Products – Software

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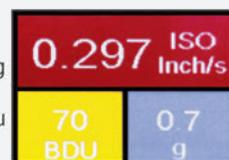
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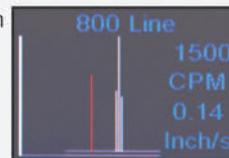
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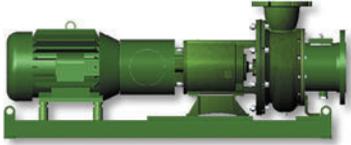
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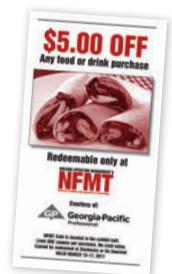
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Exhibit Hall Map



BUILDING OPERATING MANAGEMENT'S NFMT 2012

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KEY

- Restrooms
- NFMT Café
- NFMT Expo
- MS Expo
- Building Services Pavilion
- GreenTech Expo
- Exhibitor Lounge
- 2013 Exhibit Space Selection

Expo Floor Highlights

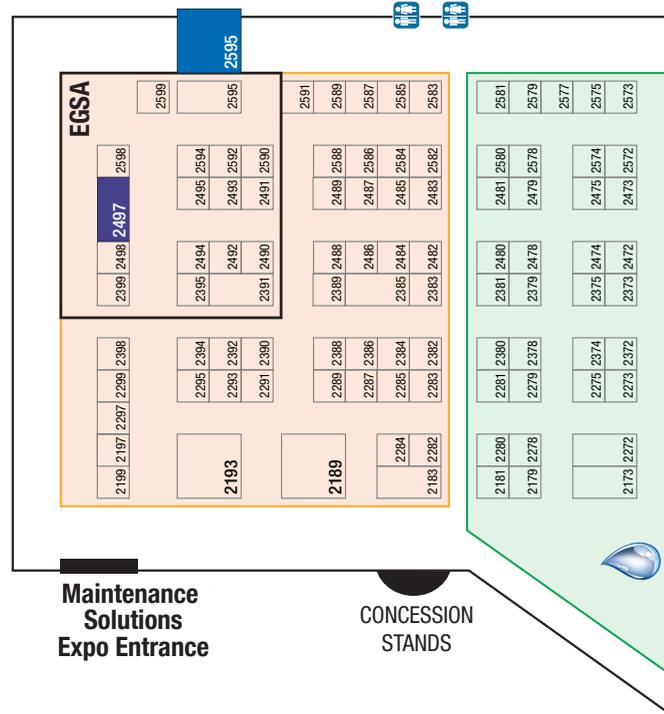
- Cyber Center 1100 & 2497
- Certificate of Attendance 1300
- NFMT Member Lounge 2595

Platinum Sponsor Booths

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1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006

Entrance



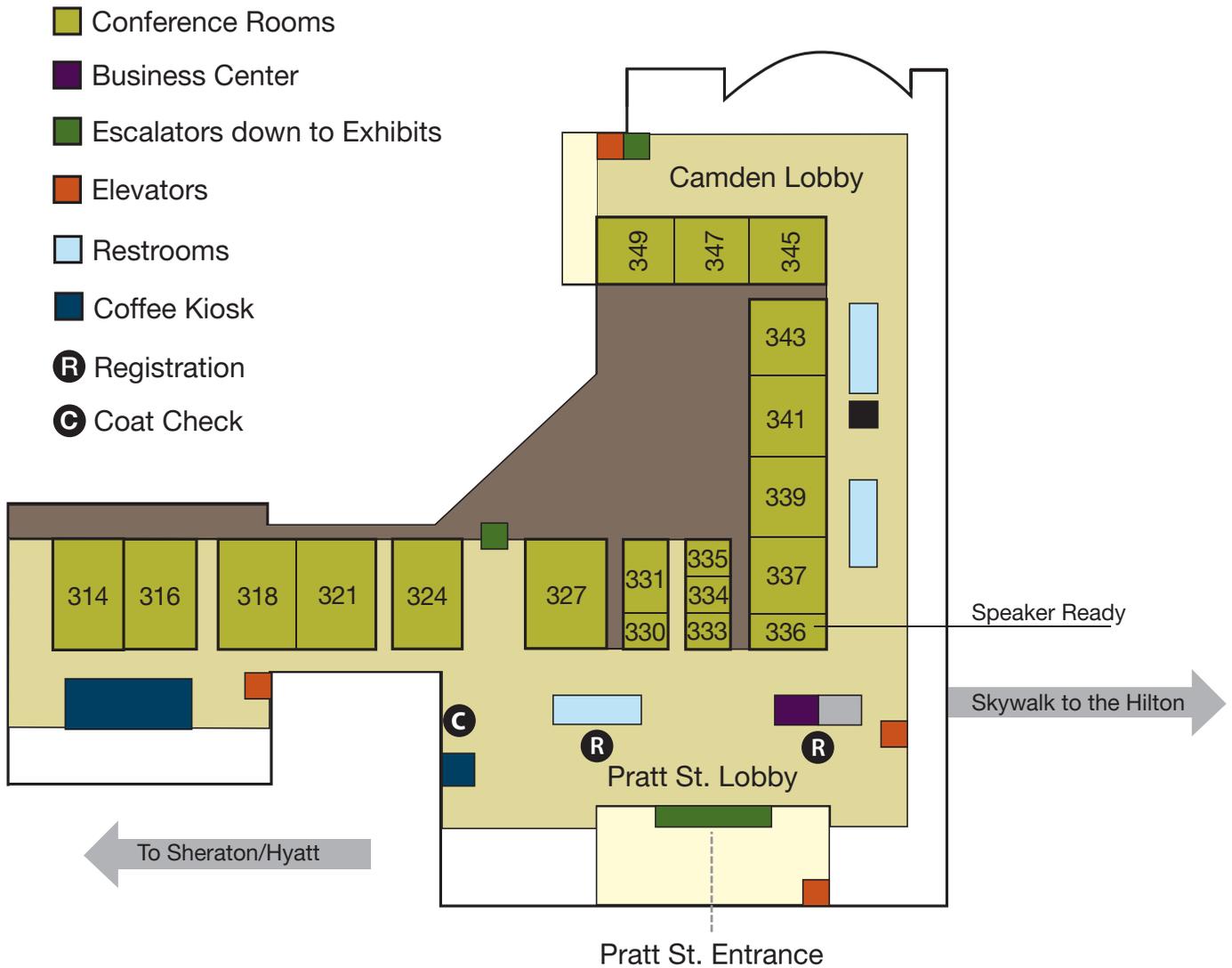
CONCRESSION STANDS



1100

900

300 Level Floor Plan



Special Events

ROOM 314

- NFMT Member Session, Tuesday at 9:00 a.m.

ROOM 316 - GENERAL SESSIONS

- FMXcellence: Adding Value to Your Organization, Tuesday at 8:00 a.m.
- Engage in the 5 C's of Leadership for Success, Thursday at 8:00 a.m.

ROOM 331

- COBIE Challenge and Case Studies, Tuesday at 9:00 a.m.

PRATT STREET LOBBY

- Opening Night Networking Party, Tuesday at 4:00 p.m.
- Solutions Exchange Networking Event, Wednesday at 7:45 a.m.

Baltimore Convention Center

LEVEL 300

Registration and Conferences

LEVEL 200

Pratt Street Entrance
Show/Press Office

LEVEL 100

Exhibit Floor

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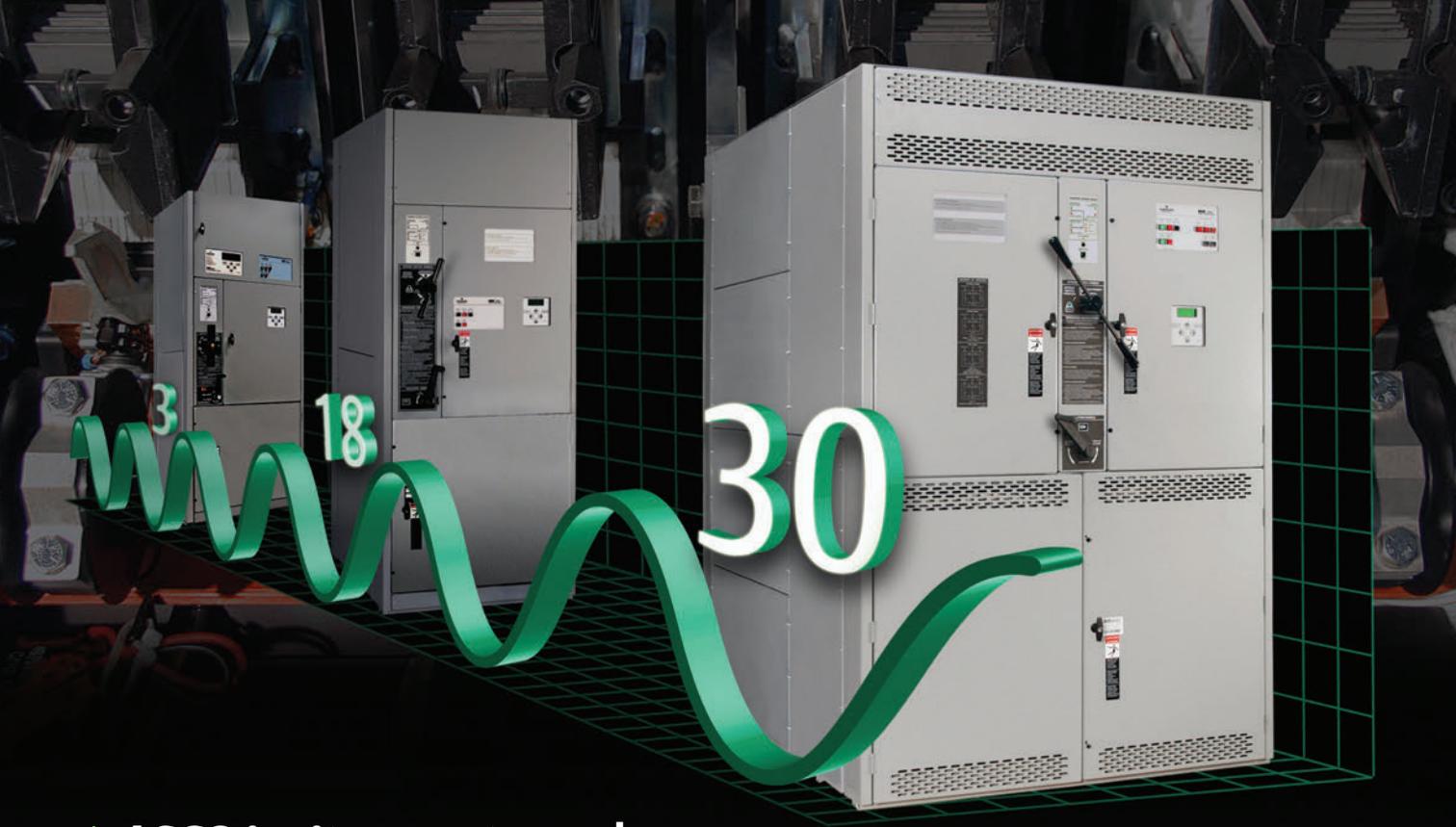


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