

BUILDING OPERATING MANAGEMENT'S

NFMT[®]

National Facilities Management & Technology Baltimore

2016 DIRECTORY



Networking Opportunities 8



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BUILDING OPERATING MANAGEMENT'S
NFMT[®]2016
 National Facilities Management & Technology March 22-24, 2016 • Baltimore

Schedule

Tuesday

8:00 – 11:50 a.m.	Conference Sessions
Noon – 4:00 p.m.	Expo Hall Open
12:30 – 3:30 p.m.	QuickFire Sessions in the Expo Hall
3:45 p.m.	\$1,000 Cash Prize Drawing
4:00 – 5:00 p.m.	Networking Party

Wednesday

8:00 – 8:50 a.m.	Mentoring Event
9:00 – 10:50 a.m.	Conference Sessions
10:00 - 10:50 a.m.	Young Professional Panel
11:00 a.m. – 3:00 p.m.	Expo Hall Open
11:30 a.m. – 2:30 p.m.	QuickFire Sessions in the Expo Hall
2:45 p.m.	\$1,000 Cash Prize Drawing
3:10 – 5:00 p.m.	Conference Sessions
4:10 – 6:30 p.m.....	Women in FM Panel and Reception
5:15 – 6:30 p.m.	Solutions Exchange
6:30 – 8:30 p.m. ...	Young Professional Happy Hour

Thursday

8:00 – 10:50 a.m.	Conference Sessions
9:00 – 9:50 a.m.	Government Panel
11:00 a.m. – 2:00 p.m.	Exhibit Hall Open
11:30 a.m. – 1:30 p.m.	QuickFire Sessions in the Expo Hall
1:45 p.m.	\$1,000 Cash Prize Drawing
2:10 – 4:00 p.m.	Conference Sessions

Welcome to NFMT 2016

It is my pleasure to welcome attendees, speakers and exhibitors to NFMT 2016, where the FM force is strong and gives you access to the training, networking and product research you need to become a facility management Jedi. For the next three days, consider yourself part of an alliance dedicated to elevating the role we all play in making our buildings, our teams and ourselves a force to be reckoned with.

We kick off things off Tuesday morning with an out-of-this-world opening session: “May the FM Force Be with You: What Star Wars Can Teach You about Managing Buildings.” Our panelists discuss how one of our generation’s most iconic movies offers insights into effectively harnessing technology, leading a team and developing a career — without giving in to the dark side.

Throughout this year’s conference, we invite you to explore what the future has in store for creating connected, tech-savvy buildings with our new Internet of Things track, and a corresponding Internet of Things pavilion in the expo. Both offer excellent opportunities to learn more about this emerging topic and what it means for your facilities. Speaking of technology, be sure to attend *Facility Maintenance Decisions*’ Dan Hounsell as he moderates a panel on Unmanned Aerial Vehicles — or drones — Thursday morning at 9:00.

If this isn’t your first visit to NFMT, you’re sure to notice some changes to this year’s schedule that includes more sessions, more time to network and more solution providers in the expo — along with our new QuickFire Sessions in the expo hall (navigate your way to booth 2055, and check out the roster on page 12-13). Think of it as industry education at warp speed!

We appreciate your participation in NFMT and welcome your feedback on how we can continue to offer the best and most comprehensive conference and expo in the FM galaxy.

May the FM Force be with you!

Sincerely,

Bob Wisniewski



President and CEO

NFMT and Trade Press Media Group

P.S. Please use the event hashtag [#NFMT16](#) to share all your interstellar experiences at NFMT.





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



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C&W Services is one of the largest facility services companies in the USA & Canada with a 65 year history of helping clients drive down operating expenses, increase facility efficiency and uptime, enable strategic business decisions and create positive experiences for the people who work, shop, learn, live and play in the facilities we maintain.



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Women in Facilities Management Panel
and Reception

Federal Government Panel
and Breakfast Sponsor

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Booth #2514

Booth #2217



Booth #2346

Booth #1610



Booth #1310



Booth #2455

NFMT Partners



Booth #2551



Booth #2489



Booth #2271



Publication Bin



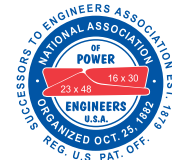
Booth #2588



Booth #2577



Booth #1123



Booth #2486



Booth #2686



Booth #2388



MARYLAND

Booth #2659



Show Highlights

Tuesday

General Session

May the FM Force Be with You: What Star Wars Can Teach You about Managing Buildings

8:00 a.m. – 9:50 a.m. • Room 316

Let's kick off NFMT 2016 with a bang and some fun! The Tuesday General Session will feature a panel that will discuss leadership, management, technology and more. Make sure to get here early as this session will surely be a full house. See page 22 for a full description of the session.

FMXcellence Honorees

Achieving Excellence in Facilities Management: FMXcellence Honorees

9:00 a.m. – 9:50 a.m. • Room 321

Join the 2016 *Building Operating Management* FMXcellence honorees as they discuss their award winning projects. Gain insight from the honorees on the hurdles and successes of these projects. See page 23 for a full description of the session.

The 2016 honorees include Max Planck Florida Institute, Frederick County Public Schools (Maryland), TD Bank Group, and the Klein Independent School District.

Wednesday

GSA Day at NFMT

Join the GSA as they provide four sessions that outline Federal Building Personnel Training Act and High-Performance Teams. All sessions will take place in room 337.

- W1.37 Build a High-Performance Team: Federal Building Personnel Training Act (FBPTA)
- W2.37 Three Agencies Building High-Performance Teams: GSA, DOD, and VA - One Year Later
- W3.37 Tools You Can Use To Build a High-Performance Team Part I: FEDSAT
- W4.37 Tools You Can Use To Build a High-Performance Team Part II: Accelerate FM

Thursday

General Session

Surviving in the Cruel War of Cost Cutting: How to Expand Your Breadth of Influence

8:00 a.m. – 8:50 a.m. • Room 316

Earning the respect of senior management is something every facility manager should aspire to achieve. Join us on Thursday morning to reveal tips on how to increase your breadth of influence. See page 52 for the more information on this session.

All Three Days

VIP \$50 Hourly Giveaway

We think you are a Very Important Person! Let everyone know your status by picking up your VIP pin at registration. Wear it proudly in the expo hall and you just might win \$50 on the spot. One winner will be selected every half hour during the expo hours!

\$1,000 Daily Cash Drawing • Booth #2707

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

Do you want to win \$1,000? Every day at NFMT, we will be awarding a \$1,000 cash prize, so be sure to fill out the ballot found in your tote bag. Drop it off at either of our co-sponsor's booths #2231 or #2225 and then join us for the daily drawing in the expo hall. You must be present to win. Good luck!

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Lunch Coupons You can easily get a quick bite to eat right in the expo hall. NFMT is helping with lunch expenses by providing a complimentary \$8 off coupon, which can be found in your tote bag. The coupon is only redeemable at the food stations inside the expo hall.

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Social Media Use the hashtag to stay connected at NFMT and beyond. We love seeing pictures, posts, feedback and aha moments from you!



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Networking Opportunities

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Tuesday

Networking Party

4:00 – 5:00 P.M. –
Pratt Street Lobby

Come party with us! Meet us in the Pratt Street Lobby for light food options, drinks and discussion. All attendees and exhibitors are welcome!

Wednesday

How to Find, Engage and Benefit from a Mentor/Mentee Relationship

8:00 – 8:50 A.M. – Room 316

This interactive networking event offers insight into the best way to implement a mentoring program, highlight the importance of mentoring to your career, and demonstrate how to match mentor and mentee. You'll walk away with valuable information that you can apply throughout your career!

Women in Facilities Management 2016 Roundtable Discussion and Reception

4:10 – 6:30 P.M. – Room 316

You won't want to miss the eighth annual panel discussion, which features industry leaders and insightful information about work/life balance, career advancement, mentoring, credentials and more. This session relies heavily on participation from the audience – we encourage your input, questions, and discussion! Join us after the panel discussion for a reception on the terrace across from room 316. Light appetizers and drinks will be served. See you there!

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Solutions Exchange

5:15 – 6:30 P.M. – Pratt Street Lobby

You'll find yourself engaged in dynamic discussions regarding the critical topics of facilities management in this unique networking and learning opportunity. Sitting among your peers, you will be able to join in an exchange of ideas facilitated by industry experts. Please see pages 10-11 for more information.

Young Professional Happy Hour

6:30 – 8:30 P.M. – Pratt Street Ale House
(directly across the street from the
Convention Center)

After a full day of conference sessions, we'll move the fun across the street to the Pratt Street Ale House, located directly across from the Convention Center. This is a great time to network with your peers and exchange ideas while enjoying complimentary drinks and appetizers. Advanced registration is required.

Sponsored by:



Thursday

How the Federal Government Is Approaching Facilities Management in the 21 Century

9:00 – 9:50 A.M. – Room 337

The demands of federal government facilities are often very different than other industry sectors. Join this discussion to learn about the trends and key topics for federal facilities managers and hear from a panel of experts about how the past decade will shape future strategic priorities for federal buildings and their operators. Continental breakfast is available during this session.

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All Three Days

Lunch with an Editor

Join our award-winning editorial staff for lunch each day in the expo hall. Look for the designated lunch table at noon, located near the NFMT booth #805. Enjoy lively discussion and idea exchanges – you may inspire the next cover story for *Building Operating Management* or *Facility Maintenance Decisions*!



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At Sodexo, our on-site services enhance the quality of life for clients, students, faculty, patients and residents.

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Sodexo is proud to sponsor the Women in Facilities Management Roundtable and Reception on March 23rd from 4:10 p.m. to 6:30 p.m.

Visit us at booth #2565 or search our jobs at <http://bit.ly/NFMT2016>

Sodexo is an EEO/AA/Minority/Female/Disability/Veteran employer.

Solutions Exchange

Join us Wednesday afternoon as industry experts help facilitate discussions about top facilities management trends and issues. Attendees will be able to participate in up to three, 20-minute conversations. See the full list below:

Wednesday, March 23

5:15 – 6:30 pm

PRATT STREET LOBBY

Choose up to THREE topics from the list below:



Sustainable Spray Polyurethane Foam (SPF) Roofing and Adhesive Solutions

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



Best Practices For Contractor Prequalification

There is an increasing interest and sophistication in contractor prequalification and management. This discussion will cover the top 10 best practices for successful contractor prequalification.



How Predictive Maintenance Can Save Time and Money

Attend this discussion to learn how predictive maintenance can save your organization time and money.



How to Audit Cleaning Objectively

Auditing cleaning services at your location can be a challenge because cleaning is subjective. Two people can audit a restroom, with one giving it a passing grade and the other a low grade. Here we'll discuss how to get on the same page with your cleaning service when it comes to cleaning audits.



Classroom HVAC Renovation – Bringing Modern Technology to Old School Buildings

Many older primary and secondary school buildings have heating-only systems with antiquated control methods. This session will be a discussion of current and future technologies for increasing efficiency, adding cooling, improving IEQ and providing a better learning environment.



Benefits of Going Mobile with your CMMS

Has your facility considered implementing a mobile maintenance program but needs help getting started? This discussion will include keys to successfully implementing mobile maintenance, tips on choosing the right mobile devices for your facility, recommended strategies for overcoming common challenges and pitfalls and results that can be achieved.



Monitoring Based Commissioning: The Future of Energy and Equipment Optimization

Discuss the use of Monitoring Based Commissioning in your organization: What is your organization's approach on commissioning for energy optimization? What do you think of when you hear the term Monitoring Based Commissioning? Let's discuss how MBCx could help with current energy and operational challenges that you face!



Optimizing your EAM/CMMS

A roundtable discussion regarding best practices in implementing and using your maintenance software. We will discuss using the Asset Register, MRO Inventory, human resources, work planning and scheduling as well as preventive maintenance and more.



5 Ways to Reduce the Cost of Fire Protection System Services

In today's economy it's more important than ever to discover effective ways to save on a facility's operational costs. In 20 minutes you'll learn 5 ways to reduce the cost of fire protection system services that adhere to code requirements. This interactive session will have a Q&A after each of the 5 main points.



Protection of Sprinkler and Standpipe Systems

Are you protecting your sprinkler and standpipe systems? Join us for a discussion on the protection of sprinkler and standpipe systems from a code perspective. The experts will also be able to discuss the reasons of the code requirements and risk considerations.



LED Lighting Retrofit Options

In today's world of energy efficiency and cost reduction, LED Lighting provides a great and simple solution. While LED technology has now become accepted by facility managers as reliable and a best practice for lighting, understanding the technology, how to apply it their facility and what programs are available to fund the project, are not so certain. Join us as we discuss several key considerations when making your LED Lighting decisions.



Pavement Maintenance Technology – Safety, Structure & Aesthetics

Creating a strategic plan for parking lots is critical to reducing liability, maintaining brand image and extending asset life. Learn about new and improved technology that is environmentally friendly, cost effective and validated for quality assurance through a year-long study at the University of Maryland by Charles Schwartz, professor and chair of the Department of Civil and Environmental Engineering.



Increasing Sustainability Efforts and Saving Money with your Vehicle Portfolio

Discuss how diversifying your fleet can lower cost of ownership, decrease your environmental footprint, as well as increase overall sustainability.



Solar Energy Financing Solutions + Savings

As long as your company or agency is in business, you will be paying an electricity bill. Take control of your energy future and learn how solar financing offerings can help reinvest capital into your core business, while offsetting your current utility spend with cheaper, greener energy.



Thinking Beyond the Commodity

Distributed Impact enables organizations to exercise greater energy independence and control by integrating traditional energy and renewable resources with demand-side management such as energy-efficiency, storage, or onsite generation via solar panels, fuel cells, or combined heat and power (CHP) technologies.

QuickFire Sessions- Booth 2055

Your learning experience can continue on the expo hall floor this year as we offer QuickFire sessions. These short 20 minute presentations will help to highlight the new products and technology that are showcased on the expo hall floor.

Tuesday

1:00 pm



Leveraging Smart Glasses in Field Service Today

How are meaningful enterprise deployments of smart glasses changing the dynamic of field service? With the evolving technological landscape in field service today, smart glasses are disrupting age old workflows by providing the right information, to the right people, at the right time. We will review specific use cases and metrics by showcasing the largest field service smart glass roll out to date. Learn how the right hardware device combined with the right software solution can decrease downtime and drive revenue for your field management organization.

2:00 pm



The Correct Application of UV-C for HVAC Systems

High output germicidal UV-C solutions are economical and environmentally friendly solutions for eliminating microbial growth in HVAC systems. In this session, you'll learn how UV-C solutions have: proven to lower HVAC energy consumption in retrofit applications, improve Indoor Air Quality (IAQ), reduce HVAC maintenance costs, optimize HVAC performance and reduce and eliminate the HVAC system as a source of harmful mold, bacteria and virus. Applications include; hospitals, laboratories, schools, government facilities, commercial offices, residential and food production and storage facilities.

3:00 pm



TLEDs for facilities: Industry insight and updates on the ever-changing world of LED T8 lamps

In the past 5 years, the fluorescent lamp industry has seen rapid, unprecedented change in the LED T8 replacement lamp market. Because of this there is still a great deal of uncertainty in the marketplace around the performance, safety, and practicality of these LED T8 lamps. Join SYLVANIA sales engineer Bill O'Connell as he discusses the current state of the LED T8 market, recent product improvements, and what the future holds for this dynamic technology.

1:30 pm



Evaluation of Steam Cleaning in AHU Coil Sanitization and Energy Conservation

Research on heating ventilation and air conditioning (HVAC) systems has indicated that microbial contamination is an immediate problem when it concerns the indoor environment and human health. A study has been performed to determine the effectiveness of steam cleaning latent clogged debris from on or within evaporator coils of an HVAC that is restricting airflow, as well as causing poor air quality.

2:30 pm



Understand Code Requirements for Protection of Sprinkler Systems

The protection of the sprinkler system is very important, so important codes require the protection. Attend this session to learn why protecting the sprinkler system is important. In addition we will give explanation and reasoning behind the code requirements and the potential risk, for both property and occupant safety, if sprinkler systems are not protected.

Wednesday

11:30 am



How to Save Money By Increasing the Sustainability of Your Steam System

When talking to facilities managers and owners, sustainability goals are one of the topics that is high on their list of priorities. This session will discuss how a properly designed, installed and maintained steam system can help your facility save energy, reduce emissions, monitor equipment operation and validate system performance.

12:00 pm



Understand Code Requirements for Protection of Sprinkler Systems

The protection of the sprinkler system is very important, so important codes require the protection. Attend this session to learn why protecting the sprinkler system is important. In addition we will give explanation and reasoning behind the code requirements and the potential risk, for both property and occupant safety, if sprinkler systems are not protected.

12:30 pm

servicechannel

Why every FM should care about Predictive Analysis

In today's busy marketplace, businesses need to capture big data to convert it into predictive and custom analytics for use in smart business decision making, CapEx budgeting, and overall market competitiveness. FM's need to understand that there are tools available to help review operational, tactical, and strategic data and using this data will lead to more effective decision-making.

1:00 pm



Tame the DC Beast

12 Minutes of power saving considerations to tame the power beast in your data center. From cabinet selection to switching platforms, there are several decisions that allow for the same functionality with significantly lower power and less stranded power than seen in "typical" data center designs. Realizing that there is no one size fits all for any data center, there are certainly some supporting decisions to make supporting information in some cases cut in half. When's the last time someone said, here's less, do more? In 12 minutes you will learn now to make that happen and where to find supporting information.

1:30 pm



Maintenance Management Software and the Internet of Things

Moving forward with mobility and Integration of real-time data to more effectively manage your facilities. Join us as we discuss the past, present and future of Facility Maintenance. We will demonstrate how SOMAX uses the Internet of Things to capture real-time actionable information from your facilities and fully integrates that information into your Maintenance Management Software.

2:00 pm



The 3 Easiest Areas on a Roof to Provide Fall Protection According to OSHA

Have you ever wondered where to start when it comes to protecting employees or maintenance contractors who work at heights? Are you confused by OSHA's regulations? Come learn how to start making your facility OSHA compliant by identifying the 3 easiest areas according to OSHA.

Thursday

11:30 am



Improving Facility Maintenance Operations with Cloud Computing

This is an introduction to Infor's CloudSuite Facilities Management, configured specifically for facilities management professionals. The solution includes 14 separate user roles with workflow and a contractor portal. View facility details with integrated CAD and GIS details. Delight your tenants with flexible call center features, a tenant request portal, and a smartphone rapid request app.

12:00 pm



Commercial Solar PACE

Join us in this QuickFire Session as we discuss how to go Solar with \$0 money down with a great and new financing tool: PACE (Property Assessed Clean Energy). We'll show you how PACE projects are Cash flow positive from Day 1, treated as an operational expense and are off-balance sheet. PACE works for Commercial and Industrial Buildings and a perfect solution for Non-Profits as well. We at Direct Energy Solar are excited to have the opportunity to speak with you and help you get Solar on your buildings!

Sessions At-A-Glance

TUESDAY, MARCH 22

8:00 A.M. – 8:50 A.M.

Room	Course	Session Title
316	TG.16	May the FM Force Be with You: What Star Wars Can Teach You About Managing Buildings

9:00 A.M. – 9:50 A.M.

Room	Course	Session Title
318	T1.18	A Guide to Inspecting and Maintaining Various Roofing Systems
321	T1.21	Achieving Excellence in Facilities Management: FMxcellence Honorees
324	T1.24	How LEDs and Advanced Lighting Controls Can Get Office Lighting to Net Zero Energy
330	T1.30	Keys to Easier Document Management
331	T1.31	Are You Prepared for a Disaster?
337	T1.37	Facility Management: Important Issues Facing FMs Today and in the Future
339	T1.39	5 Things Your Building Service Contractor Should be Doing but Probably Isn't
341	T1.41	Exterior Retrofits that Attract Tenants and Green Your Facility
343	T1.43	The Fourth Industrial Revolution
345	T1.45	Big Data to Benchmarking: Enjoy the Journey!
347	T1.47	The Internet of Things Is Coming, Is Your Facility Ready?
349	T1.49	OSHA's Enforcement and Significant Changes in 2015 NFPA 70E

10:00 A.M. – 10:50 A.M.

Room	Course	Session Title
318	T2.18	What's Your Grade? Calculating Your Maintenance Performance Index
321	T2.21	Intelligent Buildings Leveraging Data for Facility Optimization
324	T2.24	LEDs and Lighting Controls: Exciting Future & Some Cautions
327	T2.27	Energy Benchmarking: Right or Wrong?
330	T2.30	Continuous Insulation and Air Barriers for High Performance Framed Wall Assemblies
337	T2.37	Managing Your Assets in the Public Sector
339	T2.39	Quantifying Your Cleaning
341	T2.41	Ventilation Strategies for Indoor Air Quality Issues
343	T2.43	Sustainable Strategies & LEEDv4 for Manufacturing
345	T2.45	How to Use Big Data to Drive Effective Building Management
347	T2.47	The IoT of Energy Management
349	T2.49	Coordinating Fire Sprinkler and Fire Alarm Maintenance

11:00 A.M. – 11:50 A.M.

Room	Course	Session Title
318	T3.18	BIM2FM: Capturing Design & Construction Information for Building Operations and Facility Management
321	T3.21	What Is Commissioning and Why Is It Critical?
324	T3.24	Practical Lessons Learned from Implementing Intelligent Lighting Controls

327	T3.27	How to Develop a Business Case and Roadmap to Building Intelligence
330	T3.30	Organizing Contract Documents to Maximize Your Project's Outcome
331	T3.31	The Internet of Things: A Guide for Facility Managers
337	T3.37	The Whole Building Design Guide: Increased Value to FMs and Other Building Professionals
339	T3.39	Ideas for Creating Healthier Schools: Ways to Reduce Unintentional Cross Contamination
341	T3.41	Establishing a Corporate Sustainability Program
343	T3.43	Energy Reduction in Industrial Facilities
345	T3.45	Data-Driven Decision Making Using Enterprise GIS
347	T3.47	The Role IoT Will Play in the Facility of the Future
349	T3.49	Significant Changes to the 2015 IBC

NOON – 4:00 P.M. EXPO HALL OPEN

12:30 P.M. – 3:30 P.M.

QUICKFIRE SESSIONS IN THE EXPO HALL - BOOTH# 2055

3:45 P.M.

\$1,000 CASH DRAWING- BOOTH# 2707

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4:00 P.M. – 5:00 P.M.

NETWORKING PARTY- PRATT STREET LOBBY

Sponsored By:



WEDNESDAY, MARCH 23

8:00 A.M. – 8:50 A.M.

Room	Course	Session Title
316	WG.16	How to Find, Engage and Benefit from a Mentor/Mentee Relationship

9:00 A.M. – 9:50 A.M.

Room	Course	Session Title
318	W1.18	How to Get Past the Top 3 CMMS Hurdles
321	W1.21	Create a Culture of Success!
324	W1.24	LED Lighting, Capabilities Today and Tomorrow
327	W1.27	Energy Benchmarking: You Can't Manage What You Don't Measure
330	W1.30	Compliance Training of Hospital Employees for Infection Control
331	W1.31	Generating Renewable Energy: A Case Study from T. Rowe Price
337	W1.37	Build a High-Performance Team: Federal Building Personnel Training Act (FBPTA)

- 339 W1.39 The True Value of Clean
- 341 W1.41 Award-Winning Grounds Operations
- 343 W1.43 The Changing Demographics in the HVACR and Facility Management Workforce
- 345 W1.45 Data Center - Internal Facility, Cloud, Co-location, and Container Working Together
- 347 W1.47 Building-as-a-Service, What Happens When IoT Grows Up

10:00 A.M. – 10:50 A.M.

- | Room | Course | Session Title |
|------|--------|--|
| 318 | W2.18 | Big Labor Strikes Back |
| 321 | W2.21 | Building and Managing Your Reputation |
| 324 | W2.24 | What Does a Mature Asset Management Program Look Like? |
| 327 | W2.27 | Continuous Energy Management and its Driving Factors |
| 331 | W2.31 | The Importance of Managed System Infrastructure in Modern Facility Management Applications |
| 337 | W2.37 | Three Agencies Building High-Performance Teams: GSA, DOD, and VA - One Year Later |
| 339 | W2.39 | A Performance-Based Guide to Facilities Services |
| 341 | W2.41 | Specifying LED Lighting: The Challenges |
| 343 | W2.43 | Young Professional: Advancing Through Your FM Career |
| 345 | W2.45 | Generator Docking Stations: Backing Up the Back-Up Plan |
| 347 | W2.47 | Making the IoT Work for You Today |
| 349 | W2.49 | ADA Non-compliance - Can You Afford it? |

11:00 A.M. – 3:00 P.M. EXPO HALL OPEN

11:30 A.M. – 2:30 P.M.

QUICKFIRE SESSIONS IN THE EXPO HALL

2:45 P.M.

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Sponsored By:  

3:10 P.M. – 4:00 P.M.

- | Room | Course | Session Title |
|------|--------|--|
| 321 | W3.21 | Engagement Is 20th Century, Discretionary Effort Is 21st Century! |
| 324 | W3.24 | An Overview of Facilities Management Technology |
| 327 | W3.27 | Process/Machine Level Energy Measuring |
| 330 | W3.30 | Infection Control: Expecting the Unexpected |
| 331 | W3.31 | Emergency Management: How Facility Managers Could/Should Interact with Civil Authorities |
| 337 | W3.37 | Tools You Can Use To Build a High-Performance Team Part I: FEDSAT |
| 339 | W3.39 | The Current Best Practices in Parking Garage Lighting |
| 341 | W3.41 | Budgeting a Carpet Maintenance Plan |
| 343 | W3.43 | The Facilitathon, Closing the FM Skills Gap by Opening the Pipeline |
| 345 | W3.45 | Increasing Data Center Resilience While Lowering PUE |
| 347 | W3.47 | Maximizing Your Real Estate Portfolio With the Internet of Things |
| 349 | W3.49 | Make Evidence-Based Decisions About Water Safety and Legionella |

4:10 P.M. – 6:30 P.M.

- | Room | Course | Session Title |
|------|--------|---|
| 321 | W4.21 | Preparing an Agile Strategic Facility Plan |
| 324 | W4.24 | Wireless vs. Wired Lighting Controls or Both? |
| 337 | W4.37 | Tools You Can Use To Build a High-Performance Team Part II: Accelerate FM |
| 339 | W4.39 | Building the Best Team for a Sustainable Operation |
| 341 | W4.41 | Sustainable and Economical Ways of Keeping Up with the Ever-Changing Workspace Trends |
| 343 | W4.43 | Code Requirements for Facilities Repairing Natural Gas Vehicles |
| 345 | W4.45 | Integration of Battery Technology to Optimize CHP Economics |
| 347 | W4.47 | Streamlining the Lighting Controls Installation and Commissioning Process |
| 349 | W4.49 | CYA: Covering Your ADA |

4:10 P.M. – 6:30 P.M.

WOMEN IN FACILITIES MANAGEMENT 2016 ROUNDTABLE AND RECEPTION

ROOM 316

Sponsored By:



5:15 P.M. – 6:30 P.M.

SOLUTIONS EXCHANGE NETWORKING EVENT- PRATT STREET LOBBY

6:30 P.M. – 8:30 P.M.

YOUNG PROFESSIONAL HAPPY HOUR- PRATT STREET ALE HOUSE

Sponsored By:



THURSDAY, MARCH 24

8:00 A.M. – 8:50 A.M.

- | Room | Course | Session Title |
|------|--------|---|
| 316 | RG.16 | Surviving in the Cruel War of Cost Cutting: How to Expand Your Breadth of Influence |

9:00 A.M. – 9:50 A.M.

- | Room | Course | Session Title |
|------|--------|---|
| 318 | R1.18 | Eyes in the Sky: Drones in Facility Management |
| 321 | R1.21 | When FM Leaders Fail |
| 324 | R1.24 | Fire Alarm/Suppression Systems: Reducing Problems, Lowering Cost |
| 327 | R1.27 | Understanding the Benefits of Delivering Energy Usage Data to the End User |
| 330 | R1.30 | BIM Lifecycle Case Study |
| 337 | R1.37 | How the Federal Government Is Approaching Facilities Management in the 21 Century |
| 339 | R1.39 | Capital Planning 101 |

341	R1.41	Reflective Roof Coatings: Cool Roof Stories
343	R1.43	Tax Incentives for Facility Improvements
345	R1.45	Proactive Project Management: Managing Beyond the Obvious
347	R1.47	Door Hardware: Service & Maintenance
349	R1.49	Protecting Your Facility from Power Failure

10:00 A.M. – 10:50 A.M.

Room	Course	Session Title
318	R2.18	Help me...I have fallen into FM and cannot get up!!
321	R2.21	Lean Leadership in Real Estate and Facilities
324	R2.24	Maintenance Operations at General Motors
327	R2.27	Understanding Your Electric Bill to Lower Operating Costs
337	R2.37	Leveraging Smart Building Technology to Drive Sustainability in Federal Buildings
339	R2.39	Implementing BIM for Owners
341	R2.41	Effective Business Continuity Planning for the Facility Professional
345	R2.45	Capital Planning and Project Management: Moving Beyond Spreadsheets
347	R2.47	Transforming the Facilities and Infrastructure Industries into the Information Age
349	R2.49	The 17 Mistakes in Emergency Plans and How to Correct Them

11:00 A.M. – 2:00 P.M. EXPO HALL OPEN**11:30 A.M. – 1:30 P.M.****QUICKFIRE SESSIONS IN THE EXPO HALL****1:45 P.M.****\$1,000 CASH DRAWING- BOOTH# 2707**

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2:10 P.M. – 3:00 P.M.

Room	Course	Session Title
324	R3.24	Embarking On the Journey to Reliability: Steps for Success
327	R3.27	ASHRAE and Building Commissioning: New Guidelines
337	R3.37	GHS: OSHA's Final Deadline - Last Call for Employer Compliance
339	R3.39	Advanced Retrofit Conservation Technologies
343	R3.43	Keys to Properly Maintaining Parking Garages
345	R3.45	7 Steps to a Risk-Free Project
349	R3.49	Speech Privacy and Sound Masking in Modern Architecture

3:10 P.M. – 4:00 P.M.

Room	Course	Session Title
337	R4.37	5 Steps to Achieving Maintenance Operations Utopia
339	R4.39	Build It Right the First Time: Building Envelope Commissioning/Retro-Commissioning
341	R4.41	5 Key Metrics to Improve Your Facility's Operations
343	R4.43	Workplace Violence + Active Shooter: It's About You, Your Management and Your People
345	R4.45	Facility Management: Top 5 Environmental Compliance Issues for Engineers and Managers

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Tracks At-A-Glance

ENERGY SESSIONS

Room	Course	Session Title
324	T1.24	How LEDs and Advanced Lighting Controls Can Get Office Lighting to Net Zero Energy
327	T2.27	Energy Benchmarking: Right or Wrong?
330	T2.30	Continuous Insulation and Air Barriers for High Performance Framed Wall Assemblies
324	T3.24	Practical Lessons Learned from Implementing Intelligent Lighting Controls
327	T3.27	How to Develop a Business Case and Roadmap to Building Intelligence
343	T3.43	Energy Reduction in Industrial Facilities
327	W1.27	Energy Benchmarking: You Can't Manage What You Don't Measure
331	W1.31	Generating Renewable Energy: A Case Study from T. Rowe Price
327	W2.27	Continuous Energy Management and its Driving Factors
327	W3.27	Process/Machine Level Energy Measuring
327	R1.27	Understanding the Benefits of Delivering Energy Usage Data to the End User
327	R2.27	Understanding Your Electric Bill to Lower Operating Costs
327	R3.27	ASHRAE and Building Commissioning: New Guidelines

HEALTHCARE FACILITIES TODAY SESSIONS



Room	Course	Session Title
330	W1.30	Compliance Training of Hospital Employees for Infection Control
330	W2.30	Emerging Infectious Diseases in the Built Environment: An Inconvenient Truth
330	W3.30	Infection Control: Expecting the Unexpected
330	R1.30	BIM Lifecycle Case Study

INTERNET OF THINGS SESSIONS

Room	Course	Session Title
347	T1.47	The Internet of Things Is Coming, Is Your Facility Ready?
347	T2.47	The IoT of Energy Management
331	T3.31	The Internet of Things: A Guide for Facility Managers
347	T3.47	The Role IoT Will Play in the Facility of the Future
347	W1.47	Building-as-a-Service, What Happens When BioT Grows Up
347	W2.47	New Technologies Enabling the Enterprise Internet of Things
347	W3.47	Maximizing Your Real Estate Portfolio With the Internet of Things
347	W4.47	Streamlining the Lighting Controls Installation and Commissioning Process

LEADERSHIP AND CAREER ADVANCEMENT

Room	Course	Session Title
	PC2	Facility Risk Assessment Workshop
316	TG.16	May the FM Force Be with You: What Star Wars Can Teach You About Managing Buildings
321	T1.21	Achieving Excellence in Facilities Management: FMxcellence Honorees
345	T1.45	Big Data to Benchmarking: Enjoy the Journey!
316	WG.16	How to Find, Engage and Benefit from a Mentor/Mentee Relationship
321	W1.21	Create a Culture of Success!
321	W2.21	Building and Managing Your Reputation
343	W2.43	Young Professional: Advancing Through Your FM Career
321	W3.21	Engagement Is 20th Century, Discretionary Effort Is 21st Century!
316	W4.16	Women in Facilities Management 2016 Roundtable Discussion and Reception
321	W4.21	Preparing an Agile Strategic Facility Plan
321	R1.21	When FM Leaders Fail
339	R1.39	Capital Planning 101
345	R1.45	Proactive Project Management: Managing Beyond the Obvious
318	R2.18	Help me...I have fallen into FM and cannot get up!!
321	R2.21	Lean Leadership in Real Estate and Facilities

MAINTENANCE AND OPERATIONS SESSIONS

Room	Course	Session Title
318	T1.18	A Guide to Inspecting and Maintaining Various Roofing Systems
339	T1.39	5 Things Your Building Service Contractor Should be Doing but Probably Isn't
343	T1.43	The Fourth Industrial Revolution
318	T2.18	What's Your Grade? Calculating Your Maintenance Performance Index
318	T3.18	BIM2FM: Capturing Design & Construction Information for Building Operations and Facility Management
321	T3.21	What Is Commissioning and Why Is It Critical?
343	T3.43	Energy Reduction in Industrial Facilities
318	W1.18	How to Get Past the Top 3 CMMS Hurdles
341	W1.41	Award-Winning Grounds Operations
343	W1.43	The Changing Demographics in the HVACR and Facility Management Workforce
318	W2.18	Big Labor Strikes Back
345	W2.45	Generator Docking Stations: Backing Up the Back-Up Plan
343	W3.43	The Facilitathon, Closing the FM Skills Gap by Opening the Pipeline
343	W4.43	Code Requirements for Facilities Repairing Natural Gas Vehicles
316	RG.16	Surviving in the Cruel War of Cost Cutting: How to Expand Your Breadth of Influence
318	R1.18	Eyes in the Sky: Drones in Facility Management
324	R1.24	Fire Alarm/Suppression Systems: Reducing Problems, Lowering Cost

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343	R1.43	Tax Incentives for Facility Improvements
345	R1.45	Proactive Project Management: Managing Beyond the Obvious
324	R2.24	Maintenance Operations at General Motors
343	R2.43	Toward Lean Maintenance
324	R3.24	Embarking On the Journey to Reliability: Steps for Success
343	R3.43	Keys to Properly Maintaining Parking Garages
345	R3.45	7 Steps to a Risk-Free Project
337	R4.37	5 Steps to Achieving Maintenance Operations Utopia
345	R4.45	Facility Management: Top 5 Environmental Compliance Issues for Engineers and Managers

PUBLIC SECTOR TRENDS SESSIONS

Room	Course	Session Title
337	T1.37	Facility Management: Important Issues Facing FMs Today and in the Future
337	T2.37	Managing Your Assets in the Public Sector
337	T3.37	The Whole Building Design Guide: Increased Value to FMs and Other Building Professionals
337	W1.37	Build a High-Performance Team: Federal Building Personnel Training Act (FBPTA)
337	W2.37	Three Agencies Building High-Performance Teams: GSA, DOD,
337	W3.37	Tools You Can Use To Build a High-Performance Team Part I: FEDSAT
337	W4.37	Tools You Can Use To Build a High-Performance Team Part II: Accelerate FM
337	R1.37	How the Federal Government Is Approaching Facilities Management in the 21 Century
337	R2.37	Leveraging Smart Building Technology to Drive Sustainability in Federal Buildings
337	R3.37	GHS: OSHA's Final Deadline - Last Call for Employer Compliance

SAFETY AND SECURITY SESSIONS

Room	Course	Session Title
331	T1.31	Are You Prepared for a Disaster?
349	T1.49	OSHA's Enforcement and Significant Changes in 2015 NFPA 70E
349	T2.49	Coordinating Fire Sprinkler and Fire Alarm Maintenance
349	T3.49	Significant Changes to the 2015 IBC
345	W2.45	Generator Docking Stations: Backing Up the Back-Up Plan
349	W2.49	ADA Non-compliance - Can You Afford it?
330	W3.30	Infection Control: Expecting the Unexpected
331	W3.31	Emergency Management: How Facility Managers Could/Should Interact with Civil Authorities
349	W3.49	Make Evidence-Based Decisions About Water Safety and Legionella
349	W4.49	CYA: Covering Your ADA
349	R1.49	Protecting Your Facility from Power Failure
341	R2.41	Effective Business Continuity Planning for the Facility Professional
349	R2.49	The 17 Mistakes in Emergency Plans and How to Correct Them
349	R3.49	Speech Privacy and Sound Masking in Modern Architecture
343	R4.43	Workplace Violence + Active Shooter: It's About You, Your Management and Your People

SUSTAINABILITY SESSIONS

Room	Course	Session Title
341	T1.41	Exterior Retrofits that Attract Tenants and Green Your Facility
341	T2.41	Ventilation Strategies for Indoor Air Quality Issues
330	T2.30	Continuous Insulation and Air Barriers for High Performance Framed Wall Assemblies
339	T2.39	Quantifying Your Cleaning
343	T2.43	Sustainable Strategies & LEEDv4 for Manufacturing
339	T3.39	Ideas for Creating Healthier Schools: Ways to Reduce Unintentional Cross Contamination
341	T3.41	Establishing a Corporate Sustainability Program
339	W1.39	The True Value of Clean
339	W2.39	A Performance-Based Guide to Facilities Services
341	W2.41	Specifying LED Lighting: The Challenges
339	W3.39	The Current Best Practices in Parking Garage Lighting
341	W3.41	Budgeting a Carpet Maintenance Plan
341	W4.41	Sustainable and Economical Ways of Keeping Up with the Ever-Changing Workspace Trends
339	W4.39	Building the Best Team for a Sustainable Operation
341	R1.41	Reflective Roof Coatings: Cool Roof Stories
339	R3.39	Advanced Retrofit Conservation Technologies
339	R4.39	Build It Right the First Time: Building Envelope Commissioning/ Retro-Commissioning

TECHNOLOGY SESSIONS

Room	Course	Session Title
224	T1.24	How LEDs and Advanced Lighting Controls Can Get Office Lighting to Net Zero Energy
330	T1.30	Keys to Easier Document Management
345	T1.45	Big Data to Benchmarking: Enjoy the Journey!
321	T2.21	Intelligent Buildings Leveraging Data for Facility Optimization
324	T2.24	LEDs and Lighting Controls: Exciting Future & Some Cautions
345	T2.45	How to Use Big Data to Drive Effective Building Management
318	T3.18	BIM2FM: Capturing Design & Construction Information for Building Operations and Facility Management
330	T3.30	Organizing Contract Documents to Maximize Your Project's Outcome
345	T3.45	Data-Driven Decision Making Using Enterprise GIS
324	W1.24	LED Lighting, Capabilities Today and Tomorrow
345	W1.45	Data Center - Internal Facility, Cloud, Co-location, and Container Working Together
324	W2.24	What Does a Mature Asset Management Program Look Like?
331	W2.31	The Importance of Managed System Infrastructure in Modern Facility Management Applications
324	W3.24	An Overview of Facilities Management Technology
345	W3.45	Increasing Data Center Resilience While Lowering PUE
324	W4.24	Wireless vs. Wired Lighting Controls or Both?
345	W4.45	Integration of Battery Technology to Optimize CHP Economics
347	R1.47	Door Hardware: Service & Maintenance
339	R2.39	Implementing BIM for Owners
345	R2.45	Capital Planning and Project Management: Moving Beyond Spreadsheets
347	R2.47	Transforming the Facilities and Infrastructure Industries into the Information Age
341	R4.41	5 Key Metrics to Improve Your Facility's Operations

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NFMT Booth 2231

General Session: Tuesday

8:00-8:50 am

Leadership and Career Advancement
TG.16 • Room: 316

May the FM Force Be with You: What Star Wars Can Teach You About Managing Buildings

Presenter(s):



*Robin Camarote,
Founder and CEO,
Craft and Atlas LLC*



*Anand Sankey,
Director of Engineering
and Maintenance Services,
Western Michigan
University*



*Bill Warren
Manager of Training and
Development Facilities
Engineering and Maintenance
University of Pittsburgh
Medical Center*



*Moderated by:
Dave Lubach,
Associate Editor,
Facility Maintenance
Decisions Magazine*

Is this the session you're looking for? As Yoda would say, "Session it is!" When put in the context of facilities management, the Star Wars movies have a lot to offer in terms of outlining best practices in leadership, management, teamwork and technology. Sheathe your light saber and join our panelists as they dissect key Star Wars themes and apply them to facilities management. Sorry, Wookies not permitted.

LEARNING OBJECTIVES:

1. Clarify effective Stormtrooper management
2. Review the need for technology versus using the Force
3. Identify effective Death Star security strategies
4. Specify which leadership style is best for you: Darth Vader or Luke Skywalker

AUDIENCE: BEGINNER CEU: 0.1



Conference Sessions: Tuesday

9:00-9:50 am

Maintenance and Operations

T1.18 • Room: 318

A Guide to Inspecting and Maintaining Various Roofing Systems

Presenter(s): Stephen Kisielnicki, RWC, CCS, LEED AP, Associate/ Building Envelope Specialists/QC Manager, Gale Associates Inc.
A major responsibility of facility managers is ensuring that their building's roofs are water-tight, energy-efficient, and safe. This means investigating and evaluating roofs to define and resolve existing problems as well as to eliminate future problems, extending the serviceability of the roof. We will present a guide to investigating, evaluating, and repairing problems with many of the most frequently-used types of roofs. The approach outlined in this presentation includes researching the roof's history, performing a field inspection, testing methods, setting up a database or benchmark for roof management, and reviewing tracking forms and roof evaluation checklists.

LEARNING OBJECTIVES:

1. Discuss how to maintain roof water-tightness, energy-efficiency, and safety
2. Detail how to investigate and evaluate roofs to define and resolve existing problems as well as to eliminate future problems, thereby extending the serviceability of the roof
3. Provide a guide to investigating, evaluating, and repairing problems with many of the most frequently-used types of roofs

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

T1.21 • Room: 321

Achieving Excellence in Facilities Management: FMxcellence Honorees

Presenter(s): John DeBenedictis, Canadian Facilities Director, Enterprise Real Estate, TD Bank Group
Corey Pine, Assistant Facility Manager, Max Planck Florida Institute
Robert N. Robertson, Associate Superintendent Facility & School Services, Klein Independent School District
Bob Wilkinson, Director, Maintenance and Operations, Frederick County Public Schools
Moderator: Edward Sullivan, Editor, Building Operating Management Magazine

Facilities management is not always an easy job. In addition to keeping occupants safe and happy and managing the largest assets in the organizations portfolio, many facilities managers today also have to find ways to add significant value to their organization by helping to achieve broader goals. We know that can be a daunting task! Hear from our panel of 2016 FMxcellence honorees on how they were able to add value to their organizations (many times without significant financial investment). You'll be able to take inspiration back to your team after this presentation.

LEARNING OBJECTIVES:

1. Comprehend how to work as a team to accomplish goals
2. Review how to add significant value to your organization

AUDIENCE: BEGINNER CEU: 0.1

Energy, Technology

T1.24 • Room: 324

How LEDs and Advanced Lighting Controls Can Get Office Lighting to Net Zero Energy

Presenter(s): Peter Schwartz, Principal Investigator, Lawrence Berkeley National Laboratory

New LED luminaires with embedded controls can slash lighting loads by 60 percent while providing high-quality, human- and daylight-responsive lighting. LBNL researchers performed field measurements in technology demonstrations that show office lighting that achieves 100 lumens/Watt workplane efficacy while annually using only 1.0 kWh/ft² lighting energy vs. 4.1 kWh/ft² national baseline. In this session, a foundational basis will be provided to make smart lighting investment decisions and a guide to determining lighting system performance and metrics will be provided. Learn about the technology choices that are available and where to cost-effectively deploy new advanced lighting control systems.

LEARNING OBJECTIVES:

1. Identify technology choices, relative performance differences and potential pitfalls related to LEDs
2. Provide a foundational basis to make smart lighting investment decisions
3. Understand how to determine lighting system performance and what metrics are required
4. Learn where to cost-effectively deploy new advanced lighting control systems

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

T1.30 • Room: 330

Keys to Easier Document Management

Presenter(s): Paul Head, II, Senior Manager, Ernst & Young Construction & Real Estate Advisory Services

The world is more connected than ever. Big data is all over the headlines, but what about document management? Document management remains the workhorse in facilities management to help us maintain correct drawings and documents. Document management adds structure (metadata) to unstructured content such as pdfs, scanned files, word processing documents and spreadsheets. It provides us with quick access to the most appropriate and current files. While this technology has become more accessible with industry platforms such as Documentum, OpenText and FileNet, other access options are making this process more mainstream such as SharePoint and Box. This session provides critical insights about configuring a framework to implement or improve a facilities specific document management system.

LEARNING OBJECTIVES:

1. Understand the requirements of alignment
2. Learn the standards development
3. List the preparation, execution, and repetition
4. Review change management

AUDIENCE: BEGINNER CEU: 0.1

Tuesday

Safety and Security

T1.31 • Room: 331**Are You Prepared for a Disaster?**

Presenter(s): Art Dickerson, Senior Vice President, Paul Davis National Steve Korasidas, Vice President, Paul Davis National

This presentation will use real life stories and events to demonstrate how facilities teams dealt with losses due to fire, water, flood, or other catastrophes. We will also discuss techniques that can be used in preparing for emergencies as well as how to respond and stick to a plan to make a quick recovery possible.

LEARNING OBJECTIVES:

1. Clarify what kinds of events can lead to physical damage to property and loss of use
2. Review a case study that shows how having an emergency disaster plan in place before a catastrophe occurs can aid in the recovery process
3. Describe basic techniques to get a plan in place, educate your facilities team and become ready for anything
4. Recognize how to become more prepared in responding to emergencies and become comfortable with the process

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends

T1.37 • Room: 337**Facility Management: Important Issues Facing FMs Today and in the Future**

Presenter(s): Bill Brodt, Experimental Facilities Engineer, NASA Glenn Hunt, Manager, Sales & Marketing / PM, Peripheral Systems, Inc.

Tom Mitchell, Jr., Senior Vice President & COO, FM3IS Associates, L.L.C.

Darrell X. Rounds, FMA, Manager - Maintenance & Industrial Cleaning, General Motors Company

Facilities are ever more complex: O&M costs are increasing, the aging building inventory presents new challenges, advances in sustainability technology must be factored into the equation, identifying equipment that is critical to the facility's mission is essential to maintain continuity of operations, and understanding and responding to external influences can be crucial to success. These factors, among others, will require facility managers to be progressive thinkers and procure the right tools necessary to operate and maintain facilities at the level of quality demanded of high-performance buildings. This panel will look at key facilities management and O&M issues that will help attendees grasp their importance to the field today and on into the future.

LEARNING OBJECTIVES:

1. Discuss how to employ facility life cycle methodologies that maximize facility use and value across the real property portfolio
2. Learn the value of Populating Omniclass Products Table 23 with Energy Star and other sustainability factors
3. Define critical equipment and the method of calculation to determine whether an asset is critical
4. Understand the benefits of developing comprehensive facility operation and maintenance documentation

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T1.39 • Room: 339**5 Things Your Building Service Contractor Should be Doing but Probably Isn't**

Presenter(s): Bill Warnecki, CBSE, President, Cavalier Services, Inc.

Building service contractors (BSCs) are a crucial part of your business, but do you know how to get the most value from that relationship? In this session, you will discover the top five things that leading BSCs are doing for their clients to make the most impact. You will gain insights that you can't get anywhere else by reviewing start-up plans, staffing plans, pay rates, OSHA 300 log, worker's compensation rates, subcontractor database maintenance and more. From learning how to conduct a quarterly review to addressing programs and tools for energy and resource conversation, you will gain a better understanding of the many ways your building service contractor can help you achieve your goals.

LEARNING OBJECTIVES:

1. Understand how important BSCs are to your business
2. Learn the five things that BSCs should do to make the most impact
3. Review necessary quarterly reviews with BSCs

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

T1.41 • Room: 341**Exterior Retrofits that Attract Tenants and Green Your Facility**

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

With increasing attention on sustainable practices, facilities want to lessen their environmental footprint while concurrently increasing leasing rates and marketability. They often want to include green spaces but are restricted by available land. A solution is to look to nontraditional sources such as rooftops and parking areas and retrofit them to reduce stormwater and heat island effects all the while improving street presence. The session will look at several award-winning retrofit projects including a rooftop retrofit at a Maryland hospital, and an Auto Court in an urban city.

LEARNING OBJECTIVES:

1. Learn about various green roof design and construction technologies and their environmental and marketing benefits
2. See examples of how to artistically provide stormwater reduction creating a site amenity
3. Learn how to increase a building's street presence and appeal
4. Hear other benefits derived from a variety of site improvements including marketing value for the facility and the wellness benefits of outdoor green spaces
5. Identify the environmental benefits such as heat island and stormwater reduction and how LEED points (Leadership in Energy and Environmental Design points from the U.S. Green Building Council) could be obtained

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

T1.43 • Room: 343**The Fourth Industrial Revolution**

Presenter(s): Alan Rose, Workspace Technology Specialist, CADM
Space utilization has been at the forefront of workspace managers' thinking for a few years now, but how will this evolve over the next

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Tuesday

five? Working practices are changing as staff becomes more mobile and as companies look for more collaborative ways of working. There are large costs associated with providing individual desks — it's estimated that the U.S. spends around \$100 billion each year on empty desks. In this session, learn how technology will change over the next five years and how it will affect the way workspace is measured. Mr. Rose will highlight the importance of how to best use workspace and how activities can be linked to utilization and engagement.

LEARNING OBJECTIVES:

1. Provide insight into technology changes over the next five years in relation to the way the workspace is measured
2. De-code common technical language into practical advice
3. Understand utilization and agile working for future workspace strategy
4. Highlight the importance of the best use of workspace and how one can link activities to utilization and engagement

AUDIENCE: BEGINNER CEU: 0.1

Leadership and Career Advancement, Technology

T1.45 • Room: 345

Big Data to Benchmarking: Enjoy the Journey!

Presenter(s): Teena Shouse, CFM, IFMA Fellow, President, FM Transitions

All FM professionals need assistance when it comes to telling their story, selling their budgets and conveying the true value they bring to the organization. Becoming a high-performance facility management organization requires consistent, accurate data; but what should you be gathering? What decisions do you need to make? What data do you need to make those important operational decisions? What data is already available? Do you know the proper level of data needed and why? What benchmarking resources are readily available? What KPIs are most important to capture, leading you to better data-driven decision making? How can you translate all of this data to your Balanced Scorecard? This session will answer these important operational questions. Bring your own questions about benchmarking and the importance of data-driven decision making.

LEARNING OBJECTIVES:

1. Better understand how to use data in decision making
2. Understand what questions to ask when choosing services/products
3. Review how to better communicate accomplishments and future opportunities using benchmark data
4. Comprehend how to select the right KPIs that make sense for your organization

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

T1.47 • Room: 347

The Internet of Things Is Coming. Is Your Facility Ready?

Presenter(s): Julien Stamatakis, Chief Technology Officer, Senseware

The Internet of Things (IoT) has the ability to transform facility management. Utilizing technology to improve reliability, efficiency, operational continuity, manage the increasing complexity of buildings, merge legacy systems with future expansions, maintain aging infrastructure, and improve reporting and compliance capabilities. To deliver on these promises facilities will need to be prepared to handle the estimated 26 billion "smart things" which will be installed by 2020. Attendees will learn about IoT trends that impact facility management, the limitations of current technology

and how to overcome them, and how the IoT can yield financial benefits for an organization.

LEARNING OBJECTIVES:

1. Learn about the industry and business trends driving the adoption of the Internet of Things
2. Realize challenges and potential solutions IoT technology can offer
3. Gain insight into what it takes to implement an IoT solution in your facility
4. Understand how utilization of IoT data can yield financial benefits to the organization

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

T1.49 • Room: 349

OSHA's Enforcement and Significant Changes in 2015 NFPA 70E

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

This session will provide an overall understanding of the latest changes of the NFPA 70E and how they may affect your company's overall electrical safety program. Learn about significant changes such as approach boundaries, PPE requirements, host employer responsibilities, and more. During this session we will also go into detail on the latest training requirements for qualified employees as well as OSHA enforcement of these standards. Attendees will gain a better understanding of the relationship with OSHA and NFPA 70E as well as key items that need to be addressed for the next three year cycle of their electrical safety program.

LEARNING OBJECTIVES:

1. Understand key changes in the 2015 NFPA 70E
2. Interpret the relationship between OSHA and NFPA 70E
3. Assess their company for OSHA and NFPA 70E compliance in regards to electrical safety
4. Recognize what is required to train and qualify persons working on or near energized parts 50 volts or greater

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00-10:50 am

Maintenance and Operations

T2.18 • Room: 318

What's Your Grade? Calculating Your Maintenance Performance Index

Presenter(s): C. Paul Oberg, CEO, EPAC Software Technologies, Inc.

Maintenance performance measurements differ from organization to organization. What may be the most important measurement in one organization may not have the same priority in another. MPI enables each organization to prioritize their maintenance metrics consistent with their goals and objectives resulting in a composite grade. In other words, one number or letter grade as to how the maintenance organization is performing! Participants in this session will learn how to identify, define and calculate their own Maintenance Performance Index.

LEARNING OBJECTIVES:

1. Describe the Maintenance Performance Index (MPI)
2. Analyze the relationship between Key Performance Indicators (KPI) and MPI
3. List your MPI components
4. Be able to calculate your MPI

AUDIENCE: INTERMEDIATE CEU: 0.1

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Tuesday

Technology

T2.21 • Room: 321**Intelligent Buildings Leveraging Data for Facility Optimization**

Presenter(s): Casey Talon, Research Analyst, Navigant Research
Explore how software and services can change the way you manage your facilities. Learn about the market landscape for Building Energy Management Systems, the business case for investment, and benefits your organization can see from these intelligent building solutions.

LEARNING OBJECTIVES:

1. Learn what differentiates Building Energy Management Systems from traditional automation and controls
2. Define how software and analytics can improve facility operations
3. Discuss the current solutions available in the market
4. Understand who should buy Building Energy Management Systems

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

T2.24 • Room: 324**LEDs and Lighting Controls: Exciting Future & Some Cautions**

Presenter(s): John Curran, President, LED Transformations, LLC
The future of the lighting industry is full of promise, as LEDs become the dominant light source and lighting controls become commonplace. From new wiring approaches to smartphone controls, the combination of LEDs and lighting controls will bring exciting new features, previously unavailable. An age of “personal lighting” will forever change how lighting is used, allowing occupants to set personal preferences for their environment. Color and visual clues will allow the environment to communicate with building occupants. Dr. Curran will offer some cautions to those responsible for the residences, commercial, industrial and campus facilities where this wondrous future will unfold.

LEARNING OBJECTIVES:

1. Discuss how lighting controls will expand to include all lighting environments
2. Examine the implications to businesses as the ability of LEDs to provide almost unlimited color choices vastly expands the use of color to affect mood and health of building occupants
3. Explain what the new lighting paradigm of “personal lighting” controls will mean as controls and LEDs blend into one comprehensive offering
4. Determine how to support new lighting control architectures/methods, and what this implies to those responsible for facilities

AUDIENCE: BEGINNER CEU: 0.1

Energy

T2.27 • Room: 327**Energy Benchmarking: Right or Wrong?**

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

Utility benchmarking is a growing government mandate in many cities and states for buildings over 50,000 square feet and a useful tool to C&I building owners. You cannot control what you do not measure. Attend this session to get a better understanding of energy benchmarking, who is required to use energy benchmarking, and what tools can help benchmark. Finally, we will discuss net energy efficiency improvements for those states that require energy benchmarking for privately held buildings.

LEARNING OBJECTIVES:

1. Review the unit of measurement in utility benchmarking
2. Name a couple cities that require utility benchmarking
3. Learn what size buildings are required to report their energy use
4. Comprehend the fines if you do not report energy use

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy, Sustainability

T2.30 • Room: 330**Continuous Insulation and Air Barriers for High Performance Framed Wall Assemblies**

Presenter(s): Robert W. Dazel, AIA, CSI, LEED GA, Business Development Manager - Strategic Accounts, Dryvit Systems, Inc.
Recent building and energy code changes are substantially increasing requirements for continuous insulation (ci) and continuous air barrier integration into building envelope walls. This session will cover what these code criteria are, how they affect traditional framed wall assembly design and detailing, and how continuous insulation (ci) and continuous air barrier integration can be implemented into a successful, code compliant, cost effective and high performance building envelope for both new or renovation construction.

LEARNING OBJECTIVES:

1. Introduce new energy code and design standards for continuous insulation (ci)
2. Deconstruct “perceived” value of traditional cavity insulation methods
3. Outline the challenges in framed wall design and detailing associated with the integration of continuous insulation (ci) behind traditional veneer cladding
4. Understand the interrelationship between continuous insulation (ci) and improved energy efficiency

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends

T2.37 • Room: 337**Managing Your Assets in the Public Sector**

Presenter(s): James Balocki, Command Executive Officer and Director, Services and Installations, US Army Reserve, Fort Bragg Keith B. Cunningham, Assistant Director of Physical Infrastructure, United States Government Accountability Office (GAO) Lawrence A. Melton, CEO and President, The Building People Peter “Chip” Pierpont, Director, Building Operations and Technology, U.S. General Services Administration

With demands to reduce costs throughout the portfolio, the Federal Government is working across the enterprise to achieve large scale savings. Capital investments in technology over the last five years have increased expectations to impact costs, create a more agile workplace, and improve efficiency to all time highs. This panel will discuss the challenges public sector leaders are facing as they negotiate the crossroads of new technology, leveraging their existing asset management systems, and transforming their organizations into the workplace of the future that becomes the benchmark by which others are measured.

LEARNING OBJECTIVES:

1. Learn how Federal leaders are making decision on their assets
2. Understand what tools are working, and what investments leaders are planning for the future
3. Learn how asset performance is impacting the enterprise to make strategic investment decisions



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NFMT Booth 2370

Tuesday

4. Indicate how the Federal Government is establishing priorities and how industry can help them achieve their goals

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

T2.39 • Room: 339

Quantifying Your Cleaning

Presenter(s): Kevin M. Keeler, Consultant, Keeler Consulting

This session shows you the nuts and bolts of a staffing assessment. It is designed to provide you with the ability to measure and record your infrastructure, determine and apply appropriate standards, and properly apply productivity factors. This session will also show you the specifics of using this data to implement a program in order to improve the daily functions of your cleaning operations.

LEARNING OBJECTIVES:

1. Specify how to perform an effective space inventory
2. Justify when to apply and modify cleaning standards
3. Discuss rightsizing your cleaning operations
4. Identify how to implement your cleaning system

AUDIENCE: ADVANCED CEU: 0.1

Greening an Existing Building

T2.41 • Room: 341

Ventilation Strategies for Indoor Air Quality Issues

Presenter(s): Gerald Welshans, Consultant/Instructor, NSSC, Pennsylvania College of Technology

In this session, we will examine common pollutants that are encountered in a building and investigate the mechanisms that transport these pollutants. Once pollutant concentrations are categorized, it is easier to determine which ventilation strategy to use. We will compare strategies to mitigate pollutants, which can improve the indoor environment for the occupants.

LEARNING OBJECTIVES:

1. Categorize how pollutant concentrations will determine ventilation strategies
2. Identify how air is moved through a building
3. Describe control strategies for pollutants
4. Investigate ventilation opportunities and needs to improve indoor environmental quality

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

T2.43 • Room: 343

Sustainable Strategies & LEEDv4 for Manufacturing

Presenter(s): F. Joshua Millman, AIA, NCARB, LEED AP, CFM, Vice President, NuTec Design Associates, Inc.

Whether or not you pursue LEED or another green building certification, sustainable strategies are necessary to minimize life cycle costs while maximizing corporate stewardship. It just so happens that many of the sustainable strategies that make sense for a properly designed and constructed manufacturing facility also happen to earn LEED points. Through a dynamic case study, this presentation will look at how an industrial building with sustainable components can positively impact ROI while also earning substantial points toward LEED certification. LEED certification will also assure that sustainability goals are met and ROIs are realized in

the design and construction.

LEARNING OBJECTIVES:

1. Understand the decision-making process and success criteria required to enhance facility sustainability
2. Learn how sustainability can be addressed in all areas of a manufacturing building project
3. Gain insight into how a sound building program can earn credits toward LEED certification whether a project is seeking them or not
4. Convey to the C Suite how sustainable design practices can be applied to manufacturing buildings

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

T2.45 • Room: 345

How to Use Big Data to Drive Effective Building Management

Presenter(s): Neil Maldeis, Energy Solutions Engineering Leader, Trane Commercial Systems

Current technologies offer ways to assess and prioritize facilities improvement opportunities and allow users to validate energy project results. Learn the best big data sources and how to use that data to drive business outcomes. Hear about innovative energy management service offerings to help maximize energy and operational efficiency results to positively impact, business results and the bottom line. Big data-driven decision-making can help improve employee productivity by optimizing comfort, helping employees maximize bandwidth, and by providing third-party energy services support that identifies and resolves potential challenges.

LEARNING OBJECTIVES:

1. Learn how to analyze data into information to be used to make actionable decisions
2. Review how interval utility data information be used to make better building services decisions
3. Understand how cost-effective technology brings data sources together for analysis and prove/validate performance

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

T2.47 • Room: 347

The IoT of Energy Management

Presenter(s): Tom Kay, Vice President, EnTouch Controls

IoT is the buzz within the facilities industry — regardless of the business segment. In this session, learn what the IoT means to the facility professional. Discover where there are opportunities for efficiencies and savings with IoT and how IoT translates into energy management. A clearer definition of EMS will be discussed and facility professionals will discover what EMS can do for their facilities.

LEARNING OBJECTIVES:

1. Define EMS and IoT
2. Discuss what role IoT plays in facilities
3. Understand how IoT translates into energy management and the opportunities for benefits and savings

AUDIENCE: INTERMEDIATE CEU: 0.1

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Tuesday

Safety and Security

T2.49 • Room: 349**Coordinating Fire Sprinkler and Fire Alarm Maintenance***Presenter(s): Jason Webb, Director of ITM, National Fire Sprinkler Association*

For facilities with fire sprinklers and fire alarms, the responsibility for inspection, testing and maintenance (ITM) of these systems falls to the owner or facility manager. The fire codes and standards detailing those ITM requirements also mandate coordination of these functions when both systems are present. For the facility manager, trying to juggle these responsibilities can seem like a daunting task, but it doesn't have to be. This seminar takes a look at those coordination requirements, identifies roles and responsibilities, and shares some best-practice tips from around the country.

LEARNING OBJECTIVES:

1. Identify where the ITM requirements for fire sprinkler and fire alarm systems can be found
2. Explain the coordination needed to adequately inspect, test, and maintain fire sprinkler and fire alarm systems including the record-keeping requirements and service provider qualifications
3. Recognize the role and responsibilities of the owner/facility manager in fire sprinkler and fire alarm ITM
4. Develop a plan that helps ensure the operational readiness of fire sprinkler and fire alarm systems

AUDIENCE: BEGINNER CEU: 0.1

11:00-11:50 am

Maintenance and Operations, Technology

T3.18 • Room: 318**BIM2FM: Capturing Design & Construction Information for Building Operations and Facility Management***Presenter(s): Michael Tardif, Senior Partner, Building Life Cycle Information Group*

Architects, engineers, and contractors live in a model-centric (BIM) world. Building owners live in an information-centric world. Most building owners are not yet ready to manage live building information models, but many are ready to manage the rich data set of information that can be extracted from models. This session explains how building owners can bridge the BIM2FM gap by specifying an electronic building information deliverable in a format that they can actually use in their CAFM, CMMS, or IWMS software systems without laborious, time-consuming, and error-prone manual data re-entry.

LEARNING OBJECTIVES:

1. Understand the components of a facility information specification
2. Compare traditional contractual building information deliverables with the requirements of a facility information specification
3. Analyze building information needs and organize them into a structured format
4. Prepare a detailed facility information specification

AUDIENCE: ADVANCED CEU: 0.1

Maintenance and Operations

T3.21 • Room: 321**What Is Commissioning and Why Is It Critical?***Presenter(s): Steven Shapiro, P.E., Mission Critical Practice Lead, Morrison Hershfield*

This presentation will provide an understanding of the need for commissioning for existing, renovated, or newly constructed environments as well as the types of systems that should be included in the process. We will review how the process is conducted to ensure tangible results, how it should be reported and ultimately how to interpret and utilize the information presented to your advantage.

LEARNING OBJECTIVES:

1. Discuss an overview of commissioning and why you need it
2. Identify infrastructure systems and components that should be included in commissioning
3. Assess when commissioning needs to be performed and why
4. List key items to look for when a project is closed out

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

T3.24 • Room: 324**Practical Lessons Learned from Implementing Intelligent Lighting Controls***Presenter(s): Todd Boucher, Principal, Leading Edge Design Group*

Facility Managers today are trying to understand if there is added value in adding intelligent lighting control systems as part of their LED lighting upgrade projects. This presentation will review projects in several different industries to share lessons learned on how to maximize your investment in LED lighting through utilizing intelligent lighting controls.

LEARNING OBJECTIVES:

1. Understand applications for implementing intelligent lighting controls
2. Review strategies that companies in different verticals are using to leverage the power of intelligent lighting controls
3. Explain how intelligent lighting controls extend the lifecycle of your LED lighting system
4. Identify (with project examples) how companies are realizing additional energy savings obtained from properly designed and implemented intelligent control systems

AUDIENCE: BEGINNER CEU: 0.1

Energy

T3.27 • Room: 327**How to Develop a Business Case and Roadmap to Building Intelligence***Presenter(s): Kurt Karnatz, President, Environmental Systems Design Steve Brown, Energy & Automation Group Leader, Environmental Systems Design*

Technology is changing what is possible in the built environment and how we think about and use space, place, and time in the workplace. The future-focused leader already understands the importance of integrating and effectively deploying trends — such as mobility, smart building systems, big data, analysis, and visualization — to maintain a competitive advantage and enhance asset value. This presentation will focus on how these leaders can build a business case for building intelligence that achieves C-suite buy in with ROI, as well as how to create an implementation roadmap to scalable success.

LEARNING OBJECTIVES:

1. Gain a deeper understanding of what is possible and practical for

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Tuesday

your facility through building intelligence

2. Learn how to quantify the economic, environmental, experiential, and social impacts and outcomes of intelligent building solutions
3. Understand how to achieve C-suite buy-in by developing a business case with ROI to justify building intelligence initiatives
4. Develop a roadmap to creating an intelligent building - Identify the short-term and long-term steps to implementing your building intelligence initiatives

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

T3.30 • Room: 330

Organizing Contract Documents to Maximize Your Project's Outcome

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

Owners and Project Managers depend on their design consultants to develop high-quality contract documents (CDs) — specs, drawings, bid forms, unit pricing, and so forth. But how can you make sure the CDs do what you need — provide an affordable, effective project? This presentation focuses on how to minimize change orders and ensure you achieve your project goals. We will briefly cover the fundamentals of contract documents, with an eye toward maximizing the benefits for the owner, followed by an in-depth discussion of a series of real projects using successful strategies to minimize risk and maximize project outcome.

LEARNING OBJECTIVES:

1. Understand the goals and objectives for any set of contract documents
2. Identify the key components of any set of contract documents, the function of each component, and the various ways each component can be configured
3. Evaluate whether a contract document set meets the goals, objectives, and quality standards for the project
4. Analyze the different strategies for adjusting the organization and content of a set of contract documents to account for project specifics and to maximize the benefit to the owner

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

T3.31 • Room: 331

The Internet of Things: A Guide for Facility Managers

*Presenter(s): Lindsay Baker, President, Building Robotics
Joseph Feuling, Vice President of Sales and Solutions, CBRE/
Electronic Systems Inc.*

Andy Schonberger, Business Development Manager, Smart + Connected Real Estate, Cisco

Moderator: Edward Sullivan, Editor, Building Operating Management Magazine

A new generation of automation and information technology is now available to facilities. Known as the Internet of Things, these systems promise a range of benefits, notably reduced energy consumption and improved occupant comfort, by gathering and analyzing vast amounts of data available from buildings. But the new wave of IoT technology raises practical questions for facility managers. This session will provide facility managers a well-rounded analysis of key elements of IoT technology. The panelists

represent Building IoT leaders, including a major system integrator with experience with IoT projects, a tech industry giant, and a start-up company offering an IoT solution.

LEARNING OBJECTIVES:

1. Understand key elements of the Building Internet of Things
2. Review the ways that IoT data can be used to reduce energy costs and improve occupant comfort
3. Discuss how new IoT offerings work with existing building devices and systems
4. Learn what it takes to achieve a successful Building IoT application

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends

T3.37 • Room: 337

The Whole Building Design Guide: Increased Value to FM's and Other Building Professionals

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

For many years, the Whole Building Design Guide (WBDG) has been providing substantial, up-to-date information and resources to Facility Managers and other building professionals. Now its value to them has increased significantly with the major update of the website and the addition of case studies demonstrating how real projects are achieving high-performance by applying the WBDG Design Objectives. New and updated resources for facilities O&M and codes and standards will also be described.

LEARNING OBJECTIVES:

1. Learn about the faster, more focused search capability dynamic of the Federal Facilities Criteria library and expanded continuing education options
2. Create custom library with your favorite and most needed documents and resource pages
3. Explore new resources for facility managers and other building professionals
4. Analyze a high-performance building case study

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

T3.39 • Room: 339

Ideas for Creating Healthier Schools: Ways to Reduce Unintentional Cross Contamination

Presenter(s): Stephen P. Ashkin, President, The Ashkin Group, LLC

Each year, millions of school days are lost due to illness. While the causes of illness include many things that are outside of the school's control, many can be controlled or at least minimized within a school setting. For instance, there are numerous opportunities for the custodial staff to help reduce unintentional cross-contamination that can affect student and staff health. These actions along with a simple awareness about cross-contamination can help create healthier schools and universities, which in turn can help improve student performance and attendance, something that ultimately benefits us all.

LEARNING OBJECTIVES:

1. Understand the factors that lead to unintentional cross-contamination
2. Review cleaning products and technologies that can help reduce unintentional cross-contamination
3. Clarify proper cleaning techniques
4. Learn about good hand hygiene and ways maximum participation

AUDIENCE: BEGINNER CEU: 0.1

Tuesday

Sustainability

T3.41 • Room: 341**Establishing a Corporate Sustainability Program**

Presenter(s): Sam Huber, Facility Manager, Eurofins Lancaster Laboratories Inc.

Christina Leslie, Manager, Pharmaceutical Product Testing, Eurofins Lancaster Laboratories Inc.

Lancaster Laboratories was founded in 1961 and throughout the history of the company, conservation and environmental stewardship have been part of the culture. In 2009 the company formalized its sustainable approaches by forming a “Green Team.” This team was formed by a group of environmentally conscious employees who wanted to work together to reduce consumption, encourage recycling, promote conservation, and educate the workforce for the goals of improving efficiency, reducing costs, and minimizing the environmental impact of ELLI’s operations. This employee-driven effort implemented programs and educated the staff on conservation practices.

LEARNING OBJECTIVES:

1. Provide an overview of a grassroots effort
2. Discuss avenues for employee education
3. Outline best practices
4. Describe how to set goals based on data

AUDIENCE: BEGINNER CEU: 0.1

Energy, Maintenance and Operations

T3.43 • Room: 343**Energy Reduction in Industrial Facilities**

Presenter(s): Timothy A. Warren, President, JDB Engineering, Inc.

To many industrial companies, sustainability is synonymous with energy and water reduction. Most industrial users have already picked the small fruit, and the fruit at the top of the tree can be complex, expensive and elusive. But there is a reachable middle level when it comes to reducing energy use, and water use. This presentation will delve into the individual components of an industrial facility that tend to use up the lion’s share of utility costs, like motors, compressed air, pumps, HVAC, and steam, and offer recommended steps to take to reduce use and expenses.

LEARNING OBJECTIVES:

1. Gain insight into the impacts that industrial buildings and processes have on the environment
2. Learn major users of energy in water within industrial environments
3. Leave with strategies to reduce energy and water use and associated utility expenses

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

T3.45 • Room: 345**Data-Driven Decision Making Using Enterprise GIS**

Presenter(s): William Wingfield, Senior Planner, R&K Solutions, Inc.

Organizations are often challenged in using the vast array of available facilities data to gain a comprehensive understanding of portfolio performance. This presentation illustrates how an Enterprise Geographic Information System (GIS) may be used to consolidate, visualize and convert data to useful information, producing analytics and key performance indicators to drive decision making across the organization.

LEARNING OBJECTIVES:

1. Describe Enterprise Geographic Information Systems

2. Understand how Enterprise Geographic Information Systems may be used to consolidate and share information

3. Identify how facilities data can be transformed to useful information

4. State how facilities information may be used to guide decision making to improve operations and the bottom line

AUDIENCE: ADVANCED CEU: 0.1

Internet of Things

T3.47 • Room: 347**The Role IoT Will Play in the Facility of the Future**

Presenter(s): Tom Willie, CEO, Blue Pillar, Inc.

Advances in technology are redefining how facilities manage their energy assets. From the single site facility and its ability to connect to and gather energy use data from all equipment, to multi-site, geographically dispersed facility systems now managed centrally under an energy management software solution. Internet of Things (IoT) platforms now make it possible for facilities to become more data-driven, improving building resiliency and reducing energy costs. This session will explore the Facility of the Future and how IoT technology is redefining facilities management and allowing facility managers to take control of their energy assets and energy future.

LEARNING OBJECTIVES:

1. Explain how an Industrial Internet of Things technology platform allows facilities to connect to assets regardless of make, model or vintage
2. Review the information and data that becomes available--and how facilities benefit from the information garnered--from said assets
3. Once implemented, explore the components, technology and tools needed to migrate to a centralized facilities management approach
4. Describe how to get started on the path to modernizing your critical and complex facilities

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

T3.49 • Room: 349**Significant Changes to the 2015 IBC**

Presenter(s): Clay Aler, Principal, Koffel Associates

This session will present a summary of significant changes to the 2015 International Building Code with a focus on fire protection and life safety related changes as well changes for accessible design. The presentation is meant for architects and other design professionals who use the International Building Code. Also provided will be background as to the reason for the approved changes.

LEARNING OBJECTIVES:

1. Examine the significant changes to the 2015 IBC
2. Understand the reason for the changes in the 2015 IBC
3. Know where to look for changes in the 2015 IBC
4. Have basic knowledge and comfort level with implementing the discussed changes

AUDIENCE: INTERMEDIATE CEU: 0.1

Conference Sessions: Wednesday

8:00-8:50 am

Leadership and Career Advancement

WG.16 • Room: 316

How to Find, Engage and Benefit from a Mentor/Mentee Relationship

Presenter(s): Larry Morgan, CFM, SFP, Head of Operational Excellence and Sustainability Initiatives for North and Latin America, SAP Global Facilities Management, Americas
New to NFMT in 2016! Join us for an interactive networking event which will highlight how important mentoring is, the best way to implement a mentoring program, and how to match mentee and mentors. This information is beneficial to any stage of your career and is worth getting up early!

AUDIENCE: ALL LEVELS CEU: 0.1

9:00-9:50 am

Maintenance and Operations

W1.18 • Room: 318

How to Get Past the Top 3 CMMS Hurdles

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

In today's facility and industrial organizations one of the required tools is a computerized maintenance management system (CMMS). An up to date CMMS working properly is one of the keys in today's world of facility and manufacturing to having a best in class process and organization. CMMS's are critical in developing processes and performance measurements which will enable your organization to understand the condition and performance of all assets and equipment. The downside is that only 10-15% of all CMMS systems installed today are working to their fullest potential. This session will present and discuss the top 3 CMMS hurdles that must be overcome in order to begin to utilize your system to its fullest. As we discuss each of the 3 hurdles, solutions and action items will be presented and discussed.

LEARNING OBJECTIVES:

1. Define the major components of successful CMMS programs
2. What are the top three CMMS Hurdles
3. Understand the role of discipline and accountability in managing your asset and work history
4. Learn how to put together a master plan to achieve your long range CMMS goals

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

W1.21 • Room: 321

Create a Culture of Success!

Presenter(s): Jason Bingham, Vice President Energy Services and Controls, Trane

Elevate the role of facilities through enhanced leadership and "Cultureship." From building a talented team, to tying your efforts

to the customer for organizational success, this presentation will help facility leaders learn how to create a culture that earns a seat at the executive table. The presenter will address how to understand the bigger picture of your organization and build a high-performing team around that vision. He will discuss how facility leaders can provide strong leadership to their teams and "Lead up" by speaking the language of business through data-driven recommendations and delivering successful presentations that resonate with multiple audiences.

LEARNING OBJECTIVES:

1. Learn to use proven leadership methodologies to hire and train the best talent and get ahead of the challenges of an aging workforce
2. Determine how to demonstrate an understanding of your organization's vision, mission and goals and connect that in a meaningful way to your customers and your team
3. Discuss the process for creating a high performance culture and receive the tools to make it happen
4. Understand how to present data-driven ideas in ways that resonate with decision-makers

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W1.24 • Room: 324

LED Lighting, Capabilities Today and Tomorrow

Presenter(s): E. W. Dovel, VP, Public Sector, Harris Lighting

This presentation will deliver an up to date analysis of LED technology efficiency and where it will be in coming months. It will also discuss the economics and safety concerns around some LED deployment types.

LEARNING OBJECTIVES:

1. Define key terms and the importance of each
2. Illustrate where LED technology is today and forecast where it will be in the near future
3. Provide examples of successful LED projects
4. Define some pitfalls within the marketing of LED

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

W1.27 • Room: 327

Energy Benchmarking: You Can't Manage What You Don't Measure

Presenter(s): John Wilson, Instructional Specialist, National Sustainable Structures Center, Pennsylvania College of Technology

Do you know how your building's energy performance compares to others? This presentation will cover the fundamentals of energy benchmarking, energy accounting, and which building and energy use data to collect to generate an Energy Use Index (EUI) for comparison to national averages. We will discuss the basic data type and physical property information to be collected, how to assemble the information to be used for data tracking energy consumption, how to show data consumption profiles in graph and chart format, and how to establish a baseline for Kwh baseload consumption and various presentations.

LEARNING OBJECTIVES:

1. Understand basic energy accounting
2. Learn how to convert Kwh, Oil, and Gas to BTU's
3. Discuss EUI and how to use it to compare your building to similar buildings in a geographic area

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Wednesday

4. State how building data can be used to show energy consumption using charts and graphs

AUDIENCE: INTERMEDIATE CEU: 0.1

Healthcare Facilities Today

W1.30 • Room: 330

Compliance Training of Hospital Employees for Infection Control

Presenter(s): Thom Wellington, CEO, Infection Control University

To reduce the risk of HAIs, which are now claiming more lives annually than AIDs, breast cancer and car accidents combined, all vendors and healthcare staff should become more familiar with CMS and CDC compliance standards, the impact of HAIs to patient safety and the educational training programs that are available to all healthcare staff and vendors.

LEARNING OBJECTIVES:

1. Understand CMS and CDC compliance surrounding infection control awareness and the impact of HAIs
2. Review how using cloud technology can save time, educate deeper and improve vendor safety in your facility
3. Observe how great leaders inspire their teams - lessons from great entrepreneurs that you can quickly incorporate to drive positive change in your team
4. Review how construction and maintenance teams understand how and why their work impacts the safety of patients

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

W1.31 • Room: 331

Generating Renewable Energy: A Case Study from T. Rowe Price

*Presenter(s): Richard Anderson, Principal, CQI Associates
Brian Dean, CFM, LEED AP, Vice President, T. Rowe Price
Patrick McComiskey, LEED AP, Project Manager, JLL*

Pursuing strategies to reduce their environmental impact are guiding philosophies of the T. Rowe Price sustainability program. This case study will review the content and process that resulted in the installation of a 2.2MW Solar Photo Voltaic Energy Generating System on their Corporate Campus in Owings Mills, MD. Specific areas to be addressed include: the business case, contractor selection process, construction process, and the feasibility of utilizing multiple solar array systems. An overview of "why solar" will be used to set the stage for the panel discussion.

LEARNING OBJECTIVES:

1. Understand energy efficient buildings technologies
2. Define innovative ideas on reducing greenhouse gas
3. Learn about financial incentives available to offset the project
4. Review long term capability to reduce costs for delivery and commodity services

AUDIENCE: BEGINNER CEU: 0.1

Public Sector Trends

W1.37 • Room: 337

Build a High-Performance Team: Federal Building Personnel Training Act (FBPTA)

Presenter(s): Brian Gilligan, National Program Manager, General Services Administration

Maureen K. Roskoski, SFP, LEED AP O+M, Corporate Sustainability Officer, Facility Engineering Associates

Understand the importance of the Federal Building Personnel Training Act (FBPTA) competency model and how it has been used by GSA to build a High Performance Team. Learn about the new FBPTA aligned qualifications and other changes in the 2015 Update. Get an introduction to the new tools Accelerate FM, FEDSAT, and Consortium for Building Energy Innovation (CBEI) Career Map that can help you build your own High Performance Team.

LEARNING OBJECTIVES:

1. Learn the "Why" of the Federal Building Personnel Training Act (FBPTA)
2. Understand the need for the 2015 Update to the FBPTA Competency Model & Curriculum
3. Identify the new FBPTA Aligned qualifications
4. Become familiar with the new and updated tools that can help you comply with the FBPTA

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

W1.39 • Room: 339

The True Value of Clean

Presenter(s): Dan Wagner, Director of Facility Service Programs, ISSA

Cleaning is traditionally looked at as a cost to be minimized. Yet, when one considers the real impact effective cleaning has on human health, the environment, productivity, facility assets and the bottom line, it becomes clear that it is properly treated as an investment. This session will demonstrate the "true value of clean" and how a commitment to excellence can lead to a clean, green and healthy indoor environment.

LEARNING OBJECTIVES:

1. Understand the true value of cleaning as an investment
2. Describe the connection between cleaning and sustainability
3. Note how cleaning impacts human health
4. Recognize tools and resources to ensure a clean, green and healthy indoor environment

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations

W1.41 • Room: 341

Award-Winning Grounds Operations

Presenter(s): Jeff McManus, CGM, Director of Landscape Services, University of Mississippi

A beautiful environment is its own reward...but sometimes recognition can make it even better! This session introduces grounds management leaders to the Green Star Awards program which serves to nationally recognize landscaping excellence covering all types of private, public commercial and industrial landscapes. By understanding the requirements for the Green Star Awards program, landscape teams can move toward a standard of excellence and accreditation.

LEARNING OBJECTIVES:

1. Gain information regarding current grounds management and operation standards
2. Understand the internal and administrative value of recognition for landscape excellence
3. Discover next-steps for maintaining and growing landscape standards of excellence
4. Provide opportunity for deeper understanding in a Q & A format

AUDIENCE: BEGINNER CEU: 0.1

Wednesday

Maintenance and Operations

W1.43 • Room: 343**The Changing Demographics in the HVACR and Facility Management Workforce**

*Presenter(s): Renee Joseph, Vice President, Channel Sales and Marketing Operations, Johnson Controls, Inc.
Lyle Gladney, FMP, Customer Business Manager
Johnson Controls, Inc.*

*Brian Pfeifer, P.E., LEED AP O+M, Technologies Manager
Johnson Controls, Inc. Enterprise Properties Group
Corrie Prunuske, Vice President & General Manager, Customer Business Unit CBRE, Johnson Controls, Inc.
Michelle Butters, Division Leader, CBRE*

In this session, hear from a seasoned industry expert for a perspective on how the demographics have changed over the last ten years in the facility management and the HVACR industries. For example, there are now more women in the facility management and HVACR industry than there ever was before. The presentation will be on these stats and will describe the reasons for this demographic shift.

LEARNING OBJECTIVES:

1. Specify the changing workplace demographics in the HVACR and Facility Management Industry
2. State statistics on the workforce to reflect these changes
3. Assess the trends and reasons for this shift in the workforce reflecting these changes

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W1.45 • Room: 345**Data Center - Internal Facility, Cloud, Co-location, and Container Working Together**

Presenter(s): Mark S. Evanko, Principal, BRUNS-PAK

The data center presentation focuses developing an optimal solution “mix” of data center facility, cloud, co-location, and container components. The 2015 and beyond enterprise data center “best practice” delivery includes total cost of ownership weighed against risk/liability (network data). Specific 2015 data center events are reviewed as well as concerns of board of directors/trustees/stock holders regarding data center complexes.

LEARNING OBJECTIVES:

1. Describe how a physical data center facility “combines” with a cloud, co-location, and/or container solution
2. Understand what total cost of ownership means and how it relates to risk
3. State the evolving liabilities of data center delivery solutions for data “breaches”
4. List the 16 total elements to be considered in developing a short/long term enterprise data center solution
5. Identify the recent trends (2015 and beyond) in delivering data center solutions

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

W1.47 • Room: 347**Building-as-a-Service, What Happens When BloT Grows Up**

Presenter(s): Aniruddha Deodhar, Senior Product Manager, Sustainable Buildings Solutions, Autodesk

Commercial building owners have struggled to derive actionable insights from enterprise or facility-level benchmarking that could

provide significant energy reductions at lower paybacks. This talk will discuss how Building IoT underpinned by low cost sensor technologies have given rise to real-time device level energy and indoor environment quality management that provide better fidelity of information at a fraction of the cost and better ROI.

LEARNING OBJECTIVES:

1. Learn about new wireless, self-powered sensor technologies that deliver real-time, high-frequency device level data
2. Understand how BIM and BIM based analysis can be integrated with Big Data

AUDIENCE: ADVANCED CEU: 0.1

10:00-10:50 am

Maintenance and Operations

W2.18 • Room: 318**Big Labor Strikes Back**

Presenter(s): John E. Cruickshank, Attorney, Alaniz & Schraeder, LLC

In this session, thoughts will be shared on the new legal environment created by the most dramatic changes in labor rules in twenty years. Between Browning-Ferris, the quickie election rules, and micro-bargaining; expect enormous new challenges in trying to manage your non-union workplace. Also, are you affected by the new overtime rules? And, more and more bad news if you are a federal contractor.

LEARNING OBJECTIVES:

1. Discuss labor union strategies
2. Determine how to improve hiring strategies
3. Explain how to deal with the new overtime rules
4. Note the big changes for federal contractors

AUDIENCE: ADVANCED CEU: 0.1

Leadership and Career Advancement

W2.21 • Room: 321**Building and Managing Your Reputation**

Presenter(s): Scott D. Butcher, FSMPS, CPSM, Vice President, JDB Engineering, Inc.

Having an impact in your company and industry is more difficult than ever.

LEARNING OBJECTIVES:

1. Understand the importance and attributes of a personal brand
2. Identify the critical tools required to develop and maintain a positive reputation
3. Create a personal marketing plan and conduct a personal gap analysis to determine required skills
4. Learn through case studies how other professionals have elevated their personal reputations

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W2.24 • Room: 324**What Does a Mature Asset Management Program Look Like?**

Presenter(s): Tim Harvey, Retired Division Chief, National Park Service, Park Facility Management Division

Doug Kincaid, P.E., President and General Manager, Applied Management Engineering

Facility Management professionals have focused on the aspects

Wednesday

of asset management that have received the most attention in professional organizations and publications. Over the last several years there has been an emphasis on computerized maintenance management systems (CMMS) and deferred maintenance. While those are important parts of an asset management program they do not represent a truly mature and effective program.

LEARNING OBJECTIVES:

1. State how total cost of ownership concepts should filter through every aspect of an asset management program
2. Understand what a mature asset management program looks like
3. Identify how to focus limited resources in a controlled manner and measure the impacts
4. Measure program maturity from the foundational elements to mastery

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

W2.27 • Room: 327

Continuous Energy Management and its Driving Factors

Presenter(s): Lawrence B. Eighmy, Managing and Founding Principal, The Stone House Group (SHG)

D. James Hayes, Senior Associate, The Stone House Group

When approached as a comprehensive, multi-dimensional strategy, energy management yields sizable fiscal and facilities benefits for clients through thoughtful operational, maintenance, and modernization changes. And it all begins with data. Energy data identifies baseline performance and targets highest impact generation, distribution, and end use systems opportunities as the first step to energy reduction. Energy data helps optimize procurement options and available grants and incentives, which is critical in controlling facilities costs. Energy data supports a strategic and continuous energy management plan through administration, facilities, and community involvement. The strongest facilities management programs rely on a strong energy management plan.

LEARNING OBJECTIVES:

1. Understand how energy data analysis informs smart management of resources
2. Explore opportunities for energy cost and consumption reduction while setting priorities for use of investment capital
3. Develop knowledge of energy purchasing and financing opportunities to better manage institutional assets
4. Learn ways to align interdisciplinary stakeholders to reduce environmental impacts and support a continuous energy management plan

AUDIENCE: BEGINNER CEU: 0.1

Technology

W2.31 • Room: 331

The Importance of Managed System Infrastructure in Modern Facility Management Applications

Presenter(s): Dan McGinn, Director of Business Development, Industrial Secure Power, Schneider Electric

Effective facility operation is driven, in large part, by the availability of systems in monitoring and controlling commercial and industrial facilities. Improvements in availability are driven by the avoidance of unplanned downtime and through analysis of an ever increasing suite of information and data present in modern systems. Providing clean reliable power and well managed infrastructure (server, network, UPS) to the most critical elements of the enterprise is more

important than ever, especially as it relates to the intelligent devices and networks supporting the overall system.

LEARNING OBJECTIVES:

1. Learn how a UPS systems can be applied to provide continuous operation for extended outages or to provide a safe and managed shut down in the case of a power loss
2. Review the history of the Internet of Things, an entirely new trend
3. Comprehend intelligent devices such as IP Cameras and Process Controllers as well as the networks that support them may benefit from clean, uninterruptible power

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends

W2.37 • Room: 337

Three Agencies Building High-Performance Teams: GSA, DOD, and VA - One Year Later

Presenter(s): Dr. Paul F. Krasley, Vice-Chancellor, VA Acquisition Academy Facilities Management School

Roy Hirschack, CHFM, Chief of the Operations & Maintenance, LCI & Ops Branch, Defense Health Agency

George Mino, P.E., Civil Engineer, Office of the Assistant Secretary of Defense

Brian Gilligan, National Program Manager, General Services Administration

GSA, DOD, and VA will share their experiences and how their agencies have been using the FBPTA Competency Model in the last year to fit their unique agency needs. The agencies will describe how they are incorporating DOE approved credentials and the Better Buildings Workforce Guidelines (BBWG) program to improve consistency in requirements for Energy Manager and Building Operator positions.

LEARNING OBJECTIVES:

1. Discover how federal agencies are implementing the FBPTA requirements
2. Learn how the FBPTA competency model can be adapted to fit individual agency needs
3. Understand how the FBPTA relates to the BBWG, DOE approved energy and building operator related credentials

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

W2.39 • Room: 339

A Performance-Based Guide to Facilities Services

Presenter(s): Vince Elliott, President, Elliott Affiliates, Ltd.

Procurement professionals and all buyers of facility services will gain actionable information about how to implement this powerful strategy. This session will present a User's Guide for Performance-Based Contracting and highlight how this strategy is being implemented for buying facility services. Using actual case study examples, attendees will understand the potential and shortfalls for this innovative buying model. Further, attendees will get insider tips for vetting the best choice service provider in awarding a new contract. Following the User Guide, you will establish the best value for price and performance available in the marketplace. Finally, Vince will share his personal recommendations for powerful, FREE software that you can use to enhance your procurement process.

LEARNING OBJECTIVES:

1. Identify how performance-based contracting is different
2. Assess if you can afford to do this strategy for buying services
3. Learn about any complications involved with performance-based contracting



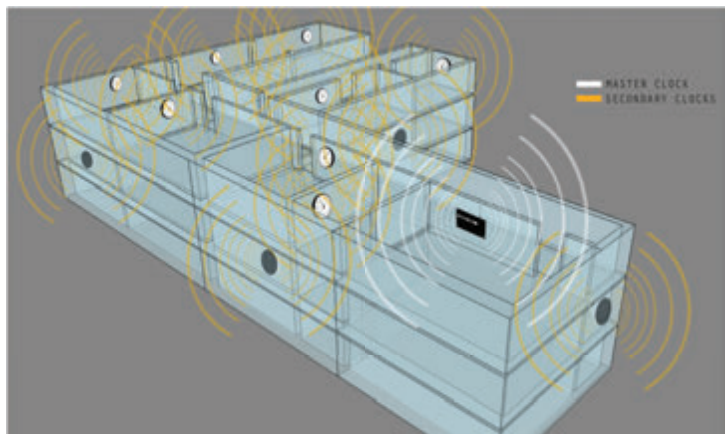
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Sapling Wireless System:

Diagram of a Sapling Master Clock sending signal to the Secondary Clocks in the system. The Secondary Clocks use their built in repeater to transmit the signal to other clocks in the system.



Wednesday

4. Define how quality/price results compare to the traditional task-based strategy

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

W2.41 • Room: 339

Specifying LED Lighting: The Challenges

Presenter(s): James Yorgey, P.E., LC, Technical Applications Manager, Lutron Electronics Co., Inc.

This presentation is a discussion of the rapid evolution of the use of LED's for lighting. As with any new technology, there are challenges that require consideration to ensure proper implementation. We will review the various issues and how they are being addressed. An important focus is on the proper methods of dimming and controlling LED lighting. Also presented are recommendations for specifying LED lighting and controls to ensure compatibility and successful installations. LEARNING OBJECTIVES:

1. Be able to describe the advantages, performance challenges and limitations of LEDs as a general illumination light source
2. Understand the differences between LED lamps (bulbs) and LED fixtures and where each product is applicable
3. Describe the differences between the various dimming control protocols and standards
4. Provide specifications for successful projects with knowledge of the benefits and limitations of LED lighting

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

W2.43 • Room: 343

Young Professional: Advancing Through Your FM Career

*Presenter(s): Diana Bramble, Acting Chief of Maintenance - National Capital Parks East, National Park Service
Caroline Horton, Assistant Facilities Manager, 2U, Inc
Moderator: Renee Bassett, Vice President - Content Development, Building Operating Management and Facility Maintenance Decisions Magazines*

With more resources and programs available, the traditional path of "falling" into the job and rising through the ranks is less common for younger facilities managers. Degree programs, student internships and work experiences have allowed young professionals in facilities management to be ready to advance at a much younger age than the previous generation, especially as the baby boomers continue to move into their "third act." Attend this session to hear from other young professionals on how they have positioned themselves to advance their career and move up in the industry. LEARNING OBJECTIVES:

1. Review how degree programs, student internships and work experiences advance your career
2. Learn the importance of mentoring
3. Understand how technology will play an increasingly important role for young professionals to advance in the industry

AUDIENCE: BEGINNER CEU: 0.1

Maintenance and Operations, Safety and Security

W2.45 • Room: 345

Generator Docking Stations: Backing Up the Back-Up Plan

Presenter(s): Jon Sunde, Certified Master Electrician, Trystar

Your facility has a backup generator. It has a UPS system. You are completely prepared for the worst. Except when the backup generator fails and the UPS system has only 6 hours left before it goes down. Installing a Generator Docking Station prepares facilities for the worst case scenario. When the other solutions fail, Generator Docking Stations step up to protect.

LEARNING OBJECTIVES:

1. Review methods for backing up facilities without a permanent generator
2. State methods for backing up facilities without a permanent generator and without a transfer switch
3. Verify methods for backing up facilities with a permanent generator and a failure with that permanent generator
4. Learn about current code compliance

AUDIENCE: ADVANCED CEU: 0.1

Internet of Things

W2.47 • Room: 347

Presenter(s): Matt Eggers, VP, Energy Management, Yardi Systems, Inc.

As they say in Silicon Valley, software is eating the world. Uber, iTunes, AirBNB, PayPal and many others have disrupted the way we live and work. But buildings have not yet changed much. Are they next? Is the Internet of Things what's needed? When will it happen? Can you get something of measurable value today or this IoT revolution still "coming soon?" You already know that the IoT will bring connectivity to your building but what you want to know is what "killer apps" you must have and how you should evaluate new opportunities.

Learning Objectives:

1. Learn key categories of IoT applications that are available today without disruptive retrofits
2. Understand how to evaluate IoT and smart building opportunities
3. Discover five key success factors for implementing successful IoT projects today

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

W2.49 • Room: 349

ADA Non-compliance - Can You Afford it?

Presenter(s): Joan W. Stein, President, Stein Consulting LLC

Although the Americans with Disabilities Act (ADA) is now more than 25 years old, there are still a large number of non-compliant facilities. The number of private lawsuits filed in federal courts across the country continues to increase. New areas are being scrutinized to include exterior site elements (parking lots and exterior elements), websites and golf courses; areas not widely familiar to design professionals. Join Joan Stein who has more than 25 years experience as an ADA consultant for a practical, informative and interactive session.

LEARNING OBJECTIVES:

1. Clarify how the ADA is enforced both by the Justice Department and the federal courts and recent changes in enforcement and fines



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Wednesday

2. Define the difference between building codes and the ADA as a civil rights law
 3. Discuss practical tips and guidance on how to demonstrate a “good faith effort” in your ADA compliance effort*
 4. Name practical tips and guidance on what to do when a complaint is filed against you/your organization*
- *Ms. Stein is not an attorney and the tips and guidance provided in this session cannot be construed to be legal advice.

AUDIENCE: INTERMEDIATE CEU: 0.1

3:10-4:00 pm

Leadership and Career Advancement

W3.21 • Room: 321

Engagement Is 20th Century, Discretionary Effort Is 21st Century!

Presenter(s): Karla Brandau, CSP, President, People Skills International,

As a leader you have the power to inspire your employees to give amazing contributions to your organization, not just minimal effort. Every morning when your employees walk through the door, they make a conscious decision that has unparalleled impact on the success of your company.

LEARNING OBJECTIVES:

1. Discover the difference between engaging employees and creating an environment where they give discretionary effort on a daily basis
2. Understand the 5 leadership levels that create an environment where managers earn the gift of discretionary effort on a daily basis
3. Learn how you as a leader can model discretionary effort
4. Catch a vision of how the release of discretionary effort can make your company more competitive in the chaotic 21st century marketplace

AUDIENCE: ADVANCED CEU: 0.1

Technology

W3.24 • Room: 324

An Overview of Facilities Management Technology

Presenter(s): Jim Turner, Director, Facilities Solution, Markon Solutions

Technology plays a big role supporting facility managers in their everyday tasks of operating and maintaining the built environment. It's not unusual for facility managers to be asked to install, implement, and work with a variety of technologies without any prior experience in information technology. This session provides an overview of the current uses of the technologies, such as building information modeling, building automation systems, FM automation, and sustainability and energy analysis, and includes implementation case studies.

LEARNING OBJECTIVES:

1. Learn about eight essential technologies that today's FMs are using right now in the field
2. Gain an overview of features and benefits of FM technology
3. Gather insight from case studies on FM installation and use within organizations
4. Create a road map for justifying FM technology at your organization

AUDIENCE: BEGINNER CEU: 0.1

Energy

W3.27 • Room: 327

Process/Machine Level Energy Measuring

Presenter(s): Bob Meyers, Solutions Engineer, Schneider Electric Ram Kaushik, Offer Manager, Power Management, Schneider Electric

There is an increasing necessity for monitoring energy usage at a process and/or machine level. While there are approaches to collect and report energy data at the feeder level, improved approaches help the customer better evaluate energy utilization during a production process. The interaction of manufacturing processes and their relationship to energy wastes also needs to be evaluated (processes blocked or idled by other operations). Such information is valuable to save energy costs while maintaining productivity targets. Additionally, individualized departments need tools to monitor energy usage, plan for savings initiatives, and measure performance. Ideally, provide a methodology for “Plan, Do, Check” (PDC) of energy initiatives.

LEARNING OBJECTIVES:

1. Analyze energy usage during idled production periods
2. Determine effectiveness of separating process and utility energy consumption
3. Provide departmental energy usage to focus on areas of energy waste
4. Indicate means of how production affects energy usage

AUDIENCE: ADVANCED CEU: 0.1

Safety and Security, Healthcare Facilities Today

W3.30 • Room: 330

Infection Control: Expecting the Unexpected

Presenter(s): Bill Fellows, Green Cleaning Advisor, Bill Fellows Consulting

In light of the revelation that this year's flu vaccine was “depending on the source” only 11 to 20 percent effective, it's not surprising that 2015 saw the disease spread throughout the country, resulting in epidemics in more than 25 states. With such sobering statistics in mind, it is vital that building service contractors, in-house cleaning professionals and distributors reinforce the role of infection control in schools, medical settings and office buildings. Of course, flu is not the only pressing issue when it comes to infection control; recent headline-grabbing stories related to the international Ebola pandemic and rapid spread of measles stateside clearly demonstrate the need to remain vigilant throughout cold and flu season -- and beyond.

LEARNING OBJECTIVES:

1. Considerations specific to various types of facilities: schools, health care, hospitality, offices, etc.
2. Review the importance of cleaning tools in the spread of germs
3. Discuss interventions that work in reducing the exposure to germs
4. Promoting and practicing proper hand washing

AUDIENCE: BEGINNER CEU: 0.1

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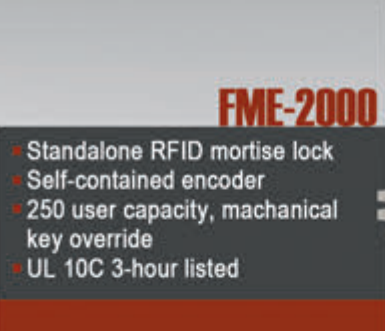
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- ▶ 250 user capacity, mechanical key override
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- ▶ ANSI Grade 1 mortise lock
- ▶ UL 3-hour listed
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Wednesday

Safety and Security

W3.31 • Room: 331

Emergency Management: How Facility Managers Could/Should Interact with Civil Authorities

Presenter(s): Baltimore Fire (invited), Baltimore Police, Maryland Emergency Management Agency, Baltimore Office of Emergency Management,

When is the best time to learn how civil authorities might respond to your site? Well before any incident. Emergencies happen on a daily basis, from medical emergencies on your site, to fire, to carbon monoxide, active shooter, and civil unrest, the list of hazards is seemingly endless. Understanding how police, fire, EMS, and any office of emergency management will react to a situation on your site or in response to a larger regional incident is key to making effective plans. This panel will strive to help you understand that the best time to learn how those interactions might go is before an incident. Learn how civil authorities might respond and how to work more effectively with your local police, fire, and EMS services. This panel can also discuss how to host a "Community Outreach Event."

LEARNING OBJECTIVES:

1. Understand information Civil Authorities may need from you
2. Review the appropriate time to initialize contact with the authorities
3. Learn which department to contact within the agency
4. Clarify how to include the agencies in a drill

AUDIENCE: BEGINNER CEU: 0.1

Public Sector Trends

W3.37 • Room: 337

Tools You Can Use To Build a High-Performance Team Part I: FEDSAT

Presenter(s): Brian Gilligan, National Program Manager, General Services Administration

Colin Dunn, SFTool Project Manager, Noblis

Learn about the Federal Facilities Skills Assessment Tool (FEDSAT) and how to use it to demonstrate your knowledge of recognized high priority FBPTA performance, identify areas of training, and locate free training provided from the Federal government, industry association and other sources. We will show you how to earn your FEDSAT Certificate of Completion, which is an important first step to achieve full FBPTA compliance.

LEARNING OBJECTIVES:

1. Understand why and how FEDSAT was developed
2. Learn to use the FEDSAT tool to find your gaps with the most critical FBPTA competencies and free training to fill them.

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

W3.39 • Room: 339

The Current Best Practices in Parking Garage Lighting

Presenter(s): Pete Messman, National Sales Director, Green Lighting Technologies

The relighting of parking garages is well-recognized as a tremendous opportunity to capture major energy savings and dramatically reduce the maintenance requirements. But done wrong it can result in a facility that is unsafe and unappealing. This presentation is designed to compare the technologies apples-to-apples and detail best practices so that good decisions can be made.

LEARNING OBJECTIVES:

1. Understand how changes in the technologies for garage lighting are being implemented in cost-effective ways
2. Maximize energy savings while reducing maintenance requirements

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability

W3.41 • Room: 341

Budgeting a Carpet Maintenance Plan

Presenter(s): Lewis G. Migliore, President, LGMTCS and Associates

Just as deferred maintenance in a facility can ease budget constraints by reducing overhead costs, so can decreasing the frequency and/or intensity of carpet care throughout a building. Unfortunately, the consequences of cutting back--whether it's a piece of building equipment or an expanse of carpeting--can actually increase costs in the long run. Poorly installed, cleaned or maintained carpet often fails well before its estimated life cycle, and for that reason, BSCs, sanitary supply distributors and housekeeping executives must be able to demonstrate the value of routine carpet maintenance to their customers, and help them understand how an investment in a carpet cleaning program pays dividends.

LEARNING OBJECTIVES:

1. Learn how to fit appropriate carpet maintenance into the operations budget
2. Develop a carpet maintenance strategy/frequency that meets cleanliness expectations
3. Understand the role of interim cleaning as it relates to overall carpet maintenance
4. Develop effective levels of carpet cleaning for custodial operations

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

W3.43 • Room: 343

The Faciliton, Closing the FM Skills Gap by Opening the Pipeline

Presenter(s): Carolyn McGary, Co-Director, FM Pipeline Team Jim Zirbel, Co-Director, FM Pipeline Team

Facilities Management is about to hit a wall: The Skills Gap. The FM Pipeline team created The Faciliton, a competitive event through SkillsUSA, to attract high school students to FM careers. It enjoyed immense success in 2015 and is expanding nationally today. Have you been thinking about who's next? This program answers that question emphatically; not only touching next gen, but grabbing hold and inspiring them toward the career path.

LEARNING OBJECTIVES:

1. Proactively address the skills gap challenge in FM
2. Learn about CTSO's and why they're key to reaching the next generation
3. Discover how to join the program and tap the pipeline

AUDIENCE: INTERMEDIATE CEU: 0.1

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Wednesday

Technology

W3.45 • Room: 345

Increasing Data Center Resilience While Lowering PUE

Presenter(s): Nandini Mouli, PhD, Founder/Principal, eSai LLC
How can software help with data center resilience? It used to be that data center resilience depended on hardware redundancy. Now, companies are using software to improve resilience in two ways: building fault tolerance into their software, and using the “what if” capabilities of a DCIM Monitoring solution to simulate failures or planned outages for maintenance or upgrades, to locate and correct single points of failure. What are the challenges and tools to achieve data center resilience? Through several case studies using real customers and numbers, we’ll show how resilience can be increased while lowering PUE, through DCIM Monitoring.

LEARNING OBJECTIVES:

1. Understand why it is important to discover your data center’s weak spots
2. Discover the challenges to achieving data center resilience
3. Identify tools that can help
4. Define DCIM monitoring

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

W3.47 • Room: 347

Maximizing Your Real Estate Portfolio With the Internet of Things

Presenter(s): Scott Potter, Smarter Infrastructure Business Development Leader, IBM
Paul Head, II, Senior Manager, Ernst & Young Construction & Real Estate Advisory Services

The Internet of Things (IoT) has the potential to change the way we live and work. Through this technology construct we have the ability to leverage information from an infinite number of devices around the globe. The vast amount of data and information can let us make informed decisions and take action to enhance our life and preserve our planet. How does this apply to the real estate and facilities professional today, two years from now, and beyond? How can the Internet of Things help us maximize the assets we have in place today and plan for the future? In this session we will address key concepts, technologies available today that are affordable and actionable, and what to prepare for on your IoT roadmap.

LEARNING OBJECTIVES:

1. Understanding of IoT
2. Review the tangible benefits of IoT
3. Learn how to plan out your IoT roadmap
4. Understand practical / cost effective projects you can implement today

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

W3.49 • Room: 349

Make Evidence-Based Decisions About Water Safety and Legionella

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

The new ASHRAE Standard 188 has elevated the focus on water quality and Legionella in healthcare and commercial buildings. System operators are faced with decisions regarding risk management associated with operation and maintenance

of water systems in their facilities. Often these decisions can be clouded by a lack of information, misconceptions, and sales pitches. Ten common questions regarding building water hygiene and Legionella will be discussed in this session. Information provided in this session will allow facility managers to make evidence-based decisions regarding water management and implementation of ASHRAE 188 requirements in their facility.

LEARNING OBJECTIVES:

1. Review the science behind common Legionella questions
2. Identify water system issues that can impact water quality
3. Understand the benefits of a proactive approach to water system risk management
4. Learn about the new ASHRAE Standard 188 Legionellosis: Risk Management for Building Water Systems

AUDIENCE: INTERMEDIATE CEU: 0.1

4:10-6:30 pm

Leadership and Career Advancement

W4.16 • Room: 316

Women in Facilities Management 2016 Roundtable Discussion and Reception

Presenter(s): Sandy McCurdy, CHFM, Distric Manager, Facility Solutions, Sodexo Healthcare Services
Laurie Gilmer, P.E., CFM, LEED AP, CxA, Vice President of Facility Services, Facility Engineering Associates, P.C.
Sharon Jaye, Executive Director, Green Schools Alliance
Moderator: Naomi Millan, Senior Editor, Building Operating Management Magazine

Women in facilities management have been steadily increasing in number over the years, and such strategies as networking, platform-building, and finding a mentor can help them build this number. Attend this session to hear insight from other women in the field who have been there, done that. They discuss what women, men, and their managers should be doing now to prepare the next wave of industry leaders, work-life balance, career advance and more. This highly interactive roundtable session will include discussion from audience members as well as the panelists. All are welcome to join in this discussion.

LEARNING OBJECTIVES:

1. Discuss how to achieve a work-life balance in the 24/7 world of facilities management
2. Review career advancement strategies
3. Clarify mentoring benefits

AUDIENCE: BEGINNER CEU: 0.1

Wednesday

4:10-5:00 pm

Leadership and Career Advancement

W4.21 • Room: 321**Preparing an Agile Strategic Facility Plan***Presenter(s): Robert Lambe, CFM, CEO, RAL Location Strategies*

Given the rate of change and budget pressures today, many organizations do not invest the time or resources to develop a traditional strategic facility plan. This makes it difficult for executives and facility staff to be confident that they have the right facilities in place and are making the best investments in these assets. However, an agile management approach can be used to leverage available information and quickly create or revise a draft strategic facility plan. Once developed, this draft strategic facility plan can be used to guide decisions as well as to identify important information gaps.

LEARNING OBJECTIVES:

1. Review the benefits that can be provided by a strategic facilities plan
2. Identify ways that facilities can provide a competitive advantage to your business if properly aligned
3. Understand the different perspectives of facilities and how to address the implicit criteria of each
4. Learn how to create an agile strategic facility plan with available information

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W4.24 • Room: 324**Wireless vs. Wired Lighting Controls or Both?***Presenter(s): Ross Eberlin, Product Marketing Manager, Osram Sylvania*

Advanced lighting controls utilize various strategies and GUI-based controls to achieve energy savings while ensuring a comfortable and safe work environment to building occupants. These intelligent controls can be deployed via “Wired,” “Wireless” or “Hybrid” methods. Deployment methods are typically influenced by building type, labor costs, ROI considerations, etc. In this session, the pros and cons of wired/wireless controls will be discussed as well as the different technologies and strategies that drive implementations. Examples of different system architectures that implemented wired, wireless, and hybrid lighting controls will be given.

LEARNING OBJECTIVES:

1. Define “wired,” “wireless” and “hybrid” lighting controls
2. Identify the “cons” and “pros” associated with wired/wireless implementations
3. Evaluate the technologies & strategies that drive different implementations
4. Analyze system architectures that implement wired, wireless or hybrid type of lighting controls

AUDIENCE: BEGINNER CEU: 0.1

Public Sector Trends

W4.37 • Room: 337**Tools You Can Use To Build a High-Performance Team Part II: Accelerate FM***Presenter(s): Brian Gilligan, National Program Manager, General Services Administration**Maureen K. Roskoski, SFP, LEED AP O+M, Corporate Sustainability Officer, Facility Engineering Associates*

Learn about the Accelerate FM tool and how to use it to: 1) identify and prioritize high quality qualifications that will advance your career, 2) demonstrate compliance with the FBPTA, 3) justify request for training to your organization. This tool is appropriate and available to federal employees and private sector contractors to enhance your talent development program and align with the FBPTA.

LEARNING OBJECTIVES:

1. Understand why and how Accelerate FM was developed
2. Learn how the Accelerate FM tool will help you to demonstrate compliance with the FBPTA
3. Gain the ability to build a business case for training

AUDIENCE: BEGINNER CEU: 0.1

Greening an Existing Building

W4.39 • Room: 339**Building the Best Team for a Sustainable Operation***Presenter(s): Mark Stanland, Vice President of Client Services, Green Seal, Inc**Bob Baldwin, Vice President of Sales, Daycon**Chase Carlson, Vice President, Pioneer Building Services**Greg Donahue, LEED AP, Real Estate Manager, CBRE*

This engaging session will provide insights on greening facilities from four points of view: a property management company, a certified green cleaning service provider, a manufacturer of certified sustainable products, and the third-party certifier. Real-world examples of specific operating procedures, product use and storage, training, and tenant communications will demonstrate the effectiveness of a certified green cleaning service. And participants will learn about the challenges and successes experienced in developing products that meet leadership-level sustainability standards. Their insights and collaboration will demonstrate how certified green products and services provide value for building owners and tenants in this new paradigm.

LEARNING OBJECTIVES:

1. Determine if a facility is being cleaned and maintained in a sustainable manner
2. Define what sustainable cleaning and sanitary paper products are and learn how to identify which ones are sustainable
3. Differentiate a proven sustainable product or cleaning service from one that may be green washing
4. Apply similar criteria to other products and services in their facility

AUDIENCE: BEGINNER CEU: 0.1

Wednesday

Sustainability

W4.41 • Room: 341

Sustainable and Economical Ways of Keeping Up with the Ever-Changing Workspace Trends

Presenter(s): William Davies, President, Davies Office

As workspace configuration and office furnishings continue to evolve, it is difficult for companies to keep up with the changing trends, especially if it means having to purchase new office furnishings. What do companies do with all of the old furniture and workstations and how do companies justify the financial investment needed to keep up with the rapid changes in workplaces? Learn the history of the evolving workspace and a glimpse at its future. See how other companies have been able to rapidly change to meet new workplace configuration needs without breaking the bank (or packing the landfill!) This presentation will share the latest information about flexible, sustainable and economical workspace furnishing options. This will be an informative and engaging presentation with real-world examples of how other Fortunate (500 and 1000) companies have been able to address the ever-changing workspace trends by cost-effectively using existing furniture assets and creating a measurable environmental impact.

LEARNING OBJECTIVES:

1. Run through a step-by-step guide for how to cost effectively keep up with workspace configuration changes through the sustainable re-manufacturing of current office furniture assets
2. Take away real world case studies of cost savings and environmental impact accomplished through re-configuring office spaces for organizational efficiency and productivity
3. Learn from real world examples that have cost-effectively met new workplace needs

AUDIENCE: ADVANCED CEU: 0.1

Maintenance and Operations

W4.43 • Room: 343

Code Requirements for Facilities Repairing Natural Gas Vehicles

Presenter(s): Corey Miller, Application Manager, Sierra Monitor Corp. This presentation explores the latest code developments for facilities repairing natural gas vehicles. The facility owner will be given insight into the changes necessary to meet the approval of the local authority having jurisdiction. Additionally we will explore ideas on how to make these changes with lower overall cost.

LEARNING OBJECTIVES:

1. Review the latest coded development
2. Identify ways to modify a facility
3. Explain how to meet the approval of the local authority who has jurisdiction

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W4.45 • Room: 345

Integration of Battery Technology to Optimize CHP Economics

Presenter(s): Terence Waldron, President, Waldron Engineering & Construction

Recent advancements in utility scale battery systems have opened up the possibility of integration into combined heat and power facilities. Batteries now allow for the construction of Hybrid CHP plants that can better respond to the variable load of a facility. In this session,

the theory of integration of batteries into the operating dispatch model will be covered, as well as the electric service contingency analysis. The presenter will discuss technical challenges associated with integration and the operational considerations of using a hybrid generating system. All of the discussion will center on the Halletts Point project, a new 2.5 million square foot residential development that consists of five individual towers. The CHP based Microgrid serves the complex with electricity, hot water and chilled water.

LEARNING OBJECTIVES:

1. Explain a Hybrid CHP plant
2. Describe the impact on emissions from a Hybrid CHP plant
3. Identify technical challenges associated with the integration of a hybrid generating system
4. List the operational considerations of a hybrid generating system

AUDIENCE: INTERMEDIATE CEU: 0.1

Internet of Things

W4.47 • Room: 347

Streamlining the Lighting Controls Installation and Commissioning Process

Presenter(s): Kathryn Caspar, Vice President and General Manager, Synapse Lighting Controls

Installation and commissioning of wireless lighting controls can be extremely frustrating and time consuming. In the past, lighting controllers were manually enabled into the control software. Things have changed and new tools are available. Discover how mobile application support for commissioning can offer cloud connectivity and grant remote access to the lighting controls so that commissioning can occur "anytime, anywhere." Responsive web design and other technological advancements are making it possible for an auto-provisioning system, where wireless lighting controllers automatically bring up the network and "phone home," to come online.

LEARNING OBJECTIVES:

1. Learn how the use of mobile apps can reduce the commissioning and activation time of your commercial lighting projects
2. Understand how the utilization of platform-level network technologies make the discovery of new lights easier, reducing the time required to setup a new lighting network

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

W4.49 • Room: 349

CYA: Covering Your ADA

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

This session will bring to light some of the commonly missed and misunderstood requirements of the ADA. Facility managers will learn common ADA barriers and which barrier removals are essential to your facility. This program will arm you with action items that will make your facility less vulnerable to complaints.

LEARNING OBJECTIVES:

1. Learn the number one lawsuit generator related to the ADA
2. Know the most common ADA barriers
3. Understand which version of the ADA applies to your facility
4. Understand what is allowed tolerances

AUDIENCE: BEGINNER CEU: 0.1



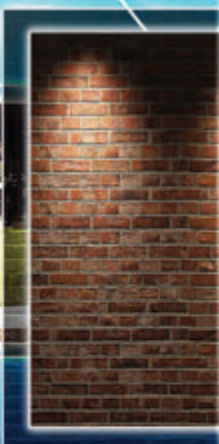
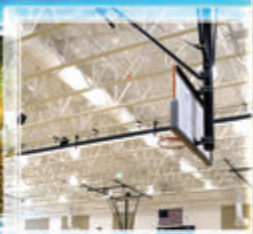
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General Session: Thursday

8:00-8:50 am

Maintenance and Operations
RG.16 • Room: 316

Surviving in the Cruel War of Cost Cutting: How to Expand Your Breadth and Influence

Presenter(s):



*Jacob Kashiwagi,
Assistant Researcher, Arizona State University,
School of Sustainable Engineering and the Built Environment
Performance Based Studies Research Group*

Budgets will continue to be slashed. Technology complexity is on the increase. The quality of delivered services is on the decline. What has value and what does not have value? The FM is too busy to be educated and be an expert in every new technology. The latest FM management research encourages FMs to think less, make fewer decisions, and be recognized as a genius who uses simplicity, transparency, and the language of metrics. The bottom line, allow the utilization of expertise to lower our costs, deliver quality, minimize stress, and save the FM profession.

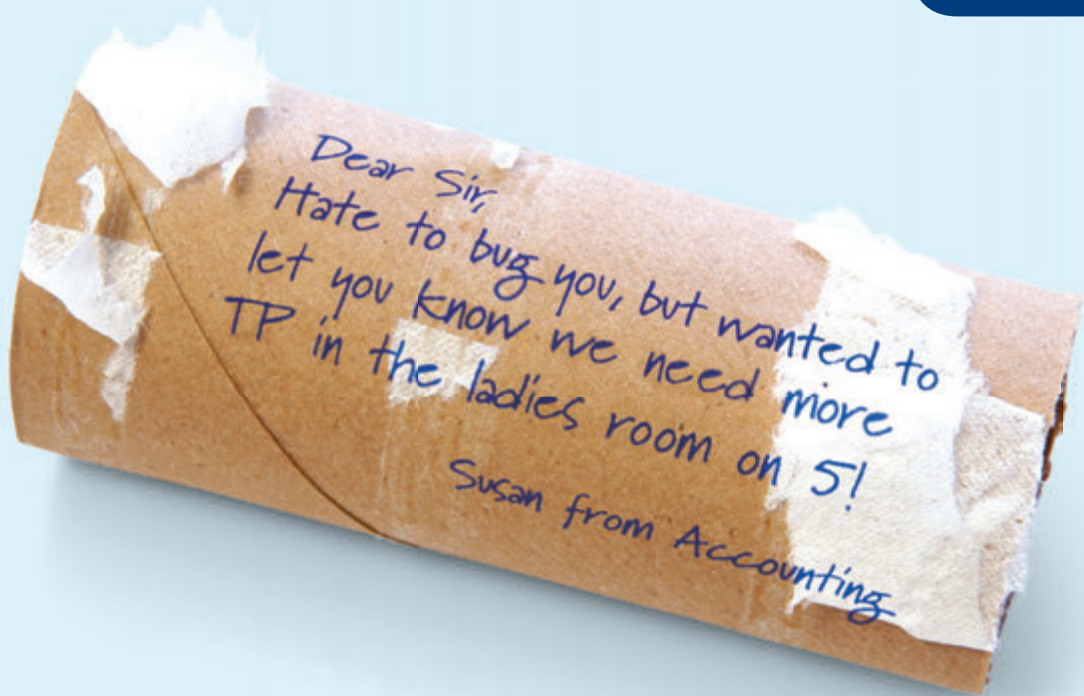
LEARNING OBJECTIVES:

1. Minimize decision making, management, direction and control [MDC] and endless meetings
2. Understand how to identify and hire the expert vendor
3. Describe how to identify & eliminate the non-expert vendor even if they are lowest bidder
4. Learn to lead a vendor without having to manage, direct and control them

AUDIENCE: BEGINNER CEU: 0.1



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Conference Sessions: Thursday

9:00-9:50 am

Maintenance and Operations

R1.18 • Room: 318

Eyes in the Sky: Drones in Facility Management

Presenter(s): Dennis McCann, Ph.D., P.E., Principal Engineer, CTLGroup

Michael Petermann, RA, FASTM, Principal, Wiss, Janney, Elstner Associates, Inc.

Moderator: Dan Hounsell, Editor, Facility Maintenance Decisions Magazine

Drone technology offers a host of potential benefits to maintenance and engineering managers looking for new technologies and tools that can enable them to keep a close eye on the condition and performance of institutional and commercial facilities. Drones, or unmanned aerial vehicles (UAV), give managers and front-line technicians views of facilities materials and components that previously were not available. To meet this growing demand, more consulting engineers now offer drone consulting services for everything from facade and roof inspections to security surveillance. Managers considering the use of drones to support maintenance and engineering activities need to address a series of questions and challenges in order to maximize the investment in UAV technology. This session will walk attendees through these key considerations so they can make decisions that benefit both facilities and the bottom line.

LEARNING OBJECTIVES:

1. Identify the most common and beneficial facility applications for UAV technology
2. Understand regulations governing the use of drones
3. Choose a provider of drone services that can help managers address facility needs
4. Turn results of drone services into tangible benefits for the organization.

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

R1.21 • Room: 321

When FM Leaders Fail

Presenter(s): Stormy Friday, MPA, Hon. FMA, IFMA Fellow, President, The Friday Group

We propel FM professionals into leadership roles. After all, what more could they want than the corner office, big staff, access to the C Suite, and influence over corporate asset management policy? Yet, the very characteristics that strengthen FM leaders also may cause them to fail. What should happen when FM leadership fails? This session identifies the warning signs of failing leadership and provides a roadmap for taking corrective action.

LEARNING OBJECTIVES:

1. Identify the warning signs of failing FM leadership
2. Determine who should be involved for problem solving and action planning
3. Create an action plan to correct failing leadership
4. Assess long-term impact of failing leadership on FM organizations

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

R1.24 • Room: 324

Fire Alarm/Suppression Systems: Reducing Problems, Lowering Cost

Presenter(s): Rick Reynolds, Vice President of National Accounts & Southern Region Operations Manager, ORR Protection Systems
Are your fire alarm/suppression systems friend or foe? Fire protection systems are installed to protect people and property, but all too often they become a problem because of false alarms or costly service calls at the most inconvenient times. This session is designed to help you reduce, if not eliminate, the top five fire alarm/suppression system problems. You will learn WHY they happen and WHAT to do to fix current problems or avoid future ones. By the end of this session, you will have specific steps you can implement to reduce costly emergency service and rid yourself of those nuisance false alarms. Additionally, you will finally understand what the fire code requires for inspection, testing and maintenance of your fire protection systems, saving you valuable time, money and maybe someone's life someday.

LEARNING OBJECTIVES:

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

AUDIENCE: BEGINNER CEU: 0.1

Energy

R1.27 • Room: 327

Understanding the Benefits of Delivering Energy Usage Data to the End User

Presenter(s): Troy Hull, Director, Metering Solutions, Obvious
Discover how submetering systems maximize efficiency, reduce waste, and help in understanding how to better manage energy in both commercial and residential properties. Attendees will gain an understanding of the opportunities that submetering affords in new and retrofit properties, and how to develop strategies using today's technology to maximize the benefit of the investment. Join us for a greater perspective of the benefits and challenges of submetering, energy monitoring, tenant billing, and code requirements. Learn about best practices and how to select meters and data acquisition solutions to meet sustainability goals and objectives that deliver energy savings to your customers.

LEARNING OBJECTIVES:

1. Gain an understanding of metering and data acquisition principles for a wide variety of commercial and residential facility applications
2. Review how to understand and apply energy submetering requirements as it relates to building codes
3. Learn how to quickly identify data acquisition and data management requirements
4. Comprehend how to match best technology fits to meet submetering requirements to maximize the benefit of the investment

AUDIENCE: BEGINNER CEU: 0.1

Thursday

Healthcare Facilities Today

R1.30 • Room: 330**BIM Lifecycle Case Study***Presenter(s): Scott Cloud, Regional Director of VDC, Brasfield & Gorrie**Ryan Roberts, Regional VDC Manager, Brasfield & Gorrie
Meghan Ruffo, Contract BIM Manager, Carolinas HealthCare System
Tracie Sansavera, LEED AP BD+C, Project Manager, Wright McGraw Beyer Architects, p.a.*

Carolinas HealthCare System, Brasfield and Gorrie, and WMBA will review a case study showing the process and lessons learned using Building Information Modeling from existing facility documentation, to project inception, and back to facilities management. The team will review the benefits of project processes such as multi-team member collaboration, clash detection, and owner BIM standards that helped with the renovation process, as well as ensure the model quality for use in facilities management. The team will also describe their use of innovative technologies such as laser scanning, custom Revit add-ins, and digital closeout to assist with project delivery and owner data needs. The owner, architect, and contractor team will conclude with the overall benefits of using BIM on renovation projects and keeping an accurate as-maintained model for owner use.

LEARNING OBJECTIVES:

1. Understand use of Building Information Modeling project standards to support facilities management data needs and requirements
2. Understand use of virtual coordination to minimize rework and shorten planned downtime in renovation projects
3. Gain insight into industry technologies such as laser scanning and custom programs that aid the overall BIM development

AUDIENCE: BEGINNER CEU: 0.1

Public Sector Trends

R1.37 • Room: 337**How the Federal Government Is Approaching Facilities Management in the 21 Century***Presenter(s): William Appling, CHFM, CHSP, HEM, MPM, Facilities Management Director, Sodexo**Charles Dille, Managing Director, The Building People
Moderator: Greg Zimmermann, Executive Editor, Building Operating Management Magazine*

From the Better Buildings program to the 2030 Challenge to a suite of executive orders, the federal government is advancing awareness and adoption of energy efficiency measures throughout its facilities portfolio. During this session, hear from our panel of experts about how the past decade will shape the future strategic priorities for the federal buildings and their operators.

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

R1.39 • Room: 339**Capital Planning 101***Presenter(s): Larry Morgan, CFM, SFP, Head of Operational Excellence and Sustainability Initiatives for North and Latin America, SAP Global Facilities Management, Americas*

For many facilities managers capital planning can seem like a very overwhelming process to tackle. Any capital planning process will need to capture the best value for the investment. Attend this session to learn the best first steps to take to develop a three, five or

10 year capital plan.

LEARNING OBJECTIVES:

1. Understand the key steps you'll need to take to begin the capital planning process
2. Review the information you'll need to capture before tackling a capital plan
3. Comprehend the how to calculate the ROI on your investment.

AUDIENCE: BEGINNER CEU: 0.1

Sustainability

R1.41 • Room: 341**Reflective Roof Coatings: Cool Roof Stories***Presenter(s): Joe Sorrentino, Government Sales and Special Projects Manager, UNIFLEX Fluid Applied Roof Systems, a Division of Sherwin Williams*

This presentation discusses the key benefits and the environmental importance of reflective roof coatings used on low-slope roof systems. The science behind reflective roof coatings is presented in an easy to understand format, and real-world case studies are presented to illustrate the information presented.

LEARNING OBJECTIVES:

1. Understand the benefits that reflective roof coatings impart on low-slope roof systems
2. Recognize why reflective roofs are environmentally important and comprehend the science behind how reflective roofs save energy
3. Determine best practices for preparing a roof membrane and application methods for reflective roof coatings on low-slope roof systems
4. Identify payback, energy savings, and other non-quantifiable benefits by evaluating several real-world roof-reflectivity case studies

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

R1.43 • Room: 343**Tax Incentives for Facility Improvements***Presenter(s): Jacob Goldman, LEED AP, Vice President, Energy Tax Savers, Inc.*

This presentation is designed to explain building tax incentives from the Energy Policy Act (EPAct 179D), new HVAC repair regulations, and cost segregation. We will discuss how building owners and managers can strategically use the above-mentioned incentives to significantly decrease the amount of time it takes to recoup their investment on building equipment, particularly those items related to the energy systems in the building.

LEARNING OBJECTIVES:

1. Review the current tax incentives related to energy efficiency
2. List current tax incentives related to one for one HVAC replacements
3. Name current tax incentives related to new buildings and real estate transactions
4. Legislative update on existing and proposed tax incentives related to buildings

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday

Leadership and Career Advancement, Maintenance and Operations

R1.45 • Room: 345

Proactive Project Management: Managing Beyond the Obvious

Presenter(s): Joseph D. Rogers, P.E., Senior Staff Engineer, Simpson Gumpertz & Heger Inc.

David Slick, Associate Principal, Simpson Gumpertz & Heger, Inc. Keith B. Nelson, Project Engineer, Simpson Gumpertz & Heger, Inc.

Proactive project management in the design and construction environment includes diligent control of such basics as schedule and budget. Successful project managers also keep close tabs on internal employee activities, as well as the progress of external team members, while managing the expectations of the owner. This presentation is an informative study that reviews the basic tenets of project management as applied to several projects, then delves deeper into the less obvious factors that can complicate or even derail project completion. The presenters will discuss their implementation of proactive project management techniques during the design and construction process, will cite specific examples from several challenging projects, and will augment this presentation by intertwining visually interesting subject matter into the discussion.

LEARNING OBJECTIVES:

1. Understand the importance of managing project schedule and budget
2. Recognize the less obvious factors that can complicate or even derail project completion
3. Identify management techniques to unify team collaboration
4. Show that there is no substitute for persistence and determination to meet challenging project intricacies while never losing sight of the project goal

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

R1.47 • Room: 347

Door Hardware: Service & Maintenance

Presenter(s): Russell Corriveau, Training Development Manager, ASSA ABLOY

Locking hardware is a big challenge for facility maintenance personnel. This demonstration and lecture will give attendees a look inside door hardware including function and operation of door closers, service and adjustment of vertical rod exits, how to shim a door for plumb, level and squared, and present a detailed explanation of lock functions, trim and finishes.

LEARNING OBJECTIVES:

1. Describe the selection process for locking hardware
2. Understand proper operation of door closers
3. Review exits and locks
4. Discuss how doors are shimmed for proper alignment

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

R1.49 • Room: 349

Protecting Your Facility from Power Failure

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

This session will provide an overview of the reasons for the increasing rate of utility power failures and the challenges facing facilities during power failures. Loss of electrical power has many implications: closing a facility for the duration, security issues, lost production, loss of perishable goods, physical discomfort, etc. Many facilities are protected from costly power failures by emergency

or back-up generator sets. The Electrical Generating Systems Association (EGSA) will present important information to facility managers who have invested in, or who are considering investing in an emergency generator set.

LEARNING OBJECTIVES:

1. Understand reasons for the increasing incidents of utility power failures
2. Review the selection of emergency generator sets
3. Learn some important considerations regarding a generator set installation
4. Understand how EGSA's educational programs can be a valuable resource for facility managers

AUDIENCE: BEGINNER CEU: 0.1

10:00-10:50 am

Leadership and Career Advancement

R2.18 • Room: 318

Help me...I have fallen into FM and cannot get up!!

Presenter(s): Teena Shouse, CFM, IFMA Fellow, President, FM Transition

Peter Stroup, PE, Director of Facilities, Harvard Medical School

This two-person interactive panel discussion will utilize a case study from the FM Department of Harvard Medical School to demonstrate what happens when true collaboration takes place. Peter and Teena will share the owner's perspective as well as the consultant's position in diving deep into a fully outsourced operation. They will describe how asking the tough questions and being totally forth coming and honest with one another lead to FM operational improvements. They will share ideas of how to begin and continue the journey of successfully removing the barriers which may exist in helping you get "up and ahead" in FM after falling into the profession or into a tough operations position. They will explore how they identified alternatives in everything from improving SLAs to contract management strategy which built the foundation of a great working relationship and subsequent improved operations.

LEARNING OBJECTIVES:

1. Create and execute a successful, boundless working relationship with your consulting partners
2. Identify the barriers which may be holding you back from achieving FM operational excellence
3. Determine the proper steps in resolving complex outsourced performance issues
4. Better define how to collaborate to innovate new operational solutions

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership and Career Advancement

R2.21 • Room: 321

Lean Leadership in Real Estate and Facilities

Presenter(s): Matthew Young, Senior Manager, Real Estate, Conway Freight

Conway Freight's Real Estate and Property Management team directs operations, maintenance and capital programs for 400+ properties nationwide for 24/7/365 customer service and asset optimization. The department fully embraced the corporate LEAN initiative to streamline processes, shrink waste, improve responsiveness

Thursday

and increase operational readiness. Management invested in leadership training, communication, data reliability and compelling documentation to set priorities and drive executive decisions on resource use and asset investments. The payoff: customer raves, executive credibility, increased investment in facilities.

LEARNING OBJECTIVES:

1. Discuss the basic elements of capabilities, context and commitment that enable LEAN standards and principles to take root
2. Standardize work for leaders: discipline and accountability for managers, supervisors and team leaders
3. Learn about continuous improvement by discussing the 7 Step problem-solving method

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations**R2.24 • Room: 324****Maintenance Operations at General Motors**

Presenter(s): Darrell X. Rounds, FMA, Manager - Maintenance & Industrial Cleaning, General Motors Company

Attend this session to learn how General Motors approaches Facilities Maintenance in a systematic and enterprise-based way. The mission is primarily three-fold: establish and execute the strategy for the maintenance sustainment of GM's facilities assets, buildings and infrastructures; develop practices that minimize system downtime, time spent on maintenance and cleaning, and overall indirect materials costs; and assist Facilities Maintenance Personnel at GM locations. To accomplish these goals we assist with the planning of future investment for the sustainment of facilities assets, assist site personnel in optimizing equipment uptime and ensuring acceptable standards of service, and provide technical assistance in analyzing and correcting building and infrastructure failure modes.

LEARNING OBJECTIVES:

1. Review GM's strategy for maintaining facilities assets
2. Understand how GM minimizes system downtime for maintenance and cleaning
3. Discuss how the GM facility team analyzes infrastructure failure modes

AUDIENCE: BEGINNER CEU: 0.1

Energy**R2.27 • Room: 327****Understanding Your Electric Bill to Lower Operating Costs**

Presenter(s): Paul Valenta, VP Sales and Marketing, CALMAC Average monthly commercial electricity bills in Maryland are nearly 69 percent greater than the national average, mostly due to HVAC operations occurring during peak demand hours. This session will explore the high-priced electricity market and use real-world examples to demonstrate how permanent load shifting lowers operating costs. In regions that have demand charges over \$10 per kilowatt each month, the price of electricity is likely more than twice as much during the day than at night. This also applies to "flat rates" due to demand charges, which serve as a peak-time adder for nonresidential customers with a bell-shaped load curve.

LEARNING OBJECTIVES:

1. Gain a deeper understanding of the energy saving programs offered in the region
2. Uncover the hidden savings in your utility bill
3. Gain a deeper understanding of your electric bill and how (kW)

demand significantly impacts energy costs

4. Learn from real world case studies how building managers are using permanent load shifting strategies to lower energy bills and reduce operating costs

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends**R2.37 • Room: 337****Leveraging Smart Building Technology to Drive Sustainability in Federal Buildings**

Presenter(s): Mark Ewing, Director, Energy Division, U.S. General Services Administration

Jay Fine, National Sustainability Program Manager, U.S. General Services Administration

Chip Pierpont, Director, Building Operations and Technology, U.S. General Services Administration

Smart buildings technology is a cornerstone of GSA's strategy to continually improve environmental performance in the operation of federally-owned buildings. This panel discussion will highlight GSA's smart buildings strategy, which includes such tools as advanced metering, virtual audits, analytics, fault detection and diagnostics, as well as a technology demonstration program. The session will examine how GSA's strategy drives energy efficiency and aims to improve management of multiple aspects of the workplace, with an eye toward enhanced indoor environmental quality.

LEARNING OBJECTIVES:

1. Learn about GSA's smart buildings business drivers
2. Identify the different components of GSA's smart building strategy
3. Discuss how the suite of programs under the smart buildings umbrella is driving energy efficiency
4. Understand how smart buildings tools can help identify opportunities to improve multiple aspects of the workplace that can lead to enhanced indoor environmental quality

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology**R2.39 • Room: 339****Implementing BIM for Owners**

Presenter(s): Jason Kunkel, Senior Applications Specialist, CADD Microsystems

This is the ideal session for building owners who want to better understand Building Information Modeling (BIM), why it is important to them, and the steps to start implementing. We will spend some time discussing BIM requirements, Level of Development (LOD), converting your buildings to models, maintaining as-builts, design and construction projects, and tying to your current Operations & Maintenance (O&M) systems.

LEARNING OBJECTIVES:

1. Gain a better understanding of how BIM applies to owners
2. Learn about the steps to take in order to start implementing BIM in your workflows
3. Understand BIM requirements, BIM project execution plans and levels of development
4. Learn about how BIM affects both design and construction, plus operations and maintenance

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday

Safety and Security

R2.41 • Room: 341**Effective Business Continuity Planning for the Facility Professional***Presenter(s): Bob Mellinger, President, Attainium Corp.*

Developing and managing a business continuity or disaster recovery plan is a daunting task. During this session, Bob will help to identify the 10 keys to a useful and effective business continuity plan. He will also discuss the priorities that should be reflected in a business continuity planning. Finally he will review the facility professional's role in the organization's business continuity plan.

LEARNING OBJECTIVES:

1. Understand the 10 keys to a useful and effective Business Continuity Plan
2. Review how priorities should be reflected in a Business Continuity Planning
3. Learn skills that can greatly increase ones ability to best manage a crisis
4. Clarify what the Facility Professional's role should be in the organization's Business Continuity Plan

AUDIENCE: BEGINNER CEU: 0.1

Technology

R2.45 • Room: 345**Capital Planning and Project Management: Moving Beyond Spreadsheets***Presenter(s): Randy Walsh, Director of Solution Engineering, AssetWorks LLC*

Organizations today have evolved beyond paper processes, and computers are an accepted tool in virtually all workplaces. Organizations first adopted spreadsheets and e-mail to manage large budgets and complex processes, and some organizations performed well under this paradigm. But are they really maximizing their resources? Have they made progress, or has the spreadsheet merely supplanted paper? Capital planning and project management is a complex activity that requires finesse and balance; it involves dynamic budget information, complicated funding, management of appropriations and allocations, contract management, submittals, RFIs, meeting minutes and more. This session will explore the potential for purpose-built software systems to improve data access, documentation of workflows and resulting outcomes, interoperability of information and the opportunity to take a holistic approach to asset management, from conception, through construction and throughout the lifecycle of the asset. Participants will learn not only about alternatives to spreadsheets for capital planning, project management and facilities management, but also about integration with BIM and the transition of that data from design to maintenance.

LEARNING OBJECTIVES:

1. Expose attendees to new technology paradigms
2. Encourage the modernization of data systems
3. Guide attendees in facilitating open communication between planning, construction and maintenance organizations and data flow between these organizations
4. Discuss BIM data exchange standards and opportunities to reduce resources needed to acquire and utilize data needed for facility operations

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

R2.47 • Room: 347**Transforming the Facilities and Infrastructure Industries into the Information Age***Presenter(s): Dana Smith, Partner, DKS Information Consulting, LLC*

The information age is upon us, yet just as with the industrial age — which took over 110 years to transition to full, information age transformation — it will take some time to occur. This is a worldwide transformation and some countries are doing far better than others.

The US is not currently one of the leaders in implementation. We are developing many tools that others are taking advantage of faster and more effectively. Just how big an issue is this for the facility manager and owner and what are we doing about it? Come to this session to find out.

LEARNING OBJECTIVES:

1. Identify the tools available
2. Stress the urgency of the issue
3. Identify opportunities of transforming
4. Analyze strategies for investing

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

R2.49 • Room: 349**The 17 Mistakes in Emergency Plans and How to Correct Them**

Presenter(s): Bo Mitchell, President and CEO, 911 Consulting Sandy Hook, Aurora, Colo.; and Hurricane Sandy emphasize that emergency planning for your organization is subject to many federal, state and local laws, regulations and standards. Most that are tasked with creating and maintaining emergency plans are confused or overwhelmed with regard to these standards. Understand what laws, regulations and standards apply to your emergency planning, training and exercises. Learn what a lawsuit will do to you if you don't create a plan to standard. Learn the 17 mistakes organizations make in creating their plans today and how to correct them.

LEARNING OBJECTIVES:

1. Understand which laws, regulations and standards control emergency plans
2. Learn how law suits affect you and your organization
3. Indicate the overriding attitude for managers in re-evaluating current planning
4. Identify how your own employees and clients may hurt your response to a disaster

AUDIENCE: INTERMEDIATE CEU: 0.1

2:10-3:00 pm

Maintenance and Operations

R3.24 • Room: 324**Embarking On the Journey to Reliability: Steps for Success***Presenter(s): Jeff Shiver, Managing Principal, People and Processes, Inc.*

You attend conferences and read the trade magazines. From a reliability-centered culture perspective, you know what the end game looks like. The problem is that you can't seem to get there from a step-by-step perspective. Join Jeff Shiver CMRP, CPMM, CRL as he provides insights along with the steps to get there. Immediately take the concepts back

Thursday

and apply them in your organization. As a practitioner, Jeff experienced the hard knocks doing it and as a consultant, has continuously refined the approach to help others get there.

LEARNING OBJECTIVES:

1. Understand the current state and build buy-in with a strategic plan
2. Discuss how to align the organization to transform the culture
3. Identify how to establish partnerships for success
4. Measure to swing the pendulum positively

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

R3.27 • Room: 327

ASHRAE and Building Commissioning: New Guidelines

Presenter(s): Michael C. English, PE, CCP, LEED-AP, Founder, Senior Partner, Horizon Engineering Associates

ASHRAE has published a new set of guidelines called "ASHRAE Guideline 0.2-2015, Commissioning Process for Existing Building Systems and Assemblies." The new guidelines outline a systematic quality-oriented process that improves the performance and sustainability of existing facilities. This includes planning, assessing, investigating, implementing, verifying and documenting performance to meet operational requirements. Guideline 0.2 provides engineers with the latest tools needed to address the growing market of commissioning existing buildings, which require improvements to reduce energy consumption, improve occupant comfort and increase operational efficiency.

LEARNING OBJECTIVES:

1. Understand the existing building commissioning process
2. Determine how ASHRAE's guidelines will help the EBCx process
3. Work through the different phases of EBCx
4. Explain how the EBCx process can be organized into a comprehensive set of activities and commissioning documents

AUDIENCE: INTERMEDIATE CEU: 0.1

Public Sector Trends

R3.37 • Room: 337

GHS: OSHA's Final Deadline - Last Call for Employer Compliance

Presenter(s): Brad Harbaugh, Editor, VelocityEHS

By June 1, 2016, OSHA expects millions of HazCom-covered employers to be in full compliance with its final GHS deadline. Manufacturer and distributor adoption delays and selective OSHA enforcement rules have created confusion in the supply chain. Additionally, enforcement statistics have shown that just complying with the basic tenets of OSHA's HazCom Standard remains challenging for many employers. Learn about these emerging GHS challenges and simple steps to ensuring compliance.

LEARNING OBJECTIVES:

1. Identify basic tenets of HazCom and the past and upcoming GHS transition deadlines and corresponding obligations
2. Recognize GHS adoption challenges throughout the chemical supply chain
3. Understand OSHA's recent compensatory inspector guidance for evaluating compliance during the HazCom/GHS transition
4. List best practices and actionable steps for managing safety data sheets, container labels, employee training, and chemical inventories to ensure compliance with the final deadline and beyond

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability

R3.39 • Room: 339

Advanced Retrofit Conservation Technologies

Presenter(s): Scott Milne, President, CEO, National Energy Technologies Resource conservation is a subject on the minds of many corporate planners for all of the right reasons. Advanced conservation strategies however, have not been widely utilized or accepted as main stream by many building operators and are greatly misunderstood. They research, test, validate and educate building owners on little known, rapid payback strategies that also protect equipment and health. These techniques provide a rapid return on investment, most below 24 months, without the need for government incentives.

LEARNING OBJECTIVES:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

R3.43 • Room: 343

Keys to Properly Maintaining Parking Garages

Presenter(s): Michael Sladki, Principal Engineer, ECS Mid Atlantic, LLC

Parking garages are often both the first and last impression a visitor has of your property, yet they are easily "forgotten about" when it comes to regular maintenance. While they lack the "sexiness" of a high end lobby, and often do not directly generate revenue, parking garages are a critical component of your facility. Properly maintaining them can help them withstand the harsh conditions that they are often subject to, while avoiding the high cost and inconvenience of major repairs.

LEARNING OBJECTIVES:

1. Review causes of garage deterioration
2. Understand preventive measures for garages
3. Learn the benefits of regular maintenance

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

R3.45 • Room: 345

7 Steps to a Risk-Free Project

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

Construction projects can carry a significant amount of risk in all phases. Facility managers are always asking themselves: Will the projects be in budget? Will the schedule be met? Will this actually solve the problem? Is this really the best value? Are we protected? From design and procurement to construction administration, there are many things that need to be done to ensure that you and your organization are protected. In this session, a panel will discuss the 7 steps to a risk-free project.

LEARNING OBJECTIVES:

1. Learn best practices for project execution and management
2. How to ensure executed scope solves the problem
3. Learn to keep project on schedule and in budget
4. Ensure best value through competitive bidding

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday

Safety and Security

R3.49 • Room: 349**Speech Privacy and Sound Masking in Modern Architecture***Presenter(s): Balazs Boldog, Field Sales Engineer, Cambridge Sound Management*

Recent research has found that current work environments are fulfilling the needs for collaboration and communication, but are doing a poor job of providing an acoustical environment conducive for productivity and speech privacy, and free from distractions.

This presentation will cover research on current satisfaction levels in workplace environments, current design trends and associated acoustic issues, and fundamental acoustic principles. An understanding of sound masking technology and what it can and cannot do will be provided and participants will leave with an understanding of how to identify interior design factors that will signal the need for sound masking and approaches to address the issues.

LEARNING OBJECTIVES:

1. Recognize the importance of acoustic privacy in the workplace
2. Describe the principles involved in the ABCs of good acoustical design
3. Understand what sound masking is and what role it plays in speech privacy
4. Identify some of the major design issues related to speech privacy in open offices, private offices, and healthcare facilities

AUDIENCE: BEGINNER CEU: 0.1

3:10-4:00 pm

Maintenance and Operations

R4.37 • Room: 337**5 Steps to Achieving Maintenance Operations Utopia***Presenter(s): Michael B. Cowley, CPMM, President, CE Maintenance Solutions*

Would you like to be in a world where top management and customers love the maintenance organization and its employees, or where you have more maintenance employees than you need, or where your computerized maintenance management system (CMMS) is perfect, and you love it, or your preventive maintenance program is great, it covers all equipment, and inspections are never late? Is this a completely different world than the maintenance world you live in? Trust me, it does exist in many organizations, and it is fun to work in that type of culture. In this session we will discuss five key issues to tackle to help achieve this maintenance utopia in your organization.

LEARNING OBJECTIVES:

1. Learn how to develop a preventive maintenance (PM) program
2. Review how to ensure accurate written work orders for all work
3. Understand how regular, scheduled maintenance planning and scheduling meetings can help with workflow
4. Review how often front-line supervisors should be in the field per day

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability

R4.39 • Room: 339**Build It Right the First Time: Building Envelope Commissioning/Retro-Commissioning***Presenter(s): Stephen Kisielnicki, RWC, CCS, LEED AP, Associate/Building Envelope Specialists/QC Manager, Gale Associates Inc.*

Building construction has become increasingly complex and the demand for "green" (i.e. water- and air-tight) buildings continues to grow. Once construction starts, the contractor is primarily focused on constructing the building in accordance with the drawings while remaining on schedule and within budget. Oftentimes, mistakes or oversights can take place during the installation and construction, resulting in a building that leaks air and water. Addressing the building envelope issues in the early stages of a building construction project saves money and time, and reduces liability for the design and construction team.

LEARNING OBJECTIVES:

1. Learn various phases and aspects of the building envelope commissioning and retro-commissioning process
2. Discover what makes a successful building envelope commissioning/retro-commissioning plan
3. Discuss issues and identify potential solutions typically encountered by owners during the building envelope commissioning process
4. Review the beneficial aspects of BEC for the maintenance and operation of the facility post occupancy

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

R4.41 • Room: 341**5 Key Metrics to Improve Your Facility's Operations***Presenter(s): Jeff Thompson, Co-Founder and Executive Director, AwareManager*

The key to improving any business process and operation is performance measurement. This session will identify key metrics that can help you improve your facilities operations and occupant satisfaction. It will cover the five key metrics that have the greatest impact on facility management performance and occupant satisfaction, a comprehensive data model for transforming data into actionable intelligence, technology strategies for getting the right information to the right people at the right time, and best practices for insuring operational transparency and stakeholder satisfaction. The presenter will focus on the above with practical uses cases and real world examples enabling attendees to gain immediate benefits for their own operations.

LEARNING OBJECTIVES:

1. Understand what processes and best practices must be in place in order to easily access the data needed for smart decision making
2. Learn five key metrics facility leaders should be using to understand overall building performance and identify key areas for improvement that impact occupant satisfaction
3. Gain new strategies for creating a comprehensive data model of your facilities to improve transparency and stakeholder communication

AUDIENCE: INTERMEDIATE CEU: 0.1

Thursday

Safety and Security

R4.43 • Room: 343**Workplace Violence + Active Shooter: It's About You, Your Management and Your People***Presenter(s): Bo Mitchell, President and CEO, 911 Consulting*

Any employer is 18 times more likely to experience workplace violence (WPV) than a fire at work. Sure, your management has a WPV policy. They're against it. But, there are no prevention protocols; no reporting procedures; no response procedures; no team created and deployed to command and control response; no training of employees. There has been a sharp spike in Active Shooter incidents, 70% of which occur in businesses versus campuses. There are standards and law re every employer's responsibility to protect and respond to WPV and how you are supposed to train employees.

LEARNING OBJECTIVES:

1. State the facts and myths of WPV
2. Understand the laws, regulations and standards that control policy procedures and training of WPV
3. Detail the research on active shooters
4. Describe the best way to train for WPV and active shooters

AUDIENCE: INTERMEDIATE CEU: 0.1

Maintenance and Operations

R4.45 • Room: 345**Facility Management: Top 5 Environmental Compliance Issues for Engineers and Managers***Presenter(s): Sally Atkins, Project Manager, All4 Inc.*

Managing a building and its equipment includes a wide-range of environmental considerations; it is critical to be aware of them in advance, instead of playing catch-up after a deadline has passed or equipment has been installed. This session will review five common environmental compliance areas to help increase awareness for facility engineers and managers. A high-level overview of the regulations will be discussed, as well as the common pitfalls to avoid and how to mitigate risk. The presentation will focus on real-world examples based upon consulting experience in facility management.

LEARNING OBJECTIVES:

1. Understand property managers/facility engineers' roles and responsibilities in maintaining environmental compliance
2. Describe the five most common environmental considerations
3. Identify applicable criteria and typical requirements
4. Learn about resources, tools, and best management practices that property managers/facility engineers can use to maximize their efforts to attain and sustain compliance at their facility

AUDIENCE: INTERMEDIATE CEU: 0.1

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Print Comes Alive at NFMT

Thank you to the editors of *Building Operating Management Magazine*, *Facility Maintenance Decisions Magazine* and *HealthcareFacilitiesToday.com* for their support of the NFMT conference. Make sure to check out the editor-moderated panels at the conference and visit booth# 905 for more information on these publications.



Renee Bassett
Vice President – Content
Development
*Young Professional: Advancing
Through Your FM Career*
Wednesday – 10:00 AM, Room 343

Edward Sullivan
Editor

*Achieving Excellence in
Facilities Management*
Tuesday – 9:00 AM, Room 321
*The Internet of Things: A
Guide for Facility Managers*
Tuesday – 11:00 AM, Room 331



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management



Dan Hounsell
Editor
*Eyes in the Sky: Drones
in Facility Management*
Thursday – 9:00 AM, Room 318

Greg Zimmerman

Executive Editor
*How the Federal
Government is Approaching
Facilities Management
in the 21st Century*
Thursday – 9:00 AM, Room 337



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Dave Lubach
Associate Editor
*May the FM Force Be with You:
What Star Wars Can Teach You
About Managing Facilities*
Tuesday – 8:00 AM, Room 316

Ron Kovach
Managing Editor



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Cathy Jakicic
Digital Brand Editor

Naomi Millan
Senior Editor
*Women in Facilities
Management 2016
Roundtable Discussion*
Wednesday – 4:10 PM, Room 316



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NFMT Vegas

Even after three, jam-packed days of NFMT, there is still a plethora of topics to cover and products to explore. NFMT Vegas gives you an opportunity to pick up where you left off by attending those sessions you couldn't fit in to your Baltimore schedule, or reconnecting with a peer you met at a previous event. NFMT Vegas is a complimentary two-day event that focuses on many of the same themes as NFMT like sustainability, leadership and career development, safety and security, and maintenance and operations.

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March 7-9, 2017
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Busch Systems is North America's leading manufacturer of recycling, waste and composting containers. Celebrating 30 years in 2015, Busch Systems has led the way with innovative container designs and develops more new molded recycling containers per year than all other manufacturers combined; all proudly made in North America. As part of our ongoing commitment to the environment, all of our products are 100 percent recyclable.



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Booth# 1705
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Auburndale, MA 02466
888-751-9100
www.dtz.com

C&W Services is one of the largest facility services companies in the USA and Canada with a 65 year history of helping clients drive down operating expenses, increase facility efficiency and uptime, enable strategic business decisions and create positive experiences for the people who work, shop, learn, live and play in the facilities we maintain.



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Booth# 2022
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Baltimore, MD 21227
410-242-4172
www.cnrlight.com

Originally established in 1870, CNR Lighting is your source for energy efficient lighting solutions for all commercial applications. CNR is a leading distributor partner facilitating over \$3 million in customer rebates on energy-saving lighting upgrades from local utility incentive programs. We know how complicated lighting systems can be. Call on our lighting expertise for your next energy-saving upgrade or new construction project.

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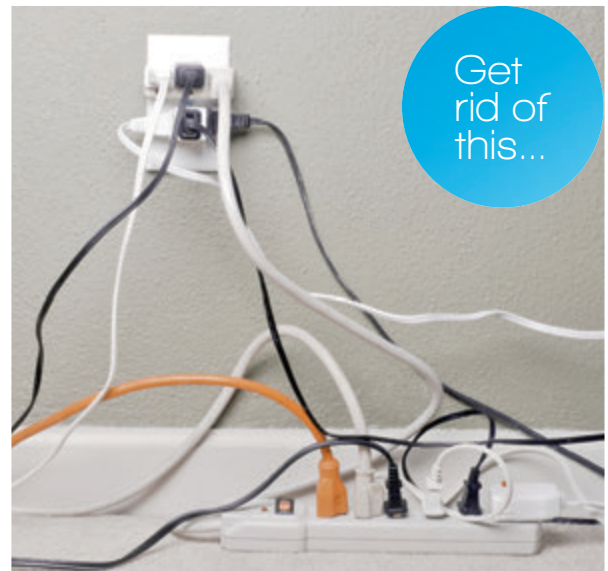
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www.cenergetix.com

Cenergetix's primary specialties are capturing utility rebates for customers to offset project costs while supplying the best energy and maintenance savings. Product agnostic, Cenergetix will evaluate customers' needs and provide the solution that fits those needs. While focused on lighting, Cenergetix is capable of processing rebate applications for multiple energy efficiency upgrades across the country.

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www.cptam.com

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www.crowcon.com

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www.daikinapplied.com

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www.davinciroofscapes.com

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www.ddproofing.com

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www.dematicsprocket.com

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www.detex.com

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www.directenergysolar.com/solar-for-business/control-your-energy-costs-with-solar

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678-595-6748
www.cooperlighting.com

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EH Commercial - Elliott Affiliates Ltd.

EH Commercial**Booth# 1112**

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www.efficienthomecommercial.com

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800-833-1212

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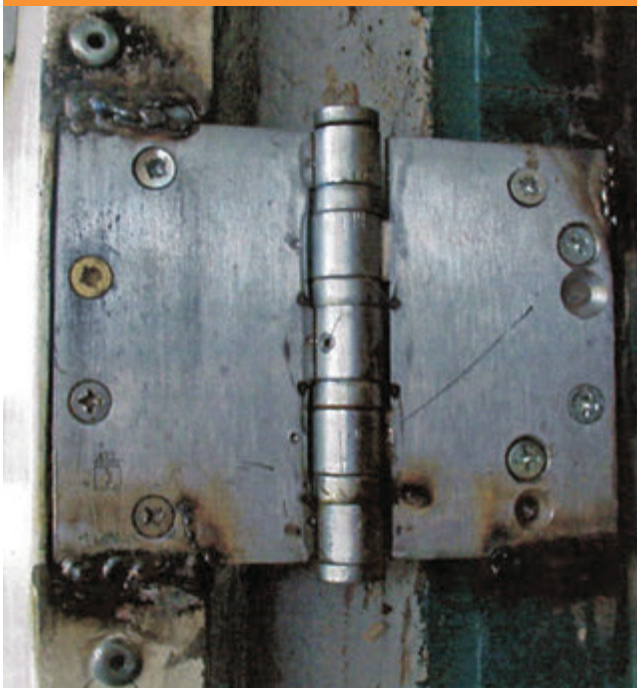
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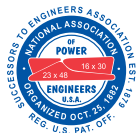
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www.nibs.org

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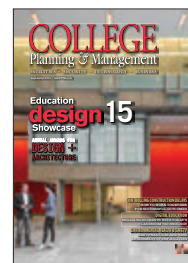
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SYLVANIA, a trusted leader in supplying innovative, energy-efficient and sustainable lighting solutions. Our products are designed to save energy, improve the quality of light and meet sustainability goals. We offer a comprehensive portfolio of energy-efficient LED T8 lamps and retrofit kits as well as ULTRA LED lamps and downlight retrofit kits.

Synapse Wireless

Booth# 1406
 6723 Odyssey Drive
 Huntsville, AL 35806
 256-924-7309
www.synapse-wireless.com

Synapse is an Internet of Things (IoT) company specializing in providing software, hardware, and networking solutions to develop, deploy, and manage the "things" in IoT. Synapse enables corporations, product companies, and business partners to make their products smarter and to manage products wirelessly, to include a full range of lighting control solutions that are flexible for both indoor and outdoor applications.

TAMKO Building Products Inc.

Booth# 2536
 220 W. 4th St.
 Joplin, MO 64801
 800-641-4691
www.tamko.com

TAMKO® offers its full product line including: Heritage® Series architectural shingles, 3-tab shingles, MetalWorks® steel shingles, Moisture Guard Plus® SBS-modified underlayments, SA Base and Cap self-adhered rolled roofing, Awaplan SBS-modifieds, EverGrain® and Evergrain Envision® composite decking, Marquee® and Tam-Rail® railing, ventilation, waterproofing, and cements and coatings.

Taylor Northeast Franklin

Booth# 2484
 1003 N Kresson St.
 Baltimore, MD 21205
 410-732-4900
www.tnefranklin.com

TNE Franklin is committed to providing quality cleaning equipment, service and solutions to businesses of all sizes. We provide service and rentals on all major brands of cleaning equipment. We are Nilfisk-Advance's premier dealer in the Maryland DC and Northern Virginia region. "We exist for and because of our customers. We are dedicated to their total satisfaction." - Chuck Krug, Founder.

Taylor-Dunn Mfg.

Booth# 2630
 2114 W. Ball Road
 Anaheim, CA 92804
 714-956-4040
www.taylor-dunn.com

From the day we shipped our first vehicle in 1949, we have pursued a singular goal: to build tough, rugged, dependable vehicles to move personnel, equipment, and materials. It's that simple. For more than sixty years, our standard and custom vehicles have

been the leading solution for customers. Our guiding principle is to provide application-specific solutions, which are reliable, efficient, and economical.

**Team Cam, LLC**

Booth# 2391
 701 Evelyn Ave.
 Linthicum Heights, MD 21090
 443-304-2237
www.teamcamservices.com

Team Cam is a multi-service commercial construction company that offers a wide variety of construction services to commercial property managers and building owners in the Baltimore/Washington Metro Area. Our core service divisions are: asphalt, concrete, tenant construction, waterproofing/caulking, interior/exterior painting, masonry, and pressure washing.

TEMP-AIR

Booth# 2147
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 Burnsville, MN 55337
 800-836-7432
www.temp-air.com

For over 50 years, TEMP-AIR has been America's leading provider of temporary, portable heating, cooling, dehumidifying and air filtration rental services. With 14 locations throughout the United States, service is available 24/7/365, nationwide. TEMP-AIR proudly manufactures TEMP-COOL portable industrial air conditioners which are available in 1-6 ton sizes.

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Booth# 1941
 860 Ridge Lake Blvd.
 Memphis, TN 38120
 901-597-7484
www.terminixcommercial.com

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Terracon

Booth# 2576
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 Charlotte, NC 37406
 704-509-1777
www.terracon.com

Facilities engineering and consulting services focused on facility condition, performance and system rehabilitation. Expertise in all facility systems from pavement to roofing and all systems in-between, including Facility Asset Management (FAM) Programs. Resource coverage from over 150 offices across the US with additional capabilities in geotechnical, materials testing and environmental

consulting. Clients appreciate Terracon's full service capabilities for their national facility portfolio needs.

Test Products International

Booth# 1510
 9615 SW Allen Blvd., Suite 104
 Beaverton, OR 97005
 503-520-9197
www.testproductsintl.com

Since 1997, TPI has been striving to offer the latest technology at the most affordable price to technicians, contractors, engineers and others seeking value based test and measurement instruments. Our mission is to become the leading independent manufacturer and supplier of low cost high performance industrial instrumentation.

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Booth# 2520
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 Pineville, NC 28134
 704-248-9888
www.teupen-usa.com

Compact, track-mounted, outrigger-supported aerial access platforms with working heights ranging from 42™ to 164™. The Teupen LEO Series was specifically designed to be compact and light for easy transportation and superior accessibility to jobsites with limited access and difficult terrains. The LEO is an excellent alternative to cumbersome scaffold solutions which greatly impact pedestrian traffic and normal workflows.

TimeMaster

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 Lexington, KY 40511
 859-259-1878
www.time-master.com

TimeMaster is a certified, global wholesale distributor of electronic locks, mechanical locks, safe deposit locks, door security, GSA approved products, tools, accessories, and more. Year after year, TimeMaster is considered one of the top distributors in the industry. With an Award-winning history and a reputation for quality, TimeMaster is the best choice for your security needs.

TMA Systems LLC

Booth# 2222
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 Tulsa, OK 74135
 800-862-1130
www.tmasystems.com

TMA Systems is a provider of maintenance management software and computerized maintenance management systems. Our solutions assist facilities in effectively accounting for, maintaining and extending the life of physical assets. With TMA Systems, you have the ability to manage your workflow process from planning stage to the completion of the job.

Tomcat

Booth# 2459
 1711 South St.
 Racine, WI 53404
 800-450-9824
www.tomcatequip.com

Tomcat manufactures 40 varieties of battery powered, floor sweepers/scrubbers, including walk-behind sweeper and rider models and a battery

TOMRA Compaction - TriTechnologies

burnisher line that rivals any propane one. Tomcat machines are all manufactured in Wisconsin, U.S.A. They are sold through some 140 Global Tomcat dealer locations.

TOMRA Compaction

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www.tomra.com

TOMRA Collection Solutions offers reverse vending machines for used beverage container collection/redemption, compactors and balers for waste reduction/recycling, and material recovery for processing/recycling.

Total Asphalt

Booth# 2364
66 Murray Place
York, PA 17403
888-735-8868
www.totalasphalt.com

Total Asphalt Inc. are consultants and pavement solution providers. We provide pavement condition survey reports and life cycle cost benefit analysis, create strategy, manage and apply high performance treatments. Meet the goals of preservation, improved condition, slow rate of deterioration, reduce life cycle cost. Total Asphalt ... where science meets the road.

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Waterford, MI 48329
800-852-6660
www.totaldoor.com

Total Door was the pioneer and is now the global leader in the integrated door assembly industry. Total Doors can be found in hospitals, schools, government and office buildings, shopping centers, hotels and many other buildings around the world. The patented door system has fewer moving parts, reduced maintenance costs, simpler installation, unbeatable reliability, unmatched security and lower costs.

Total Security Solutions

Booth# 2254
170 National Park Drive
Fowlerville, MI 48836
800-513-1468
www.tssbulletproof.com

Total Security Solutions designs, builds, and installs bullet proof barrier systems that blend seamlessly into any environment. We partner with municipalities, banks, schools, and private businesses to deliver customized security solutions, including bullet proof doors and windows, as quickly as possible. Because we value customer service above all else, we never settle for 'good enough.'



TownSteel Inc.

Booth# 2100
17901 Railroad St.
City of Industry, CA 91748
626-965-8917
www.townsteel.com

TownSteel Inc. is a proud member of BHMA and a manufacturer of architectural builders hardware for over 25 years. A full line manufacturer offering ANSI grade 1 mortise locks, cylindrical locks, door closers, exit devices. Specializing in ligature resistant locks, designer locks, and electronic locks. TownSteel also offers a complete line of accessory hardware, hinges, and custom pulls. All designed to meet your budget!

TPC Trainco Inc.

Booth# 2531
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Englewood, CO 80112
303-531-4560
www.tpcrainco.com

TPC Trainco provides training, safety and efficiency solutions for facilities, plants and buildings. TPC Trainco is the leader in maintenance training conducting thousands of public seminar or private on-site training sessions in hundreds of cities each year.



Trane

Booth# 2309
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Charlotte, NC 28208
800-755-5115
www.trane.com

Trane, a business of Ingersoll Rand, is the world leader in creating and sustaining safe, comfortable and energy efficient environments. Trane Building Advantage is a portfolio of energy services and solutions that turn buildings into business advantages by helping facility professionals realize outcomes that matter.

Tremco Roofing and Building Maintenance

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www.tremcoroofing.com

Through Tremco Roofing's patented, performance-based contracting process, we manage your capital assets by providing customized building envelope solutions that prevent water entry, improve energy efficiency, reduce risk and minimize life-cycle costs while assuming complete responsibility for the project. We are also a leading supplier of environmentally-friendly roofing solutions including vegetated roofs and a variety of ENERGY STAR certified roofing systems.

Tri-Chem

Booth# 1700
431 Stephenson Highway
Troy, MI 48083
800-456-6255
www.tri-chem.com

Tri-Chem Corporation is a group of highly knowledgeable experts in the fields of facility maintenance, repair and safety. For over 4 decades, we have helped thousands of small to large companies solve their most routine and complex maintenance issues. That's why we say "Bring It On" when companies have a problem they think can't be solved.

Tri-M Group LLC

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204 Gale Lane
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610-444-1000
www.tri-mgroup.com

50 year track record serving blue chip companies, hospitals and universities all around the Mid-Atlantic. Our exceptionally well-qualified staff and our proven safety record have made us a trusted partner for some of the world's best known organizations. high voltage, electrical services, building automation, network services, security, communications, and private cellular networks.

Triacta Power Solutions LP

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613-256-2868
www.triacta.com

Triacta Power Solutions designs and manufactures advanced metering solutions for energy management and tenant billing applications in multi-unit commercial, institutional and residential buildings. Triacta meters are CDEA certified, Measurement Canada approved and independently verified to ANSI C12.20 Class 0.5 standards. An open systems, standards-based approach means easy integration into existing energy management, tenant billing, and building automation systems.

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www.trianglesign.com

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The most effective, environmentally friendly, and cost efficient pavement maintenance options. Asphalt rejuvenators penetrate the surface and reverse the chemical age by 4 years, preventing deterioration and extending the pavement life. They protect the

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surface from the harmful effects of fuel and water. Includes four-year performance warranty. Seamless infrared repair transforms old broken pavement into a seamless patch that lasts.

Trystar**Booth# 1926**

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www.trystar.com

Trystar is the leading U.S. manufacturer of generator and load bank docking stations used in applications with and without permanent generators on site providing options for critical power quick connection during outages or permanent generator failure. Trystar also manufactures portable power cable & power distribution and capable of providing an engineering and master electrician staff for support.

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440-476-7199

www.hoovercommercial.com

TTI has years of experience designing reliable and innovative cleaning solutions. This expertise and knowledge has helped to build a comprehensive line of ruggedly constructed commercial vacuums and floor care products to meet the high demands of any commercial cleaning task.

U.S. Department of State**Booth# 2561**

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1800 F St.
Washington, DC 20006
202-813-0810

www.sftool.gov/fedsat

GSA works at the intersection of buildings and people to help the federal government operate more efficiently and effectively by reducing its environmental impact. GSA partnered with DOE to launch the Federal Facilities Skills Assessment Tool (FED-SAT), an online tool for personnel affected by the Federal Buildings Personnel Training Act (FBPTA) to locate free training resources and demonstrate basic compliance.

UG-2**Booth# 2428**

One International Place
Boston, MA 02110
617-279-8100

www.ug-2.com

Our UG2 team is the nucleus that grew a New England based facility service provider into the second largest facility service provider in North America.

With 300+ years industry experience and 20+ years working together UG2 creates a family type relationship with our staff and clients in driving the next generation of facility services in the commercial, corporate, educational, retail, life science and industrial markets.

Ultra-Chem Inc.**Booth# 2583**

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Lenexa, KS 66214
800-451-0726

www.ultra-cheminc.com

Ultra-Chem Inc. is manufacturer and distributor of a full line of industrial specialty chemical products. With more than 300 products in our line we have the solution to all your facility's needs.

United Soybean Board**Booth# 1943**

4725 Yuma St., NW
Washington, DC 20016
202-363-0334

www.soybiobased.org

USB provides informational resources to public and private entities interested in learning about the variety of soy biobased products being offered by U.S. companies, ranging from cleaning and maintenance supplies to carpet backing to building construction materials to shop and motor pool items and how using these products can help lower petroleum use, reduce greenhouse gas emissions, and offer other potential environmental and health benefits.

Unlimited Restoration Inc.**Booth# 2355**

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Baltimore, MD 21213
410-327-3736

www.urinow.com

Unlimited Restoration gets you back to business after disaster. From our regional locations in MD/VA/DE/PA/GA/FL/TX, URI provides stabilization and containment, as well as water extraction, structural drying, technical cleaning, selective demolition, document restoration, odor control, temporary climate control, temporary roofing, mold abatement, indoor air quality testing, and complete reconstruction.

**MARYLAND****USGBC MD****Booth# 2659**

230 Schilling Green Circle, Suite 132
Hunt Valley, MD 21031
443-977-3457

www.usgbcmaryland.org

The U.S. Green Building Council (USGBC) is committed to a prosperous and sustainable future through cost-efficient and energy-saving green buildings. USGBC works toward its mission of market transformation through its LEED green building program, educational offerings, a network of chapters, the annual Greenbuild International Conference and Expo, the Center for Green Schools and advocacy that encourages and enables green communities.

VARIDESK**Booth# 1831**

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Coppell, TX 75019
800-207-2587

www.varidesk.com

VARIDESK designs and manufactures height-adjustable standing desks and accessories. Since starting up in 2013, VARIDESK has continued to expand its line of products and availability across the globe. VARIDESK is simple to purchase, set up and use, and most products can be shipped within 24 hours, making it an incredibly easy way to incorporate standing into the work day.

Veolia Environmental Services**Booth# 2444**

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Port Washington, WI 53074
804-399-3602

www.lamprecycling.veoliaes.com

Veolia North America 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. We invite you to register for free breaking environmental news today at: <http://lamprecycling.veoliaes.com/subscribe>.

**Versico Roofing Systems****Booth# 1616**

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Carlisle, PA 17013
800-992-7663

www.versico.com

As one of the largest single-ply membrane roofing system providers in the world, Versico continues to offer quality and expertise in the commercial roofing marketplace. For nearly 50 years, Versico has provided the low-slope, commercial roofing industry with the best customer service and most innovative, energy-efficient roofing solutions available. Versico's product offering includes EPDM, TPO and PVC roofing membranes and accessories.

Vertical Systems Analysis Inc.**Booth# 2496**

307 W. 36th St., 8th Floor
New York, NY 10018
800-989-5525

www.vsaconsulting.com

Vertical Systems Analysis Inc. (VSA) is an elevator and escalator consulting and engineering firm founded in 1986, based in New York, with offices in Chicago, Philadelphia and Miami and working nationwide. We handle everything from new construction and modernizations of existing equipment to third party test witnessing and maintenance audits. Contact us today to solve all your vertical transportation needs.

VFS Fire & Security Services - Wilmot Modular Structures Inc.

VFS Fire & Security Services

Booth# 2267

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Orange, CA 92805
714-348-2885

www.vfsfire.com

We are a full service national fire life and safety vendor that specializes in testing, inspecting servicing and maintaining fire alarm, sprinkler, special hazard and foam systems. What makes us so unique is that we partner with our clients and help them to improve and streamline their fire life and safety requirements with our state of the art inspection tracking system called LiNC.

Viconics Technologies Inc.

Booth# 2664

9245 Langelier Blvd.
St. Leonard, QC H1P 3K9
514-321-5660

www.viconics.com

Viconics simplified automation solutions are targeted primarily at the building 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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New York, NY 10001
877-999-1044

www.vivreau.com/

For nearly three decades, VIVREAU's sustainable water programs with on-site bottling systems, reusable glass bottles and now the new Vi tap dispenser have given our clients the ability to reduce their carbon footprint by eliminating the production, transportation and disposal of traditional, prepackaged bottled water.

VSC Fire & Security, Inc.

Booth# 1726

10343-A Kings Acres Road
Ashland, VA 23005
800-695-9596

www.vscfs.com

VSC Fire & Security, Inc., established in 1958, provides integrated fire protection, life safety and security solutions for and inspection of fire suppression, fire detection, fire sprinklers, alarms and security systems. We serve the mid-Atlantic and southeastern U.S. Our offices include Baltimore; Washington, DC; Richmond; Virginia Beach; Roanoke; Raleigh; Charlotte; Myrtle Beach; Charleston; Atlanta; Orlando; Tampa; Mobile; and Orange Beach.

Vuzix Corporation

Booth# 1305

25 Hendrix Road, Suite A
West Henrietta, NY 14586
973-714-6266

www.xoeye.com

The company's products include personal display and wearable computing devices that offer users a portable high quality viewing experience, provide solutions for mobility, wearable displays and virtual and augmented reality. Vuzix holds 42 patents and 15 additional patents pending and numerous IP licenses in the video eyewear field. The company has won the Consumer Electronics Show (or CES) awards for innovation for the years 2005 to 2015 and several wireless technology innovation awards among others. Founded in 1997, Vuzix is a public company (VUZI) with offices in Greater Rochester, NY, Oxford, UK and Tokyo, Japan.



Waterblasting Technologies

Booth# 2700

3170 SE Slater St.
Stuart, FL 34997
772-223-7393

www.waterblastingtechnologies.com

The Surface Hog Pavement Cleaner quickly and completely removes all types of dirt and debris from asphalt, concrete and other solid surfaces with the least amount of negative impact to the surface. The Surface Hog does its work using 7,250 psi water and a powerful vacuum recovery system, which leaves the surface clean and almost dry.

WaterSignal

Booth# 2506

510 Staghorn Court
Alpharetta, GA 30004
877-704-0980

www.watersignal.com

WaterSignal is a green technology company focused on water conservation. WaterSignal measures water flow in real time to detect leaks and monitor domestic meters, irrigation systems, and cooling towers for commercial, multifamily, medical and educational properties. WaterSignal is located in Alpharetta, GA, and currently has operations in 19 states.



WD-40 Co.

Booth# 2265

1061 Cudahy Place
San Diego, CA 92110
760-846-8152

www.wd40.com

WD-40 Company is a global marketing organization dedicated to creating positive lasting memories by developing and selling products which solve problems in workshops, factories and homes around the world. Our products are found under the sink, in the garage and in toolboxes of loyal fans in more than 176 countries around the world.



Weil-McLain

Booth# 1401

999 McClintock Drive, Suite 200
Burr Ridge, IL 60527
630-560-3700

www.weil-mclain.com

The SlimFit is the quickest, easiest solution for limited-space retrofits with small footprint, can be installed back-to-back, narrow, design allows unit to maneuver into existing spaces and areas with limited access, fully factory-assembled and tested for quick, on-site installation, easily integrates with older, non-condensing boilers, and increases efficiency by creating a hybrid system.

Werres Corp.

Booth# 1810

807 E. South St.
Frederick, MD 21701
301-624-8934

www.werres.com

We specialize in custom vehicles and alternative fuel vehicles for commercial and industrial facilities maintenance.

WGL Energy

Booth# 2357

8614 Westwood Center Drive, Suite 1200
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844-4ASKWGL

www.wglenergy.com

WGL Energy is a leader in efficient and environmentally-friendly energy technology solutions that provide electricity, natural gas, renewable energy and green products to customers across the United States.

Whittaker Co., RE

Booth# 2047

302 S. Croton Ave.
New Castle, PA 16101
800-422-7686

www.whittakersystem.com

Whittaker, an industry leader in Carpet Productivity™, specializes in superior interim carpet maintenance. Our SmartCare® Carpet System is a low-moisture soil encapsulation and pile lifting method, which greatly extends carpet life. It includes the Green Seal and Woosafe certified Crystal Dry Extra® chemistry and maneuverable, twin-cylindrical brush LOMAC® Machine. Easily eliminate spots with Whittaker's patented Carpet Roamer® spotting tool.

Wilmot Modular Structures Inc.

Booth# 1828

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800-966-8883

www.wilmotmodular.com

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The first shred resistant cleaning eraser. Commercial grade.

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855-498-5267
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The Witmer Group

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717-368-7608
www.thewitmergroup.com

The Witmer Group is a nationally recognized specialty and service contractor comprised of entities that perform masonry, restoration, waterproofing, and exterior coatings for large complex commercial, educational and institutional buildings throughout Pennsylvania, Maryland and Delaware. We have an allegiance to our customers, employees and strategic partners including architects, engineers, facility and property managers, private business owners, and general contractors.

**Wizard Software Solutions**

Booth# 1917
4147 N. Ravenswood Ave.
Chicago, IL 60613
773-832-0200
www.wizardsoftware.net

Wizard Software is the premier provider of productive and simple-to-use IWMS software for enterprise workgroups. Delivered cloud-based on premise, we offer integrated and mobile solutions for managing

real property assets, maintenance, capital projects and finance.

Woodfold Manufacturing

Booth# 2452
1811 18th Ave.
Forest Grove, OR 97116
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www.woodfold.com

Woodfold manufactures custom sized products to divide commercial, residential, and institutional spaces. Popular for sight, sound, and environment applications in hospitals, schools, churches, assisted living, public housing, university, retail, recreational vehicle, and modular buildings. Featuring accordion folding doors and partitions, hardwood roll-up doors, and specialty hardwood products. SFI and FSC woods available. Made in Oregon since 1957.

Wooster Products Inc.

Booth# 1701
1000 Spruce St.
Wooster, OH 44691
800-321-4936
www.wooster-products.com

Wooster Products is a USA manufacturer of anti-slip safety tape, coatings, stair treads, and nosings. Our branded products include Stairmaster, Flexmaster, FlexTred, AlumoGrit, Walk-a-Sured, and WP-70. Let us help you "make every step a safe one."

XOEye Technologies

Booth# 1305
322 Monroe St.
Nashville, TN 37208
615-979-0564
www.xoeye.com

XOEye is pioneering a renaissance in the way business with field service teams operate with its industrial-grade wearable technology solutions. It combines wearable computing devices equipped with custom applications and cloud-based software for an end-to-end solution that delivers real-time communication and efficiency solutions for both employee and customer.

XPOWER Manufacture, Inc.

Booth# 2571
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San Gabriel, CA 91776
626-285-3301
www.xpower.com

XPOWER's P-250NT fragranced ionizer offers a professional air mover with an air purifying anion switch and patented fragrance cartridge. The P-250NT quickly freshens a room with odor neutralizing negative ions and a refillable fragranced bead cartridge. Experience the revitalizing effects of negative ions within minutes as they quickly disperse to eliminate allergens, mold, pet dander, and other airborne pollutants.

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LOBOS is an intelligent platform for large buildings that saves energy, improves occupant comfort, provides fully-automated demand response and continuous commissioning.

ZipUp Ceilings

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www.zipupceilings.com

Zip-UP UnderDeck for residential applications at homes, condos, gated communities and other locations where high winds are of concern now meets every Florida standard for static and cyclic load tests of hurricane strength winds.

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Improve comfort, lower operating costs and reduce carbon footprint. Variable speed ZOO Fans gently mix the air eliminating hot and cold spots. The temperature at floor level is much more comfortable and HVAC systems run less. Comfort goes up, energy costs go down. Save up to 20-40 percent on your energy bill. Visit us at www.zoofans.com.

ZTS Inc.

Booth# 1924
5628 Wooster Pike
Cincinnati, OH 45227
888-796-2777
www.ztsinc.com

ZTS Inc. manufactures pulse load battery testers designed for use by anyone working with batteries or battery operated equipment. Ideal for battery management, inspection, cell matching, and critical application/mission pre-testing. Applications include fire/security, UPS, medical, industrial, military, lighting, telecom, mobility, access control, auto/marine/RV, and more.

Exhibitors by Product Categories

ACOUSTICAL SOLUTIONS/ SOUND MASKING

Allied Window, Inc.	2581
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Horton Automatics	2670
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Overly Door Co.	2655
Pritchard Brown LLC	2404
Sound Management Group LLC	2367

ADA PRODUCTS

Alarm Tech Solutions LLC	1823
American Standard Brands	1929
APCO Sign Systems	1612
ASSA ABLOY Americas	2009
Bobrick Washroom Equipment Inc.	1901
Crystal Lighting Corporation	2442
Door Closer Service Co. Inc.	2661
Ecoglo/Access Products	1600
ELKAY	2689
Fried Brothers Inc.	2044
Horton Automatics	2670
Howard Industries PRIME Sign Program	2115
InPro	2018
Kroy Sign Systems	2653
Mark's Plumbing Parts	1604
Marks USA	2609
Moen Commercial	1922
Oasis International	1507
Palmer Fixture	2665
Pavement Corp.	2515
People Signs	1628
Precision Concrete Cutting	2029
Precision Doors & Hardware LLC	2650
ProSiteAudit Simple Cloud Based Real Time Pavement Audits	2509
Quench USA, Inc.	1942
Safety Technology International, Inc. (STI)	2299
Saniflow Hand Dryer Corp.	2244
Security Door Controls	2249
Signsations LLC	1830
Sloan	2122
Stanley Access	2031
Woodfold Manufacturing	2452

AIR SYSTEMS

AeraMaxPRO	1811
Airus LLC	2221
Aquatherm	1605
AQUIS	1940
Belimo Americas	2629
Cold Point Corp.	1822
DuctSox	2540
Ductz	2471
Fresh-Aire UV/Triatomic Environmental Inc.	1517
Interior Maintenance Company Inc.	2141
Mechanical Ingenuity Corp.	2645
Multitherm Coils LLC	2517
Nortec Humidity	2023
Owens Corning	1733
PTM Manufacturing LLC	2456
Steril-Aire Inc.	2317
ZOO Fans Inc.	1722

ARCHITECTURAL AND ENGINEERING SERVICES

2-D As-Built Floor Plans	2633
Able Engineering Services	1516
AIA Baltimore	2551
Alarm Tech Solutions LLC	1823
AMS CAD + CAFM Solutions	1834
ARMM Associates Inc.	2242
Avetta (formerly PICS Auditing)	2142
Critical Power Testing & Maintenance	2488
DaVinci Roofscapes	2643
Easi File	2617
Electrical Safety Specialists	2027
EMG	2671
Facility Engineering Associates, P.C.	1939
Hager Companies	2648
ISES Corporation	2631
Leading Edge Safety LLC	2466
Lellyett & Rogers Company	2283
Melrose Enterprises Ltd.	2360
National Institute of Building Sciences	2686
Oasis International	1507
Owens Corning	1733
PS Doors	2555
RBI Solar	2336
ReachMaster, Inc.	1931
RSMMeans from The Gordian Group	2281
Sodexo	2565
Terracon	2576
USGBC MD	2659
Vertical Systems Analysis Inc.	2496

AUDIO VISUAL

Cambridge Sound Management	2155
Connectrac	1817

BACK-UP POWER

Aegis Energy Services	2226
ASCO	2109
Batteries Plus Bulbs	2369
Blue Team Restoration	2557
EnSync Energy Systems	2644
Gen-Tracker by Generator Solutions Inc.	1725
Kohler Co.	2209
Monico, Inc.	2623
National Purchasing Partners	2153
Pritchard Brown LLC	2404
RCI Technologies East	1729
Schneider Electric	1310
Summit Power, Inc.	2564
Trystar	1926

BENCHMARKING

Cenergetix, LLC	1945
EH Commercial	1112
Elliott Affiliates Ltd.	2356
ISSA - the Worldwide Cleaning Industry Association	2389
MD/DC APPA	1123
Quadlogic Controls Corp.	2546
ServiceChannel	1422
WaterSignal	2506

BIRD/PEST CONTROL

Bell Bird Control	2373
GutterBrush	2482
Schaper Painting	1801
Sealeze, A Unit of Jason	2673
Terminix International Company, LP	1941

BOILERS/WATER HEATERS

ABM Building Services	1301
Guardian CSC	2683
Multitherm Coils LLC	2517
National Elevator Inspection Services	2684
Navien Inc.	2620
Northeastern Supply Inc.	1927
Spirax Sarco Inc.	1710
Test Products International	1510
Weil-McLain	1401

BUILDING AUTOMATION/ SYSTEM INTEGRATION

24/7 Systems, Inc.	1325
Advanced Power Control Inc.	2416
Ameresco, Inc.	2542
Automated Logic Corp.	2302
Chesapeake Controls Inc.	2390
Chetu Inc.	1317
CleanAlert LLC	1323
Continental Control Systems LLC	2529
CyberLock Inc.	2585
Door Closer Service Co. Inc.	2661
Energy Dynamics	2639
EventBoard	1413
Facility & Building Automation Systems	1425
FacilityConneX	1319
FacilityDude	1527
FreeAxez LLC	2131
IDEAL Industries Inc.	2514
Keyper Systems	2550
Legrand	2614
M3T Corporation	2505
Miller Edge Inc.	1626
Monico, Inc.	2623
Obvius	1407
OME	1424
ONICON Inc.	1826
Optergy	1411
PropertyTrak	1423
Quadlogic Controls Corp.	2546
RBI Greehouses	2336
RBI Solar	2336
Reliable Controls Corp. USA	2421
Rexel	2415
Sapling Company Inc.	1629
Schneider Electric	1310
Sodexo	2565
SOMAX Inc.	1316
Trane	2309
Tri-M Group LLC	2275
Triacta Power Solutions LP	2547
VFS Fire & Security Services	2267
Viconics Technologies Inc.	2664
Yardi LOBOS	1304

BUILDING RESTORATION

2-D As-Built Floor Plans	2633
A-1 Flood Tech	2039
ACP-Acoustic Ceiling Products	1601
AcryLabs	2238
Aegis Resource Management	1506
Ames Research Laboratories, Inc.	2123
Apogee Enterprises Inc.	2654
Applied Comfort Products Inc.	2347
AQUIS	1940
Belbien	2667
Belfor Property Restoration	2473
Bell Bird Control	2373
Blue Team Restoration	2557
BULLDOG Roof Restoration Coatings	2481
CentiMark Corporation	2545
Covestro	2541
DaVinci Roofscapes	2643
Ductz	2471
Eastern Diversified Services Inc.	2560
Empire Today & #174;	2372
EMSL Analytical Inc.	2045
FLIR Systems Inc.	1916
Fresh-Aire UV/Triatomic Environmental Inc.	1517
Gaco Western	2594
Glidden Professional	1223
GSM Roofing	2026
HaVaco Technologies Inc.	2480
Industrial Caulk & Seal Inc.	2674
KOSTER American Corp.	1731
Leading Edge Safety LLC	2466
Melrose Enterprises Ltd.	2360
Mon-Ray	2259
North American Roofing Services Inc.	2572
Paul Davis National	2231
PBI Restorations	2464
Premium Spray Products - An Accella Brand	2143
Rainbow International Restoration	2666
RBI Greehouses	2336
RBI Solar	2336
ReachMaster, Inc.	1931
SaniGLAZE International LLC	2042
Schaper Painting	1801
SELECT Hinges/SELECT Products Ltd.	2455
ServiceMaster NCR	2340
SERVPRO	2573
Silverlining	2635
Square Scrub	1500
StructureTec Group	2457
Sunbelt Rentals	2327
Team Cam, LLC	2391
Terracon	2576
Teupen USA Inc.	2520
Tremco Roofing and Building Maintenance	1841
TriTechnologies	2384
Unlimited Restoration Inc.	2355
Witmer Group, The	2383
Wooster Products Inc.	1701
XPOWER Manufacture, Inc.	2571

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Able Engineering Services	1516
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Avetta (formerly PICS Auditing).....	2142
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Cleaning Services Group.....	2558
County Group Companies.....	2544
CP Rankin Inc. - Roof Management & Contracting.....	2349
Eastern Diversified Services Inc.....	2560
Elliott Affiliates Ltd.....	2356
Extrutech Plastics Inc.....	1824
Fire & Life Safety America Inc.....	2574
Interior Maintenance Company Inc.....	2141
Labor Finders.....	2528
Melrose Enterprises Ltd.....	2360
NaceCare Solutions.....	2350
National Elevator Inspection Services.....	2684
North American Roofing Services Inc.....	2572
Orr Protection Systems Inc.....	2521
RRC Consulting Group Inc.....	2038
RSMMeans from The Gordian Group.....	2281
Ruston Paving Co. Inc.....	2454
Silverlining.....	2635
Square Scrub.....	1500
Team Cam, LLC.....	2391
TOMRA Compaction.....	2036
TTI Floor Care North America.....	2256
U.S. Department of State.....	2561
UG-2.....	2428
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CARPET/CARPET FIBER/ CARPET CARE

A-1 Flood Tech.....	2039
BRAVO! Building Services Inc.....	2230
Cleaning Services Group.....	2558
Corporate Care.....	2476
Empire Today®.....	2372
Matting By Design.....	2376
MilliCare By EBC Carpet Services.....	2426
NaceCare Solutions.....	2350
Rainbow International Restoration.....	2666
ServiceMaster NCR.....	2340
SERVPRO.....	2573
Square Scrub.....	1500
Stanley Steemer International.....	2145
TTI Floor Care North America.....	2256
UG-2.....	2428
Whittaker Co., RE.....	2047
XPOWER Manufacture, Inc.....	2571

CEILINGS

ACP-Acoustic Ceiling Products.....	1601
Extrutech Plastics Inc.....	1824
HaVACo Technologies Inc.....	2480
Parkland Plastics.....	2567
ZipUp Ceilings.....	2553

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Chemours.....	1735
Cleaning Services Group.....	2558
Green Seal Inc.....	2344
Mobile-Shop Co.....	1919
Nalco, an Ecolab Company.....	2345
Rust-Oleum.....	1522
San Jamar.....	2657
Taylor Northeast Franklin.....	2484
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Ultra-Chem Inc.....	2583
United Soybean Board.....	1943
WD-40 Co.....	2265
Whittaker Co., RE.....	2047

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Capitol Asset Recovery, Inc.....	2458
Connectrac.....	1817
Contact Wireless.....	1404
FacilitiesNet.com.....	905
FreeAxez LLC.....	2131
Mainline.....	2676
Motorola by AlphaComm Wireless.....	1419
NFS Technology Group creators of Rendezvous and Workspace Solutions.....	1322
Siemon.....	2628
Tri-M Group LLC.....	2275
Vuzix Corporation.....	1305
Wizard Software Solutions.....	1917

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Applied Comfort Products Inc.....	2347
archSCAN LLC.....	2656
ARMM Associates Inc.....	2242
ASI.....	2351
Avetta (formerly PICS Auditing).....	2142
Bartlett Tree Experts.....	1837
Belco Pipe Restoration.....	1717
Blue Team Restoration.....	2557
Chamberlain Contractors Inc.....	2041
CORT.....	2365
County Group Companies.....	2544
CP Rankin Inc. - Roof Management & Contracting.....	2349
DaVinci Roofscapes.....	2643
Eastern Diversified Services Inc.....	2560
EMG.....	2671
Labor Finders.....	2528
Lellyett & Rogers Company.....	2283
National Fire Sprinkler Association.....	2681
Precision Concrete Cutting.....	2029
RBI Solar.....	2336
Reuter & Hanney Inc.....	2556
Ruston Paving Co. Inc.....	2454
SERVPRO.....	2573
Silverlining.....	2635
Sodexo.....	2565
Vertical Systems Analysis Inc.....	2496
Wilmot Modular Structures Inc.....	1828

CONSULTING

2-D As-Built Floor Plans.....	2633
Alarm Tech Solutions LLC.....	1823
AMS CAD + CAFM Solutions.....	1834
APCO Sign Systems.....	1612
archSCAN LLC.....	2656
Bell Bird Control.....	2373
Browz.....	2626
CE Maintenance Solutions LLC.....	2037
Cenergetix, LLC.....	1945
Electrical Safety Specialists.....	2027
Elliott Affiliates Ltd.....	2356
EPAC Software Technologies Inc.....	2139
Facility Engineering Associates, P.C.....	1939

G4S Secure Integration.....	2289
ISES Corporation.....	2631
ISSA - the Worldwide Cleaning Industry Association.....	2389
Kee Safety Inc.....	2316
Lellyett & Rogers Company.....	2283
Lewellyn Technology.....	2420
National Elevator Inspection Services.....	2684
National Institute of Building Sciences.....	2686
NTT Training.....	2136
Paul Davis National.....	2231
PBI Restorations.....	2464
People and Processes Inc.....	2627
Potter Electric Signal Company LLC.....	1728
RRC Consulting Group Inc.....	2038
RSMMeans from The Gordian Group.....	2281
SealGuard Inc.....	2291
Sound Management Group LLC.....	2367
Special Pathogens Laboratory.....	2474
StructureTec Group.....	2457
TPC Trainco Inc.....	2531
Unlimited Restoration Inc.....	2355
WaterSignal.....	2506

CONTROL SYSTEMS

Acuity Brands Lighting.....	1311
Advanced Power Control Inc.....	2416
C.N. Robinson Lighting Supply Co.....	2022
Complete Building Services Inc.....	2386
Continental Control Systems LLC.....	2529
CyberLock Inc.....	2585
Energy Dynamics.....	2639
EnSync Energy Systems.....	2644
Facility & Building Automation Systems.....	1425
Gen-Tracker by Generator Solutions Inc.....	1725
IDEAL Industries Inc.....	2514
Keyper Systems.....	2550
Monico, Inc.....	2623
OME.....	1424
RBI Greenhouses.....	2336
Reliable Controls Corp. USA.....	2421
Sapling Company Inc.....	1629
Synapse Wireless.....	1406
Viconics Technologies Inc.....	2664
Wireless Telematics, LLC.....	2638

DETECTION/DIAGNOSTIC EQUIPMENT

CleanAlert LLC.....	1323
Crowcon Detection Instruments.....	1219
FLIR Systems Inc.....	1916
General Pipe Cleaners/General Wire Spring Co.....	1900
Parker Hannifin - Sporlan Division.....	2460
RIDGID.....	2621
WaterSignal.....	2506
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archSCAN LLC.....	2656
Easi File.....	2617
Lellyett & Rogers Company.....	2283
National Purchasing Partners.....	2153

DOORS/DOOR HARDWARE

Apogee Enterprises Inc.....	2654
ASI.....	2351
ASI - Marathon Doors/Bob's Overhead Doors.....	2449
ASSA ABLOY Americas.....	2009

Belbien.....	2667
Caplan Bros. Glass.....	2663
Craftmaster Hardware.....	2559
CyberLock Inc.....	2585
Detex Corp.....	2448
DL Manufacturing.....	2590
Door Closer Service Co. Inc.....	2661
Extrutech Plastics Inc.....	1824
Fried Brothers Inc.....	2044
Hager Companies.....	2648
Horton Automatics.....	2670
Lockmasters Inc.....	2570
MST Corporation.....	2505
Marks USA.....	2609
Marvin Windows and Doors.....	2649
Miller Edge Inc.....	1626
Non-Ray.....	2259
Overly Door Co.....	2655
PDQ Manufacturing.....	2552
Precision Doors & Hardware LLC.....	2650
PS Doors.....	2555
SALTO Systems.....	2554
Sealeze, A Unit of Jason.....	2673
Security Door Controls.....	2249
SELECT Hinges/SELECT Products Ltd.....	2455
Stanley Access.....	2031
Stanley Security - Mechanical Solutions.....	2652
Surelock McGill.....	2429
TimeMaster.....	2396
Total Door/Modern Door.....	2548
Total Security Solutions.....	2254
TownSteel Inc.....	2100
Woodfold Manufacturing.....	2452

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Belco Pipe Restoration.....	1717
Electric Eel Mfg. Co. Inc.....	1724
General Pipe Cleaners/General Wire Spring Co.....	1900
Mark's Plumbing Parts.....	1604
Regional Pest Management.....	2161
RIDGID.....	2621
Ultra-Chem Inc.....	2583

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ABM Building Services.....	1301
Benjamin Electric Company.....	1723
Bopat Electric Co., Inc.....	2467
Capital Tristate.....	2331
Electro Industries/GaugeTech.....	1827
Forest Lighting.....	2658
FreeAxez LLC.....	2131
HyLite LED Lighting.....	2637
Legrand.....	2614
Mainline.....	2676
Palmer Fixture.....	2665
QSSI Lighting and Electrical Products.....	2543
Reuter & Hanney Inc.....	2556
Rexel.....	2415
Summit Power, Inc.....	2564
Tri-M Group LLC.....	2275
Trystar.....	1926

ELEVATORS/ESCALATORS

Belbien.....	2667
National Elevator Inspection Services.....	2684
Reechcraft Inc.....	2001
Schindler Elevator Corp.....	1627
Vertical Systems Analysis Inc.....	2496

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Airius LLC	2221
ARMM Associates Inc.	2242
CentiMark Corporation	2545
Direct Energy Solar	2677
DL Manufacturing	2590
ELKAY	2689
EnSync Energy Systems	2644
Hunt Consulting	2440
Nania Energy	1727
Pfister Energy Inc.	2436
REC Solar	2446
SolarCity	2341
Taylor-Dunn Mfg.	2630
WGL Energy	2357

ENERGY MANAGEMENT SYSTEMS

Advanced Power Control Inc.	2416
American Energy Services	1405
Automated Logic Corp.	2302
Benjamin Electric Company	1723
C&W Services	1705
Capital Tristate	2331
Chesapeake Controls Inc.	2390
Continental Control Systems LLC	2529
Electro Industries/GaugeTech	1827
Energy Dynamics	2639
EnSync Energy Systems	2644
Gen-Tracker by Generator Solutions Inc.	1725
Global Energy Services	2619
Hunt Consulting	2440
Infor	1936
Legrand	2614
Lighting Breakthroughs	2537
Murata Energy Solutions Americas	1306
Nortec Humidity	2023
Obvius	1407
OEO Energy Solutions	2240
OME	1424
One Plus Corp.	2445
Optergy	1411
Orion Lighting	1505
Panoramic Power	1324
Quadlogic Controls Corp.	2546
SATEC Inc.	1416
Spirax Sarco Inc.	1710
Trane	2309
Triacta Power Solutions LP	2547
Wireless Telematics, LLC	2638
Yardi LOBOS	1304

ENERGY MONITORING

Alban CAT Power Systems	2603
Ameresco, Inc.	2542
American Energy Services	1405
Automated Logic Corp.	2302
Belimo Americas	2629
Benjamin Electric Company	1723
Cenergetix, LLC	1945
Chesapeake Controls Inc.	2390
Continental Control Systems LLC	2529
Electro Industries/GaugeTech	1827
Facility & Building Automation Systems	1425
Gen-Tracker by Generator Solutions Inc.	1725
Murata Energy Solutions Americas	1306
Obvius	1407
OME	1424

ONICON Inc.	1826
Optergy	1411
Panoramic Power	1324
Quadlogic Controls Corp.	2546
SATEC Inc.	1416
SOMAX Inc.	1316
Spirax Sarco Inc.	1710
Synapse Wireless	1406
Triacta Power Solutions LP	2547
Yardi LOBOS	1304

ENERGY PRODUCTS AND SERVICES

AEE Baltimore	2489
Aegis Energy Services	2226
Airius LLC	2221
Alban CAT Power Systems	2603
Allied Window, Inc.	2581
Ameresco, Inc.	2542
American Energy Services	1405
Atlantic Sun Control Inc.	2642
Auburn Manufacturing Inc.	2366
Batteries Plus Bulbs	2369
Belimo Americas	2629
Benjamin Electric Company	1723
Building Operator Certification	1843
Capital Tristate	2331
CHB Industries Inc.	2016
Crystal Lighting Corporation	2442
Direct Energy Solar	2677
Duct & Vent Cleaning of America Inc.	2246
Eastman Chemical Co.	1617
EH Commercial	1112
EMG	2671
FacilityDude	1527
Flextronics (Lusio) Lighting	2443
Fluke Electronics Corporation	2321
G4S Secure Integration	2289
Hot Logic LLC	1624
Hunt Consulting	2440
HyLite LED Lighting	2637
ISAVE Team	1523
LED Living Technology	2437
Lighting Breakthroughs	2537
Murata Energy Solutions Americas	1306
Nania Energy	1727
Obvius	1407
OEO Energy Solutions	2240
Orion Lighting	1505
Panoramic Power	1324
Pfister Energy Inc.	2436
Premium Spray Products - An Accella Brand	2143
PTM Manufacturing LLC	2456
Pure Air Control Services, Inc.	1947
QSSI Lighting and Electrical Products	2543
Rexel	2415
RRC Consulting Group Inc.	2038
Saniflow Hand Dryer Corp.	2244
SATEC Inc.	1416
SolarCity	2341
Steril-Aire Inc.	2317
Summit Power, Inc.	2564
Sylvania	2257
Trane	2309
Tremco Roofing and Building Maintenance	1841
Triacta Power Solutions LP	2547
WGL Energy	2357
ZOO Fans Inc.	1722

ENVIRONMENTAL SERVICES/PRODUCTS/IAQ

A-1 Flood Tech	2039
AirPac Inc.	1829
American Lamp Recycling LLC	2646
Applied Building Technologies Inc.	2337
Automated Logic Corp.	2302
Bevi	1622
Building Operator Certification	1843
Busch Systems International Inc.	2431
C.N. Robinson Lighting Supply Co.	2022
Capitol Asset Recovery, Inc.	2458
Chamberlain Contractors Inc.	2041
CleanAlert LLC	1323
County Group Companies	2544
Direct Energy Solar	2677
Duct & Vent Cleaning of America Inc.	2246
DuctSox	2540
Eastern Diversified Services Inc.	2560
EMG	2671
EMSL Analytical Inc.	2045
Ex-Cell Kaiser, LLC	1512
Facility Engineering Associates, P.C.	1939
Fresh-Aire UV/Triatomic Environmental Inc.	1517
Garland Co. Inc., The	2140
Green Seal Inc.	2344
Interior Maintenance Company Inc.	2141
MilliCare By EBC Carpet Services	2426
Monoxivent	2255
Paul Davis National	2231
Pure Air Control Services, Inc.	1947
Regional Pest Management	2161
RRC Consulting Group Inc.	2038
Saniflow Hand Dryer Corp.	2244
ServiceMaster NCR	2340
Sodexo	2565
SolarCity	2341
Steril-Aire Inc.	2317
Unlimited Restoration Inc.	2355
USGBC MD	2659
Whittaker Co., RE	2047
ZOO Fans Inc.	1722

EXIT SIGNS

APCO Sign Systems	1612
C.N. Robinson Lighting Supply Co.	2022
Ecoglo/Access Products	1600
Fried Brothers Inc.	2044
Kroy Sign Systems	2653
People Signs	1628
Primex Wireless	1524
Safety Technology International, Inc. (STI)	2299
Veolia Environmental Services	2444

EXTERIOR BUILDING SYSTEMS

AcryLabs	2238
Apogee Enterprises Inc.	2654
BASF Corporation	2137
BULLDOG Roof Restoration Coatings	2481
DaVinci Roofscapes	2643
Kalkreuth Roofing and Sheet Metal	1832
Mule-Hide Products	1518
O'Leary Asphalt Inc.	2374
PS Doors	2555
QSSI Lighting and Electrical Products	2543
Team Cam, LLC	2391
TimeMaster	2396

Versico Roofing Systems	1616
Waterblasting Technologies	2700
Witmer Group, The	2383

FILTRATION

Chardon Laboratories Inc.	2247
Ductz	2471
ELKAY	2689
Guardian CSC	2683
Monoxivent	2255
NaceCare Solutions	2350
Natural Choice Corp.	2346
Oasis International	1507
Quench USA, Inc.	1942
RCI Technologies East	1729
Vivreau Advanced Water Systems	2358

FIRE SAFETY

AGF Manufacturing Inc.	2353
Alarm Tech Solutions LLC	1823
BFPE International	2214
Commercial Fire Hydrant Service	2361
EDWARDS Alarm & Detection	2258
Fire & Life Safety America Inc.	2574
Fireline Corp.	2127
Huguenot Laboratories	1618
ICB/TABB	2375
ISAVE Team	1523
Kidde Fire Systems	2040
Kinetix Fire & Life Safety Experts	2566
Knox Company	2370
National Fire Protection Association	1113
National Fire Sprinkler Association	2681
Orr Protection Systems Inc.	2521
Potter Electric Signal Company LLC	1728
Precision Doors & Hardware LLC	2650
Safety Technology International, Inc. (STI)	2299
Security Door Controls	2249
Total Door/Modern Door	2548
VFS Fire & Security Services	2267
VSC Fire & Security, Inc.	1726
Wooster Products Inc.	1701
ZTS Inc.	1924

FLEET MANAGEMENT

ASI - Marathon Doors/Bob's Overhead Doors	2449
Browz	2626
Chetu Inc.	1317
EPAC Software Technologies Inc.	2139
Infor	1936
Keyper Systems	2550
United Soybean Board	1943

FLOORING

A-1 Flood Tech	2039
CentiMark Corporation	2545
Construction Specialties Inc.	2472
Empire Today®	2372
FreeAxez LLC	2131
Garland Co. Inc., The	2140
Industrial Caulk & Seal Inc.	2674
KOSTER American Corp.	1731
Matting By Design	2376
MilliCare By EBC Carpet Services	2426
Polycoat Products	1937
Rust-Oleum	1522
SaniGLAZE International LLC	2042
Square Scrub	1500
Stanley Steemer International	2145

Superior Mfg. Group/NoTrax Floor Matting.....2043
 Tri-Chem.....1700
 Whittaker Co., RE.....2047

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Arete Industries.....2636
 Caplan Bros. Glass.....2663
 CORT.....2365
 Davies Office Inc.....1909
 Easi File.....2617
 Glasdon Inc.....2157
 Hot Logic LLC.....1624
 Max-R.....2527
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GENERATORS

Alban CAT Power Systems.....2603
 Carrier Rental Systems.....2465
 Kohler Co.....2209
 Monico, Inc.....2623
 Murata Energy Solutions Americas.....1306
 Pritchard Brown LLC.....2404
 RCI Technologies East.....1729

HOUSEKEEPING PRODUCTS EQUIP.

Busch Systems International Inc.....2431
 Ex-Cell Kaiser, LLC.....1512
 Glasdon Inc.....2157
 NaceCare Solutions.....2350
 PIRIT Heated Products.....2251
 Stanley Steemer International.....2145
 Superior Mfg. Group/NoTrax Floor Matting.....2043
 Taylor Northeast Franklin.....2484
 Tomcat.....2459
 TOMRA Compaction.....2036
 TTI Floor Care North America.....2256
 Ultra-Chem Inc.....2583

HVAC

ABM Building Services.....1301
 Aceto Corp.....2151
 ACP-Acoustic Ceiling Products.....1601
 Aegis Energy Services.....2226
 Airius LLC.....2221
 AirPac Inc.....1829
 Alfa Laval.....1800
 Applied Building Technologies Inc.....2337
 Applied Comfort Products Inc.....2347
 Aquatherm.....1605
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 Baltimore Aircoil Co.....2672
 Belco Pipe Restoration.....1717
 BRAVO! Building Services Inc.....2230
 C&W Services.....1705
 Carrier Rental Systems.....2465
 Chardon Laboratories Inc.....2247
 Chemours.....1735
 CleanAlert LLC.....1323
 Cold Point Corp.....1822
 Comitale National, Inc.....2641
 Complete Building Services Inc.....2386
 Daikin Applied.....1716
 Duct & Vent Cleaning of America Inc.....2246
 DuctSox.....2540
 Ductz.....2471
 Facility & Building Automation Systems.....1425
 Ferguson Enterprises Inc.....1704

Fresh-Aire UV/Triatomic Environmental Inc.....1517
 Freudenberg Filtration Technologies.....1938
 HaVACo Technologies Inc.....2480
 Huguenot Laboratories.....1618
 ICB/TABB.....2375
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Wednesday 11:00 a.m. – 3:00 p.m.

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BUILDING OPERATING MANAGEMENT'S
NFMT[®]**2017**

National Facilities Management & Technology March 7-9, 2017 • Baltimore

www.nfmt.com/baltimore

Visit us at NFMT Booth #805

\$1,699 of FM Training for \$99

*“One of the Best Membership Opportunities
Out There for Facilities Professionals”*



Your NFMT Membership Includes:

- ✓ The NFMT Educational Session Video Collection (\$796 value)
- ✓ More than 60 educational sessions recorded at all NFMT 2016 Conferences
- ✓ Quarterly FM Webcasts (\$396 value)
- ✓ Weekly FM Videos (\$468 value)
- ✓ NFMT Members polo shirt* (\$39 value)
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**Plus, enjoy special perks
at all NFMT Events in 2016**

NFMT Baltimore

March 22-24 Baltimore, MD

High-Performance Buildings + Workplaces

May 3-4 Austin, TX

NFMT Vegas

November 1-2 Las Vegas, NV

NFMT.Com/Online/Members

NFMT Booth 805



Welcome NFMT Members!

We are excited to have you join us at NFMT 2016! I hope you are taking advantage of all your membership has to offer.

Before NFMT

NFMT Handouts Available Now for Members Only!

Members Only, log in to the NFMT Insider website to view and print any available session handouts. If you became a member on-site this week, your username and password will be emailed next week.

During NFMT

Avoid Lines - Pick up your Badge on Monday

Member Lounge on the Exhibit Floor Booth #805

The Lounge is open during exhibit hours all three days and is the place to pick up your shirt, grab a refreshment, eat your lunch or sit and do some work (or just relax).

Drink Coupons at Opening Night Reception

Members Only Shirt Pick Up at Booth #805

After NFMT

Conference Videos

As an NFMT Member you'll receive exclusive access to full conference video sessions filmed right here in Baltimore. The 36 conference videos from this event will be posted for members by April 4.

Past Event Video Library

In addition to the 30 plus videos filmed at NFMT 2016, members have access to over 100 previously filmed events including NFMT Orlando, NFMT Vegas and High-Performance Buildings and Workplaces. This gives you access to a robust library of quality content.

Webcasts

In addition to past conference videos, you'll also have access to our library of over a dozen past member-only NFMT webcasts.

Future Events

Just a reminder, your NFMT membership gives you the same great opportunities and offerings at other NFMT events throughout the year. Join us at High-Performance Buildings in Austin, TX May 3-4 and NFMT Vegas November 1-2.

Don't worry there is still time to become a member before you leave Baltimore. If you are interested in becoming a member please visit booth #805 for more information or to join today for only \$99!

The following sessions will be filmed for NFMT members:

TUESDAY

8:00 A.M. – 8:50 A.M.

TG.16 May the FM Force Be with You: What Star Wars Can Teach You

9:00 A.M. – 9:50 A.M.

T1.18 A Guide to Inspecting and Maintaining Various Roofing Systems

T1.24 How LEDs and Advanced Lighting Controls Can Get to Net Zero Energy

T1.47 The Internet of Things Is Coming, Is Your Facility Ready?

10:00 A.M. – 10:50 A.M.

T2.18 What's Your Grade? Calculating Your Maintenance Performance Index

T2.24 LEDs and Lighting Controls: Exciting Future & Some Cautions

T2.47 The IoT of Energy Management

11:00 A.M. – 11:50 A.M.

T3.18 BIM2FM: Capturing Design & Construction Information for Building

T3.24 Practical Lessons Learned from Implementing Intelligent Lighting Controls

T3.47 The Role IoT Will Play in the Facility of the Future

WEDNESDAY

8:00 A.M. – 8:50 A.M.

WG.16 How to Find, Engage and Benefit from a Mentor/Mentee Relationship

9:00 A.M. – 9:50 A.M.

W1.24 LED Lighting, Capabilities Today and Tomorrow

W1.39 The True Value of Clean

W1.45 Data Center - Internal Facility, Cloud, Co-location, and Container

10:00 A.M. – 10:50 A.M.

W2.24 What Does a Mature Asset Management Program Look Like?

W2.39 A Performance-Based Guide to Facilities Services

W2.45 Generator Docking Stations: Backing Up the Back-Up Plan

3:10 P.M. – 4:00 P.M.

W3.24 An Overview of Facilities Management Technology

W3.39 The Current Best Practices in Parking Garage Lighting

W3.45 Increasing Data Center Resilience While Lowering PUE

4:10 P.M. – 5:00 P.M.

W4.24 Wireless vs. Wired Lighting Controls or Both?

W4.39 Building the Best Team for a Sustainable Operation

W4.45 Integration of Battery Technology to Optimize CHP Economics

THURSDAY

8:00 A.M. – 8:50 A.M.

RG.16 Surviving in the Cruel War of Cost Cutting

9:00 A.M. – 9:50 A.M.

R1.18 Eyes in the Sky: Drones in Facility Management

R1.39 Capital Planning 101

R1.45 Proactive Project Management: Managing Beyond the Obvious

10:00 A.M. – 10:50 A.M.

R2.18 Help me...I have fallen into FM and cannot get up!!

R2.39 Implementing BIM for Owners

R2.45 Capital Planning and Project Management: Moving Beyond Spreadsheets

2:10 P.M. – 3:00 P.M.

R3.39 Advanced Retrofit Conservation Technologies

R3.43 Keys to Properly Maintaining Parking Garages

R3.45 7 Steps to a Risk-Free Project

3:10 P.M. – 4:00 P.M.

R4.39 Building Envelope Commissioning/Retro-Commissioning

R4.43 Workplace Violence + Active Shooter

R4.45 Top 5 Environmental Compliance Issues for Engineers and Managers

BUILDING OPERATING MANAGEMENT'S NFMT[®] 2016

National Facilities Management & Technology March 22-24, 2016 • Baltimore

KEY

- Building Services Pavilion
- GreenTech Pavilion
- Openings, Doors, Windows and Building Exteriors Pavilion
- Internet of Things Pavilion
- Restrooms
- Redeem \$8 Lunch Coupon
- NFMT Café Tables
- Natural Choice Corp. Water Station
- QuickFire Theatre
- Enter to Win \$1,000 Cash Prize Drawing

EXPO FLOOR HIGHLIGHTS

- Main Stage Booth #2707
- Charging StationsBooths #1000
- Information/NFMT Booth/NFMT Member LoungeBooth #805

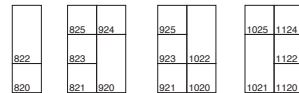
PLATINUM SPONSOR BOOTHS

- Automated Logic Corp.Booth #2302
- C&W Services Booth #1705
- WD-40 Company.....Booth #2265
- Building Operating Management Magazine*Booth #905
- Facility Maintenance Decisions Magazine*Booth #905

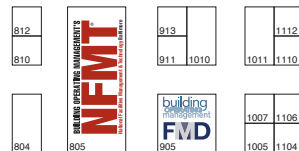


Center Grill

EXHIBITOR SERVICES



SPACE SELECTION



2017



Expo Hall Hours

Tuesday

Noon – 4:00 p.m. Expo Hall Open
 12:30 – 3:30 p.m. QuickFire Sessions at Booth#2055
 3:45 p.m. \$1,000 Cash Prize Drawing

Wednesday

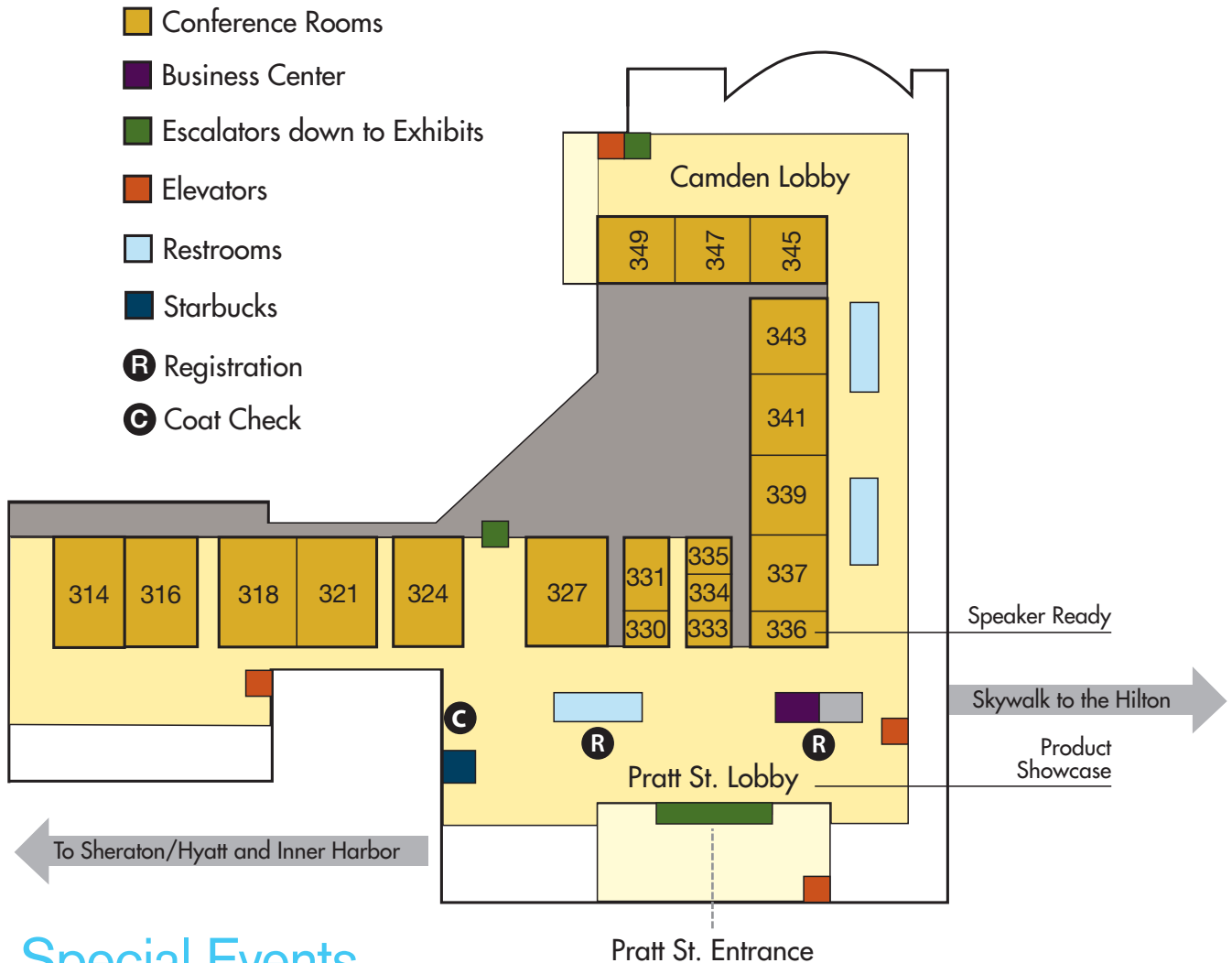
11:00 a.m. – 3:00 p.m. Expo Hall Open
 11:30 – 2:30 p.m. QuickFire Sessions at Booth#2055
 2:45 p.m. \$1,000 Cash Prize Drawing

Thursday

11:00 a.m. – 2:00 p.m. Expo Hall Open
 11:30 – 1:30 p.m. QuickFire Sessions at Booth#2055
 1:45 p.m. \$1,000 Cash Prize Drawing



300 Level Map



Special Events

Room 316

TUESDAY – 8:00 a.m. May the FM Force Be with You: What Star Wars Can Teach You About Managing Buildings

WEDNESDAY – 8:00 a.m. How to Find, Engage and Benefit from a Mentor/Mentee Relationship

WEDNESDAY – 4:10 – 6:30 p.m. Women in Facilities Management 2016 Roundtable Discussion and Reception

THURSDAY – 8:00 a.m. Surviving in the Cruel War of Cost Cutting: How to Expand Your Breadth of Influence

Pratt Street Lobby

TUESDAY – 4:00 p.m. Networking Party

WEDNESDAY – 5:15 p.m. Solutions Exchange

Baltimore Convention Center

Level 300
Registration and Conferences

Level 200
Pratt Street Entrance
Show Office/Press Room

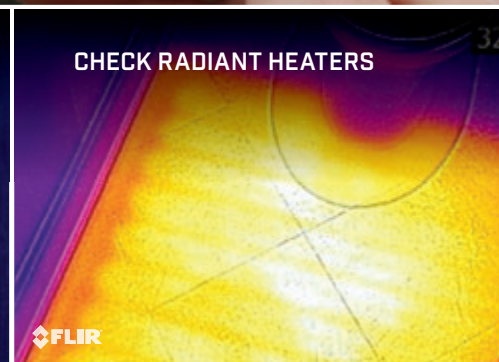
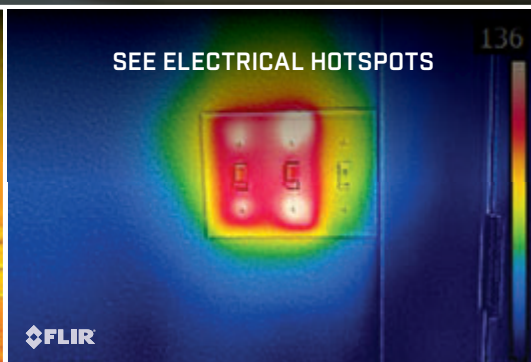
Level 100
Expo Hall

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BOOTH 1916



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Innovation is at our core, complemented by our commitment to build load banks to the highest standards – ISO9001, UL/CUL, CSA, CE, IEC, NFPA. Technical leadership includes Sigma control which is sector leading in simplicity, ease of use, and accuracy.

Sigma brings cost effective solutions to today's power testing requirements which can require high level instrumentation, data capture and verification with the ability to link multiple load banks of differing capacities or combination and controlled from one hand-held terminal or PC.



Experience

Ninety years combined experience in load banks is only matched by the 125 years ASCO has been providing power solutions. Our team of experts has provided countless standard and custom load banks to the industry over the years.

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