

EVENT 2013 DIRECTORY

BUILDING OPERATING MANAGEMENT'S
NFMTVEGAS

Conference Info 8 • Exhibitors 32 • Maps 54

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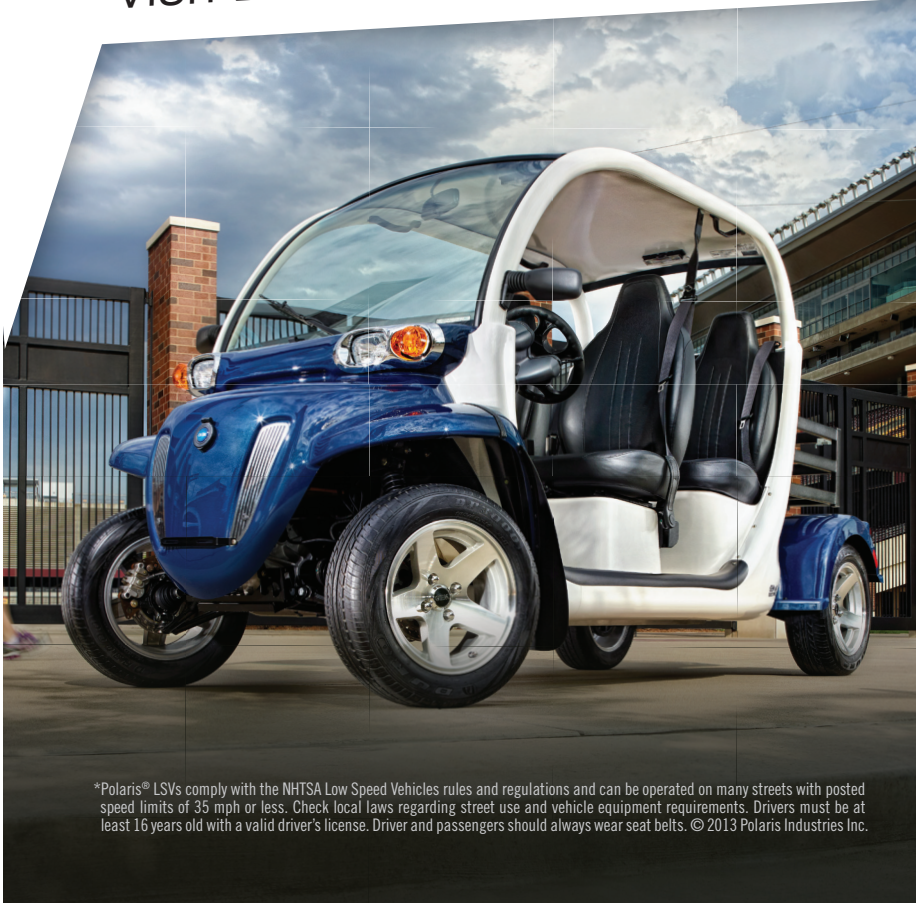
POLARIS® BRUTUS™

INTRODUCING Polaris® BRUTUS™, the most versatile, most capable and most comfortable side x side utility vehicle ever created. Like no utility vehicle before it, BRUTUS™ offers full front-end PTO capability giving you the ability to sweep, mow, blow, lift, plow and scoop - all with one machine. Combined with the superior durability and premium ride that find their way into every Polaris vehicle, it's not just a jack of all trades, it's a master of them.

■ Visit polaris.com/brutus

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

VISIT BOOTH 301 TO SEE THE BRUTUS™ AND TEST DRIVE A GEM®



EXPERIENCE THE RELIABILITY.

It's versatility will carry you on service paths, sidewalks and city streets*. It keeps costs low with its environmentally-conscious operation. And with more than 45,000 vehicles already in service, our unique design is turning heads around the world.

■ Visit GEMcar.com

*Polaris® LSVs comply with the NHTSA Low Speed Vehicles rules and regulations and can be operated on many streets with posted speed limits of 35 mph or less. Check local laws regarding street use and vehicle equipment requirements. Drivers must be at least 16 years old with a valid driver's license. Driver and passengers should always wear seat belts. ©2013 Polaris Industries Inc.

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Expo Information

- 32 Exhibitor Profiles
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Maps

- 54 Exhibit Hall
- C3 Conference Rooms

Schedule

TUESDAY

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

WEDNESDAY

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

Homecoming!



Welcome to the NFMT Vegas Conference and Expo! Those of you who have attended in years past might recognize this year's surroundings as the place where it all began. We launched our event as Facility Decisions right here at Mandalay Bay in the fall of 2008. Since then, much has changed, and I'm not talking about the venue or our name. The facility management industry has weathered a major shift in how buildings are managed, staffed, and funded – and the technologies that support them are more sophisticated than ever.

One thing that hasn't changed is NFMT Vegas' mission to help you become the best facilities management practitioner possible. Here's how we're going to accomplish that goal at this year's show:

- Providing access to 200 industry suppliers ready and able to answer your questions in the exhibit hall.
- Offering 62 free conference sessions detailing everything from building automation to roofing, recycling to security. See page 12 for the full session descriptions.
- Enabling you to earn up to 9 hours of continuing education units over just two days! See page 10 for details on our new CEU process.
- Arranging a variety of networking opportunities to meet and mingle with your peers from around the country. Join us Tuesday afternoon in the exhibit hall for a reception, and Tuesday from 4-5 we will be hosting our solutions exchange roundtable event. See page 6 for more information.

Now, just because our commitment to making this event the most valuable one you'll attend all year does NOT mean you won't see some innovations at the show. Based on the success of our annual "Women in FM" event at the NFMT's Baltimore conference, we have taken the show on the road and will offer it in Las Vegas for the very first time. I hope you will join us Wednesday morning at 8:00 a.m. for a frank discussion among our panel of women FMs and attendees about what it takes to have a successful facilities management career. This discussion is open to everyone.

Thank you to all the attendees, exhibitors and speakers who have helped us make NFMT Vegas the show it is today. We look forward to continuing into meet your educational and information needs in Viva Las Vegas!

Sincerely,

Wendy Dietzler
 Director of Education
 NFMT Vegas
wendy.dietzler@tradeexpress.com

Thank You to Our Sponsors



Sponsor of the \$1,000 Daily Drawing

[Booth #301]

Polaris is a recognized leader in the powersports industry with annual 2012 sales of \$3.2 billion. Polaris designs, engineers, and manufactures high quality and reliable vehicles including the globally recognized Polaris RANGER® side-by-side utility vehicle, the street-legal Polaris GEM®, and the highly versatile Polaris BRUTUS™. Polaris' innovative vehicle solutions will meet any of your property maintenance, utility, or transportation needs.



Sponsor of Networking Party, Tote bags and Program At-a-Glance

[Booth #412]

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. The BACnet standard was developed by ASHRAE and has been made publicly available so that manufacturers can create interoperable systems of products.

Additional Sponsors



*Our Business is Cooling
and Heating Yours*

[Booth #713]



SELECT Products Limited

[Booth #618]

BACnet Sponsors

Diamond:



[Booth #406]



[Booth #507]

Platinum:



[Booth #509]



[Booth #514]

Copper:



[Booth #506]

Event Partners



[Booth #121]



[Booth #920]



[Booth #412]



[Booth #129]



[Booth #128]



[Booth #828]



[Booth #928]



[Booth #229]

Building Better with



2013 BACnet International Sessions at NFMT Vegas:

<u>Session Title</u>	<u>Presenter</u>	<u>Date/Time</u>
Building Sustainability through Building Automation	Ben Dorsey KMC Controls, Inc.	Tuesday 8:00 AM - 8:50 AM
Automation Armageddon	Andy McMillan BACnet International	Tuesday 9:00 AM - 9:50 AM
The Lighting Controls Evolution: From Yesterday's Energy Codes to Tomorrow's High Performance Buildings	Pete Baselici WattStopper	Tuesday 10:00 AM - 10:50 AM
Wireless Direct Digital Control	Jim Kohl Trane	Tuesday 11:00 AM - 11:50 AM
Using BACnet to Obtain Free LEED Credits	Mike Olson ABB, Inc.	Wednesday 9:00 AM - 9:50 AM
How Facility Managers, Specifiers and Equipment Suppliers can use BACnet Effectively	Grant Wichenko Appin Associates	Wednesday 10:00 AM - 10:50 AM
VFD Communications - Which Objects Should I Monitor and Why?	Mike Olson & Tim Skell ABB, Inc.	Wednesday 2:10 PM - 3:00 PM

Connect with us online at www.BACnetInternational.org



Visit us in
Booth 412



Show Highlights

Tuesday SEPT 17

2:45pm

BACnet International's Leaders of the Pack Awards

Exhibit Hall, Main Stage

BACnet International will hold its annual awards ceremony to recognize the achievements of individuals and companies involved in the BACnet community. The awards allow BACnet International members to recognize and celebrate the hard work, commitment, and accomplishments of their peers. The winners will be announced at the Award Ceremony during NFMT Vegas.

2:45pm

\$1,000 Grand Prize Drawing

Each day at NFMT Vegas a \$1,000 cash prize will be awarded. Drawings take place in the Exhibit Hall at the Main Stage. You must be present to win. Please see ballot in your tote bag for complete rules and regulations.

Sponsored by  POLARIS

3pm-4pm

Opening Night Networking Party

Exhibit Hall

Celebrate opening day of NFMT Vegas. Mingle and network while you enjoy appetizers and cocktails.

Sponsored by  BACnet International

4pm-5pm

Solutions Exchange Networking Event

Exhibit Hall

Solutions Exchange is a series of round-robin discussions on critical topics in facilities management. Take a seat among your peers and join in an exchange of ideas, facilitated by some of the top suppliers and experts serving the facilities industry. After 20 minutes, the roundtable concludes so that the next batch of table discussions can begin. You will have the opportunity to participate in up to three table discussions. See page 6 for full description.

Wednesday SEPT 18

1:30pm

Facility Maintenance Decisions Achievement Awards (formerly Maintenance Solutions Achievement Awards)

Exhibit Hall, Main Stage

Celebrate the accomplishments of *Facility Maintenance Decisions* Achievement Award winners. Hosted by Dave Lubach, Associate Editor of *Facility Maintenance Decisions*, you will learn about the eight winning projects, and some winners will be on hand to accept their awards. You are welcome to review the winning projects' details before the celebratory presentation at NFMT Vegas.

2:45pm

\$1,000 Grand Prize Drawing

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Both Days

VIP Pin Program – New and Improved!

Exhibit Hall

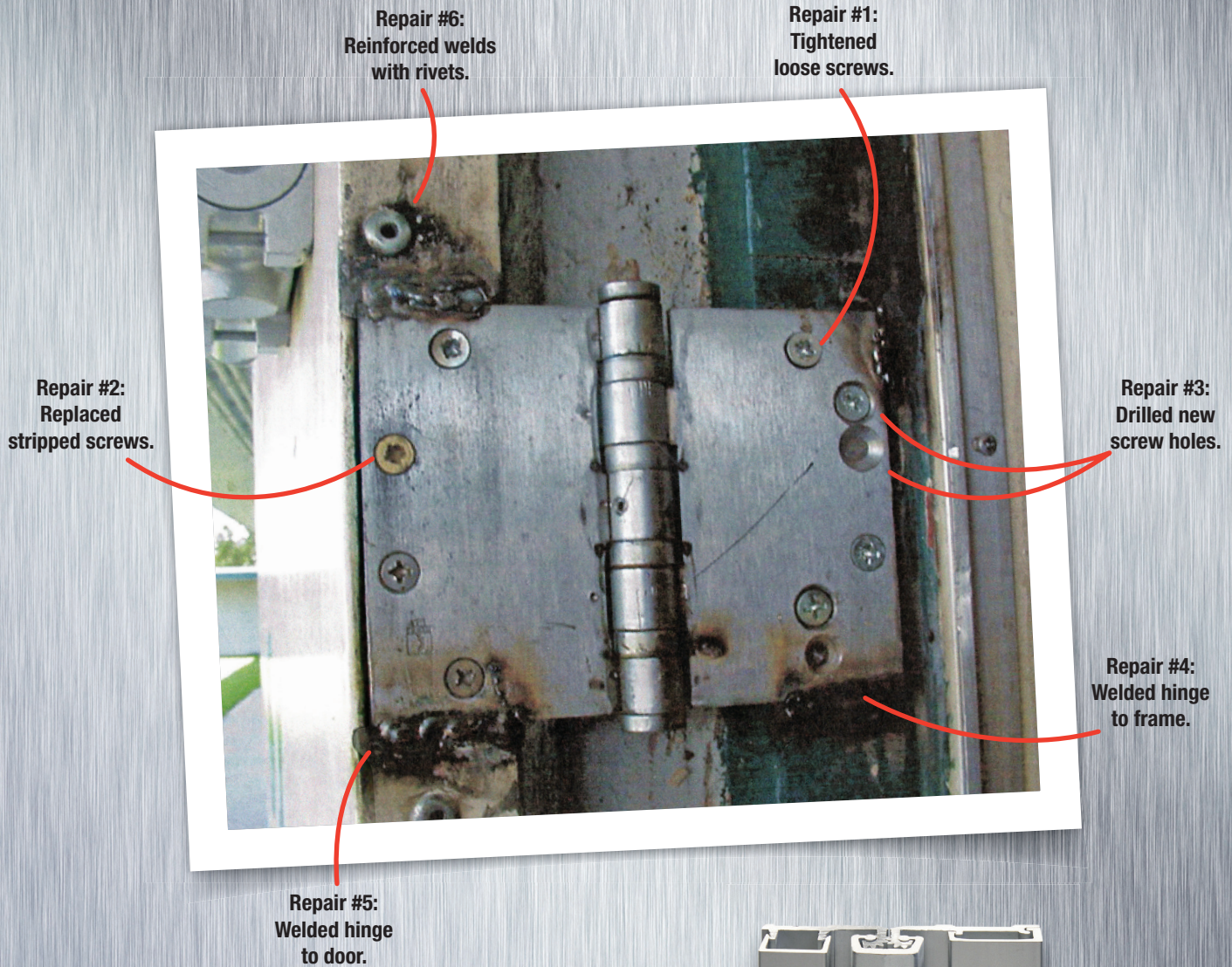
Wear your pin and engage with any of the phenomenal exhibitors in the hall and you could win cash on the spot. The undercover Vegas Prize Team will select winners at random. It's very simple: Wear your pin and interact with exhibitors for a chance to win \$50 cash (given out 3 times per hour) on Tuesday and \$100 cash (given out 5 times per hour) on Wednesday.

Lunch is on Us!

Exhibit Hall

Make sure to look in your totebag for a \$5 off lunch coupon, compliments of NFMT Vegas. This coupon is redeemable at the food station inside the exhibit hall only.

How much did this \$25 hinge *really* cost?



Repeated repairs to a “cheap” butt hinge reveal it as a costly mistake.

Install a **SELECT** geared continuous hinge and you'll end repairs forever – or we'll replace it **FREE**.

25,000,000 open/close cycles in independent testing have proven the durability of SELECT geared continuous hinges. That's why SELECT can offer the industry's only Continuous Warranty™ covering any failure of our aluminum geared continuous hinges – with no expiration date.



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NFMTVEGAS Booth #618



Solutions Exchange

This fast-pace, round-robin event puts you in the driver seat with the opportunity to join three topic tables for 20 minutes each. This is an exclusive opportunity to add your voice to the conversation, each discussion table only holds 8 attendees per round.

Free Beer for All Participants!

Tuesday SEPT 17

4:00 – 5:00 p.m.

Palm Foyer

Choose up to **THREE** topics from the list below:

So you think your VFD's are saving you money?

A recent study found many installed VFDs are running in Bypass mode — saving no energy. Mining VFD data over serial communications will allow the facility manager to address local override issues as they arise.



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

You'll get answers to the questions you never thought to ask. You'll learn how spot coolers fill a crucial role for climate control and how to use portable air conditioning as an affordable solution for backup, emergency, supplemental, primary and disaster recovery cooling.



Find and Communicate with Qualified Vendors

Learn how you can find qualified vendors for your facility's projects. Whether it's new construction, maintenance, or an emergency service contract, we'll discuss how you can target your vendor searches and expedite communication. We will also review how you can distribute project documents online - drawings, specifications, photographs, videos, etc.



Improving Communications with Technology

Learn more about how online software and mobile devices allow facility managers and tenants to communicate needs and expectations. Master use of these tools and find success in increasing revenue and strengthening relationships.



Wireless Temperature Monitoring Solutions for all Industries

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



Compliance with OSHA CFR 1910.147 Lockout-Tagout and Management of Your Lockout-Tagout Program

Lockout-tagout has been in OSHA's top 10 cited regulations for as long as that list has been tracked. Compliance and management of a lockout-tagout program can be complicated and leaves companies open to millions of dollars in liability. The world-wide leader in lockout-tagout compliance can help with these risks to your employees and your company.



Optimizing Your CMMS

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



Independent Water Management and Legionella

How do facility owners and managers deal with the myriad of guidelines and recommendations regarding Legionella? Come to this table and learn about independent oversight, Legionella testing accuracy, and HACCP-Based Water Management processes.



Long Term Door Solutions

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





BACnet. On-board every ABB HVAC Drive and E-Clipse Bypass.



Welcome to Open Protocol! - The final piece of the serial communications puzzle is built into every VFD and E-Clipse Bypass package. The ABB E-Clipse Bypass is the first bypass in the industry to provide a built-in BACnet connection, along with other on-board BAS protocols. Now you can monitor and control your fan or pump - even in bypass mode. No more failed nodes at the BAS front end. Join us at www.abb.us/drives.

ABB Low Voltage Drives
New Berlin, WI
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Fx: 262-780-5137

Power and productivity
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NFMTVEGAS Booth #406

Sessions at-a-glance

Tuesday SEPT 17

8:00-8:50 a.m.

Banyan A/B	T1.BA	Keys for Justifying Staffing Levels to Senior Management
Banyan C/D	T1.BC	Catching Flies with Honey: Civility in Facilities Management
Jasmine E	T1.JE	Facilities Master Plan: Building a Better Business Case
Jasmine F	T1.JF	Building Sustainability through Building Automation
Jasmine G/H	T1.JG	Implementing the Results of an Energy Audit and Retro-commissioning Process

9:00-9:50 a.m.

Banyan A/B	T2.BA	Creating a Strategic Plan to Achieve World Class Reliability
Banyan C/D	T2.BC	High Performance as the Goal
Jasmine A	T2.JA	Workplace Violence: Managing Today's Threats
Jasmine B	T2.JB	Integrated Sustainability is a Value Proposition in Hospitality
Jasmine C	T2.JC	Facilities Risk Analysis
Jasmine E	T2.JE	Maximizing ROI for your Energy Efficiency Projects: The Future of EPC 179D
Jasmine F	T2.JF	Automation Armageddon

10:00-10:50 a.m.

Banyan A/B	T3.BA	CMMS - Leveraging Your CMMS (From Selection to Daily Use)
Banyan C/D	T3.BC	Workplace Issues
Jasmine A	T3.JA	Fire Alarm: What You Need To Know
Jasmine B	T3.JB	Prevention of Legionellosis Associated with Building Water Systems
Jasmine C	T3.JC	The Art of Understanding Your Building's Personality

Jasmine G/H	T3.JE	20 Examples of Design/Construction Issues Impacting Indoor Air Quality
Jasmine F	T3.JF	The Lighting Controls Evolution
Jasmine G/H	T3.JG	Energy Efficient Lighting: Challenges and Solutions

11:00-11:50 a.m.

Banyan A/B	T4.BA	Implementing NFPA 70E for Arc Flash Safety
Banyan C/D	T4.BC	Transformation of the Facility Manager
Jasmine A	T4.JA	Top 10 Things You Should Know About the ADA
Jasmine B	T4.JB	Hotel Security Best Practices
Jasmine C	T4.JC	Facilities Management Efficiency: Created with More and Better Data
Jasmine E	T4.JE	Distributed Generation Wind Projects
Jasmine F	T4.JF	Wireless Direct Digital Control
Jasmine G/H	T4.JG	Deep Energy Savings: How to Build the Case and Find the Money

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

2:45 p.m.

BACnet International Awards (Main Stage)

\$1,000 Prize Drawing

Sponsored by Polaris Industries

3:00-4:00 p.m.

Opening Night Reception

Sponsored by BACnet International

4:00-5:00 p.m.

Solutions Exchange (Palm Foyer)

Wednesday SEPT 18

8:00-9:50 a.m.

Palms Foyer	W1.AA	Women in Facilities Management Networking Event
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8:00-8:50 a.m.

Banyan A/B	W1.BA	Five Tips for Optimizing a Facility Preventive Maintenance Program
Banyan C/D	W1.BC	Advice to New FM's : Apply the 11 Core Competencies of Facility Managers
Jasmine E	W1.JE	Retrofit Re-roofing with Metal
Jasmine G/H	W1.JG	Energy Efficiency for the Long Haul: How to Put Your Plan Into Action

9:00-9:50 a.m.

Banyan A/B	W2.BA	What's Your Grade? Calculating Your Maintenance Performance Index
Banyan C/D	W2.BC	Effective Training for Today's Engineers
Jasmine A	W2.JA	We Know Where You Are: Indoor Positioning Systems
Jasmine C	W2.JC	Measuring and Managing Maintenance Objectives
Jasmine E	W2.JE	Recycling In a Tourist Town
Jasmine F	W2.JF	Using BACnet to Obtain Free LEED Credits
Jasmine G/H	W2.JG	LED Lighting & Controls Can Significantly Cut Energy Costs

10:00-10:50 a.m.

Banyan A/B	W3.BA	The Perfect Storm for Sustainability
Banyan C/D	W3.BC	Codes, Standards and Rating System Review for Water Conservation
Jasmine A	W3.JA	Post Hurricane Sandy Advances in Emergency Power
Jasmine B	W3.JB	ADA Updates for Hospitality: Pool Lifts and More
Jasmine C	W3.JC	Using Data Warehousing to Unlock the Power of the Facilities Data You Already Have

Jasmine E	W3.JE	Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4
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Jasmine F	W3.JF	How Facility Managers, Specifiers and Equipment Suppliers can use BACnet Effectively
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Jasmine G/H	W3.JG	Sustainable HVAC Design and Operation: The Myths and the Magic
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11:00 a.m. - 2:00 p.m. Exhibit Hall Open

1:45 p.m.

\$1,000 Prize Drawing

Sponsored by Polaris Industries

2:10-3:00 a.m.

Banyan A/B	W4.BA	How to Develop and Write an Effective Repeatable Maintenance Procedure
Banyan C/D	W4.BC	De-Stressing Your Workforce with Planning and Scheduling
Jasmine A	W4.JA	Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs
Jasmine C	W4.JC	Identify and Quantify Mission-Critical Factors (How to Perform a Critical Audit)
Jasmine E	W4.JE	GHS Is Coming! GHS Is Coming!
Jasmine F	W4.JF	VFD Communications: Which Objects Should I Monitor and Why?
Jasmine E	W4.JG	Ensuring a Clean, Green & Healthy Indoor Environment

3:10-4:00 a.m.

Banyan A/B	W5.BA	Uptime Elements for High Performance Asset Management
Banyan C/D	W5.BC	Security in Schools
Jasmine A	W5.JA	Codes, Laws and Common Sense: Fire Door Inspections
Jasmine B	W5.JB	Reducing Water Use in Hotels
Jasmine C	W5.JC	High Performance Building? Not Without Proper Testing, Adjusting and Balancing
Jasmine G/H	W5.JG	Design Considerations for Climate Change



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NATIONAL REACH
 you need with our network of 40+ wholly-owned companies, and the
LOCAL TOUCH
 your properties have come to know and respect.



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| Deluge Systems | Fire Hydrants | Suppression Systems |
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NFMTVEGAS Booth #715

Continuing Education

Wish you could attend more NFMT Vegas Sessions?

Now NFMT Members have access to 17 NFMT Vegas session videos online. The following sessions will be archived for NFMT Members to access after the conference. To become a member please visit the membership counter at the registration desk.

Tuesday SEPT 17

- T1.BC** Catching Flies with Honey: Civility in Facilities Management
- T1.JE** Facilities Master Plan: Building a Better Business Case
- T2.BC** High Performance as the Goal
- T2.JE** Maximizing ROI for your Energy Efficiency Projects:
The Future of EPC Act 179D
- T3.BC** Workplace Issues
- T3.JE** 20 Examples of Design/Construction Issues Impacting
Indoor Air Quality
- T4.BC** Transformation of the Facility Manager
- T4.JE** Distributed Generation Wind Projects

Wednesday SEPT 18

- W1.BC** Advice to New FMs : Apply the 11 Core Competencies
of Facility Managers
- W1.JE** Retrofit Re-roofing with Metal
- W2.BC** Effective Training for Today's Engineers
- W2.JE** Recycling In a Tourist Town
- W3.JE** Green Cleaning: Getting Vendors To Implement Changes
To LEED-EBOM V4
- W4.BA** How to Develop and Write an Effective Repeatable
Maintenance Procedure
- W4.BC** De-Stressing Your Workforce with Planning and Scheduling
- W5.BA** Uptime Elements for High Performance Asset Management
- W5.BC** Security in Schools

**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.

Self-report to the appropriate professional organization using your NFMT Vegas CEU transcript generated after successfully completing the assessment. NFMT Vegas will not be reporting to any organizations on your behalf.

Trade Press Media (NFMT Vegas) has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET)



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Questions? Please stop by the show office or contact Wendy Dietzler at wendy.dietzler@tradeppress.com.

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An AspectFT For Every Size Facility

Whether controlling an individual facility, or a large number of installations worldwide, there is an Aspect for you.

To find out more about how AspectFT can save you time and money, visit American Auto-Matrix at booth #507.



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Tracks at-a-glance

➔ BACnet Sessions *Sponsored by* **BACnet International**

Jasmine F	T1.JF	Building Sustainability through Building Automation
Jasmine F	T2.JF	Automation Armageddon
Jasmine F	T3.JF	The Lighting Controls Evolution
Jasmine F	T4.JF	Wireless Direct Digital Control
Jasmine F	W2.JF	Using BACnet to Obtain Free LEED Credits
Jasmine F	W3.JF	How Facility Managers, Specifiers and Equipment Suppliers can use BACnet Effectively
Jasmine F	W4.JF	VFD Communications: Which Objects Should I Monitor and Why?

➔ Energy Sessions

Jasmine G	T1.JG	Implementing the Results of an Energy Audit and Retro-commissioning Process
Banyan C/D	T2.BC	High Performance as the Goal
Jasmine E	T2.JE	Maximizing ROI for your Energy Efficiency Projects: The Future of EPAAct 179D
Jasmine G	T3.JG	Energy Efficient Lighting: Challenges and Solutions
Jasmine G	T4.JG	Deep Energy Savings: How to Build the Case and Find the Money
Jasmine G	W1.JG	Energy Efficiency for the Long Haul: How to Put Your Plan Into Action
Jasmine G	W2.JG	LED Lighting & Controls Can Significantly Cut Energy Costs
Banyan A/B	W3.BA	The Perfect Storm for Sustainability
Jasmine A	W3.JA	Post Hurricane Sandy Advances in Emergency Power
Jasmine G	W5.JG	Design Considerations for Climate Change

➔ Hospitality Sessions

Jasmine B	T2.JB	Integrated Sustainability is a Value Proposition in Hospitality
Jasmine B	T3.JB	Prevention of Legionellosis Associated with Building Water Systems
Jasmine B	T4.JB	Hotel Security Best Practices
Jasmine B	W3.JB	ADA Updates for Hospitality: Pool Lifts and More
Jasmine B	W5.JB	Reducing Water Use in Hotels

➔ Leadership Sessions

Banyan A/B	T1.BA	Keys for Justifying Staffing Levels to Senior Management
Banyan C/D	T1.BC	Catching Flies with Honey: Civility in Facilities Management
Jasmine E	T1.JE	Facilities Master Plan: Building a Better Business Case
Banyan C/D	T3.BC	Workplace Issues
Banyan C/D	T4.BC	Transformation of the Facility Manager
Palm Foyer	W1.AA	Women in Facilities Management Networking Event
Banyan C/D	W1.BC	Advice to New FMs: Apply the 11 Core Competencies of Facility Managers
Banyan A/B	W4.BA	How to Develop and Write an Effective Repeatable Maintenance Procedure

➔ Operations and Maintenance

Banyan A/B	T2.BA	Creating a Strategic Plan to Achieve World Class Reliability
Banyan A/B	T3.BA	CMMS - Leveraging Your CMMS (From Selection to Daily Use)
Jasmine B	T3.JB	Prevention of Legionellosis Associated with Building Water Systems
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Jasmine C	T4.JC	Facilities Management Efficiency: Created with More and Better Data

Banyan A/B	W1.BA	Five Tips for Optimizing a Facility Preventive Maintenance Program
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Jasmine G	W3.JG	Sustainable HVAC Design and Operation: The Myths and the Magic
Banyan A	W4.BA	How to Develop and Write an Effective Repeatable Maintenance Procedure
Jasmine E	W4.JE	GHS Is Coming! GHS Is Coming!
Banyan A/B	W5.BA	Uptime Elements for High Performance Asset Management

➔ Safety and Security Sessions

Jasmine A	T2.JA	Workplace Violence: Managing Today's Threats
Jasmine A	T3.JA	Fire Alarm: What You Need To Know About Inspection, Testing and Maintenance
Banyan	T4.BA	Implementing NFPA 70E for Arc Flash Safety
Jasmine A	T4.JA	Top 10 Things You Should Know About the ADA
Jasmine B	T4.JB	Hotel Security Best Practices
Jasmine A	W2.JA	We Know Where You Are: Indoor Positioning Systems
Banyan A	W3.BA	The Perfect Storm for Sustainability
Jasmine E	W4.JE	GHS Is Coming! GHS Is Coming!
Banyan C/D	W5.BC	Security in Schools
Jasmine A	W5.JA	Codes, Laws and Common Sense: Fire Door Inspections

➔ Sustainability Sessions

Banyan C	T2.BC	High Performance as the Goal
Jasmine E	T4.JE	Distributed Generation Wind Projects
Jasmine E	W1.JE	Retrofit Re-roofing with Metal
Jasmine E	W2.JE	Recycling In a Tourist Town
Banyan C/D	W3.BC	Codes, Standards and Rating System Review for Water Conservation
Jasmine E	W3.JE	Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4
Jasmine A	W4.JA	Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs
Jasmine G	W4.JG	Ensuring a Clean, Green & Healthy Indoor Environment

➔ Technology Sessions

Jasmine C	T2.JC	Facilities Risk Analysis
Jasmine F	T2.JF	Automation Armageddon
Jasmine F	T4.JF	Wireless Direct Digital Control
Jasmine C	W2.JC	Measuring and managing maintenance objectives
Jasmine C	W3.JC	Using Data Warehousing to Unlock the Power of the Facilities Data You Already Have.
Banyan C/D	W4.BC	De-Stressing Your Workforce with Planning and Scheduling
Jasmine C	W4.JC	Identify and Quantify Mission-Critical Factors (How to Perform a Critical Audit)
Jasmine C	W5.JC	High Performance Building? Not Without Proper Testing, Adjusting and Balancing

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Educational Sessions

**TUESDAY,
SEPTEMBER 17**

8:00 AM

Leadership

T1.BA Keys for Justifying Staffing Levels to Senior Management

Banyan A/B

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

Over the last several years many facilities and maintenance teams have experienced significant cuts, all the while expected to maintain or improve the level of the building. As we continue to dig out of the recession, these staffing and budgets levels have not been fully restored to pre-recession levels. Just like proposing a new boiler, you need to be prepared with metrics when discussing staffing levels. Attend this session to learn tactile ways to document and measure your current staffing levels and how to turn that information into a strong proposal expand your current team.

Learning Objectives:

1. Name ways to measure staffing levels
2. Recognize metrics for employees
3. Compare the keys to a strong proposal for senior management

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership

T1.BC Catching Flies with Honey: Civility in Facilities Management

Banyan C/D

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

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

Learning Objectives:

1. Determine the importance of consequential strangers in FM
2. Specify why civility is a good FM business strategy
3. Assess the degree to which FM organizations are civil internal and to consequential strangers
4. Apply a consequential strangers power strategy

AUDIENCE: ADVANCED CEU: 0.1

Leadership

T1.JE Facilities Master Plan: Building a Better Business Case

Jasmine E

Presenter(s): Jim Turner, Program Manager and Senior Real Estate and Facilities Consultant, Markon Solutions

Budget pressures are nothing new to facilities managers. Whether you work in corporate, non-profit, or public sector, you need to create an effective business case for the facilities master plan that demonstrates to top management the assets' role in overall corporate strategic goals. This session will emphasize core financial skills and how to apply them to establish and maintain the correct balance between major capital, deferred capital, and maintenance budgets in the context of the long-range facilities plan. Interactive exercises and case studies illustrate a five-step approach to prioritize operational and financial goals for any facility or property.

Learning Objectives:

1. Analyze comprehensive facilities data, compare it to relevant facilities benchmarks, and align the portfolio to strategic goals
2. Identify opportunities to minimize financial shortfalls by balancing the three expenditure types: maintenance, deferred capital, and major capital
3. Construct a business case model that can be used to pursue strategic opportunities and justify future facilities funding requests
4. Create a road map to implement the long-range facilities plan

AUDIENCE: INTERMEDIATE CEU: 0.1

BACnet International

T1.JF Building Sustainability through Building Automation

Jasmine F

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

No matter what impels you to action in regards to sustainability, building automation and control systems can help you achieve it. We'll discuss how to achieve higher energy efficiency, lower operating and maintenance costs, better indoor air quality, and greater occupant comfort and productivity.

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

T1.JG Implementing the Results of an Energy Audit and Retro-commissioning Process

Jasmine G/H

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

All building owners want their facilities to perform correctly and at optimum energy performance. Energy audits and retro-commissioning are both great processes that can help building owners provide the answers they are seeking. These processes can help to build a powerful and effective energy efficiency capital plan. This session will discuss the keys to proper implementation, such as the importance of a clear and concise scope of work, testing and validating goals and ensuring the right documentation is available, to name a few. This topic will be illustrated using a case study, which will walk attendees through the entire process; from the studies, to development of a plan with an emphasis on the implementation phase and persistence strategies.

Learning Objectives:

1. Observe how energy audits and retro-commissioning can help the facility perform at optimum energy performance
2. Select the key factors to ensuring that implementation goes smoothly and that the effort put into maximizing energy efficiency is maintained
3. Verify what monitoring-based commissioning can provide, in concurrence and addition to, the implementation of these energy saving measures

AUDIENCE: BEGINNER CEU: 0.1

9:00 AM

Operations and Maintenance

T2.BA Creating a Strategic Plan to Achieve World Class Reliability

Banyan A/B

Presenter(s): Kate Kerrigan, Reliability Engineer, Allied Reliability

Facility managers are constantly tasked with doing more with less; less expense budget, less capital, less manpower. At times, it can be difficult to keep your head above water, much less introduce innovation in this cycle of budget and headcount cutting. However, that is exactly the right time for innovation. The only way to do more with less is to do it differently. This session will reveal how to look at a future state of world class reliability and plan a route to achieve that state, no matter where you are starting out.

Learning Objectives:

1. Define what a world class reliability program looks like
2. Evaluate current state of world class reliability
3. Define what the future state of world class reliability
4. State keys to developing a plan to close the gap in your reliability plan

AUDIENCE: BEGINNER CEU: 0.1

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Energy, Sustainability**T2.BC High Performance as the Goal**
Banyan C/D

Presenter(s): Teena Shouse, CFM, IFMA Fellow, Vice President, Facility Engineering Associates

High-performance organizations are those that are skilled at developing a strategy, implementing a plan to follow that strategy, operating with an effective performance management system, and constantly reassessing and adjusting their plan to meet a changing environment. The attributes of a high-performance organization include: strategic approach to the future of the organization, high level strategy and planning skills, an in-depth knowledge of their stakeholders, sound processes for accomplishing work, processes for continual improvement, a commitment to the development of the workforce high-performance companies and organizations are role models of the corporate world. They represent companies, agencies, and institutions that consistently outperform their peers and/or competitors. As we strive to improve our own organizations, we want to know more about what makes some organizations perform at the top of the spectrum.

Learning Objectives:

1. Define world class organizations
2. Understand the difference between pure benchmarking and process analysis
3. The importance of preparing your team for change
4. Facility evaluation and the use of improvement tools e.g. Capability Maturity Model (CMM)
5. Explore case study examples of how organizations answered the tough questions leading them to High Performance Organizations (HPO)

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security**T2.JA Workplace Violence: Managing Today's Threats**

Jasmine A

Presenter(s): Jason Porter, Director of Operations -Southwest Region, Pinkerton C&I

It seems like every day a new workplace violence event is featured in the media. Are these incidents on the rise? According to a recent study, workplace violence events have actually decreased over the past decade. Many companies have been proactive in regards to workplace violence, resulting in fewer incidents. Attend this discussion to learn about plans your organization should have in place to reduce occurrences and minimize liability if an incident does occur.

Learning Objectives:

1. Identify what is workplace violence
2. List emerging trends in workplace violence
3. State key indicators in Workplace violence offenders
4. Verify what to do to prevent workplace violence
5. Specify what to do if you have an incident

AUDIENCE: INTERMEDIATE CEU: 0.1

Hospitality**T2.JB Integrated Sustainability is a Value Proposition in Hospitality**

Jasmine B

Presenter(s): Charles A. Smith, CEO, Hotel Sustainability Solutions, Inc.

The management of integration and collaboration

practices are paramount to achieving significant impact in a well-defined sustainability platform. This session will feature a case study of a branded hotel that was built in 1980. As the hotel was preparing for a major renovation, ownership decided to combine the renovation and the development of the sustainability platform simultaneous. The objectives as set forth by ownership were: become a market leadership in sustainability, reduce operating costs, create added asset value, be mobile for replications. These four objectives are the underpinning of this case study - a work in progress! This session will review the incentives received, initiatives implemented, technology accessed and the reduction of energy and operating costs.

Learning Objectives:

1. Define how integration and collaboration practices significantly impact a sustainability platform
2. Identify how management goals can help shape the sustainable project
3. State the sustainable initiatives implemented at the hotel
4. Compare the incentives received to help reduce energy and operating costs

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology**T2.JC Facilities Risk Analysis**

Jasmine C

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

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

Learning Objectives:

1. State how to organize, classify and identify key areas of risk
2. Specify how to score risk within your organization
3. Be able to develop and prioritize a risk mitigation plan
4. Recognize how to establish controls and monitor risk

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy**T2.JE Maximizing ROI for your Energy Efficiency Projects: The Future of EPAct 179D**

Jasmine E

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

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

Learning Objectives:

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

AUDIENCE: BEGINNER CEU: 0.1

BACnet International, Technology**T2.JF Automation Armageddon**

Jasmine F

Presenter(s): Andy McMillan, President, Teletrol and BACnet International

In this session we will discuss how LED lighting could trigger a significant disruption of the traditional building automation industry. We will review current and future drivers for LED lighting adoption and explore the "perfect storm" potential of combining LED lighting with BACnet, wireless controls and cloud-based energy management services.

Learning Objectives:

1. List the drivers behind near and long-term market adoption of LED lighting
2. Recognize the emerging controls opportunities arising from LED lighting adoption
3. Identify the disruptive potential of LED lighting when combined with other emerging technologies

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00 AM**Operations and Maintenance****T3.BA CMMS - Leveraging Your CMMS (From Selection to Daily Use)**
Banyan A/B

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

While many organizations are grappling with either selecting or using their CMMS to its fullest extent, this presentation will address some of the important facets of CMMS selection and operations. Attendees will learn about the areas to consider during the selection phase, value of CMMS integration to other systems and best practices for data, KPI and system functionality.

Learning Objectives:

1. Identify the proper selection criteria for CMMS
2. Be able to define your CMMS functional requirements
3. Describe the difference between integration and enterprise systems
4. List the best practice considerations for CMMS

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership**T3.BC Workplace Issues**

Banyan C/D

Presenter(s): John E. Cruickshank, Attorney, Alaniz Schraeder Linker Farris Mayes, LLP

Join expert labor and employment attorney, John Cruickshank from Alaniz Schraeder Linker Farris Mayes, LLP as he outlines "real world" ways employers can remain in compliance and steer clear of legal trouble. He will explain

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how new federal employment laws affect your relationship with your employees. He provides business-critical labor and employment law updates as they relate to the facilities management industry, sharing relevant case examples in a way that helps audiences understand how these laws impact their daily operations.

Learning Objectives:

1. Learn business-critical labor and employment law updates as they relate to the facilities management industry
2. Review about new developments with NLRB
3. Identify the Emerging Issue of Immigration Reform
4. Gain an overview of vehicle lawsuits and Negligent Entrustment

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security

T3.JA Fire Alarm: What You Need To Know About Inspection, Testing and Maintenance

Jasmine A

Presenter(s): Rick Reynolds, Director of National Accounts, Orr Protection Systems

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

Learning Objectives:

1. Define the NFPA Standards
2. Clarify the importance of training
3. Comprehend the difference between inspection, testing and maintenance.

AUDIENCE: BEGINNER CEU: 0.1

Hospitality, Operations and Maintenance

T3.JB Prevention of Legionellosis Associated with Building Water Systems

Jasmine B

Presenter(s): Dr. William F. McCoy, Chief Technology Officer, Phigenics

Brooke Winter, Regional Manager, Phigenics

This session will feature a discussion of the problem and solutions related to Legionellosis, Legionnaires' Disease, and Legionella in building water systems. With many documented cases of Legionellosis incidents and outbreaks, you will leave this session with a better understanding of the process recommended by worldwide technical organizations to minimize qualitative risks.

Learning Objectives:

1. Be able to identify HACCP-Based Water Management
2. Review how Legionella infects individuals
3. Understand Legionella testing accuracy
4. Learn best practices to limit the risk factors of Legionnaires' Disease in your facility

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance

T3.JC The Art of Understanding Your Building's Personality

Jasmine C

Presenter(s): Wayne P. Saya, CPE, Executive Director, Association for Facilities Engineering

Interpreting the mechanics of a building - how a building operates; how it breathes, thinks, and ultimately survives - is an art only a few actually understand. Misunderstood by most is its method of operation which defines its personality. A building is maintained to sustain, but if you are not fully aware of its systems. You will not know the art of understanding your building's personality.

Learning Objectives:

1. Identify how energy performance is tied from the building automation system to all of the major mechanical components of a building
2. Review the process that interconnects your maintenance procedures with best practices of sustainable buildings
3. State twelve basic principles of facilities maintenance and engineering
4. Understand how to personality profile your facility by tying together the twelve basic principles of facilities maintenance and engineering

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance, Safety and Security

T3.JE 20 Examples of Design/Construction Issues Impacting Indoor Air Quality

Jasmine G/H

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

This presentation will discuss 20 design and construction issues that the presenter has seen in his 25 plus years of indoor air quality (IAQ) consulting experience that have contributed to IAQ problems. Examples include sewer and bathroom vents on the roof near the air intakes, cellulose containing walls in high water use areas that contribute to mold growth, poor ventilation unit access, filter frame design leading to poor filter fits, etc.

Learning Objectives:

1. Identify twenty building design/construction and use issues that historically and currently can negatively impact IAQ
2. Analyze how these twenty issues may negatively impact IAQ
3. Develop potential means of preventing or mitigating the issues identified
4. Provide insights regarding reasons for these issues continuing to be used

AUDIENCE: INTERMEDIATE CEU: 0.1

BACnet International

T3.JF The Lighting Controls Evolution

Jasmine F

Presenter(s): Pete Baselici, Channel Manager, Systems Integration, WattStopper

Enabled by open protocols such as BACnet, lighting control and monitoring has taken a significant role within the integrated building. At the same time, ever tightening energy codes have mandated smaller control zones. This has forced the design of lighting controls to

adapt and become more granular in nature.

Learning Objectives:

1. State the role played by lighting controls in an integrated building
2. List how the energy code development has forced lighting control strategies to evolve
3. Observe how and why lighting control equipment has changed over time

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

T3.JG Energy Efficient Lighting: Challenges and Solutions

Jasmine G/H

Presenter(s): Ron Runkles, Lighting Industry Director, National Electrical Manufacturers Association (NEMA)

Facility managers and building owners are always under the pressure of reducing operating and maintenance costs, saving energy, and obtaining fast paybacks. This presentation, through numerous cases studies, will provide examples ranging from the simple to the complex on how the installation and retrofit of energy efficient lighting products meet these and other challenges.

Learning Objectives:

1. Learn what energy efficient lighting products are used in various applications
2. Learn what challenges energy efficient lighting products are expected to meet in new and existing construction
3. Learn what energy savings may be obtained by the application of energy efficient lighting upgrades

AUDIENCE: INTERMEDIATE CEU: 0.1

11:00 AM

Safety and Security

T4.BA Implementing NFPA 70E for Arc Flash Safety

Banyan A/B

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

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

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

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Leadership**T4.BC Transformation of the Facility Manager**

Banyan C/D

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

Facilities managers are in a demanding and tenuous position. Funding is being reduced, requirements are being increased, and FMs are finding themselves in a very uncomfortable position of transition in a quickly changing environment. Learn the latest developments in the best value approach being developed and tested by the most visionary FMs. The best value approach tears down many of the traditional concepts of FMs, transform the FM into a visionary leader who adds value instead of cuts services and cost.

Learning Objectives:

1. Identify how to deliver higher value with lower costs
2. Be able to discuss with the executives instead of being directed to cut costs
3. Learn how to take a supply chain approach instead of a silo based approach
4. Understand how vendors to administer their own contracts and think in your best interest

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security**T4.JA Top 10 Things You Should Know About the ADA**

Jasmine A

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

The requirements of the American with Disabilities Act (ADA) Standards are detailed and can be overwhelming to interpret. This session is designed to help you understand how they directly affect businesses. We will break down the ADA Standards into an easy to digest list of the top ten things you should know.

Learning Objectives:

1. Learn the risks of not complying with the ADA
2. Discover how to address the ADA to reduce your risk and compliance cost
3. Develop your ADA barrier removal plan by using an experienced ADA architect

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security, Hospitality**T4.JB Hotel Security Best Practices**

Jasmine B

Presenter(s): Jason Porter, Director of Operations -Southwest Region, Pinkerton C&I

With so many moving parts in a hotel, it is no surprise that security is top of mind for many chief engineers. Attend this session to hear about the special considerations needed in hospitality security. Chief engineers need to have an active role in developing your security plan. Hear from a security expert on the pros and cons of both contract and proprietary security programs. Finally, learn about any premise liability considerations for your property.

Learning Objectives:

1. Review security needs of a hospitality property
2. Understand the important steps to developing a

security plan

3. List the pros and cons of both contract and proprietary security programs
4. State premise liability considerations

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance**T4.JC Facilities Management Efficiency: Created with More and Better Data**

Presenter(s): Graham Drinkwater, Program Manager, DataSplice

This session will discuss how information technology can help drive efficiencies in facilities management. Most organizations that manage their assets and maintenance in Maximo only use a small sub-set of the features that are available. Fewer still extend beyond the core product and use advanced tools such as mapping, schedulers, and mobile. Graham will talk about some of his experiences with the implementation of some of these features and how quickly they can bring benefit to the organization.

Learning Objectives:

1. Be able to identify the key benefits of fully utilizing a good EAM/CMMS application
2. Review the advantages of scheduling visually
3. Learn about mobile implementation returns on investment
4. Understand resource optimization through a fully managed workforce

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability**T4.JE Distributed Generation Wind Projects**

Jasmine E

Presenter(s): Richard Krauze,, Consultant

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

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

BACnet International, Technology**T4.JF Wireless Direct Digital Control**

Jasmine F

Presenter(s): Jim Kohl, Senior Product Manager, Trane

Wireless is expected to provide significant advantages in common building controls applications. This presentation describes the common HVAC applications, current and future wireless standards, and how wireless can be used to cost effectively and reliably overcome many common control system challenges today, and in the future. Key takeaways for this session include wireless building control applications, wireless solutions, advantages and disadvantages, when wireless solutions make sense and how to leverage opens standards, such as BACnet and ZigBee Building Automation.

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy**T4.JG Deep Energy Savings: How to Build the Case and Find the Money**

Jasmine G/H

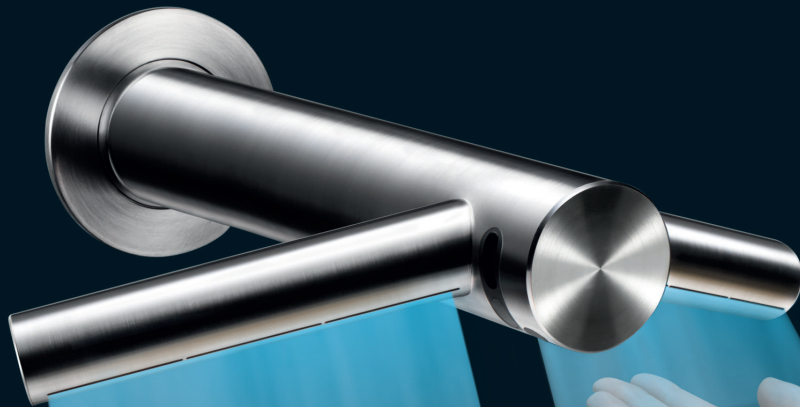
Presenter(s): Roy Torbert, Project Manager, Rocky Mountain Institute

In many commercial buildings, energy efficiency upgrades are part of a routine operations and maintenance schedule that incrementally improve the energy performance of the building. Learn how deep energy retrofits achieve much greater energy savings, by strategically timing and combining energy improvements. And these deep energy retrofits not always require requisition of additional capital, simply the smart use of existing budgets, and the judicious application of innovative financing opportunities.

Learning Objectives:

1. Understand how to frame and quantify the value of a deep energy retrofit
2. Be prepared to build a case for a deep energy retrofit in your building
3. Learn of ways to finance energy improvements or major retrofits
4. Hear about how financiers and investors assess the value of a highly efficient building

AUDIENCE: INTERMEDIATE CEU: 0.1



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**WEDNESDAY,
SEPTEMBER 18****8:00 - 9:50 AM****Leadership****W1.AA Women in Facilities
Management Networking Event**

Palms Foyer

Presenter(s): Teena Shouse, CFM, IFMA Fellow,
Vice President, Facility Engineering AssociatesCindy K. Heller FMP, Manager, Facility Programs,
Real Estate Services & Automation Management,
National Security Technologies

Originally launched in Baltimore, the Women in FM program has continued to grow. We are excited to be able to offer this highly interactive networking event for the first time at NFMT Vegas. This session will feature a frank discussion on issues of importance to women in the commercial built environment. Hear first hand for females who have excelled their careers in this male-dominated industry. Add your voice to the important issues such as work-life balance, career advancement, mentoring and more. Everyone is welcome to attend this session.

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

8:00 AM**Operations and Maintenance****W1.BA Five Tips for Optimizing a
Facility Preventive Maintenance
Program**

Banyan A/B

Presenter(s): Ricky Smith, Senior Reliability
Advisor, GPAllied

Chances are you already know that the case for doing Preventive Maintenance (PM) is watertight. Done right, PM will preserve, protect, and extend the life of your equipment. So here's the question: Why are so many maintenance and reliability professionals unhappy with their PM programs? The two biggest complaints are: 1. PM consumes too many resources. 2. The results of PM are not what was expected. This presentation will provide ideas to help any Facility Manager resolve these issues and achieve a successful PM program. Remember, if it were easy, everyone would have solved these problems!

Learning Objectives:

1. List the key elements of an effective Preventive Maintenance (PM) Program
2. Review the known best practices for facilities PM
3. Identify the common threads/pattern for PM problems
4. State the five most critical items required to optimize a facility PM Program

AUDIENCE: INTERMEDIATE CEU: 0.1

Leadership**W1.BC Advice to New FM's: Apply
the 11 Core Competencies of Facility
Managers**

Banyan C/D

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

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

Learning Objectives:

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

AUDIENCE: BEGINNER CEU: 0.1

Sustainability**W1.JE Retrofit Re-roofing with Metal**

Jasmine E

Presenter(s): Mark James, President, RetroSpec,
LLC, Co-Chairman - Retrofit Council, Metal
Construction Association

This program explains how valuable metal roofing is in a retrofit re-roofing. It covers how easily an existing flat roof can be retrofitted with a new 60+ year metal roof, how to integrated renewable solar hot air/water and electricity generation in your retrofit re-roofing plan and what can be done with existing walls by cladding them a whole array of energy efficient and architectural metal wall systems.

Learning Objectives:

1. Understand the flexibility of retrofit metal roofing
2. Discover how problematic roof geometry can be corrected with retrofitting your roof
3. Integrating renewable solar technologies in your retrofit roofing
4. Review the sustainability and service life benefits of metal roof

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy**W1.JG Energy Efficiency for the Long
Haul: How to Put Your Plan Into Action**

Jasmine G/H

Presenter(s): B. Alan Whitson, President, The
Corporate Realty, Design & Management Institute

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

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

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NFMTVEGAS Booth #121

9:00 AM

Operations and Maintenance

**W2.BA What's Your Grade?
Calculating Your Maintenance
Performance Index**

Banyan A/B

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

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

Learning Objectives:

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

AUDIENCE: BEGINNER CEU: 0.1

Operations and Maintenance

**W2.BC Effective Training for Today's
Engineers**

Banyan C/D

Presenter(s): Rodney Riepenhoff, Corporate Engineer, FirstService Residential

Improving and educating our engineers is a must in today's time. High-rise buildings are becoming more and more in demand for quality professionals. Managing your staff and yourself as well as implementing efficient policy and procedures helps to not only save money but strengthens you and your team and prepares for emergencies.

Learning Objectives:

1. Identify the true benefits of training for today's engineers
2. Review how to use training to improve the level of service offered by both you and your team
3. Understand how standard operating procedures can save time and money across a company
4. Learn where to get training for engineers

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security

**W2.JA We Know Where You Are:
Indoor Positioning Systems**

Jasmine A

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

Indoor positioning systems acquires data on the location of people and objects in buildings. The technology was developed by several large technology companies (Google, Apple, Nokia, Samsung) for the purpose of enhancing their mapping applications to work indoors and provide retailers the capability to target consumers as they get closer to their stores. Lost in the current developments is the benefit this new technology can have for facility management in system deployments. IPS has the potential to provide data on a building

that really hasn't existed in the past, thus enriching the analytics and performance of building operations. This session provides an overview of the technology and suggests a role for facility management.

Learning Objectives:

1. Describe how an indoor positioning systems works
2. Identify the benefits of an indoor positioning system for occupants building owners and tenants
3. Identify the market for IPS including major providers and different technology approaches
4. Understand the contractual and financial relationship an IPS provider may have with a building owner

AUDIENCE: ADVANCED CEU: 0.1

Operations and Maintenance, Technology

**W2.JC Measuring and managing
maintenance objectives**

Jasmine C

Presenter(s): Adam Napolitano, Executive Vice President of Sales, Banetti

Every organization is asking its maintenance and operations staff to do more with less. By measuring and better managing the work process, learn how to more effectively track, manage, and improve maintenance activities. This session speaks to process improvement and better deployment of existing CMMS/EAM solutions.

Learning Objectives:

1. Identify key critical indicators for tracking maintenance
2. Demonstrate how to baseline and measure improved performance
3. Show how technology can aid in justifying preventive and predictive programs
4. Sample KPIs and metrics you can quickly deploy

AUDIENCE: CEU: 0.1

Sustainability

W2.JE Recycling In a Tourist Town

Jasmine E

Presenter(s): Jeff Dix, Recycling Program, City of Las Vegas

The City of Las Vegas is advancing on a net-zero strategy for power, water and waste. Recycling plays a huge role in making the net-zero strategy succeed. Attend this session to review a case study of the City of Las Vegas' recycling program, highlighting the main steps, our successes, and a flub or two. Of the 50+ items we recycle, we will focus on the common materials often found.

Learning Objectives:

1. Review the need for rightsizing containers
2. Be able to identify proper container locations
3. Create an effective recycling communication strategy
4. Identify the necessary ongoing program maintenance

AUDIENCE: INTERMEDIATE CEU: 0.1

BACnet International

**W2.JF Using BACnet to Obtain
Free LEED Credits**

Jasmine F

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

Mike Olson, Manager, HVAC Applications, ABB, Inc. VFDs play a vital role in the precise control of high-performance green buildings by contributing towards energy-efficient air and water movement for HVAC systems. In addition, VFDs are an integral component

of ASHRAE Standard 90.1 and the LEED - Energy and Atmosphere category.

Learning Objectives:

1. Review how VFDs save energy
2. Understand what VFD BACnet Objects should be monitored
3. Learn how to get "free" LEED Credits for measuring and verification using BACnet and VFD on-board information

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

**W2.JG LED Lighting & Controls Can
Significantly Cut Energy Costs**

Jasmine G/H

Presenter(s): Bill Ballweg, Product Development Manager, Lithonia Lighting

Explore how the Iowa Public Employees' Retirement System (IPERS) used LED lighting with dimming and controls to help significantly reduce its electrical load by 70 percent. Replacing traditional fluorescent lighting with LEDs helped the facility achieve maximum energy savings, lower maintenance costs and provided its employees with better lighting for their work environment. Explore the challenges and solutions IPERS faced.

Learning Objectives:

1. Learn how LED lighting can achieve higher energy efficient standards and sustainability while creating a better lighting environment
2. Learn how LED luminaires can integrate with digital controls for maximum energy savings and controllability
3. Discover how digital lighting and controls can help a building become net zero energy-ready
4. Explore how LED luminaires reduce lighting maintenance

AUDIENCE: INTERMEDIATE CEU: 0.1

10:00 AM

Energy, Safety and Security

**W3.BA The Perfect Storm for
Sustainability**

Banyan A/B

Presenter(s): Thomas Saulsbury III, Principal - Product Marketing, Schneider Electric

This presentation focuses on the growing importance and value of measurement and verification of panelboards for public, private and commercial spaces. It's almost impossible to become energy efficient if you don't know how your circuits and plug loads are performing. During this presentation you'll learn about tools and strategies that effectively measure your energy usage - down to the actual circuit.

Learning Objectives:

1. Discuss the sustainability dilemma — The Perfect Storm
2. Examine the challenges and problem areas in sustainability
3. Recognize how knowledge-based strategies can achieve goals
4. Identify how to measure sustainability success and apply across other areas of energy management

AUDIENCE: ADVANCED CEU: 0.1



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NFMTVEGAS Booth #227



Energy, Sustainability**W3.BC Codes, Standards and Rating System Review for Water Conservation**
Banyan C/D

Presenter(s): Bill Hoffman, Senior Technical Advisor, Water Management, Inc.

Over the last several years water has become an increasingly important resource. The serious drought conditions around the country are causing the creation of new water and plumbing codes. In addition to codes, industry standards have increased the water conservation requirements. Attend this session to learn about recent changes to codes, standards and rating systems specific to water use. Attendees will also have a better understanding of the future requirements in the pipeline.

Learning Objectives:

1. Understand plumbing code changes on the local, state and federal level
2. Review ASHRAE Standards for high-performance green buildings
3. Learn about the new water conservation requirements in LEED-EB v4
4. Comprehend the next generation of plumbing and water conservation requirements

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy**W3.JA Post Hurricane Sandy Advances in Emergency Power**
Jasmine A

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

Hurricane Sandy highlighted the short falls of dependence solely on gen-sets for emergency power generation. Due to the overwhelming damage diesel and gas based systems ran out of fuel. Without power it was impossible to pump the fuel from the storage tanks. Small easily stored portable multi-technology systems using gen-sets, solar and batteries could have solved many problems. An architectural over view of these systems is presented and discussed. New enabling technologies are reviewed and test results of new systems will be presented.

Learning Objectives:

1. Micro grid (Off grid) power generation and distribution system architectural overview
2. Multi-technology power generation device and grid harmonization / synchronization
3. New advances in efficient self-aware micro grid inverter design
4. New reduced effort installation concepts

AUDIENCE: INTERMEDIATE CEU: 0.1

Hospitality**W3.JB ADA Updates for Hospitality: Pool Lifts and More**
Jasmine B

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

New Americans with Disabilities Act (ADA) regulations took effect on March 15, 2012. The requirement for pool lifts at existing pools was extended until January 31, 2013. Those dates have passed and ADA complaints and lawsuits are on the rise. During this session learn about the new

areas covered specific to the hospitality industry including swimming pools, fitness rooms, golf courses and changes in the number of accessible guest rooms required. Join this interactive and informative session to learn where to start and what to do in making sure your facilities are compliant.

Learning Objectives:

1. Understand the new updates to the 2010 ADA Standards, specific to the hospitality industry
2. Identify the new areas covered: including swimming pools, fitness rooms, golf courses and changes in the number of accessible guest rooms required
3. Learn the risk of not complying with the ADA and how you can avoid costly litigation
4. Identify a common sense approach to remove barriers and welcome guests and customers

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance, Technology**W3.JC Using Data Warehousing to Unlock the Power of the Facilities Data You Already Have**
Jasmine C

Presenter(s): Stephen Sakach, CFM, CPE, Chief of Facilities Operations, International Monetary Fund

In order to increase efficiency and drive more sustainable building operations, the International Monetary Fund (IMF or the Fund) embarked on a path of using upgraded technology to transform the method of managing information. The IMF has been implementing DataSmart warehousing since September 2012, allowing facilities managers to gather, correlate and interpret data more efficiently than ever before. Work Order data, collected via data warehousing, provides performance data (data warehouse data), predictive analysis (eddy current, vibration analysis, oil analysis, MCE testing), maintenance history (INFOR and data warehouse) and observations made in the field to adjust the maintenance program for each major piece of equipment to achieve the best value for the actual condition.

Learning Objectives:

1. State what data warehousing is and how it can be used in a scalable way to almost any budget
2. Identify the data that you already have
3. List how to capture the data that can drive your decision-making process
4. Execute "fast failure" pilot studies using your data warehouse

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability**W3.JE Green Cleaning: Getting Vendors To Implement Changes To LEED-EBOM V4**
Jasmine E

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

Learning Objectives:

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

AUDIENCE: BEGINNER CEU: 0.1

BACnet International**W3.JF How Facility Managers, Specifiers and Equipment Suppliers can use BACnet Effectively**
Jasmine F

Presenter(s): Grant Wichenko, P.E., President, Appin Associates

BACnet was founded on the principle that if vendor A's front end software could talk to or interoperate with vendor B's BAS devices, then it would be possible to build out or renovate buildings in a competitive manner by bidding the work to more than one vendor. Co-operative competition or "co-opetition" refers to the ability of the owner or a facility manager to use the ASHRAE BACnet protocol to permit more than one BAS vendor to provide BAS goods and services on a multi-building site such as a university campus or military base. Co-opetition permits not only BAS vendors to provide BACnet-based equipment on a competitive basis but equipment suppliers (such as boiler, chiller, lighting, VFD, meter and other suppliers) who have equipment with BACnet interfaces to their equipment. With the coming of the SmartGrid, equipment provided in the facility domain must interoperate in this domain and will eventually need to share the meter, generator, load and energy manager data outlined in ASHRAE 201P so as to allow the facility domain as a whole to respond to real time pricing and demand response events.

Learning Objectives:

1. Review What is Co-opetition
2. Be able to make the transition from proprietary controls to networked controls using BACnet
3. Who does what in the networked controls design Model

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance**W3.JG Sustainable HVAC Design and Operation: The Myths and the Magic**
Jasmine G/H

Presenter(s): Joseph J Watson, PE, CxA, LEED AP, Senior Project Engineer, E3 Designs

The presentation will highlight some of the common misconceptions and incorrect assumptions in the application of sustainable design concepts. We will review actual operating data from multiple system types including VAV, fan coils, water-source heat pumps, packaged equipment, and a wide range of central plant designs. Innovative design concepts including geothermal applications, ice storage systems, hybrid chiller plants, radiant heating and cooling, and under-floor distribution will also be discussed. Learn how to evaluate alternative system designs and sustainable concepts that provide practical and effective methods for optimizing HVAC system performance.

Learning Objectives:

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

AUDIENCE: BEGINNER CEU: 0.1

2:10 PM

Leadership, Operations and Maintenance

W4.BA How to Develop and Write an Effective Repeatable Maintenance Procedure

Banyan A/B

Presenter(s): Martin Tauber, Maintenance, Barber Foods, Production Trainer, AdvancePierre

It is important to have an effective, repeatable maintenance procedure written down, recorded and taught to all mechanics who will be performing the particular task. Maintenance work procedures are the key to success in the mechanics work execution. Work execution is the function that involves how we perform preventive maintenance, predictive maintenance and corrective maintenance effectively. Given the state of the economy these days, companies are striving to produce more efficiently. The easiest way is to have all mechanics perform a correct maintenance procedure in the same manner and get the same results.

Learning Objectives:

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

AUDIENCE: INTERMEDIATE

CEU: 0.1

Technology

W4.BC De-Stressing Your Workforce with Planning and Scheduling

Banyan C/D

Presenter(s): Jamshed Rivetna, President, Ensoft Consulting, Inc.

Workforce scheduling is often viewed as an activity for more sophisticated maintenance environments. But at its core scheduling is simply: evaluating jobs, prioritizing them, and assigning them to a responsible party. These are things we already do, yet there is no formality to it. With this presentation, we will explore the core planning and scheduling tasks and will offer guidance on how to implement them as components of your everyday workflow process.

Learning Objectives:

1. Explain the benefits of proper work management for facility managers
2. Explain that work planning and scheduling is for everyone not just sophisticated organizations
3. Describe and explain the core concepts of work planning and scheduling
4. Provide tips and guidance on how to begin implementing planning and scheduling within an organization

AUDIENCE: INTERMEDIATE

CEU: 0.1

Sustainability

W4.JA Recycling Program Evolution: Transitioning from the 3Rs to the 3Cs

Jasmine A

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

The traditional recycling approach has been developing a program around the three R's of recycling - Reduce, Reuse, Recycle. The desire to improve sustainability goals while striving for zero waste requires a much different approach from our experience. This session will look at each piece and discuss how they are critical in the building of a successful recycling program, along with the sharing of some best practices.

Learning Objectives:

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

AUDIENCE: INTERMEDIATE

CEU: 0.1

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NFMTVEGAS Booth #401

Technology**W4.JC Identify and Quantify Mission-Critical Factors (How to Perform a Critical Audit)**

Jasmine C

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

A critical systems audit helps a facility manager assess current performance of HVAC, water, lighting, electrical, mechanical, controls and other building systems. Today, advanced audits have become a key step on the journey to create a high performance building that links the building's physical environment to its overall mission. Presentation will address steps for performing a critical system audit.

Learning Objectives:

1. How to identify and quantify mission-critical factors
2. List Benefits of a critical system audit
3. Justify how to begin the journey to create a high performance building with a critical system audit
4. State tips to optimize your critical system audit

AUDIENCE: INTERMEDIATE CEU: 0.1

Operations and Maintenance,**Safety and Security****W4.JE GHS Is Coming! GHS Is Coming!**

Jasmine E

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

MSDS/SDS training can be extremely difficult on several levels. GHS will make the training information easier to create and remain consistent across all chemical manufacturers. The focus of most training is on where emergency information is located and students don't get the real benefit from the information on the MSDS/SDS. This presentation focuses on the changes coming with GHS and how to make the information interesting so students will retain and use it.

Learning Objectives:

1. Understand the Global Harmonized System (GHS) and planned implementation timeline
2. Understand many terms used on an MSDS/SDS that are commonly misunderstood
3. Understand how to conduct training sessions that will hold the interest of the students and increase appreciation of the wealth of information on an MSDS/SDS
4. Understand how to use the information on the MSDS/SDS for storage of chemicals and how to set up an MSDS/SDS book for maximum benefit

AUDIENCE: INTERMEDIATE CEU: 0.1

BACnet International**W4.JF VFD Communications: Which Objects Should I Monitor and Why?**

Jasmine F

Presenter(s): Mike Olson, Manager, HVAC Applications, ABB, Inc.

BACnet communications to VFDs has been available for the past eight years. Over 70 BACnet objects are available from a typical VFD interface. Learn which objects to monitor and why. A working demonstration of VFD serial communications will be part of this session.

Learning Objectives:

1. Identify what information is available from VFDs over BACnet
2. State the minimum recommended information to be monitored via the BACnet interface
3. Learn about advanced energy savings strategies available from the BACnet data

AUDIENCE: INTERMEDIATE CEU: 0.1

Sustainability**W4.JG Ensuring a Clean, Green & Healthy Indoor Environment**

Jasmine E

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

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

Learning Objectives:

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

AUDIENCE: INTERMEDIATE CEU: 0.1

3:10 PM**Operations and Maintenance****W5.BA Uptime Elements for High Performance Asset Management**

Banyan A/B

Presenter(s): Terrence O'Hanlon, Publisher, Reliabilityweb.com

Jeff Smith, Association for Maintenance Professionals

Asset reliability is as much a way of thinking as it is a set of practices and strategies. For 30 years modern approaches to effective maintenance service delivery have been well documented but most organizations fail to achieve sustainable high-performance asset reliability. Many maintenance reliability professionals have a deep yet narrow knowledge of their specific subject matter expertise. They may not fully appreciate how their work fits into asset reliability and what role their work plays in supporting the aim of the organization. This lively and interactive session will allow you to develop a new system for and a new way of thinking about asset reliability.

Learning Objectives:

1. Learn a holistic approach to asset reliability and performance
2. Learn how leadership affects reliability
3. Discover how to aim asset condition management
4. Learn why Reliability Engineering for Maintenance is a foundational element

AUDIENCE: BEGINNER CEU: 0.1

Safety and Security**W5.BC Security in Schools**

Banyan C/D

Presenter(s): Dr. Rich Bauscher, Superintendent of Schools, Middleton School District

In the past six months school security has been in the spotlight and has started a national dialog about how best to keep kids safe. Hear first hand from a school superintendent about best practices and current trends, along with a case study and cost review from a recently opened high school.

Learning Objectives:

1. Understand how to plan the best security features in a school
2. Review a new high school's security features
3. Be able to identify the cost of the security features

AUDIENCE: INTERMEDIATE CEU: 0.1

Safety and Security**W5.JA Codes, Laws and Common Sense: Fire Door Inspections**

Jasmine A

Presenter(s): Bob Cullum, AHC, FDAI, Consultant, ASSA ABLOY

John Hunepohl, Director of Education, ASSA ABLOY

In this session, experts demonstrate the process of inspecting fire doors, discuss and interpret applicable NFPA codes and provide a checklist for inspections you can perform to help your facility maintain a safer building. Inspecting fire doors not only saves lives, but also increases the adherence you have to your tenants and reduce liability.

Learning Objectives:

1. Review the 13 points of fire door inspection and performance
2. Be able to address the 11 point inspections of egress doors

AUDIENCE: INTERMEDIATE CEU: 0.1

Hospitality

W5.JB Reducing Water Use in Hotels

Jasmine B

Presenter(s): Bill Hoffman, Senior Technical Advisor, Water Management, Inc.

Today's hotel managers and engineers are challenged with reducing the property's water usage and curbing rising utility bills while still providing guests an uncompromised level of quality water usage and benefits. Attend this session to review how to measure current water usage, creating water conservation plan and implementing that plan in your hotel.

Learning Objectives:

1. Be able to identify water use benchmarks for hotels
2. Review the current rising cost of water bills
3. Understand the conservations measures you can implement
4. Learn about the national codes, standards and rating systems that will impact hotel operations

AUDIENCE: INTERMEDIATE CEU: 0.1

Technology

W5.JC High Performance Building? Not Without Proper Testing, Adjusting and Balancing

Jasmine C

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

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

Learning Objectives:

1. Be able to define TAB
2. Identify the relationship between your operating budget and TAB
3. State the difference between proportional and sequential balancing
4. Specify TAB using Masterformat

AUDIENCE: INTERMEDIATE CEU: 0.1

Energy

W5.JG Design Considerations for Climate Change

Jasmine G/H

Presenter(s): Paul Totten, PE, LEED AP, Senior Principal, Halsall, A Parsons Brinckerhoff Company

Our environment around us is always changing, but the impacts of climate change are becoming more noticeable. The speakers will discuss what portions of our building enclosure design and layout of interior spaces may be most impacted by these changes. They will provide considerations for enhanced roofing and waterproofing, components to improve fenestration performance and discuss work in progress in the US on addressing our impact and the impact our environment can have on us.

Learning Objectives:

1. Be able to better assess short term and long term building enclosure performance objectives related to climate change
2. Examine the impact on design decisions for fenestration and roofing and waterproofing
3. Better coordinate HVAC system layout and the enclosure design on new construction and impacts on existing infrastructure
4. Understand various strategies to future proof buildings and innovative design systems such as reactive exterior screens and solar chimneys

AUDIENCE: INTERMEDIATE CEU: 0.1

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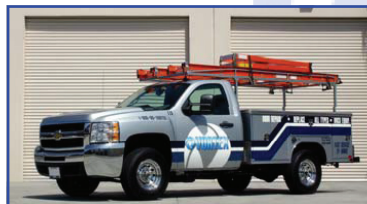
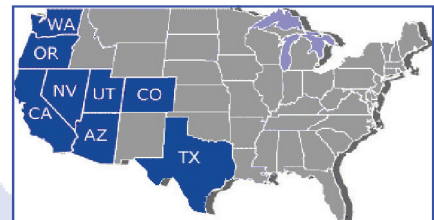
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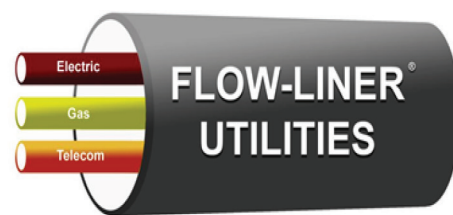
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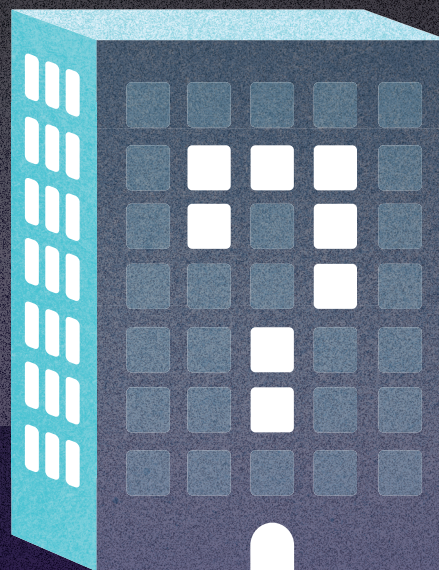
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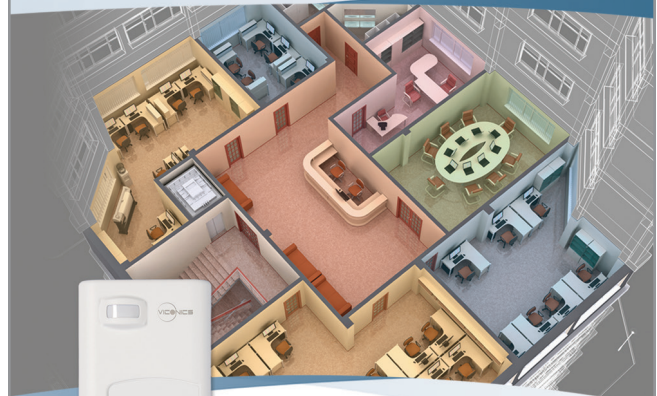
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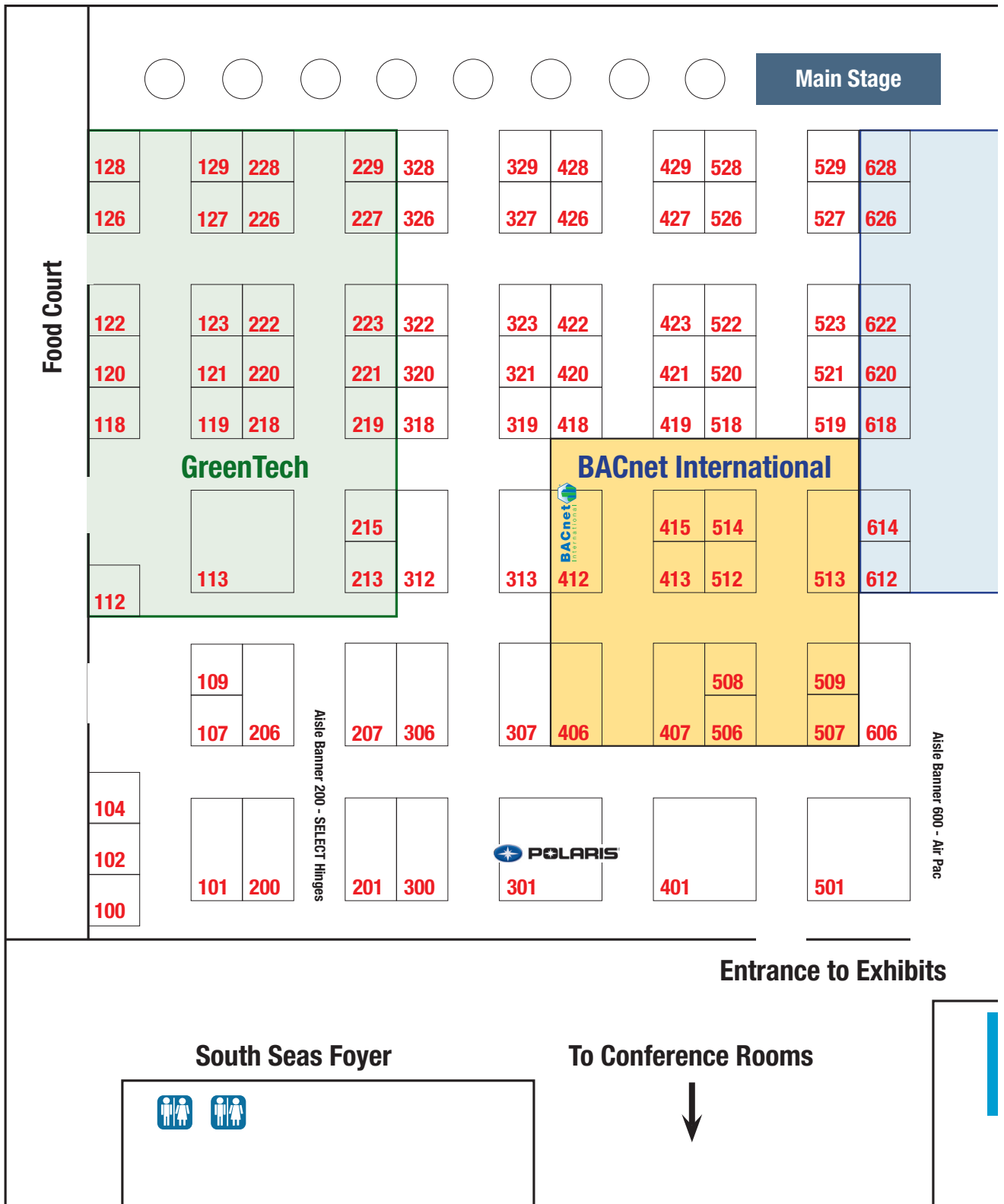
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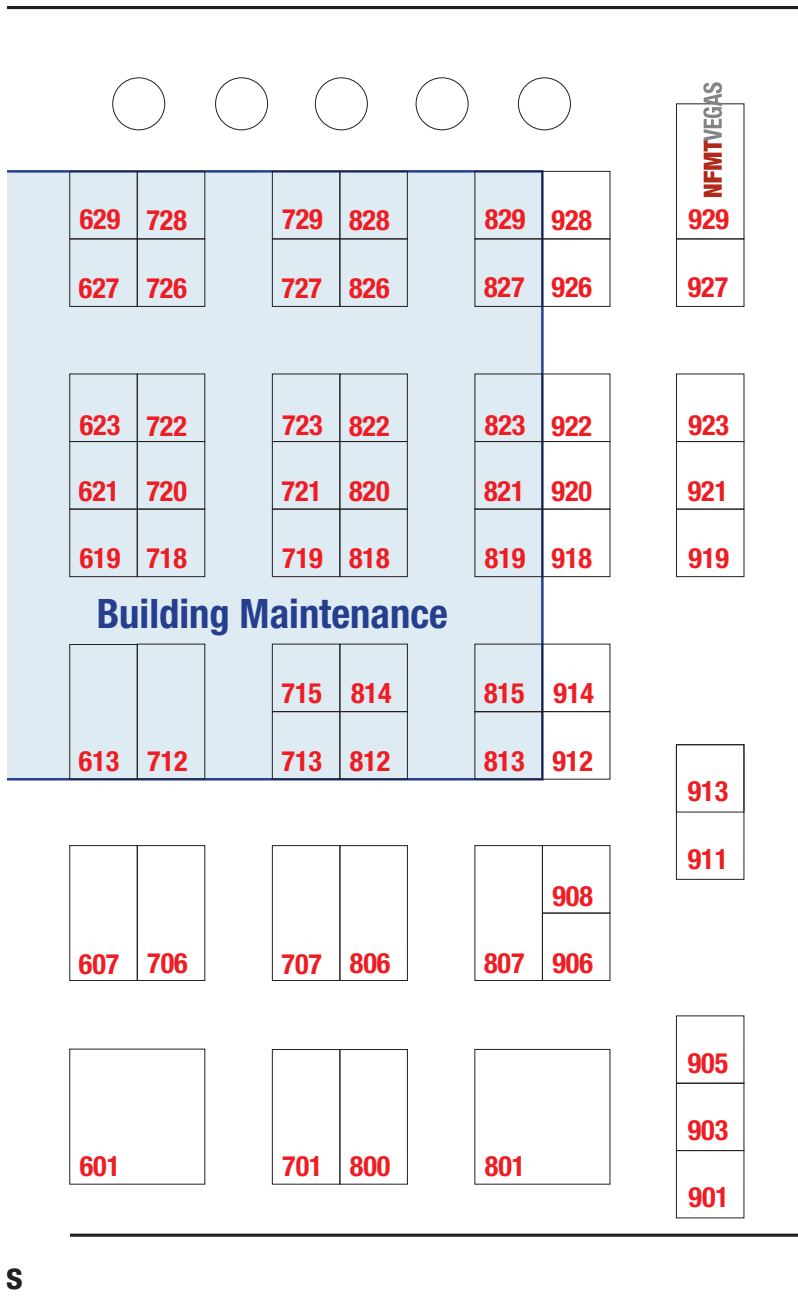


NFMTVEGAS Booth #506

Exhibit Hall Map



BUILDING OPERATING MANAGEMENT'S NFMTVEGAS



KEY



Restrooms



NFMT Cafe



Main Stage



2014 Space Selection

Major Sponsor Booths

BACnet International.....	412
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Expo Hall Events

TUESDAY

Noon – 4:00 p.m.	Exhibit Hall Open
3:00 – 4:00 p.m.	Networking Party
3:45 p.m.	BACnet International Awards and \$1,000 Prize Drawing
4:00 – 5:00 p.m.	Solutions Exchange

WEDNESDAY

11:00 a.m. – 2:00 p.m.	Exhibit Hall Open
1:30 p.m.	FMDAA Presentation (Main Stage)
1:45 p.m.	\$1,000 Prize Drawing

2014
Space
Selection



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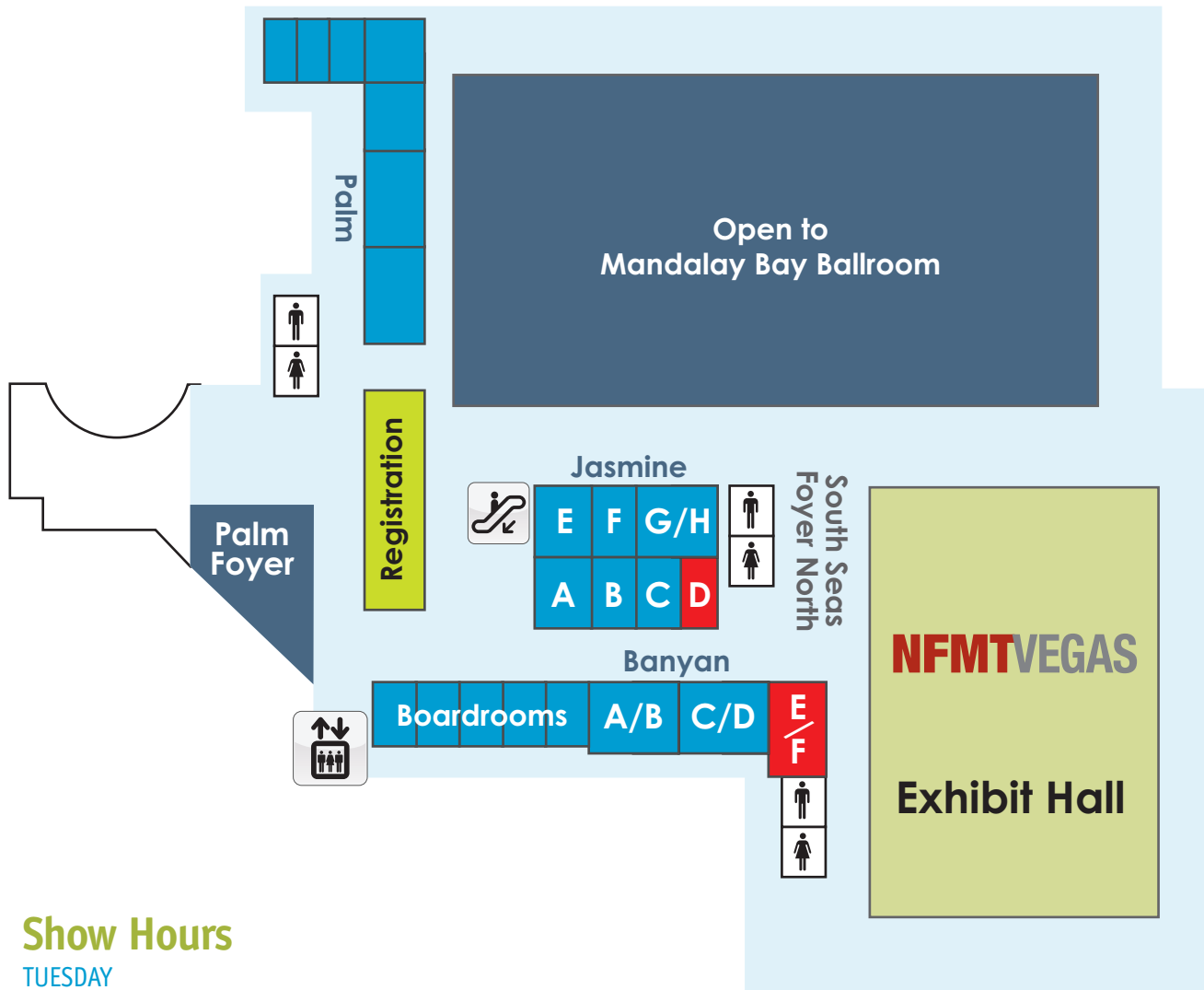
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Questions? Visit us at NFMT Booth #929.

NFMTVEGAS Booth #929

Conference Map



Show Hours

TUESDAY

- | | |
|-------------------|-----------------------|
| 8:00 – 11:50 a.m. | Conference Sessions |
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| 3:00 – 4:00 p.m. | Networking Party |
| 3:45 p.m. | \$1,000 Prize Drawing |
| 4:00 – 5:00 p.m. | Solutions Exchange |

WEDNESDAY

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|------------------------|-----------------------|
| 8:00 – 10:50 a.m. | Conference Sessions |
| 11:00 a.m. – 2:00 p.m. | Exhibit Hall Open |
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| 2:10 – 4:00 p.m. | Conference Sessions |

- Palm Foyer Solutions Exchange, Women in FM
- Jasmine D Show Office/Speaker Ready Room
- Banyan E/F 2014 Exhibit Space Selection
- Registration

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