

RCM NEWS

RCM News for April 2016

A newsletter for Resource Conservation Managers in the Northwest

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While every URL in RCM News is checked for accuracy prior to distribution, URLs may change, and servers may temporarily fail to connect to working URLs.

→ See events below for the upcoming RCM Webinar on May 25.

Building Re-tuning

“Management Insight: Laurie Gilmer”, a three-part article in the April 2016 issue of *Facility Maintenance Decisions* written by Laurie Gilmer, explores re-tuning as a method to increase energy efficiency in buildings. Re-tuning focuses on operational changes, and is a continuous process, unlike one-time building commissioning and energy audits. [RCM News editor note: A major part of an RCM’s job is re-tuning, whether or not that is the name used to describe the process.]

Part 1: [Re-Tuning Buildings for Improved Facility Performance](#)

Part 2: [EPA Statistics Debunk Energy Efficiency Myth](#)

Part 3: [Training, Preparing for Building Re-Tuning Process](#)

Exterior Lighting

In a five-part article on exterior lighting published in the April 2016 edition of *Facility Maintenance Decisions*, James Piper writes about exterior lighting options, and that replacing exterior lights one for one in existing fixtures may not be appropriate. Factors in choosing energy efficient replacement lights include light distribution, glare control, and color rendering. The last section discusses lighting options for older adults, whose lighting needs are different than younger people.

Part 1: [Exterior Lighting Upgrades Deliver Efficiency, Savings](#)

Part 2: [Auditing Process Helps Managers Discover Lighting System Savings](#)

Part 3: [Place Focus of Exterior Lighting Projects on Fixtures](#)

Part 4: [LED, HID, Fluorescent Fixtures Among Exterior Lighting Options](#)

Part 5: [SIDEBAR: Website Offers Lighting Designs for Older Adults](#)

LEDs

“[LED Upgrades for Fluorescent Tubes](#)”, written by Eric Woodroof, for the April 2016 issue of *Buildings* magazine examines two case studies where snap-in LED tubes replaced fluorescents; one in an office retrofit, and one in a high bay setting. A cost breakdown for savings, installation costs, and simple payback is shown for both scenarios.

“[7 Tips to Maximize LED Retrofits](#)”, appearing in the April 2016 issue of *Buildings*, and written by Janelle Penny, Senior Editor, offers tips on how to choose LED products for a retrofit. The first tip is to identify the reason for a retrofit, such as wanting to reduce maintenance cost, save energy, or improve light quality.

Lighting

A three-part article on “Lighting”, written by Rita Tatum for the April 2016 issue of *Building Operating Management*, focuses on advanced lighting systems. When considering high-performance lighting retrofits or new construction, elements other than efficiency must be taken into account, such as the optical quality and potential glare of the luminaire, daylighting possibilities, and the design and availability of fixtures.

Part 1: [Technology, Design Advances Are Driving High-Performance Lighting](#)

Part 2: [High-Performance Lighting Means Balancing Budget with Quality](#)

Part 3: [SIDEBAR: Technology Gains in High-Performance Lighting](#)

Smart Buildings

The “Smart Buildings” feature in the April 2016 online edition of *Building Operating Management*, written by Kurt Karnatz, is a two-part article on smart buildings, defined as more than just the building automation system (BAS). To plan and attain economic, environmental, and experiential (occupant-focused) goals of a connected (smart) system, strategic planning with all stakeholders are necessary, as well as modeling outcomes, and understanding the possibilities and limitations of the building systems.

[Part 1: Making The Business Case For Smart Buildings](#)

[Part 2: Three Buckets of Smart Buildings Goals: Economic, Environmental, Experiential](#)

Waterless Urinals

In the six-part “Plumbing and Restrooms” feature (the last two parts are sidebars) in the April 2016 issue of *Facility Maintenance Decisions*, Dave Lubach, Associate Editor, writes about advances in the new generation of waterless urinals. Water savings are important especially to facility managers who must reduce water use in drought states. Cleaning staff must be trained because waterless urinals do not rely on water for cleaning – odors are eliminated through a liquid sealant barrier.

Part 1: [Waterless Urinals: A New Generation of Water Savings](#)

Part 2: [Water Shortages Increase Appeal of Waterless Urinals](#)

Part 3: [New-Generation Advances in Waterless Urinals](#)

Part 4: [Points to Ponder when Installing Waterless Urinals](#)

Part 5: [SIDEBAR: WaterSense Program](#)

Part 6: [SIDEBAR: ADA — Providing Pipe Protection](#)

Upcoming Events & Training Opportunities

Energy Facilities Connections Conference

It's not too late to register for the 12th annual Energy Facilities Connections Conference! Spend 2 ½ worthwhile days in hands-on workshops, classroom presentations, and networking.

- May 3-5, 2016 in Leavenworth, WA

[Click here for information](#)

WSU Energy Program Plant Operations Support Consortium

Lighting Design Lab Classes

Lighting Design Lab offers a morning class and afternoon class at different locations.

Morning class: 2015 Washington Energy Code Update – Electrical & Lighting Systems

Afternoon class: The Q&As of QPLs (Qualified Products Lists)

- May 4 in Tacoma
- May 10 in Seattle

[Click here for information](#)

Lighting Design Lab

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Benchmarking Water/Wastewater Treatment Facilities in Portfolio Manager – May 5
- Tackling WaterSense – Mechanical Systems – May 10
- Register for the 2016 Energy Star BOOTCAMP! – May 17
- Portfolio Manager 101 – May 24
- Portfolio Manager 201 – May 25
- Portfolio Manager 301 – May 26
- Ask the Expert – an open Q&A session every Wednesday at 9:00 AM Pacific time

[Click here for more webinars and information](#)

US EPA

Portland General Electric Seminars and Webinars

Portland General Electric offers online webinars and paid workshops open to everyone, and seminars and workshops free of charge to its commercial and industrial customers. All classes in Oregon or online.

- Taking Sustainability to the Next Level – May 11 in Portland
- Lighting Upgrades for Commercial Property Managers – May 18 in Portland
- Pump System Optimization – May 25 in Wilsonville

[PGE Energy Education Classes](#)

Portland General Electric, Energy Trust of Oregon

The Effect of Green Buildings on Cognitive Function

A 90-minute webinar sponsored by EPA about indoor air quality factors in buildings.

- May 11 online

[Click here for more information](#)

EPA Indoor Environments Division

E3T Showcase Webinars

These are a series of free, lunch-hour webinars bringing you information about energy efficient emerging technologies and strategies, sponsored by BPA and provided by WSU Energy Program.

- Emerging Technologies in the 7th Power Plan – May 12 online

[Click here for information](#)

WSU Energy Program, BPA

Building Operators Certification Technical Webinars

- Building Tool Diagnostics #4: Infrared Cameras – May 18

[Click here for more information](#)

Building Operator Certification

Building Operators Certification

BOC Level I certification is 74 hours of training and project work in building systems maintenance. Level II certification is 61 hours of training and elective coursework in equipment troubleshooting and maintenance. Classes usually meet one or two full days a month over a period of four to six months.

All dates below are for the first class.

- Washington State
 - Level I – May 23, 2016 in Silverdale
 - Level I – Sept 28, 2016 in Renton
 - Level I – Fall 2016 in Moses Lake
 - Level II – Sept 27, 2016 in Tacoma

[Click for BOC Washington State information](#)

- Oregon
 - Stay tuned for more classes!

[Click for BOC Oregon information](#)

Building Operators Certification

Efficient, Effective Industrial & Commercial Lighting

- May 24 in Spokane

[Click here for registration and more information](#)

Avista

RCM Webinar – Identifying Building Leaks and Heat Loss

Requested by the majority of those on the WSU Energy Program RCM Listserv, This webinar presentation explores various types of building envelope deficiencies, the signs that your building may have them, and diagnosing them with a thermographic camera and by other methods. WSU Energy Program building science specialist Luke Howard discusses the relationship between building deficiencies and heat loss, as well as a few basic repairs and upgrades to consider.

- May 25 – 12:00 PM online webinar

[Click here to register](#)

WSU Energy Program

West Coast Energy Management Congress

Energy conference and technology expo for business, industrial, and institutional energy users.

- May 25-26, 2016 in Seattle

[For more information](#)

Association of Energy Engineers, PSE

Introducing New Variables: Developments in Variable Speed Technology

- June 3 in Wilsonville, OR

[Click here for more information](#)

Oregon Association of Professional Energy Managers

Energy Management Certificate

Registration is now open for the annual “energy bootcamp” offered by the Northwest Water & Energy Education Institute. This advanced certificate program covering a wide array of energy management topics is not to be missed.

- July 11-22, 2016 in Eugene, OR

[For more information](#)

NWEEI

Resources for You

Survey on Tracking Electric Demand in Portfolio Manager

Do you want to be able to track electric demand in Portfolio Manager? If yes, take the [short survey](#) that Energy Star has made available to gather more information. Identifying what specific information users want to track, and how they want to use it, will help Energy Star incorporate the feature into Portfolio Manager, possibly by early 2017.

Green Leases

Commercial building leases can be leveraged to reduce energy use when the lease structure is changed so that landlords and tenants alike benefit from energy efficiency improvements. [BetterBricks has gathered resources](#) on the topic of green leases, such as case studies, tips and strategies for communicating energy efficiency goals, ways to make an existing lease “greener”, and providing models of green leases.

Do you have newsletters, websites and links to share? Do you have RCM questions?

RCM News is always looking for interesting information, tips and resources to share with other resource conservation managers. Our goal is to increase your success by sharing what you and your colleagues are doing – with energy efficiency measures, problem-solving, communication, data tracking, presentations, and more. In addition, WSU Energy Program can help find solutions to your RCM program’s technical and programmatic questions. [Email Karen](#) to share and ask!

Washington RCM Support

The Washington State University Energy Program provides RCM support. Check out the “RCMx” website: <http://www.energy.wsu.edu/PublicFacilitiesSupport/ResourceConservation/RCMx.aspx>. We appreciate any feedback on this site and would also appreciate items to add to our resources, such as tools, examples of policies and job descriptions.

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Previous issues of RCM News may be viewed at <http://www.energy.wsu.edu/PublicationsandTools.aspx> (click on Resource Conservation in the right hand column).

We welcome comments or ideas for articles. Please send to Karen Janowitz - janowitzk@energy.wsu.edu

