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NFMT VEGAS



2016 **EVENT** DIRECTORY



Continually Raising Building Standards

BACnet International is an industry association that facilitates the successful use of the BACnet protocol in building automation and control systems through interoperability testing, educational programs and promotional activities.



BACnet is leading the world in Building Protocol Standard: It plays a significant role in building automation projects worldwide.



Achieving the Mark of Distinction: The BACnet Testing Labs (BTL) Mark provides users with assurance that a product has passed the industry standard BACnet conformance tests conducted by a recognized, independent testing organization. The BTL Mark is a mark of distinction, achieved by more than 600 products, that many building owners and control system designers look for as a must-have in order to be eligible for a project.

► Discover More Today: www.bacnetinternational.org

CONTENTS**Welcome to the 2016 NFMT Vegas Conference and Expo!**

They say absence makes the heart grow fonder, we hope that is true because NFMT is excited to be back in fabulous Las Vegas.

With more sessions, more exhibits and more attendees than ever before, we are confident the time you spend at NFMT Vegas will be beneficial to both you as a professional and your organization. Join us Tuesday as we kick off the conference with an interactive session geared towards you and your career. "Taking Your Career to the Next Level" with the wonderful Teena Shouse will be discussing professional development, personal skillsets, mentoring and career action plans. Attendees at all levels of their career will not want to miss



this session.

One way to show growth in your career is to have working knowledge of the ever-changing technological advancements in the industry. NFMT Vegas is excited to be at the forefront of the Internet of Things and we have created multiple opportunities in both the conference and the expo hall to learn and explore this technology first-hand. While you are in the expo hall make sure to check out the QuickFire Sessions schedule. Exhibitors will be providing 20 minute education sessions on both Tuesday and Wednesday.

It is not all business at NFMT Vegas! BACnet International is sponsoring the networking reception in the Expo Hall from 2:00 – 3:00 p.m. on Tuesday. That afternoon also marks the return of one of the highly anticipated events of the week, Women in Facilities Management. All are welcome to join the discussion then stay for a networking reception afterwards.

We know there is a lot to pack in during NFMT Vegas, but make sure to take advantage of everything because we won't be back in Las Vegas until 2018. Don't worry, NFMT will still have lots of opportunities around the country next year.

Sincerely,

Amy Brown
Director of Education,
Conferencing and Membership
NFMT Vegas
amy.brown@tradeexpress.com

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Schedule**TUESDAY**

- 8:00 – 10:50 a.m. Conference Sessions
- 11:00 a.m. – 3:00 p.m. Expo Hall Open
- 1:45 p.m. \$1,000 Cash Prize Drawing
- 2:00 – 3:00 p.m. Networking Party
- 3:10 – 5:00 p.m. Conference Sessions

WEDNESDAY

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

THANK YOU TO OUR SPONSORS

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Networking Party

— BOOTH #707

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— BOOTH #615

Club Car, the world's largest manufacturer of small four-wheel electric vehicles, dominates the U.S. UTV market. Facilities and grounds managers everywhere rely on our commercial and industrial utility, transport and street-legal vehicles. Our Carryall utility vehicle line includes two- and automatic four-wheel drive models and two- or four-passenger models with EFI gasoline, electric or diesel powertrains. Visit booth #615 or www.clubcardealer.com/carryallpromotions to schedule a demo.

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— BOOTH #606

Current, powered by GE, is a first-of-its-kind energy company that integrates GE's LED, Solar, Energy Storage and EV Charging businesses. Adding GE's Predix platform allows Current to deliver cost-effective, energy-efficient solutions. Current meets the unique needs of a wide range of customers, and provides them with the hardware, software and sensors they need to be more reliable, efficient and profitable.

www.currentbyge.com



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Daily Cash Prize Drawing

— BOOTH #315

Neon Energy is a worldwide leader in renewable energy solutions, specializing in LED lighting, Solar systems, HVAC systems, Building Management Solutions (BMS) and high quality building aluminum. Neon is highly experienced working on both new building projects and retrofits. An extensive portfolio and great reputation make Neon Energy the right choice for any building or energy efficiency upgrade project.

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**Solar Energy
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**HVAC
Solutions**



**BMS
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QUICKFIRE SESSIONS ON THE EXPO HALL FLOOR

Join us in booth #101 on expo hall floor both Tuesday and Wednesday as we offer quick 20 minute educational sessions sponsored by our knowledgeable exhibitors.

Tuesday, November 1

11:30 A.M.



Maximize Housekeeping Cost Reductions using Leadership Skills

The Quick Fire session will explain how leadership needs to function in order to cut labor and material costs up to 50% or more. If you are willing to apply “outside-the-box” thinking to your housekeeping management challenges, come join us. The presentation is 9 minutes and the rest of the session will be open for questions.

12:00 P.M.



Air-cooled vs. Water-cooled Chillers

The latest air-cooled chiller systems offer lower total cost of ownership with improved efficiency, reduced maintenance, and markedly less water consumption than variable speed water-cooled chiller systems. From a comprehensive view, today's generation of air-cooled chillers are presenting an undeniable alternative and strong overall value in the 300 to 1,000-ton range, where larger water-cooled systems once reigned.

12:30 P.M.



Innovating Maintenance and Testing Technology for Emergency Lighting

In interest of public safety, the US Life Safety Code 7.9 outlines the obligations of building owners/managers, in relation to Emergency lighting and Exit signs, to ensure the safe evacuation of occupants in an emergency. Complying with Safety Code requirements can be very expensive and labor intensive, especially in large building where testing requires many labor hours spent manually inspecting every emergency light. However computerized monitoring system has been designed to enable main-

tenance personnel to easily maintain the emergency lighting system without having to walk through the building.

1:00 P.M.

Condition Based Maintenance Solutions

Whether you are looking to establish preventive or condition-based practices or simply maximize uptime, you can now do it with an easy to use, wireless system. The Fluke Connect® system offers a full solution from Bluetooth enabled test tools to portable condition monitoring that send data to a user-friendly software interface. You can view equipment data and make informed decisions from anywhere, anytime. Attendees who want to improve operational health will find value in this talk.

1:30 P.M.



5 Hottest Trends in CMMS

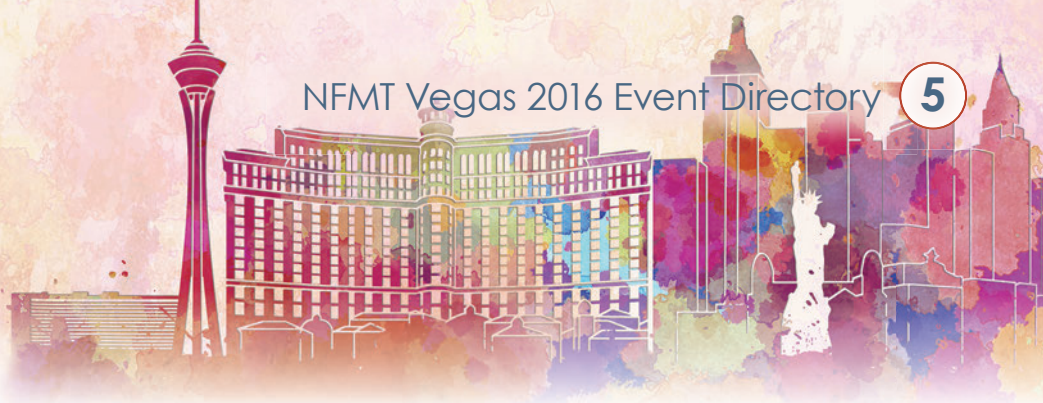
The world of CMMS is constantly evolving in order to meet and exceed the increasing demands of the end-user. Persistent research, development and innovation aids in delivering software that improves your return on assets and drives profits to the bottom line. During this Quick Fire Session, Greg Perry, CRL, Senior Consultant at eMaint, will give insights on the top trends in CMMS including predictive technology, mobile usage, interactive mapping, and more!

2:00 P.M.



FILTERSCAN WiFi Monitors: The Efficient Way to Maintain Air Filters

Typically, owners, managers, and service techs use the calendar to schedule air filter changes. Unfortunately, a fixed replacement schedule is inefficient. Change the filter too soon and you waste filters; change it too late and you increase energy costs and risk



damaging your system. The innovative and low cost FILTER-SCAN WiFi air filter monitor makes your filter change process SMART - reducing waste, maximizing efficiency, and improving IAQ; and it can even text you.

Wednesday, November 2

11:30 A.M.



HVAC, IAQ and UVC Source Control

Indoor air contaminants are found in buildings as a result of the growth of microorganisms on the coils and in the drain pans of A/C installations. Ultraviolet light in the “C” band (UVC) eliminates this source, improving indoor air quality, equipment operating efficiency, saving energy and reducing infectious organisms generated in the occupied space and disseminated through the air handling system.

12:00 P.M.



Mobile Building Management Systems

BMS consolidates building automation systems such as safety, security, electrical distribution, HVAC and lighting. Historical approaches for mobility solutions to monitor, diagnose, maintain and control facilities are being revolutionized by advances in contextual mobility. The PcVue Mobility Infrastructure enables facilities operations and maintenance workers to automatically receive contextual information and controls to their mobile device based on their role and physical location without requiring specialized hardware.

12:30 P.M.



“Prepare Now” Disaster Response Plan

Disaster Response Plan: a complementary program ensuring over communication is met prior to a disaster happening in a

commercial property. Our Disaster Response Plans (DRPs), are a proven tool that helps alleviate stress during the un-time-ly event of a loss in a building. This type of risk management has been a proven resource for our clients, and for us. For each DRP, our dedicated management team sets up a time with the building owner or manager for a site survey, where we’ll walk the space(s), to take a look at the building’s key components, & its environment.

1:00 P.M.



Harnessing LED as Intelligent Energy Infrastructure

With environmental standards and energy cost savings in mind, businesses are adopting LED technology at an increasingly rapid rate. But LEDs offer much greater opportunity than efficient illumination. Connected LEDs are the key to intelligent building management, from analyzing and optimizing energy use across systems, to driving new outcomes and revenue streams. Learn how combining sensors and software with LEDs can help customers of all sizes and industries better manage energy while gaining valuable insights and creating new operational opportunities.

1:30 P.M.



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.

SHOW HIGHLIGHTS

Tuesday

8:00 A.M. | Room Montego A

General Session - Taking Your Career to the Next Level

It is time to concentrate on you!!! Taking your career to the next level is of the utmost importance to most of us, but how do we do it? Come to this session ready to hit the pause button, turn off your phone, don't answer texts and concentrate for one hour on the most important asset you own, YOU! This interactive workshop will highlight the critical elements of evaluating where you are and where you want to be in your career and what you need to do to get there. For full details see page 12.

1:45 P.M. | Expo Hall

\$1,000 Cash Prize Drawing

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NEON ENERGY

Every day at NFMT Vegas we will be awarding a cash prize of \$1,000. Complete the ballot found in your tote bag and drop it in the ballot box at the Neon Energy booth #315 for your chance to win. Daily drawings will be held in the Expo Hall at the Main Stage.

2:00 -3:00 P.M. | Expo Hall

Networking Party

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We are celebrating you! Join us in the expo hall for food and drink, along with great networking opportunities with attendees and exhibitors alike. Don't worry – the bar will be set up in BACnet International's booth #707 so that can be your first stop.

4:10 - 6:30 P.M. | Room Antigua A

Women in Facilities Management Panel and Reception

Join several highly accomplished panelists as they guide a discussion through major issues and trends affecting females in the facilities management industry. They will also rely heavily on participation from the audience to express as many opinions and viewpoints as possible. Topics may include work/life balance, career advancement, managing subordinates and more. Anyone is welcome to join us for this discussion. Following the session please join us for a networking reception.

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QUALITY OF LIFE SERVICES

Wednesday

8:00 - 10:50 A.M.

Concurrent Educational Opportunities

With over 20 educational sessions to choose from this morning, learning will be the top priority.

1:45 P.M. | Expo Hall

\$1,000 Cash Prize Drawing

Sponsored by

NEON ENERGY

Every day at NFMT Vegas we will be awarding a cash prize of \$1,000. Complete the ballot found in your tote bag and drop it in the ballot box at the Neon Energy booth #315 for your chance to win. Daily drawings will be held in the Expo Hall at the Main Stage.

Both Days

VIP Pin Program

Expo Hall

Wear Your Pin For a Chance To Win \$50! \$50 cash giveaways every half hour in the exhibit hall.

When you check in at Registration for your attendee badge, you'll receive an NFMT pin. Wear your pin in the exhibit hall and you could win \$50 cash on the spot on Tuesday and Wednesday. The Undercover Prize Team will select winners at random.

Lunch is on Us!

Expo Hall

You don't have to go far to get a quick bite to eat plus NFMT Vegas is helping defray the cost with a lunch coupon. The coupon is only redeemable at the food station inside the expo hall.

Social Media

#NFMTVegas16

Use the hashtag to stay connected at NFMT Vegas and beyond. We love seeing your pictures, feedback and aha moments!

Go to NFMT.com/Vegas to get connected via Facebook, Twitter, LinkedIn and YouTube.



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November 1-2, 2016
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BOOTH
NO 615



SESSIONS AT-A-GLANCE

Tuesday November 1

8:00 – 8:50 A.M.

Montego A **T1.A General Session** Taking Your Career to the Next Level

9:00 – 9:50 A.M.

Montego A **T2.A** OSHA's Enforcement and Significant Changes in 2015 NFPA 70E

Montego C **T2.B** Demystifying The Internet of Things

Montego E **T2.C** BIM2FM: Leveraging your BIM Data for Facility Management

Andros **T2.D** How Facility Managers can use BACnet to Implement an Internet of Things (IoT) Strategy

St. Thomas A **T2.E** The Changing Demographics of HVACR

St. Thomas B **T2.F** Achieving Excellence in Maintenance Operations

Jamaica **T2.G** Controlling the Hidden Costs in Your Electric Bill

Antigua A **T2.H** Transforming Performance, Tools for the FM to Consider

Antigua B **T2.I** Testing, Adjusting and Balancing and Your Operating Budget

10:00 – 10:50 A.M.

Montego A **T3.A** Coordinating Fire Sprinkler and Fire Alarm Maintenance

Montego C **T3.B** The IoT of Lighting - Digital and Wireless Lighting

Montego E **T3.C** Data Centers: The Maintenance We Miss

Andros **T3.D** Unify Your Building and Reduce Energy Consumption with BACnet

St. Thomas A **T3.E** Professional Grounds Management Society and Landscape

St. Thomas B **T3.F** Budgeting a Carpet Care Maintenance Plan

Jamaica **T3.G** Protecting Your Facility from Power Failure

Antigua A **T3.H** Utilizing Innovation to Transform the Future FM

Antigua B **T3.I** LEED Version 4 Overview

11:00 A.M. – 3:00 P.M.

Expo Hall Open

11:30 A.M. - 2:20 P.M.

QuickFire Sessions Booth #101

11:30 A.M. **Gabriel First Corp:** Maximize Housekeeping Cost Reductions using Leadership Skills

12:00 P.M. **Daikin Applied:** Air-cooled vs. Water-cooled Chillers

12:30 P.M. **Lightalarms:** Innovating Maintenance Testing Technology for Emergency Lighting

1:00 P.M. **Fluke:** Condition Based Maintenance Solutions

1:30 P.M. **eMaint:** 5 Hottest Trends in CMMS

2:00 P.M. **CleanAlert:** FILTERSCAN WiFi Monitors: The Efficient Way to Maintain Air Filters

1:45 P.M.

\$1,000 Cash Prize Drawing Main Stage
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2:00 – 3:00 P.M.

Networking Party
Sponsored by

BACnet International

3:10 – 4:00 P.M.

Montego A **T4.A** CYA: Covering Your ADA: What Your Architects and Engineers are Missing

Montego C **T4.B** Lighting, Sensors and the IoT

Andros **T4.D** BACnet to the Cloud: From Concept to Reality

St. Thomas A **T4.E** Fall Protection on Low Sloped Roofs

St. Thomas B **T4.F** Essential FM Technologies

Jamaica **T4.G** The Perfect Marriage of Cx Software & CMMS

Antigua A **T4.H** When FM Leaders Fail

Antigua B **T4.I** PACE Financing—Paradigm Shift in Funding Energy Efficiency and Renewable Energy Projects

4:10 – 5:00 P.M.

Montego A **T5.A** Active Shooters - What your tenants should know

Montego C **T5.B** Connected Lighting, IoT and Endless Possibilities!!!

Montego E **T5.C** How BIG DATA Will Drive Facility Managers and Maintenance

Andros **T5.D** The Future of Building Automation is Tags

St. Thomas A **T5.E** How to Pass Compliance Audits With Your CMMS

St. Thomas B **T5.F** Importance and Benefits of Predictive Maintenance Programs

Jamaica **T5.G** Energy Management, Smart Controls and Automation

4:10 – 6:30 P.M.

Antigua A **T5.G Women in Facilities Management Panel and Reception**
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QUALITY OF LIFE SERVICES

Wednesday, November 2

8:00 – 8:50 A.M.

- Montego A W1.A** Innovative Workplaces and WELL Certification
Montego C W1.B Digitization of Building Systems through IoT
Montego E W1.C Strategic FM Outsourcing: The Contract Isn't the Focus
St. Thomas A W1.E Implications of the new NLRB Joint-Employer Rule
St. Thomas B W1.F Making Predictive Maintenance Work in Your Facility

9:00 – 9:50 A.M.

- Montego A W2.A** Emergency Planning 101
Montego C W2.B IoT Solutions For Commercial Buildings, Lighting and Beyond
Montego E W2.C Reaching the Next Level through Organizational Recommissioning
Andros W2.D The Life Cycle Value Proposition of Building Automation
St. Thomas A W2.E Pay Now, or Pay Later! Justifying a Proactive Maintenance Program
St. Thomas B W2.F Changes in the 2017 National Electric Code
Jamaica W2.G Monetizing Large EPACT Deductions
Antigua A W2.H Four Things You Must Know About Document Management
Antigua B W2.I IAQ in Sustainability Programs: Expanding the Focus from Energy to Occupants

10:00 – 10:50 A.M.

- Montego A W3.A** Annual Fire Door Inspection Requirements
Montego C W3.B LEDs and Lighting Controls: Exciting Future With Some Cautions
Montego E W3.C Data, Data Everywhere
Andros W3.D HVAC 101: Chillers and VFDs and BACnet—Oh My!
St. Thomas A W3.E The Importance of a CMMS as a Knowledge Management Tool
St. Thomas B W3.F The ADA - Stay Ahead of the Curve
Antigua A W3.H Risky Rocks and Damp Dangers
Antigua B W3.I Utility Benchmarking and Disclosure

11:00 – 2:00 P.M.

Expo Hall Open

11:30 A.M. - 1:50 P.M.

QuickFire Sessions Booth #101

- 11:30 A.M.** SterilAire: HVAC, IAQ and UVC Source Control
12:00 P.M. PcVue, Inc.: Mobile Building Management Systems
12:30 P.M. COIT Cleaning & Restoration: "Prepare Now" Disaster Response Plan
1:00 P.M. Current, powered by GE: Harnessing LED as Intelligent Energy Infrastructure
1:30 P.M. SOMAX: Maintenance Management Software and the Internet of Things

1:45 P.M.

\$1,000 Cash Prize Drawing Main Stage

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2:10 – 3:00 P.M.

- Montego C W4.B** IoT, Analytics and Your Building: Hype or Reality?
Montego E W4.C What Does a Mature Asset Management Program Look Like?
St. Thomas A W4.E The State of Facilities Management Software
St. Thomas B W4.F Concrete Slabs, Moisture, and Flooring
Jamaica W4.G What's your Power Quality I.Q?
Antigua A W4.H Executive Considerations for Data Center Enterprise
Antigua B W4.I The True Value of Clean

3:10 – 4:00 P.M.

- Montego C W5.B** The Building Enclosure and BECx: Sustainability's Next Reality
Montego E W5.C Beeps, Leaks, and Easy Tweaks: Top 5 Solutions to Fire Protection Challenges
St. Thomas A W5.E Elevator Essentials for Facility Management
St. Thomas B W5.F Implementing NFPA 70E 2015 for Arc Flash Safety

TRACKS AT-A-GLANCE

Building Automation

- Andros** **T2.D** How Facility Managers can use BACnet to Implement an Internet of Things (IoT) Strategy
- Andros** **T3.D** Unify Your Building and Reduce Energy Consumption with BACnet
- Andros** **T4.D** BACnet to the Cloud: From Concept to Reality
- Andros** **T5.D** The Future of Building Automation is Tags
- Andros** **W2.D** The Life Cycle Value Proposition of Building Automation
- Andros** **W3.D** HVAC 101: Chillers and VFDs and BACnet—Oh My!

Energy

- Jamaica** **T2.G** Controlling the Hidden Costs in Your Electric Bill
- Andros** **T3.D** Unify Your Building and Reduce Energy Consumption with BACnet
- Antigua B** **T4.I** PACE Financing—Paradigm Shift in Funding Energy Efficiency and Renewable Energy Projects
- Jamaica** **T5.G** Energy Management, Smart Controls and Automation
- Jamaica** **W2.G** Monetizing Large EPACT Deductions
- Antigua B** **W3.I** Utility Benchmarking and Disclosure

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- Montego C** **T3.B** The IoT of Lighting - Digital and Wireless Lighting
- Montego C** **T4.B** Lighting, Sensors and the IoT
- Montego C** **T5.B** Connected Lighting, IoT and Endless Possibilities!!!
- Montego C** **W1.B** Digitization of Building Systems through IoT
- Montego C** **W2.B** IoT Solutions For Commercial Buildings, Lighting and Beyond
- Montego C** **W4.B** IoT, Analytics and Your Building: Hype or Reality?

Leadership

- Montego A** **T1.A** Taking Your Career to the Next Level
- St. Thomas A** **T2.E** The Changing Demographics of HVACR
- Antigua A** **T2.H** Transforming Performance, Tools for the FM to Consider
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- Antigua A** **T5.H** Women in Facilities Management Roundtable
- St. Thomas A** **W1.E** Implications of the new NLRB Joint-Employer Rule
- Montego E** **W2.C** Reaching the Next Level through Organizational Recommissioning

Operations and Maintenance

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- St. Thomas B** **T2.F** Achieving Excellence in Maintenance Operations
- St. Thomas A** **T3.E** Professional Grounds Management Society and Landscape
- St. Thomas B** **T3.F** Budgeting a Carpet Care Maintenance Plan
- Jamaica** **T3.G** Protecting Your Facility from Power Failure
- St. Thomas A** **T5.E** How to Pass Compliance Audits With Your CMMS
- St. Thomas B** **T5.F** Importance and Benefits of Predictive Maintenance Programs
- St. Thomas B** **W1.F** Making Predictive Maintenance Work in Your Facility

- St. Thomas A** **W2.E** Pay Now, or Pay Later! Justifying a Proactive Maintenance Program
- St. Thomas B** **W2.F** Changes in the 2017 National Electric Code
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- Antigua A** **W3.H** Risky Rocks and Damp Dangers
- Montego E** **W4.C** What Does a Mature Asset Management Program Look Like?
- St. Thomas B** **W4.F** Concrete Slabs, Moisture, and Flooring
- Antigua B** **W4.I** The True Value of Clean
- St. Thomas A** **W5.E** Elevator Essentials for Facility Management

Safety and Security

- Montego A** **T2.A** OSHA's Enforcement and Significant Changes in 2015 NFPA 70E
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- Montego E** **W5.C** Beeps, Leaks, and Easy Tweaks: Top 5 Solutions to Fire Protection Challenges
- St. Thomas B** **W5.F** Implementing NFPA 70E 2015 for Arc Flash Safety

Sustainability

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- Antigua B** **T3.I** LEED Version 4 Overview
- Jamaica** **T4.G** The Perfect Marriage of Cx Software & CMMS
- Montego A** **W1.A** Innovative Workplaces and WELL Certification
- Antigua B** **W2.I** IAQ in Sustainability Programs: Expanding the Focus from Energy to Occupants
- Montego C** **W3.B** LEDs and Lighting Controls: Exciting Future With Some Cautions
- Montego C** **W5.B** The Building Enclosure and BECx: Sustainability's Next Reality

Technology

- Montego E** **T2.C** BIM2FM: Leveraging your BIM Data for Facility Management
- Montego E** **T3.C** Data Centers: The Maintenance We Miss
- St. Thomas B** **T4.F** Essential FM Technologies
- Montego E** **T5.C** How BIG DATA Will Drive Facility Managers and Maintenance
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- St. Thomas A** **W4.E** The State of Facilities Management Software
- Jamaica** **W4.G** What's your Power Quality I.Q.?
- Antigua A** **W4.H** Executive Considerations for Data Center Enterprise

CONTINUING EDUCATION

NFMT Vegas is authorized by IACET to offer 0.1 CEUs for each conference session.

Prerequisites:

There are no prerequisites for this program. Anyone is allowed to register and attend.

Satisfactory Requirements for CEU: (the following requirements are mandatory to receive the IACET CEUs offered)

- You must be scanned into the session.
- You must be present for over 90% of the conference session.
- You must successfully answer at least 70% of the learning outcome assessment questions which will be administered via email at the conclusion of the conference.

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NOV 1-2, 2016

EDUCATIONAL SESSIONS

TUESDAY NOVEMBER 1

General Session 8:00 A.M.

Leadership

T1.A Taking Your Career to the Next Level

Room: Montego A

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

It is time to concentrate on you!!! Taking your career to the next level is of the utmost importance to most of us, but how do we do it? Come to this session ready to hit the pause button, turn off your phone, don't answer texts and concentrate for one hour on the most important asset you own, YOU! This interactive workshop will highlight the critical elements of evaluating where you are and where you want to be in your career and what you need to do to get there. We will discuss both formal and informal learning to broaden your knowledge base and confidence. We will explore the power of selecting a mentor and how to gain the personal and professional benefits from that relationship. No matter your age, level within your current job, or experience, you can enrich your personal and professional growth by being a mentor or dedicating time to a receptive mentee. Join us for lively conversation, sharing of ideas and actually walk away with a career enhancing personal development plan.

LEARNING OBJECTIVES:

1. Better understand professional development resources based on FM core competencies
2. Learn how to utilize specific strategies to develop your personal skillsets
3. Discover the possible power of mentorships in your life
4. Learn how to create a career action plan

AUDIENCE: INTERMEDIATE | CEU: 0.1

TUESDAY NOVEMBER 1

9:00 A.M.

Safety and Security

T2.A OSHA's Enforcement and Significant Changes in 2015 NFPA 70E

Room: Montego A

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

This session provides an overall understanding of the 2015 NFPA 70E and how it may affect your company's overall electrical safety program. Learn about significant changes such as approach boundaries, PPE requirements, training requirements, normal operation of equipment 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. Learn how to protect employees from arc flash/blast and other electrical hazards with proper assessments and hazard mitigation. Understand the link between the NFPA 70E, NFPA 70B, and NFPA 99 and the impact these standards may have on your facility.

LEARNING OBJECTIVES:

1. Understand the latest changes in the NFPA 70E
2. Achieve an overall understanding of the relationship between OSHA and NFPA 70E
3. Apply this knowledge to become compliant with OSHA and NFPA 70E
4. Learn what is required of employers to train and qualify persons working on or near energized parts 50 volts or greater

AUDIENCE: INTERMEDIATE | CEU: 0.1

Internet of Things

T2.B Demystifying The Internet of Things

Room: Montego C

Presenter(s): John Gould, Sr. Principal Consultant, JFC & Associates - Enterprise Asset Management Services

IoT (The Internet of Things) is a concept that has been around for quite some time. Within the context of facilities management, having your assets 'connected' via a building automation system simply is not enough. Come learn how IoT can help you as a facilities professional better manage your assets. This session will focus on the fundamentals of IoT including advanced analytics, product lifecycle management, cloud computing, pervasive connectivity and embedded sensors.



LEARNING OBJECTIVES:

1. Reivew how advancements in technology are transforming every part of the business
2. Learn how connected devices will enable you to effectively manage risk
3. List how to minimize the need for unnecessary repair as well as unnecessary preventative maintenance tasks
4. State how analytics can be used to prevent failures, track issues against other variables and provide meaningful insight into your daily operations

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

T2.C BIM2FM: Leveraging your BIM Data for Facility Management

Room: Montego E

Presenter(s): Michael Tardif, Managing Partner, Building Informatics Group, LLC

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 so they can receive information in a format that they can actually use in their CAFM, CMMS, or IWMS systems without laborious, time-consuming, and error-prone manual data re-entry.

LEARNING OBJECTIVES:

1. Express facility information requirements in a technical specification
2. Specify the contents of BIM deliverables to meet FM information needs
3. Compare traditional project submittal requirements with a Facility Information Specification
4. Assess whether building information deliverable requirements of design and construction teams are being met

AUDIENCE: ADVANCED | CEU: 0.1

Building Automation

T2.D How Facility Managers can use BACnet to Implement an Internet of Things (IoT) Strategy

Room: Andros

Presenter(s): Grant Wichenko, President, Appin Associates

BACnet has introduced or will be introducing new features that will help facility managers to implement an Internet of Things (IoT) strategy for their facilities. IoT is important to FMs as devices (chillers, boilers, lights, fire alarm, security and elevators) come with network smarts onboard so FMs can monitor the health, status and energy consumption through their Front End software applications. All of these devices are now either native BACnet devices or the proprietary protocols used by the devices can be converted easily to BACnet. BACnet is introducing BACnet/IT which is an upgrade to BACnet/IP that will allow IT to manage BACnet devices as they

manage computers and printers. Enhanced IT "friendliness" will simplify the process of "getting the Thing on the Internet". The Network Port object type will allow for easier configuration of device's communications properties. The Applications Profile Working Group is working on a data dictionary that will allow device suppliers to provide data on the device to the FMs Front End software application without the time consuming process of getting manuals that describe the points found in the device. Mr. Wichenko will show some examples of how to set up and configure Modbus devices in a Modbus to BACnet gateway so they can be managed using the FM's Front End software application. Finally Mr. Wichenko will show how to use the onboard metering capabilities of devices to allow for equipment metering in an energy dashboard tool for use by senior management.

LEARNING OBJECTIVES:

1. Outline how BACnet/IT will simplify IP connectivity and "will get the Thing on the Internet"
2. Describe how the Network Port object type enhances an IoT strategy for Facility Managers
3. Explain how the Application Profile data dictionary provides point data and other information at the time the device is set up on the FM's network
4. Detail how one can set up a Modbus to BACnet gateway to streamline device integration to BACnet
5. Show examples of how BACnet meter data can be integrated into an Energy Dashboard for use by senior management

AUDIENCE: BEGINNER | CEU: 0.1

Leadership, Operations and Maintenance

T2.E The Changing Demographics of HVACR

Room: St. Thomas A

Presenter(s): Renee Joseph, Vice President, Channel Sales and Marketing Operations, Johnson Controls, Inc.

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. There are now more women in the facility management and HVACR industry than there were before. With the baby boomers retiring in record numbers, there will be many jobs to fill in the HVACR industry. In order to fill these roles, we will need to educate all demographics on this exciting and challenging industry. It's important to promote our industry to a wider audience to ensure all prospective employees understand the full breadth of opportunities available to them. Secondly, when there is diversity of thought and diversity of experience, it brings to the table creative ideas which help elevate any industry. New whitepaper on this topic authored by Ms. Joseph will be presented.

LEARNING OBJECTIVES:

1. Specify the changing workplace demographics in the HVACR and facility management industry
2. Review stats and metrics on the workforce to reflect these changes
3. Assess the trends and reasons for this shift in the workforce reflecting these changes specifically the need for millennials, minorities, and women entering the field

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

T2.F Achieving Excellence in Maintenance Operations

Room: St. Thomas B

Presenter(s): Robert Beebe, CEAS, Senior Director of Physical Plant Operations & Services, University of La Verne (Calif.)

Bob Cowan, Director of Facilities, Fred Hutchinson Cancer Research Center

Bryce Hudey, Energy Efficiency and Sustainability Manager, Oak Ridge (Tenn.) National Laboratory

Moderator: Dave Lubach, Associate Editor, Facility Maintenance Decisions Magazine

Learn the secrets behind successful projects from recipients of the 2016 Facility Maintenance Decisions Achievement Awards, which showcase some of the best maintenance and engineering departments in the country. The panelists offer insights into their successful projects and discuss the lessons they learned going from start to finish in the process. The panelists were chosen from 40 entries in the categories of retrofits and renovations, sustainability, financial management and personnel management. Attendees are encouraged to ask questions of the panelists during this highly interactive session, bring the ideas they learned back home, and consider their entries for the 2017 contest.

LEARNING OBJECTIVES:

1. Learn the right questions to ask when planning a major project
2. Develop strategies for effective project budgeting
3. Review the important aspects of scheduling major projects

AUDIENCE: BEGINNER | CEU: 0.1

Energy

T2.G Controlling the Hidden Costs in Your Electric Bill

Room: Jamaica

Presenter(s): Paul Valenta, VP Sales and Marketing, CALMAC

If gas was 50 percent cheaper at night than during the day, when would you fill up? At night, if you want to save money. So why don't we do this for commercial buildings? Regardless of the pricing structure a utility provides, the cost of electricity for commercial buildings is nearly 50 percent cheaper at night, once demand charges are accounted for. Demand side management and peak load reduction strategies allow facility managers to optimize energy purchases by disconnecting consumption of electricity from when it's purchased. This session will discuss strategies for understanding your utility bill's hidden costs and cutting operating costs.

LEARNING OBJECTIVES:

1. Gain a deeper understanding of your electric bill and how (kW) demand significantly impacts energy costs
2. Apply information from the presentation to effectively identify the cost benefits of energy storage
3. Discuss opportunities in local incentives, demand response and real-time pricing

EDUCATIONAL SESSIONS

4. Learn from real world examples how facility managers are using permanent load shifting strategies to reduce cooling and operating costs

AUDIENCE: INTERMEDIATE | CEU: 0.1

Leadership

T2.H Transforming Performance, Tools for the FM to Consider

Room: Antigua A

Presenter(s): Peter Stroup, PE, Director of Facilities, Harvard Medical School

The fundamental processes of work management, design, operations and maintenance when appropriately implemented will result in acceptable performance and facilities serving their intended functions comfortably. To strengthen that performance, the facilities group must embrace a learning organization's characteristics. Learning does not correlate to classroom training, rather, it's the culture of creating, acquiring and conveying knowledge. We will explore several tools that can be introduced to stimulate the organization and provide a foundation for continuous improvement. Facets that include after action, condition reporting, change control, and operating experience will be introduced and presented in a "take home and implement" format.

LEARNING OBJECTIVES:

1. Describe the attributes of a learning organization
2. Understand the fundamentals for discovering areas for correction or improvement
3. Learn how your events and those of others can lead to improvement
4. Review the details of several specific improvement programs

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainability

T2.I Testing, Adjusting and Balancing and Your Operating Budget

Room: Antigua B

Presenter(s): Davor Novosel, Chief Technology Officer, National Energy Management Institute Committee (NEMIC)

Imagine your building as an orchestra: many systems (instruments) that require fine tuning to operate in unison. Like an orchestra conductor, the testing, adjusting and balancing (TAB) professional assures that all building systems operate in harmony and at peak efficiency. This presentation will detail what TAB is, how it is done, and what impact the accuracy of the TAB process has on your operating budget. You will also learn how to specify TAB and what a TAB professional can do for you.

LEARNING OBJECTIVES:

1. Clarify why you should do TAB
2. Determine how often, by whom
3. Discuss the impact of TAB accuracy on your budget
4. Explain how to specify TAB and what a TAB professional can do

AUDIENCE: INTERMEDIATE | CEU: 0.1

10:00 A.M.

Safety and Security

T3.A Coordinating Fire Sprinkler and Fire Alarm Maintenance

Room: Montego A

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 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

Internet of Things

T3.B The IoT of Lighting - Digital and Wireless Lighting

Room: Montego C

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

The Internet of Things (IoT) impacts aspects of our personal and work environments. In the home, office or even our cars, we are becoming connected to the internet by our computers, smartphones and wearable devices. Lighting is no exception with products that are connected and part of the IoT. This presentation will highlight capabilities of wireless and digital connected and cloud based lighting, including the use of lighting as a communication medium. Vulnerability of networks to hacking, via wireless lighting systems and security aspects are will be discussed. Design requirements for installations using wireless and digital lighting that provide the performance, function and security required are detailed.

LEARNING OBJECTIVES:

1. Review the latest developments and capabilities of wireless and digital lighting systems
2. Discuss the advantages of controlling lighting using WIFI and other wireless protocols, including the evolving use of lighting as a communication medium (LIFI)
3. Understand the security aspects and issues with the potential vulnerability of hacking into computer networks via wireless lighting systems

4. Summarize the cost, return on investment and functional advantage associated with wireless and digital addressable lighting

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

T3.C Data Centers: The Maintenance We Miss

Room: Montego E

Presenter(s): Terry Vergon, Director of Engineering & Maintenance, C&W Services

It's not uncommon for data centers to spend hundreds of thousands of dollars a year maintaining vital equipment. A typical maintenance budget can run 1-3 percent of the initial capital investment for each year of operation, and this amount goes up as equipment ages. Maintenance is a necessary investment to achieve high levels of reliability, but curiously many corporations' maintenance budgets are underfunded; they don't fund the maintenance of the skills and knowledge of the people.

LEARNING OBJECTIVES:

1. Identify ways to balance maintenance/training spending to avoid human down-time error
2. Explain ways to encourage the right team behaviors
3. Justify budgeting to maximize reliability
4. Discuss how to ensure your mission critical team is up to task

AUDIENCE: INTERMEDIATE | CEU: 0.1

Building Automation, Energy

T3.D Unify Your Building and Reduce Energy Consumption with BACnet

Room: Andros

Presenter(s): Rocky Moore, Director of Business Development, Blue Ridge Technologies

Commercial and industrial buildings are responsible for more energy use and CO2 emissions than any other single source on the planet today. On average, HVAC and lighting represent approximately 68 percent of a buildings energy consumption. As BACnet has become the predominate force in integration of automation systems, a new capability has arisen: the ability to unify the biggest energy consumers into one centralized system and thereby gain more control. This presentation will cover the current commercial and industrial building integration landscape and discuss how maximizing efficiency revolves around the unification of building systems under one BACnet umbrella.

LEARNING OBJECTIVES:

1. Understand typical energy consumption in commercial and industrial buildings
2. Review how BACnet is changing the automation landscape to give greater control
3. Learn how unifying systems can achieve greater energy savings
4. Review the different types of communication architectures

AUDIENCE: INTERMEDIATE | CEU: 0.1



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Operations and Maintenance

T3.E Professional Grounds Management Society and Landscape

Room: St. Thomas A

Presenter(s): Kent Bagnell, Assistant Director, Venetian/Palazzo Resort

The PGMS Landscape Management and Operations Accreditation program is a dynamic evaluation tool that can be utilized by facilities that have landscape services or grounds components. Through peer expertise, the program evaluates strategic grounds management principles and practices that produce and guide the delivery of properties to an attractive, healthy, sustainable and high quality state. The PGMS Landscape Management and Operations Accreditation verifies and recognizes an environmental management systems approach applied to a grounds management template.

LEARNING OBJECTIVES:

1. Explain the PGMS Landscape Management and Operations Accreditation
2. Understand how the PGMS Landscape Management and Operations program benefits your organization
3. Identify strategic grounds management principles and practices that bring grounds to an attractive, healthy and high quality state

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

T3.F Budgeting a Carpet Care Maintenance Plan

Room: St. Thomas B

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: BEGINNER | CEU: 0.1

Operations and Maintenance

T3.G Protecting Your Facility from Power Failure

Room: Jamaica

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 good, 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 that have invested in, or are considering investing in, an emergency generator set.

LEARNING OBJECTIVES:

1. Identify educational programs offered by EGSA
2. Understand the causes of the most common utility power failures
3. Compare and contrast emergency, standby and prime power
4. Gain knowledge of the various accessories required in a generator set system

AUDIENCE: BEGINNER | CEU: 0.1

Leadership

T3.H Utilizing Innovation to Transform the Future FM

Room: Antigua A

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

Radical changes are occurring for the future FM. Older FMs can help by changing the paradigm from a management function to a leadership role. Developments in Europe, Saudi Arabia and all over the United States, show how young FMs can create value, use performance metrics, and seek expertise. The exposure to simple innovative leadership concepts will help FMs stay in the leadership role instead of being forced to become more technical. FMs need to move away from the price-based to value-based environment to hire expert vendors. Expertise actually delivers high quality for a lower cost. Join us for this innovative discussion.

LEARNING OBJECTIVES:

1. Improve productivity with performance metrics
2. Understand why it's important for the FM to spend less time in a technical role and more time in a leadership role
3. Develop alignment of resources, expertise and company goals to help FMs respond proactively
4. Explain how to justify your position and show value to the company

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainability

T3.I LEED Version 4 Overview

Room: Antigua B

Presenter(s): Michael D. Arny, President, Leonardo Academy, Inc.

This session provides an overview of the changes between LEED v3 to LEED v4, and what goals are trying to be achieved through the new version. Goal of LEED v4: Increased focus on emissions reduction; examples: energy credits, commuting credits, emissions offsets. Goal of LEED v4: Increased focus on life cycle impacts of materials and purchases; examples: supply chain for retail.

LEARNING OBJECTIVES:

1. Explain the goals of the changes to LEED-EBOM in v4
2. Learn about the new Location and Transportation Category in LEED-EBOM in v4
3. Review changes in the SS Credit Category in LEED-EBOM in v4
4. Review the changes in the WE, EA, MR and EQ Credit Category in LEED-EBOM in v4

AUDIENCE: BEGINNER | CEU: 0.1

3:10 P.M.

Safety and Security

T4.A CYA: Covering Your ADA: What Your Architects and Engineers are Missing

Room: Montego A

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

This session is designed to help facility managers understand the basic applications and definitions contained within the Americans with Disabilities Act as they relate to accessibility in design and construction. The discussion will shine light on the various ways that ADA compliance and accessible design can impact your bottom line and the business benefits of accessibility will be explained.

LEARNING OBJECTIVES:

1. Understand the basic elements of the ADA
2. Identify when ADA applies and when there are exceptions
3. Learn how ADA compliance saves money
4. Recognize the business benefits of accessibility

AUDIENCE: INTERMEDIATE | CEU: 0.1

Internet of Things

T4.B Lighting, Sensors and the IoT

Room: Montego C

Presenter(s): Don Barnetson, CTO, Lunera Lighting

As more facilities adopt strategies to capitalize on the IoT and the benefits of intelligent buildings, it is becoming increasingly important for every building to do the same. In order to truly reap the benefits of new intelligence at the edge, facilities must define an IoT strategy that will support the connected enterprise into the future. This session will consider what it takes to develop a winning IoT strategy and help you grow to take advantage of expanding data sources and focus on the business outcomes that will create greater value for your facility.

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LEARNING OBJECTIVES:

1. Explain how LED lighting with embedded sensors creates a cloud network
2. Identify ways to create an intelligent building through LED lighting
3. Discuss how LED lighting is the basis to create an IoT network
4. Create a plug-and-play network with autonomous sensing

AUDIENCE: INTERMEDIATE | CEU: 0.1

Building Automation

T4.D BACnet to the Cloud: From Concept to Reality

Room: Andros

Presenter(s): Varun Nagaraj, President and Chief Executive Officer, Sierra Monitor Corporation

SMC will share real case studies of OEMs and integrators that have automatically discovered and securely connected BACnet-based products and control networks to the cloud. Applications include: remotely monitoring and supporting boilers, humidifiers, lighting controllers, generator sets, power meters and more; and integrating control or "Operational Technology" (OT) networks to IT management infrastructure.

LEARNING OBJECTIVES:

1. Understand the benefits to connecting devices to the internet
2. Learn about the benefits of IoT beyond just connectivity
3. Review the benefits to having applications and control that run in the field and not just the cloud

AUDIENCE: BEGINNER | CEU: 0.1

Safety and Security

T4.E Fall Protection on Low Sloped Roofs

Room: St. Thomas A

Presenter(s): Brian Stickler, General Manager - Northeast, Kee Safety, Inc.

This presentation will help facility and maintenance personnel learn to easily comply with OSHA's 1910.23 fall protection standards for general industry. Attendees will be able to identify hazards on a roof and understand what needs to be done in order to keep staff, employees and contractors safe while working on roofs.

LEARNING OBJECTIVES:

1. Learn how to identify hazard areas on the roof
2. Determine what OSHA considers to be a hole on the roof
3. Recognize how to keep your employees and contractors safe on the roof
4. State what a safe distance is from the edge of the roof

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

T4.F Essential FM Technologies

Room: St. Thomas B

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

Technology plays a big role of supporting facility managers in 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. Gather insight from case studies on FM installation and use within organizations
3. Create a road map for justifying FM technology at your organization

AUDIENCE: BEGINNER | CEU: 0.1

Sustainability

T4.G The Perfect Marriage of Cx Software & CMMS

Room: Jamaica

Presenter(s): Daniel Forino PE, CCP, LEED AP BD+C, Engineering Manager, Horizon Engineering Associates

Michael Kozinets, Chief Technology Officer, Facility Grid

Software applications have become increasingly commonplace in the construction industry with the facilities staff switching over to a CMMS system after turnover. This session provides an overview and will offer key benefits of using commissioning software which ties together all the information gained on the job by the Commissioning Team—and the associated documentation (O&M's, As-Builts, Blank Commissioning Checklists, Sequence of Operations) which can then be handed over to the O&M staff for continued utilization as well as electronic population of the CMMS. This greatly reduces inefficiencies at project handover by eliminating manual re-entry of information thus reducing the time it takes to put the CMMS software into production. The session will be conducted from both a commissioning provider (HEA) and cloud-based cx software platform developer (Facility Grid) viewpoints.

LEARNING OBJECTIVES:

1. Identify keys to using software applications in the construction industry
2. Discuss how O&M staff benefits from the data collected by the commissioning team
3. Understand the benefits and framework of commissioning software
4. Realize the potential of commissioning software for CMMS

AUDIENCE: BEGINNER | CEU: 0.1

Leadership

T4.H When FM Leaders Fail

Room: Antigua A

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

We propel FM professionals into leadership roles. 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. 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 corrective failing leadership
4. Assess long-term impact of failing leadership on FM organization

AUDIENCE: INTERMEDIATE | CEU: 0.1

Energy

T4.I

PACE Financing – A Paradigm Shift in Funding Energy Efficiency and Renewable Energy Projects

Room: Antigua B

Presenter(s): Scott Ringlein, Founding Partner, The Energy Alliance Group of North America

Industrial and commercial building owners have continued to ask the same question, "How do I reduce my energy costs, with no capital investment, while improving my bottom line from day one?" This question no longer has to go unanswered! PACE, is a groundbreaking and innovative method of funding energy efficiency and renewable energy projects. Adopted by 32 states, this paradigm shift in project funding allows building owners to utilize voluntary property tax assessments to secure financing. PACE, a non-recourse, fixed rate, and long-term method of financing, can fund energy efficiency and renewable energy projects while improving the bottom line.

LEARNING OBJECTIVES:

1. Discuss what PACE financing is, where it is available and the value it creates for property owners
2. Identify projects that qualify for PACE financing
3. Learn key due diligence points and the process for applying and being approved for funding
4. Understand the PACE financial model through a case study

AUDIENCE: INTERMEDIATE | CEU: 0.1

4:10 P.M.

Safety and Security

T5.A Active Shooters - What your tenants should know

Room: Montego A

Presenter(s): Jeff Geoghagan, Senior Consultant, Alexo Corporation, LLC

Statistics show that 17 percent of the deaths that occur in the workplace occur as a result of violence whereas only 3 percent occur as a result of a fire or explosion. Property managers have worked hard to mitigate the risk of a fire, but with workplace violence becoming increasingly prevalent shouldn't the same effort be put towards violence in the workplace? The simple answer is that there are things that can be done to mitigate these threats. This presentation focuses on three mitigation strategies: prevention, preparation and reaction.



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NFMT/VEGAS Booth 415

EDUCATIONAL SESSIONS

LEARNING OBJECTIVES:

1. Learn strategies for early identification and intervention
2. Identify steps that individuals and the organization can take to prepare for threats
3. Discuss strategies for individuals to employ to protect themselves and others during an event
4. Understand how to prevent, prepare for and react to workplace violence threats

AUDIENCE: INTERMEDIATE | CEU: 0.1

Internet of Things

T5.B Connected Lighting, IoT and Endless Possibilities!!!

Room: Montego C

Presenter(s): Ross Eberlin, Product Marketing Manager, Osram Sylvania

IoT provides network connectivity to everyday objects, enabling them to send and receive data across a wired, wireless or hybrid network. Connected, smart lighting systems that can be both monitored and controlled from a centralized system, or via the cloud, is required for any successful IoT and/or smart building implementation. This session will explore the benefits offered by smart buildings and will specifically look at economic benefits that come with connected lighting.

LEARNING OBJECTIVES:

1. Describe Internet of Things (IoT)
2. Evaluate the benefits offered by smart buildings
3. Explain the transition of light from a source of illumination to a source of information
4. Assess other economic benefits offered by connected lighting

AUDIENCE: BEGINNER | CEU: 0.1

Technology

T5.C How BIG DATA Will Drive Facility Managers and Maintenance

Room: Montego E

Presenter(s): Michael Flores, Vice President, Sales, Flywheel

We are now officially in the BIG DATA era! As more buildings and operators implement building management systems (BMS), the need to understand and analyze building data is growing at an exponential rate. Owners are compounding the challenge for operators by requiring more with less in order to buy right and sell high for increased profits. Building engineers along with facility managers have to figure out how to easily and quickly understand and analyze their data in order to stay ahead of problems and control costs. So how do they do this? How do they make every building a top performing building in a portfolio? Real time accurate data is the answer but how? This presentation will look at where to start and how to easily turn building data into actionable tactics.

LEARNING OBJECTIVES:

1. Define big data
2. Identify the data that buildings currently contain and where this data can be found
3. Understand how data improves operations and utilization of people

4. Observe how big data drives operational costs down and makes you more competitive

AUDIENCE: INTERMEDIATE | CEU: 0.1

Building Automation

T5.D The Future of Building Automation is Tags

Room: Andros

Presenter(s): Chris Hollinger, Senior Product Manager, Integrated Systems, Siemens Building Technologies, Inc.

Tags are prevalent in our daily lives, as we see them referenced in popular culture on a daily basis. Increasingly tags will have a place in building automation systems as well, providing new and better ways to represent intelligence in building automation systems. This session will show ways to utilize tagging in systems to improve implementation and usability.

LEARNING OBJECTIVES:

1. Establish why tags are relevant to building automation
2. State why tags are helpful in building automation
3. Provide examples of how tags can produce better solutions for building

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

T5.E How to Pass Compliance Audits With Your CMMS

Room: St. Thomas A

Presenter(s): Greg Perry, CRL, Sr. Consultant, Professional Services, eMaint

Organizations across all industries have to deal with passing audits - whether they are internal standards or come from outside regulatory agencies, it can become a headache to keep up with the ever-changing standards and demonstrate compliance at a moment's notice. Maintenance professionals everywhere are using their Computerized Maintenance Management Software (CMMS) to help pass audit scrutiny in an organized, streamlined way. During this session, Greg Perry, CRL, Sr. Consultant at eMaint, will provide attendees with an overview of how to use their CMMS solution to automate and streamline maintenance management processes in order to successfully pass compliance audits.

LEARNING OBJECTIVES:

1. Gain an overview of how a CMMS solution helps organizations pass audits
2. Understand which tools within CMMS can be used for tracking regulatory compliance
3. Learn how to set up your CMMS to capture the data needed for audits
4. Hear real life examples of organizations who have utilized CMMS to pass audits

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

T5.F Importance and Benefits of Predictive Maintenance Programs

Room: St. Thomas B

Presenter(s): Ed Rybarczyk, Program Manager for Mechanical & Fluid Power, NTT Training

Are you looking for cost savings? This lecture will give an overview of what predictive maintenance means. We will review various equipment and techniques that can be used for predictive maintenance processes within your facility. Learn what new technologies exist in the maintenance world and see how they can be implemented within your existing maintenance programs. Four areas of predictive maintenance will be covered (infrared thermography, oil analysis, ultrasound testing, and vibration analysis). This session will highlight ways to find positive alternatives to existing maintenance so that your equipment won't run-to-fail, and you will learn how to reduce downtime and increase productivity through best-practices of preventative maintenance.

LEARNING OBJECTIVES:

1. Understand the different methods of predictive maintenance
2. Identify what type of maintenance program you want to incorporate within your facility
3. Discuss the future commitments needed/required to invest in an effective predictive maintenance program and determine how much equipment you need/want to purchase to implement an effective program
4. Learn the basics of infrared thermography, oil analysis, ultrasound testing and vibration analysis

AUDIENCE: BEGINNER | CEU: 0.1

Energy

T5.G Energy Management, Smart Controls and Automation

Room: Jamaica

Presenter(s): Guillermo Cengotita, COO-USA, Acotel Net

Carlo Alberto Marchi, Technology Strategy Director, Acotel Net

Today, private and public organizations are realizing that there is a need to evaluate the assets in their portfolio in a smarter and more efficient way. Ever changing customer demands, climate change, and budget constraints are driving the demand for intelligent and smarter energy solutions. The result is the development of smart energy solutions and energy management services that are changing the way facility owners visualize and dynamically manage energy performance for increased efficiency, reduced operational inefficiencies and higher cost savings.

LEARNING OBJECTIVES:

1. Learn that energy efficiency and management is applicable to all industries
2. Review how to take proactive action to analyze the major energy costs
3. Understand how to use energy survey information when making a decision to invest in energy efficiency technologies

AUDIENCE: BEGINNER | CEU: 0.1

Share Your Success! 4:10 - 6:40 P.M.

Leadership

T5.H Women in FM Roundtable and Reception

Room: Antigua A

Panelists: Cindy K. Heller, SFP, FMP, Manager, Real Estate Services & Facility Programs, National Security Technologies

Ellen Newell, Associate Director Facilities Management, Arizona State University

Elinor Ochoa, District Manager, SODEXO

In this session, gather with highly accomplished panelists as they discuss what women, men, and their managers should be considering now, such as how to prepare the next wave of industry leaders. Work-life balance, mentoring, career advancement, and other top of mind topics will be highlighted. This highly interactive roundtable session allows you to add your voice to the conversation, and continue networking with peers as we move into the reception following the panel. 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 the importance of networking and mentorship
3. Understand how to attract and retain other females in FM
4. Interact with peers and panelists and continue the discussions started in the session

AUDIENCE: INTERMEDIATE | CEU: 0.1

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EDUCATIONAL SESSIONS

WEDNESDAY NOVEMBER 2

8:00 A.M.

Sustainability

W1.A Innovative Workplaces and WELL Certification

Room: Montego A

Presenter(s): Ray Carney, Vice President, Markon Solutions

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

LEARNING OBJECTIVES:

1. Learn the costs and opportunity of poor well-being
2. Understand the WELL Certification and International WELL Building Institute
3. Obtain knowledge regarding the seven WELL concepts
4. Opportunities to install wellness in the workplace and the impact

AUDIENCE: BEGINNER | CEU: 0.1

Internet of Things

W1.B Digitization of Building Systems through IoT

Room: Montego C

Presenter(s): Hari Srinivasan, Product Manager, Cisco Systems

As buildings become smarter, more and more (un)connected devices are becoming connected and converging onto a standards based digital infrastructure. This session will highlight the enabling technologies and trends for connectivity, on-boarding, security and management that are making digitization possible, opening up new opportunities and use cases across different industry verticals.

LEARNING OBJECTIVES:

1. Identify trends for connectivity
2. Define digitization and understand what it means for your building systems
3. Highlight the enabling technologies that make digitization possible

AUDIENCE: INTERMEDIATE | CEU: 0.1

Leadership

W1.C Strategic FM Outsourcing: The Contract Isn't the Focus

Room: Montego E

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

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

With outsourcing as an accepted, everyday extension of the FM organization, few FM organizations exist today without some form of outsourced services. Still, many FM organizations have difficulty establishing an outsource arrangement that is strategic, effective and transparent. This session identifies some of the most common mistakes FM organizations make when they initiate an outsourcing campaign and provides a "six easy pieces" approach to establishing a successful and sustained outsource relationship.

LEARNING OBJECTIVES:

1. Know potential pitfalls of typical outsourcing prior to developing a strategy
2. Understand the importance of making outsourcing commitments that are appropriate and doable
3. Determine goals and expectations from outsourcing arrangement as preliminary strategy
4. Perform the critical analysis prior to developing an RFP and establish a solid RFP document

AUDIENCE: INTERMEDIATE | CEU: 0.1

Leadership

W1.E Implications of the new NLRB Joint-Employer Rule

Room: St. Thomas A

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

In 2015, the National Labor Relations Board ("NLRB"), the federal agency responsible for regulating labor law, issued a controversial landmark decision that has the potential to upend traditional labor relations. The decision changed the test for determining who an "employer" of a particular worker is, opening up employers who use contract workers or temporary employees to increased organizing and labor dispute concerns, whether or not those employers are unionized.

LEARNING OBJECTIVES:

1. Understand the nature of the traditional NLRB joint-employer test
2. Learn how changing practices in the use of temporary workers contract employees and independent contractors is changing the nature of employer-employee relationships
3. Identify potential impacts of the NLRB's new Joint-Employer Rule on your organization
4. Take away tips for reviewing existing relationships with contract workers, temporary staffing agencies and independent contractors in order to limit legal headaches in the future

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W1.F Making Predictive Maintenance Work in Your Facility

Room: St. Thomas B

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

Many institutional and commercial facilities are stuck in reactive and preventive maintenance modes. While these two strategies remain popular, a growing number of facilities have adopted elements of predictive maintenance (PdM), though few have bought into it completely. PdM can require investments in technology and change in practices, both of which are challenging tasks. Still, plenty of PdM practices can be adopted without heavily investing in technology while still reducing problems that undermine building conditions and resilience. This webcast will help assess where your organization's maintenance approach currently stands and will provide a guide for transitioning to PdM. It will highlight discussion points for conversing with upper management on adopting PdM, demonstrating the value of the maintenance program, and acknowledging the way PdM can produce bottom-line results.

LEARNING OBJECTIVES:

1. Define PdM and discuss the ways it differs from reactive and preventive maintenance
2. Explain the benefits of PdM
3. Identify the common roadblocks to implementing PdM
4. Offer recommendations for turning the investments in PdM technology into tangible, bottom-line results

AUDIENCE: BEGINNER | CEU: 0.1

9:00 A.M.

Safety and Security

W2.A Emergency Planning 101

Room: Montego A

Presenter(s): Justin James Stewart, Facilities Manager, BYU Library, Brigham Young University

Every building is unique and has different issues and concerns. It is important to make sure needs are met of those who use facilities and it is key for every facility to have a safe and reliable emergency plan. This presentation will help others understand how and why we created our own emergency response plan, which can be a very difficult and overwhelming process. Attend this session to see our plan and ask questions that will help you as you build your own emergency plan.

LEARNING OBJECTIVES:

1. Give an overview of HBLL Library E-Plan
2. Discuss how to create your own emergency plan
3. Highlight do's and don'ts while creating your emergency plan
4. Determine how to keep a current/updated plan in place

AUDIENCE: INTERMEDIATE | CEU: 0.1

Internet of Things

W2.B IoT Solutions For Commercial Buildings, Lighting and Beyond

Room: Montego C

Presenter(s): Sachin Andhare, Director, Vertical Market, Commercial, Acuity Brands Lighting

The internet of things (IoT) is ushering in new technologies to optimize energy efficiency, reduce operating cost, and improve occupant comfort in commercial buildings. Lighting is at an inflection point—the focus has shifted from being a commodity that provides basic illumination to a valuable resource that can offer human centric lighting (HCL) to improve productivity, analytics for better utilization and stream real time data to enable new applications such as wayfinding. With the advent of wireless controls, embedded sensors, and cloud software, vendors have the capability to offer lighting solutions integrated with HVAC (BMS) controls that make buildings safer, smarter, and more productive. This greatly simplifies the way commercial buildings are managed, monitored and operated. This presentation will review key IoT applications for commercial buildings and will highlight services that will pave the way for buildings of the future.

LEARNING OBJECTIVES:

1. Review key IoT applications for commercial buildings
2. Discuss emerging technology

3. Highlight services that will pave the way for buildings of the future

4. Identify lighting solutions that can make buildings safer and more productive

AUDIENCE: INTERMEDIATE | CEU: 0.1

Leadership

W2.C

Reaching the Next Level through Organizational Recommissioning

Room: Montego E

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

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

FM organizations often reach a plateau of performance satisfaction. Whether it be comfort or cost control, the organization is content with processes and outcomes. Yet, as an FM professional, is that our goal? Is that the vision for our organization as seen by employees, customers and senior management? This presentation duo has more than 50 years of experience in providing services and representing owner's and facility occupant's interests. We will facilitate short assessments to attendees, stepping through organizational recommissioning in leadership, workforce development, operations and

maintenance, strategic planning and customer focus. Please join us as we equip you to take your FM operations to a new level.

LEARNING OBJECTIVES:

1. Understand the characteristics of a weary organization
2. Explore the benefits of FM organizational recommissioning
3. Complete a personal assessment of organizational status
4. Discover the key areas in becoming a high performance organization

AUDIENCE: INTERMEDIATE | CEU: 0.1

Building Automation

W2.D

The Life Cycle Value Proposition of Building Automation

Room: Andros

Presenter(s): Ben Dorsey, Chief Content Strategist

In the competitive space of non-residential buildings, performing life cycle assessment (LCA) has become almost mandatory. Likewise, demanding specific return on investment periods for building improvements has become necessary. In this session, we'll explore some of the methodologies and issues of life cycle cost analysis (LCCA) and determine proper expectations for building automation and control components.

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NFMTVEGAS Booth 401

EDUCATIONAL SESSIONS

LEARNING OBJECTIVES:

1. Be able to identify the general process of building life cycle assessment (LCA)
2. Discover resources for performing LCA and cost estimating
3. Appreciate the caveats of building automation that can have an impact on its life cycle value proposition.

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W2.E Pay Now, or Pay Later! Justifying a Proactive Maintenance Program

Room: St. Thomas A

Presenter(s): Ken Stack, P.E., LEED AP, Vice President, Facility Management Solutions and Transitions, C&W Services

U.S. businesses spend an estimated \$800 million on facilities maintenance—but are they spending it at the right time and on the right activities? Knowing the full picture of maintenance options and costs will help you determine the return on proactive maintenance vs. a run to fail model. This presentation can help any facilities team or owner build a better business case for the right maintenance investment, whether it is condition-based, predictive or preventive.

LEARNING OBJECTIVES:

1. List the data required to fully evaluate your maintenance options
2. Understand the elements and pros/cons of CbM, PvM and PdM; and benchmarks for spending in each
3. Evaluate the merits of maintenance approaches against business objectives
4. Learn to create the business case for the right maintenance model for your organization

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W2.F Changes in the 2017 National Electric Code

Room: St. Thomas B

Presenter(s): Mike Leitzel, Electrical Training Specialist, TPC Trainco

In just under a year in September 2017, we will see the introduction of the 2017 version of the National Electric Code. Attend this session to get up to speed on the changes that affect your facility and your workforce, and understand what steps your facility needs to take in order to comply with the new version.

LEARNING OBJECTIVES:

1. Understand the major changes in 2017 NEC
2. Explain what effect the 2017 version will have on workers
3. Identify how facilities can meet compliance

AUDIENCE: BEGINNER | CEU: 0.1

Energy

W2.G Monetizing Large EPACT Deductions

Room: Jamaica

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 1 for 1 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: BEGINNER | CEU: 0.1

Technology

W2.H Four Things You Must Know About Document Management

Room: Antigua A

Presenter(s): James Baron, Director of Facilities Development, Lellyett & Rogers Company

Document management is more than filing, its green! Are you frustrated trying to find facility documents? Rolls of drawings here, stick sets there, shelves of binders and folders. Getting a handle on your facility documents is easier than you think. Attend this session to help your sustainability efforts and free up valuable space by learning best practices for document management.

LEARNING OBJECTIVES:

1. Describe all aspects of document management
2. Explain how to avoid the pitfalls of scanning documents
3. Discuss the cost of not properly managing documents
4. Identify best practices for staying green

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainability

W2.I IAQ in Sustainability Programs: Expanding the Focus from Energy to Occupants

Room: Antigua B

Presenter(s): Elliott Horner, Ph.D., Principal Scientist, UL Environment

Sustainable building programs typically address indoor air quality (IAQ), but often from an energy conservation perspective rather than an occupant comfort standpoint. A study conducted by West Bend Mutual Insurance Company found an increase in employee productivity of up to 8 percent by creating and maintaining good indoor environmental quality in their facilities. The financial impact of creating a healthier indoor environment is estimated to be more than fifty-times the cost savings from energy efficiency measures required for

LEED Silver Construction. This presentation will evaluate IAQ's role in several world renowned sustainable building programs including LEED, WELL, ICGB, IgCC, and others and propose IAQ best practices that can deliver improved financial and productivity results.

LEARNING OBJECTIVES:

1. Calculate the financial and productivity benefits of good IAQ in buildings
2. Understand the critical components of a comprehensive IAQ program
3. Highlight the importance of assessing IAQ during occupancy
4. Compare several of the most well-known sustainable building standards and understand their IAQ requirements

AUDIENCE: INTERMEDIATE | CEU: 0.1

10:00 A.M.

Safety and Security

W3.A Annual Fire Door Inspection Requirements

Room: Montego A

Presenter(s): Hal Kelton, AHC/CDC, CDT, President, DOORDATA Solutions, Inc.

This class is intended for anyone who is charge of maintaining the fire doors for their facility. We will look at the requirements as stated in the International Building Code, International Fire Code and NFPA 80 & 105, 2013. There are 13 points of inspection critical to ensuring fire door compliance. We will review these requirements and discuss what can be done in the field to maintain compliance or repair non-compliant fire doors, all the while protecting the integrity of the fire door labeling.

LEARNING OBJECTIVES:

1. Understand the 13 points of inspection for fire doors required by NFPA 80
2. Identify the top non-compliant fire door issues facing most facilities
3. Understand what work can be performed in the field on a fire door
4. Describe best practices for maintaining your fire doors

AUDIENCE: INTERMEDIATE | CEU: 0.1

Sustainability

W3.B LEDs and Lighting Controls: Exciting Future With Some Cautions

Room: Montego C

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 and what attendees must do to prepare for that expansion
2. Examine the implications to business 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

Technology

W3.C Data, Data Everywhere

Room: Montego E

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

Today, maintenance organizations have access to an incredible amount of information, but the costs associated with data acquisition compared to the resulting benefits can be lopsided. This presentation will focus on strategies to collect minimal data leading to key performance indicators, which can have a significant impact on the maintenance business.

LEARNING OBJECTIVES:

1. Differentiate data needs versus wants
2. Discuss strategies for data acquisition
3. Identify desired outcomes
4. Demonstrate how to use results to improve performance

AUDIENCE: BEGINNER | CEU: 0.1

Building Automation

W3.D HVAC 101: Chillers and VFDs and BACnet – Oh My!

Room: Andros

Presenter(s): Tim Skell, Sr. HVAC Application Engineer, ABB Inc

A multipurpose (office & factory) facility recently underwent a major HVAC renovation, including the addition of a central chiller plant and thermal (ice) storage. This renovation will be used as a case study, educating the attendee on how a complete HVAC system operates, energy savings opportunities, along with how BACnet communications contributed to an intelligent and sustainable building.

LEARNING OBJECTIVES:

1. Examine the functionality of major HVAC equipment such as chillers, AHUs, cooling towers and VFDs
2. Clarify how to use BACnet to create an intelligent building
3. Demonstrate how VFDs play an essential role in energy savings, comfort and control

AUDIENCE: BEGINNER | CEU: 0.1

Operations and Maintenance

W3.E The Importance of a CMMS as a Knowledge Management Tool

Room: St. Thomas A

Presenter(s): Chris Kluis, VP of Strategy and Business Development, Mintek Mobile Data Solutions

Knowledge management is evolving as an important factor in operations and maintenance practices due to the complexity of equipment, processes and solutions. Additionally, employees with 20-30 years of experience are now retiring and companies are bringing in millennials to fill that gap. Companies should look to take knowledge from the older generation and integrate it into software processes and use a CMMS as a knowledge transfer tool.

LEARNING OBJECTIVES:

1. Highlight the importance of checklists for facility engineers

2. State statistics on rate of retirement and changing demographics in facility maintenance
3. Discuss knowledge transfer through the use of a CMMS
4. Show how a CMMS improves technician productivity

AUDIENCE: INTERMEDIATE | CEU: 0.1

Safety and Security

W3.F The ADA - Stay Ahead of the Curve

Room: St. Thomas B

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. More than 300 private ADA lawsuits are filed in U.S. Federal Courts each month and that number continues to grow. Join Joan Stein who has more than 25 years’ experience as an ADA consultant as she discusses the new focuses and new regulations underway for ADA, plus steps you can take to make sure you are compliant.

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
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*

*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



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EDUCATIONAL SESSIONS

Operations and Maintenance

W3.H Risky Rocks and Damp Dangers

Room: Antigua A

Presenter(s): Dale Walsh, President, Walsh Certified Consultants, Inc.

The new OSHA silica standard impacts maintenance staff who may finish drywall, saw/grind/demolish cement or masonry, or sandblast materials. This presentation will cover the basics of the new standard and will highlight other little known facts about asbestos. The ASTM Legionella standard for water system inspections and sampling as well as a new ASTM standard for evaluating a property for current and potential moisture intrusion will be discussed. A current example of naturally occurring asbestos will be highlighted: a project south of Boulder City regarding the construction of a new bypass freeway.

LEARNING OBJECTIVES:

1. Learn the basics of the new OSHA silica standard
2. Gain new knowledge and refresh old information regarding asbestos issues
3. Become familiar with the ASTM standard for inspection of water systems for Legionella and for visual moisture assessments
4. Identify four hazards that may impact the operations and maintenance of a facility

AUDIENCE: BEGINNER | CEU: 0.1

Energy

W3.I Utility Benchmarking and Disclosure

Room: Antigua B

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 SF 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 what the unit of measurement is in utility benchmarking
2. Name a couple cities or states 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

2:10 P.M.

Internet of Things

W4.B IoT, Analytics and Your Building: Hype or Reality?

Room: Montego C

Presenter(s): Kevin Binnie, Director of Product Management and Marketing, CopperTree Analytics

This presentation will clarify the meaning of the frequently used term IoT and discuss its true benefits. We will cover the area of analytics: discuss what are they, how they differ from BMS, BAS and how they make a difference in buildings. The presenter will compare the different types of analytics that are available and discuss the use of each. Drawing on real world examples, methods of incorporating analytics into daily FM workflow will be discussed.

LEARNING OBJECTIVES:

1. Understand what IoT is and how it applies to buildings
2. Discuss the available types of building analytics
3. Analyze the differences between BAS, BMS and analytics
4. Recognize ways to incorporate analytics into FM workflow

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W4.C What Does a Mature Asset Management Program Look Like?

Room: Montego E

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 been focused on aspects 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. Attend this session to learn what a mature asset management program looks like and understand how to measure the impacts of your program, all the way from foundational elements to mastery.

LEARNING OBJECTIVES:

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

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

W4.E The State of Facilities Management Software

Room: St. Thomas A

Presenter(s): Shawn Dawson, CEO, NetFacilities

The main mission is to revolutionize the way businesses work together with their staff, customers, service partners, and product suppliers. This kind of integration is critical in today's fast-paced business world. Companies can save time and money, and get exceptional visibility into the health of their facilities and operations all with one centralized and up-to-date solution

LEARNING OBJECTIVES:

1. Discuss the emerging FM technologies
2. Specify the efficiencies that can be gained
3. Review the current trends in technologies

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W4.F Concrete Slabs, Moisture, and Flooring

Room: St. Thomas B

Presenter(s): Dean Adams, Senior Technician, CTLGroup

Terry Willems, Principal Scientist, CTLGroup

These days, moisture in slabs is a likely cause of flooring failures because many environmentally friendly adhesives are unable to withstand high moisture exposure. It is important to understand how moisture behaves in concrete and how concrete behaves after installation of resilient and low permeability floor coverings. Prudent project planning and scheduling, along with proper moisture testing and moisture mitigation if needed, all positively contribute to successful flooring installations.

LEARNING OBJECTIVES:

1. Identify sources of moisture that cause floor and flooring system damage
2. Evaluate building design details, construction materials and means and methods to avoid problems
3. Understand how concrete mix designs, finishings, curing and drying times affect moisture levels in concrete slabs
4. Become familiar with quality control measures that can be used to minimize delays and problems

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

W4.G What's your Power Quality I.Q.?

Room: Jamaica

Presenter(s): Ram Kaushik, Offer Manager, Power Management, Schneider Electric

Bob Meyers, Solutions Engineer, Schneider Electric

Most critical facilities have energy management programs (at varying degrees of maturity) in place. However, organizations often suffer from low "PQ IQ" (power quality intelligence quotient) by severely underestimating two critical, related dimensions of operations management - power reliability and power quality (PQ). This presentation will examine the hidden effects of poor PQ, associated costs, and pertinent industry standards. Under-

standing common categories of PQ phenomena, and typical analysis tools/skills can help manage critical power infrastructure effectively. Traditionally, such expertise has been confined to consultants, but modern analytics tools now make PQ data more accessible to operational staff, allowing for proactive management.

LEARNING OBJECTIVES:

1. Examine the industry standards that address power quality
2. Identify the common categories of power quality problems
3. Explain the impact of power quality problems and estimate associated costs
4. List typical tools and skills needed to monitor and manage power quality

AUDIENCE: INTERMEDIATE | CEU: 0.1

Technology

W4.H Executive Considerations for Data Center Enterprise

Room: Antigua A

Presenter(s): Mark S. Evanko, Principal, BRUNSPAK

Learn about the major considerations of board and/or senior management when it comes to developing enterprise data center solutions. A few solutions include: total cost of ownership vs. risk, the role of cloud/colocation vs. build, the impact of network security vs. liability, and how to best utilize cloud. This presentation will highlight data center solution trends for 2016 and beyond and it will deliver vendor-neutral best practices.

LEARNING OBJECTIVES:

1. Understand what "board/senior management members" consider when considering an enterprise data center solution
2. Discuss why "going to cloud" isn't the only option
3. Identify data center solution trends for 2016 and beyond
4. Indicate who contributes within an organization to the data center enterprise solution

AUDIENCE: INTERMEDIATE | CEU: 0.1

Operations and Maintenance

W4.I The True Value of Clean

Room: Antigua B

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

3:10 P.M.

Sustainability

W5.B The Building Enclosure and BECx: Sustainability's Next Reality

Room: Montego C

Presenter(s): Christine M. Quigley, PE RRC LEED AP BD+C, Principal In Charge/Senior Project Manager, Terracon Consultants, Inc.

Over the years, owners have been faced with huge energy costs related to mechanical, electrical and plumbing system operations. The costs to install, upgrade and/or repair these systems have not resulted in the intended energy savings. Instead these systems have to be designed to work in conjunction with the other building systems, in particular the building enclosure. In this session you will learn what the A/E/C communities are now realizing and why the building enclosure, including the thermal, moisture and air barrier systems, are a fundamental piece of sustainability's next reality.

LEARNING OBJECTIVES:

1. Understand how the building enclosure protects the interior environment and the health and safety risks of building enclosure design flaws and construction defects: Lessons Learned in Building Enclosure Construction
2. Discuss the impacts to overall energy efficiency, cost, performance, health, welfare and safety of performing Building Enclosure Commissioning (BECx) simultaneously

AUDIENCE: INTERMEDIATE | CEU: 0.1

Safety and Security

W5.C Beeps, Leaks, and Easy Tweaks: Top 5 Solutions to Fire Protection Challenges

Room: Montego E

Presenter(s): Rick Reynolds, Vice President of National Accounts & Southern Region Operations Manager, ORR Protection Systems

Fire alarm and suppression systems are installed to protect your business, your people, and your property. Yet, these systems often become irritating problems due to recurring issues like false alarms or costly emergency service calls at inconvenient times. This seminar is designed to address common ailments in your fire protection system, teaching you why problems persist and what you can do to fix existing issues while avoiding others in the future. Additionally, you will finally understand the fire code requirements for the inspection, testing, and maintenance of your fire protection systems, saving you valuable time, money, and maybe even someone's life.

LEARNING OBJECTIVES:

1. Develop an understanding of how your fire system operates
2. Learn the common reasons fire protection systems fail
3. Review how to avoid remodeling nightmares related to fire protection systems
4. Get up-to-date on all NFPA requirements for code-compliance

AUDIENCE: BEGINNER | CEU: 0.1

Operations and Maintenance

W5.E Elevator Essentials for Facility Management

Room: St. Thomas A

Presenter(s): Lee Rigby, Certified Elevator Inspector, ATIS Elevator Inspections

This presentation will inform the basic principles of modern elevator operation, including newer features and equipment such as MRL (MachineRoomLess) elevators. Typical maintenance requirements and what to expect from the elevator maintenance firm will be covered along with the responsibilities of building facilities. Requirements for inspections, and periodic tests will be explained, and typical life expectancy of elevator equipment for planning modernization.

LEARNING OBJECTIVES:

1. Understand how elevators work
2. Discuss what to expect from your elevator maintenance firm
3. Highlight requirements for safety inspections according to the safety code for elevators and escalators
4. Determine ways to plan for modernization

AUDIENCE: INTERMEDIATE | CEU: 0.1

Safety and Security

W5.F Implementing NFPA 70E 2015 for Arc Flash Safety

Room: St. Thomas B

Presenter(s): Jay Smith, Executive Vice President, Lewellyn Technology

The practical application of NFPA 70E to real-world electrical safety programs and OSHA compliance can be confusing and at times overwhelming. In this intermediate-level presentation, attendees will be equipped with the knowledge and perspective needed to implement this standard for electrical safety in the workplace, and keep their employees safe from electrical hazards while addressing the recent changes to the 2015 NFPA 70E.

LEARNING OBJECTIVES:

1. Understand how OSHA and NFPA 70E work together to protect employees
2. Learn what an effective electrical safety program should include
3. Recognize how to ensure you have qualified employees
4. Review how to manage the changes with the new 2015 NFPA 70E

AUDIENCE: INTERMEDIATE | CEU: 0.1

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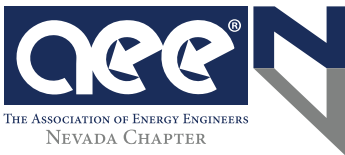
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www.fmmug.org

The mission of the Facilities Management Maximo User Group (FMMUG) is to provide an educational forum for IBM Maximo users in the facilities management industry. The group meets semi-annually, providing workshops and education to its members. Here, they may share information, methods, best practices and experiences. This exchange of information is designed to optimize the use of Maximo within their organization.

**Facility Maintenance Decisions Magazine**

Booth# 415
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Milwaukee, WI 53209
414-228-7701
www.facilitiesnet.com/fmd

Official media sponsor of NFMT Vegas. *Facility Maintenance Decisions* is the only magazine written exclusively for facility maintenance and engineering managers at commercial and institutional facilities. Its 35,000 monthly readers are responsible for the safe, energy-efficient and reliable operations of their buildings and the maintenance of their grounds. These in-house facility experts rely on *FMD* for practical information about the technology systems, components and materials that ensure the long-term success of their operations. Find out more at www.FacilitiesNet.com/FMD.

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IFMA is the world's largest and most widely recognized international association for facility management professionals, supporting 24,000 members in 104 countries. Formed in 1980, IFMA certifies professionals in facility management, conducts research, provides educational programs, and produces World Workplace, the world's largest facility management conference and exposition. For more information, visit the IFMA press room or www.ifma.org.

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Lewellyn Technology is an industry leader in arc flash services and combustible dust services as well as electrical safety training.

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www.nfrc.org

NFRC is a nonprofit, public interest organization that provides energy performance ratings to empower homeowners and commercial building owners to compare windows, doors, and skylights before making a purchase.

National Fire Sprinkler Association

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816-898-6101
www.nfsa.org

NFSA represents fire sprinkler contractors, suppliers, manufacturers, designers, authorities having jurisdiction and others involved in the fire sprinkler industry. In addition to representing its members, NFSA provides technical expertise and training for building owners and managers who own and maintain fire sprinkler systems.

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NEON ENERGY

Neon Energy

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Nevada Chapter of IFMA

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702-295-2748
www.nvifma.org

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Nevada Professional Facility Managers Association

Booth# 124
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Las Vegas, NV 89193
702-798-5156
www.npfma.com

The mission of the organization is to be a professional association dedicated to the enhancement of engineering, maintenance, operations and management of commercial, institutional and industrial facilities. We will move toward the future enlightened through education, communication and alliance. These will be the keys to success in our association and in our industry.

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NFMT Events is a suite of live events produced throughout the year by *Building Operating Manage-*

ment magazine and *Facility Maintenance Decisions* magazine. Additional events include NFMT 2017 in Baltimore, MD March 7-9, High-Performance Buildings and Workplaces in Dallas, TX May 17-18, Critical Facilities Summit in Minneapolis, MN October 23-25. To learn more about any of these live events or the NFMT membership program stop by booth 415.

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www.orrprotection.com

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781-569-0646
www.pcvuesolutions.com

PcVue Solutions consolidate monitoring and control of building automation systems for safety, security, access control, fire detection and suppression, elevators and escalators, electrical distribution, HVAC, lighting, blinds, and air quality applied to a single building, a campus or distributed sites. PcVue has the unique capability for Contextual Mobility which improves safety and efficiency while reducing cost of operation and maintenance.

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800-863-2525
www.powerplus.com

Power Plus is a nationwide generator service and maintenance company with design build capabilities for new installations along with a substantial portable generator rental fleet.

Powerful Signal

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435-634-6800
www.powerfulsignal.com

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Booth# 816
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Grand Prairie, TX 75050
972-641-4393
www.preferredllc.net

Preferred, LLC, established in 1972 with locations in Cleveland, Dallas, Denver & Orlando, specializes in the preparation and installation of Tennant concrete floor coatings, resurfacers and polished concrete. Tennant Company manufactures high performance resinous flooring & wall systems; epoxy/urethane coatings, MMA, cementitious urethane and epoxy mortars, static control and parking deck systems for industrial, commercial and decorative applications.



PropertyTRAK

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Olathe, KS 66062
913-888-0810
www.PropertyTRAK.com

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EXHIBITOR LISTINGS

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 888-600-6160
www.reechcraft.com

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RetroLock Corp.

Booth# 429
 17915 Railroad St.
 City of Industry, CA 91748
 844-275-8306
www.retrolock.com

RetroLock - design build door hardware manufacturer and supplier. RetroLock is a woman-owned minority business based in City of Industry, California. We provide a high quality, full commercial hardware line: ANSI/BHMA and UL, DHI certified door hardware including standalone keypad locks, standalone RFID locks, mechanical cylindrical locks, door closers, exit devices, access control solutions and other general door hardware. Connect via LinkedIn.

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Booth# 701
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 Stamford, CT 06901
 805-578-2536
www.rvlti.com

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 Andover, MA 01810
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Booth# 206
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Wagner Meters

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FUTURE EVENTS

NFMT Vegas is just one in a suite of live events produced by *Building Operating Management* and *Facility Maintenance Decisions* Magazines.

NFMT

The flagship event is held every spring in Baltimore, MD. With over 120 conference sessions offered during the three day event, NFMT touches on important topics like energy and technology along with the softer side of the industry like leadership and mentoring. In the expo hall you'll find over 500 vendors with the latest and greatest technology and products.

www.NFMT.com/Baltimore

NFMT High-Performance Buildings and Workplaces

NFMT High-Performance Buildings and Workplaces is a complimentary conference that will focus on key high-performance concepts such as facility resilience, building commissioning, data management and analytics, energy disclosure laws, building controls, net-zero, PACE funding and more.

www.NFMT.com/HighPerformance

NFMT Orlando

NFMT Vegas will be back in 2018, but next year we hope you will join us in Orlando for the return of NFMT Orlando, November 14-15, 2017. NFMT Orlando is a complimentary two-day event that focuses on many of the same themes from NFMT Vegas like sustainability, leadership and career development, maintenance and operations, and safety and security.

www.NFMT.com/Vegas

Critical Facilities Summit

Mission critical facilities can take on a life of their own and need to be operated and managed differently than other commercial buildings. This event is tailored for the 24/7 facilities such as data centers, hospitals, laboratories and trading centers, and fosters network and peer-to-peer problem solving. Whether you are implementing DCIM, considering a colocation data center, consolidating space or looking for clarification on ASHRAE temperature recommendations – this event is for you.

www.CriticalFacilitiesSummit.com

Future Event Dates 2017

BUILDING OPERATING MANAGEMENT'S

NFMT2017

NFMT 2017

March 7-9, 2017

Baltimore Convention Center



NFMT HIGH-PERFORMANCE BUILDINGS AND WORKPLACES

May 17-18, 2017

Arlington Convention Center, TX

criticalfacilitiesSM
— SUMMIT —

CRITICAL FACILITIES SUMMIT

October 23-25, 2017

Minneapolis Convention Center

BUILDING OPERATING MANAGEMENT'S

NFMTORLANDO


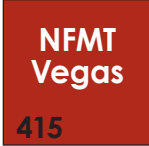

NFMT ORLANDO

November 14-15, 2017

Orange County Convention Center

EXPO HALL MAP

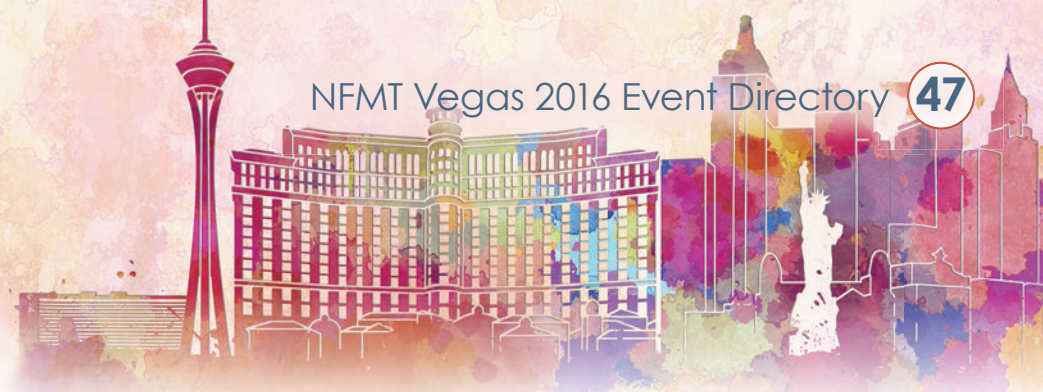
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↑ Entrance ↑

Select Hinges - 600 aisle banner sponsor

ABB - 400 aisle banner sponsor




733	832	833
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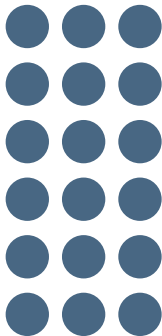
of Things

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**Main Stage
929**








**NFMT
Café**



901

Key

-  NFMT Café
-  Main Stage #929
-  Quick Fire Theater #101
-  NFMT Booth #415
-  Charging Stations #901 - sponsored by ABB and Current, powered by GE

PLATINUM SPONSOR BOOTHS:

 Booth #707

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 Booth #606
powered by GE

 Booth. #315

EXPO HALL EVENTS :

Tuesday

- 11:00 a.m. – 3:00 p.m. Expo Hall Open
- 11:30 a.m. – 2:20 p.m. QuickFire Sessions
- 1:45 p.m. \$1,000 Cash Prize Drawing (Main Stage)
- 2:00 p.m. – 3:00 p.m. Networking Party

Wednesday

- 11:00 a.m. – 2:00 p.m. Expo Hall Open
- 11:30 a.m. – 1:50 p.m. QuickFire Sessions
- 1:45 p.m. \$1,000 Cash Prize Drawing (Main Stage)

FREQUENTLY ASKED QUESTIONS

Where can I go to get questions answered onsite?

Visit the NFMT Vegas booth in the expo hall, #415 or the show office in the expo hall.

What are the concession stand hours?

Concession stands are located inside the expo hall. You can only use your \$8 lunch coupons inside the expo hall.

Tuesday 11:00 A.M. – 2:00 P.M.
 Wednesday 11:00 A.M. – 2:00 P.M.

I lost an item at NFMT Vegas, what should I do?

If you lost an item within the Mirage Events Center visit the NFMT Show Office, located in the expo hall or contact Mirage security.

What is the parking rate?

The Mirage offers both self-parking and valet parking onsite. Self-parking is \$10 a day or free with a valid Nevada driver's license and valet is \$18 a day.

Is WiFi services available at the Mirage?

If you are staying at the Mirage, or any other MGM property, WiFi is included with your resort fee and will work throughout the Mirage. The business center is located at the entrance to the Event Center for any high-speed internet needs.

Is coffee service provided?

Coffee service for attendees will not be provided by NFMT Vegas. Please stop by the Roasted Bean at the entrance to the Mirage Event Center.

Any additional questions, please stop by the NFMT Vegas booth #415 or the show office in the expo hall.

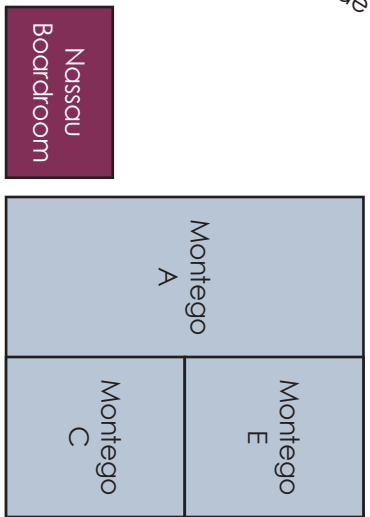
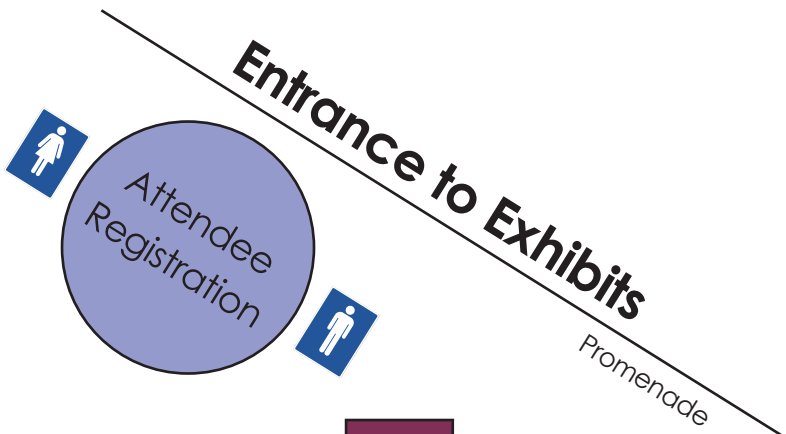
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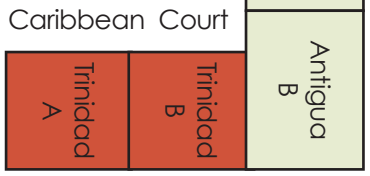
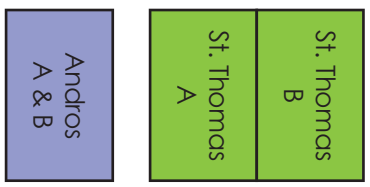
#NFMTVegas16



CONFERENCE MAP



Cayman Court



Promenade

← To Hotel

Key

- Exhibitor Registration
- Attendee Registration
- Tuesday General Session — Montego A
- Women in FM — Antigua A

Current, powered by GE

is revolutionizing the way the world thinks about energy from the socket to the grid.



LED
Lighting



Solar
Solutions



EV
Charging



Intelligent
Endpoints



Energy
Storage

Attend our **Quick Fire** session:

“Harnessing LED as Intelligent Energy Infrastructure”

Time: 1:00pm

Date: Wednesday, November 2, 2016

Location: Quick Fire Arena - Inside the Expo Hall

Come see how
Current, powered by GE
can energize your business.
Visit us in **Booth 606**

current
powered by GE

currentbyge.com