

## RCM News for October 2019

### A Newsletter for Resource Conservation Managers in the Northwest

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## ARTICLES

### High-Performance HVAC Systems

Selecting high-performance HVAC systems is the focus of a two-part article written by Jim Newman for the October 2019 issue of *Building Operating Management*. High performance is not just energy efficiency – it means that the system was designed to meet its needs throughout its life cycle. Costs, maintenance, flexibility, and carbon emissions are some of the factors that building owners and managers will want to consider for optimal design.

Part 1 – [How to Select High-Performance HVAC Systems](#)

Part 2 – [4 Steps to Selecting High-Performance HVAC](#)

### Retrocommissioning Persistence Field Study

“[How Retrocommissioning Leads to Long-Term Energy Efficiency](#)”, written by Saranya Gunasingh, Melanie Lord, and Scott Hackel for the October 2019 issue of *Building Operating Management*, discusses a recent study showing persistent energy savings with retrocommissioning (RCx). An in-depth field study evaluated persistence in buildings that were retrocommissioned from five to eight years ago. Persistence in electric energy savings was over 60 percent. The highest persistence was from measures on filters and airflow adjustments, while thermostat settings and lighting controls had the least persistence. The study team analyzed key metrics influencing persistence, and made recommendations from the overall results of the study.

## Secondary Window Inserts

“[Secondary Window Inserts Perform Flawlessly at Carnegie Hall](#)”, recently published on the *BetterBricks* website, discusses the use of modern solutions on old buildings. The Carnegie Hall building in West Virginia has been in continuous use as a performance space. While the building has been nicely preserved, heating expenses have increased continuously. Insulating glass panels were added to each of Carnegie Hall’s single-pane windows, reducing heat loss and heating expenses, and warming the entryway on a cold day in West Virginia.

## Water Efficiency

This article, written by Elizabeth Beardsley for the October 2019 issue of *Building Operating Management*, discusses water management within the framework of sustainability and resilience. Improving management of water onsite and reducing water dependency includes using less water and also identifying alternative water sources. LEED is one of the green building rating systems that rewards for water efficiency and management. Water utilities may offer incentives to reduce water use.

Part 1 – [How Water Efficiency Creates Resilient Facilities](#)

Part 2 – [How LEED Guides Users to Water Efficiency](#)

Part 3 – [Incentives, Resources for Implementing Water Efficiency and Resilience](#)

## UPCOMING EVENTS & TRAINING OPPORTUNITIES

### 2019 Fall Lighting Design Lab Classes

- Networked Lighting Controls in Schools – Nov 5 in Seattle
- Networked Lighting Controls, 2-day workshop – Nov 7 & 8 in Seattle
- Light, Human Perception, and Health – Nov 14 in Seattle

[Click here for more information](#)

*Lighting Design Lab*

### ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Nov 5
- Recognizing Employee Participation in Energy Management Efforts – Nov 6
- Financing Energy Efficiency Projects: What to Know Before you Sign – Nov 12
- Portfolio Manager 201 – Nov 14
- Portfolio Manager 301 – Nov 26
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

*US EPA*

### Getting to Zero Energy in Schools is Achievable!

Stories from schools on the path to zero

- Nov 7 online webinar

[Click here for more information](#)

*New Buildings Institute*

## Better Buildings Webinars

- Spotlight on the 2019 Green Lease Leaders – Nov 12 online webinar
- Plug & Process Load Research – Nov 13 online webinar
- High Rotor Switched Reluctance Motors – Nov 20 online webinar
- How Buildings of All Shapes and Sizes are Achieving Zero Energy – Dec 3 online webinar

[Click here for more information](#)

*US DOE Building Buildings*

## Low-Cost Submetering Strategies for Operational Improvement – Lessons from a Living Laboratory

A free professional development event at 21 Acres Center Farm, featuring a LEED Platinum building.

- November 12 in Woodinville, WA

[Click here for more information](#)

*BOC, PSE, SCL, SnoPUD*

## Clean & Affordable Energy Conference

- Dec 2 in Seattle

[Click here for more information](#)

*Seattle City Light, Puget Sound Energy, Tacoma Power, CenturyLink, A&R Solar*

## 2019 Oregon APEM Winter Forum

How to Make the Case for Energy Efficiency in Your Project

- December 6 in Vancouver, WA

[Click here for more information](#)

*Oregon Association of Professional Energy Managers*

## 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 classes
    - April 2020 in Bothell
    - May 2020 in Kent
    - September 2020 in Spokane
    - October 2020 in Seattle
  - Level II classes
    - November 2020 in Seattle

[Click here for BOC Washington State information](#)

- Oregon
  - Level I classes
    - January 22 to April 24, 2020 in Vancouver, WA (**registration open**)
    - 2020 classes in Salem-Keizer and the Pendleton/La Grande area)
  - Level II classes
    - 2020 in Portland

[Click here for BOC Oregon information](#)

*Building Operators Certification*

## EDUCATION RESOURCES

### Online Energy Management and Water Conservation Technician Degrees – Lane Community College

Enroll for the Fall Term 2019 in either the [Energy Management Degree](#) or [Water Conservation Technician Degree](#) at the [Northwest Water & Energy Education Institute](#) at Lane Community College. Both award a two-year associate of applied science degree and both are **FULLY ONLINE**. Scholarships are available.

### Sustainable Building Science Technology Bachelor’s Degree – South Seattle College

[Enrollment is open for the Fall 2019](#) innovative two-year degree program at South Seattle College. Classes and field work prepare you for the field of highly technical sustainable building operations and facility management. Classes are mostly online and geared toward the working adult.

## RESOURCES

### Best Practices Video Series

Six short videos on commercial energy efficiency opportunities are offered by [BetterBricks](#) on their [YouTube channel](#). Topics of the first three videos cover benchmarking, net zero energy, and innovations in commercial lighting. Subscribe on YouTube to be notified when the other videos come out.

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### 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](mailto:janowitzk@energy.wsu.edu)

