

RCM News for June 2020

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.

COVID-19 RESOURCES

ASHRAE Guidance for Building Readiness and Reopening

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has released guidelines for building readiness and reopening buildings during the COVID-19 pandemic. The guidelines include information on strategic planning, use of Personal Protective Equipment (PPE), and custodial measures, as well as HVAC system operations. An article titled "[ASHRAE Offers COVID-19 Building Readiness/Reopening Guidance](#)" posted on the ASHRAE website offer more details on the guidelines.

ASHRAE's [COVID-19 Preparedness Resources](#) contains links to FAQs about HVAC operation during shutdown and return to normal operation, environmental health emerging issues, and guidance from the Centers for Disease Control and Prevention (CDC) and World Health Organization (WHO). Revisit the resource page regularly for updates.

Calculating Likely COVID-19 Exposure in Rooms

The National Institute of Standards and Technology (NIST) developed an airflow tool called the [Fate and Transport of Indoor Microbiological Aerosols \(FaTIMA\) tool](#) that calculates the concentration of aerosols that might potentially contain the COVID-19 virus. The software helps you determine which factors can be manipulated to decrease aerosol concentration and reduce occupant risk. More details can be found in a NIST report titled "[A Tool to Model the Fate and Transport of Indoor Microbiological Aerosols \(FaTIMA\)](#)".

Coronavirus (COVID-19) Resources for Facilities

Find a [list of resources](#) for facilities professionals to reference when dealing with the Coronavirus (COVID-19), from facilities.net.

Water Quality in Buildings during COVID-19

When buildings are closed for long periods of time and water usage is reduced, it can cause stagnant water inside the building plumbing. The U.S. Environmental Protection Agency (EPA) offers the [EPA Office of Water guidance document and checklist](#) for guidance.

ANNOUNCEMENTS

Lane Community College Offers Apprenticeship Program

In addition to their existing Associate's degree program in Energy Management and Building Controls, Lane Community College in partnership with the University of Oregon, now offers the [Building Energy & Controls Apprenticeship \(BECA\) Program](#). Through paid internships in agencies and organizations throughout Western States, students will learn about reducing energy in commercial buildings by re-commissioning and identifying opportunities to improve HVAC, lighting, and other building systems. By the end of the internship students will be qualified to take the Association of Energy Engineers (AEE) ANSI 17024 **Accredited Certified Energy Management (CEM) Certification exam**. They will also have earned their Associates of Applied Science (AAS) degree, and will have opportunities to sit for the **Building Operator Certification (BOC)** exam and the forthcoming **Association of Controls Professionals (ACP)** certification exam.

Smart Buildings Center Launches Remote Learning Library & Calendar

The Smart Buildings Center (SBC) announced the launch of a new Remote Learning [Library](#) and [Calendar](#). The clearinghouse of training information is designed as a resource for commercial energy managers, trade allies, facility managers, and those with a general interest in energy efficiency to find remote learning and training opportunities.

Washington State Clean Buildings Performance Standard

The Washington State Energy Performance Standard for covered commercial buildings will affect Washington State commercial buildings with 50,000 or more square feet of conditioned space. The standard is scheduled to become law November 1, 2020, and a voluntary efficiency incentive program will run from 2021 to 2026.

A July 9 online workshop is set to review all stakeholder comments to date. Public input and participation is encouraged. Visit the [Clean Buildings website](#) for more information. WSU Energy Program is providing customer support with a soon-to-be-launched website. Contact the WSU team at cleanbuildings@energy.wsu.edu.

ARTICLES

Roof Coatings

Technological advances in roof coatings can be used to restore an existing roof system and provide advantages such as extending the life of the roof and improving a building's energy efficiency. A set of articles in the June 2020 edition of *Building Operating Management* by John D'Annunzio discusses these advances and examines four different types of coatings and what to consider when selecting the best roof coating for your facility.

Part 1: [Roof Coatings Come of Age](#)

Part 2: [4 Types of Roof Coatings: How to Pick the Best for Your Facility](#)

Smart Buildings Technology

Smart building technology continues to become more available and it can be challenging to determine the right choices for your facilities. A series of articles by Edward Sullivan in the June 2020 issue of *Building Operating Management* discusses the need to ask questions that will help you determine which smart building technologies are right for your facility and what you should consider before implementing new technology. The articles also discuss how occupancy data gathered through smart building technology could assist in dealing with COVID-19 precautions as well as the risk to personal privacy.

Part 1: [4 Questions to Ask to Help Select Smart Building Technologies](#)

Part 2: [Smart Building Technology Hold Promise, Peril in the Age of COVID-19](#)

Part 3: [7 Things to Consider Before Implementing Smart Building Technology](#)

Sustainable Design and Noise Control

Incorporating proper noise control in sustainable building design is important for occupant comfort and productivity. [How Sustainable Design Choices Affect Noise Control](#), written by Mary Kate McGowan and published May 1, 2020 for *High Performing Buildings*, looks at design that may increase noise levels, such as ductwork, natural ventilation, and daylighting, and ways to mask the sound. Several resources that promote noise control are mentioned: acoustics are now included in the LEED rating system; ANSI Standard S12.60 is about acoustical performance and guidelines for schools; and the ASHRAE Handbook—HVAC Applications has a chapter on noise and vibration control.

UPCOMING EVENTS & TRAINING OPPORTUNITIES

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – July 8
- ENERGY STAR Higher Education Benchmarking Initiative – July 15
- Portfolio Manager 201 – July 22
- Beat the Peak – Using Water Wisely for Commercial Outdoor Space – July 22
- Energy Treasure Hunts during COVID-19 – July 23
- Portfolio Manager 301 – July 28
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

US EPA

Better Buildings Webinars

- Behind-the-Meter Distributed Energy Resources: Best Practices for Integrating DERS into Commercial Buildings – July 8
- The Dynamic Duo: Unleash Public Sector Energy Savings with Financing and Technical Assistance – July 14
- Next-Generation Building Performance Policies: Maximizing Energy Savings and Environmental Impacts – July 16
- Strategies to Combine Energy + Health Upgrades in Multifamily Housing – July 21
- Case in Point: Oregon's Recent Efforts to Reduce Plug Load Energy Consumption – July 22
- Everybody has a Data Center: How to be an Energy Champion for Yours – July 28
- Succeed with Submetering: How to Make the Business Case – Aug 4

[Click here for more information](#)

US DOE Better Buildings

Building Energy Exchange

Building Energy Exchange provides energy and lighting efficiency solutions in New York City, yet webcasts may be appropriate for all in the industry.

- Water Efficiency – July 7 online webcast

[Click here for more information](#)

Building Energy Exchange

Lighting Design Lab Webinars

- Networked Lighting Controls Fundamentals – July 14 & 15
- Lighting Design Process – July 28
- Audit and Retrofit Techniques – Aug 11
- Introduction to Codes & Standards – Aug 25
- Promoting Energy Efficient Lighting Systems – Sep 8

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

Lighting Design Lab

The Future of Work: Upgrade Your Building Science & Ops Toolkit

South Seattle College BAS Sustainable Building Science Technology is teaming up with the WSU Energy Program and Lane Community College to present a webinar on jobs of the future in building science, operations, and management.

- July 23 from 5:30 to 7:00 (NOTE TIME) - Webinar

[Click here for more information](#). More information to come.

South Seattle College and WSU Energy Program

Smart Buildings Exchange Conference

Two-day conference and trade show with the latest information and technologies in the smart buildings industry, showcasing smart city and building projects and initiatives in the Pacific Northwest.

- Sept 2-3, 2020 in Seattle

[Click here for more information](#)

Smart Buildings Center, NEEC

Go Green Conference

A regional conference offering educational opportunities on sustainability for business and public sector leaders.

- Sept 8 in Seattle, WA

[Click here for more information](#)

Washington Business Alliance

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.

Contact BOC directly for information about cancellations.

All dates below are for the first class.

- Washington State
 - Level I classes
 - Sept 22, 2020 through Mar 4, 2021 in Seattle
 - TBA in 2021 in Spokane
 - Level II classes
 - Oct 12, 2020 through Mar 23, 2021 in Seattle
- Oregon
 - Level I classes
 - July 6, 2020 through Jan 5, 2021 online
 - TBD 2020 in NE Oregon (Pendleton/La Grande)
 - Level II classes
 - TBD 2020 in Portland

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

[Click here for BOC Oregon information](#)

Building Operators Certification

Green Transportation Summit & Expo

The 10th annual summit

- NEW DATE! May 24-26, 2021 in Tacoma, WA

[Click here for more information](#)

Green Transportation

RESOURCES

DesignLights Consortium New Technical Requirements for Networked Lighting Controls

Adding network lighting Controls to LED lighting can provide a boost to energy savings. The DesignLights Consortium (DLC) issued a new version of its technical requirements for networked lighting controls. [Networked Lighting Control System Technical Requirements 5 \(NLC5\)](#) along with its associated [Qualified Products List](#) is a great resource to identify, compare and select high-performing control systems and determine if they are eligible for utility rebates.

Energy Treasure Hunts

Energy Treasure Hunts are great tools to find quick ways to save energy. During an Energy Treasure Hunt teams of employees walk around their facility to look for quick energy saving measures. ENERGY STAR offers valuable how-to guides and treasure maps to help conduct Energy Treasure hunts. For more information visit [ENERGY STAR Treasure Hunts](#).

Circadian-effective lighting research and design

The Lighting Research Center at Rensselaer Polytechnic Institute has just released the [Lighting for Healthy Living](#) website that integrates circadian-effective design research with real-world situations. A “Background” page educates about lighting and its impact on the circadian system. The “Application” page offers information on designing circadian-effective lighting in various facilities.

Benchmarking videos

Created for the Seattle Energy Benchmarking program, eight “how-to” [benchmarking videos](#) have useful information for everyone needing or wanting to perform benchmarking. Information includes an introduction to benchmarking, data collection, using utility data, and portfolio manager. All Washington State commercial buildings greater than 50,000 SF will need to benchmark for the Clean Buildings Standard – get a jump and start now!

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

