

RCM News for July 2010

A newsletter for Resource Conservation Managers in the Northwest

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Cooling

"Large-Campus District Cooling" was jointly authored by Kevin M. Kuretich, PE, University of Texas at Austin, and Ben Erpelding, PE, CEM, Optimum Energy LLC. More cooling with less energy and reduced costs is the theme of the story of UT's successful move into district cooling. See this article in *HPAC Heating/Piping/AirConditioning Engineering – Fastrack*, May 7, 2010, at <http://hpac.com/air-conditioning/large-campus-district-cooling-0510/>.

Food Waste

"Dining Halls to Start Composting," by Carol Hsin and Drew Henderson Staff Reporters, *Yale Daily News*, discusses the change in policy at Yale University whereby all leftover food is collected for composting rather than incinerated. Steps taken to realize the new approach are explained. This is the type of policy change that could be made at any facility – school, university, municipal, or state – where a cafeteria provides meals. See this article in the *Yale Daily News*, March 3, 2010, at <http://www.yaledailynews.com/news/university-news/2010/03/03/dining-halls-start-composting/>.

Lighting

"Controlling Destiny" was co-authored by Howard Berger, Managing Partner and Program Director, REALCOMM, and Terry Mocherniak, Chief Operating Officer, Encelium Technologies. This discussion of the advantages of advanced lighting control begins with a clear explanation of the differences among basic, automated, and advanced lighting control strategies. See this article in *Sustainable Facility*, April 2010, at http://www.sustainablefacility.com/Articles/Article_Rotation/BNP_GUID_9-5-2006_A_10000000000000792290.

Restrooms

"Smart Specification" is a five-part article by Thomas A. Westerkamp published in the March 2010 issue of *Maintenance Solutions*:

Part 1: Specification Starts with Preparation, Prevention. The challenges of restroom maintenance are presented. See Part 1 at

<http://www.facilitiesnet.com/PlumbingRestrooms/article/Restrooms-Specification-Starts-with-Preparation-Prevention--11603>.

Part 2: Plumbing Technology Advances Help Meet Code Requirements. The author includes a list of new technologies to consider and a brief discussion of codes. See Part 2 at

<http://www.facilitiesnet.com/PlumbingRestrooms/article/Plumbing-Technology-Advances-Help-Meet-Code-Requirements--11604> .

Part 3: Maintenance Should Focus on Shut-Off Valves. Discussion revolves around the specification of better valves, ensuring that their locations are known to all maintenance staff, newer and more hygienic restroom products and dispensers, and more. See Part 3 at <http://www.facilitiesnet.com/PlumbingRestrooms/article/Restrooms-Maintenance-Should-Focus-on-ShutOff-Valves--11605> .

Part 4: Occupancy, Seasonal Changes Affect Restroom Maintenance. The author suggests air and surfaces testing to meet the need for monitoring the conditions of restrooms. See Part 4 at <http://www.facilitiesnet.com/PlumbingRestrooms/article/Occupancy-Seasonal-Changes-Affect-Restroom-Maintenance--11606> .

Part 5: Develop Standard Practices Manual. This includes some discussion of why this is advisable and how to do it. See Part 5 at <http://www.facilitiesnet.com/PlumbingRestrooms/article/Restrooms-Develop-Standard-Practices-Manual--11607> .

Solar

"Arizona's Solar University," by Vicki Boyd, Contributing Editor, *enerG*, reviews a three-phase project whereby the several campuses of Arizona State University are being outfitted with photovoltaics to generate a total of ten megawatts of electricity. See this article in *enerG*, March/April 2010, at http://www.altenerg.com/back_issues/index.php?content_id=301 .

Buildings

"Top 10 Cool Roof Concepts for FMs," by John A. D'Annunzio, President, Paragon Consultants and Paragon Roofing Technologies Inc. is an article written for facilities managers that appeared in the April 2010 issue of *Building Operating Management*.

Part 1: Reflectivity, Emissivity Important Factors When Selecting a Cool Roof. The author considers both reflectivity and emissivity and, also, heat island effects. He then reports on energy savings of light-colored roofs and reviews the status of codes and standards where ratings and minimum requirements for reflectivity and emissivity are beginning to be included. See Part 1 at <http://www.facilitiesnet.com/roofing/article/Reflectivity-Emissivity-Important-Factors-When-Selecting-A-Cool-Roof--11641> .

Part 2: Insulation, Climate Can Affect Roof's Energy Efficiency. This second half of the article continues with remarks about the value and applicability of cool roofs and vegetative roofs. View Part 2 at <http://www.facilitiesnet.com/roofing/article/Insulation-Climate-Can-Affect-Roofs-Energy-Efficiency--11642> .

"BAS Secret to Energy Savings" is a four-part article by Naomi Millán, Associate Editor, *Building Operating Management*, and published in the June 2010 issue of that journal:

Part 1 - Energy Management Solutions Likely Already Housed In Facilities. Part 1 discusses the responsibility of facility staff to understand and properly use the control system already installed. See Part 1 at <http://www.facilitiesnet.com/buildingautomation/article/Energy-Management-Solutions-Likely-Already-Housed-In-Facilities--11794> .

Part 2 - Size of Automation Systems Should Be Proportionate to Building. Part 2 shows how an energy management system identifies problem areas where equipment is running at levels unsuitable for the tasks at hand. See Part 2 at

<http://www.facilitiesnet.com/buildingautomation/article/Size-of-Automation-Systems-Should-Be-Proportionate-to-Building--11795> .

Part 3 - Managers Can Maintain Building Service Levels While Saving Money with BAS. Part 3 shares tips on how to reduce power use without compromising required levels of service. See Part 3 at <http://www.facilitiesnet.com/buildingautomation/article/Managers-Can-Maintain-Building-Service-Levels-While-Saving-Money-With-BAS--11796> .

Part 4 - Water Consumption Can Be Controlled with Use of Submeters. Part 4 shows how submetering water consumption can lower utility bills by using a large aquarium as an example. See Part 4 at <http://www.facilitiesnet.com/buildingautomation/article/Water-Consumption-Can-Be-Controlled-With-Use-of-Submeters--11797> .

"Building Automation: Intelligent Buildings in the Age of Pneumatic Controls?" was jointly written by Paul Ehrlich, P.E., and Ira Goldschmidt P.E., both of Building Intelligence Group. The authors expose the vagaries of older controls, particularly in buildings with some sort of building automation system (BAS) where the two cannot possibly work together to realize a building's energy savings potential. They offer two suggestions that might enable a building owner to replace outdated controls while keeping costs in line. See this column in *Engineered Systems (ES)*, June 2010, at http://www.esmagazine.com/Articles/Column/BNP_GUID_9-5-2006_A_1000000000000832517 .

Transportation

"Branching Out into Alternative Fuels," by Tony Kryzanowski, Contributing Editor, *enerG*, describes the activities undertaken by the city of Hoover, Alabama, to power city-owned vehicles with ethanol and diesel derived mostly from waste materials otherwise headed for landfills including wood waste, cooking oils, seeds, and some nuts. See this article in *enerG*, March/April 2010, at http://www.altenerg.com/back_issues/index.php?content_id=302 .

Job Opportunities

[Shared Resource Conservation Manager](#) with Cascade Power Group. Position based in Bremerton, WA. Position closes August 5, 2010. <https://fortress.wa.gov/esd/worksource/ShowJobDetail.aspx?JobID=WA2085691&> .

[Shared Resource Conservation Manager](#) with Clark Public Utilities. Position based in Vancouver, WA. Position closes August 8, 2010. <https://fortress.wa.gov/esd/worksource/ShowJobDetail.aspx?JobID=1803998&>

[Resources Conservation Manager](#) position with Highline Public Schools in Burien, WA. Open until filled. <http://www.hsd401.org/employment/jobs/managementprofessional.htm>

[Resource Conservation Manager](#) job opening with Educational Service District (ESD) 112 in Vancouver, WA. This is a classified position, # 100527001, open until filled. <http://www.esd112.org/hropenings/>.

[Sustainability Coordinator/Resource Conservation Manager](#) at Bellevue College. Position closes August 10, 2010. http://bellevuecollege.edu/joblist/2010_Openings/010066.html

Upcoming Events & Training Opportunities

[Fundamentals of Efficient Lighting & Controls](#)
Sept. 1, 2010 in Portland, OR

Fundamentals of light and lighting, energy efficiency and controls. Suitable for those with no prior knowledge as well as those who know the basics.

Portland General Electric

http://portlandgeneral.com/business/news_classes/classes/default.aspx

New Trends in Lighting – LEDs vs. Incumbents

Sept. 8, 2010 in Portland, OR

Portland General Electric

http://portlandgeneral.com/business/news_classes/classes/default.aspx

Advanced Technologies in Outdoor Lighting

Sept. 9, 2010 in Portland, OR

Portland General Electric

http://portlandgeneral.com/business/news_classes/classes/default.aspx

Smart Metering, Load Profiling & Demand Response

Online live seminar –identical sessions below:

Sept. 8-10, 2010

Nov. 3-5, 2010

Dec. 13-15, 2010

A series of three interactive live two-hour time modules, this seminar shows you how to analyze “smart meter” data to gain a clearer understanding of your electrical loads and to use the information to control and minimize peak demand and energy costs.

<http://www.aeeprograms.com/realtime/LPonline/>

Monitoring Load Shape for Energy Savings

Sept. 15, 2010 in Portland, OR

Portland General Electric

http://portlandgeneral.com/business/news_classes/classes/default.aspx

What's New in Lighting 2010

Revisiting the Retrofit Process for Offices

(Attend both or just one class)

Sept. 15, 2010 in Boise, ID

Sept. 22, 2010 in Spokane, WA

Sept. 29, 2010 in Portland, OR

Oct. 7, 2010 in Tacoma, WA

Lighting Design Lab

<http://www.lightingdesignlab.com/calendar/classes.html>

Building Operator Certification (BOC) – Live Technical Webinars

Sept. 16, 2010 – Energy Tune Up – Measurement Tools for Building Energy Diagnostics

See website for other pre-recorded webinars.

<http://www.theboc.info/webinars/index.html>

Building Operator Certification (BOC) – Level I and Level II Certification course schedule

Ideal for operations and maintenance staff working in public and private commercial buildings. Classes meet one day a month.

Level I courses

Lacey – Sept. 14, 2010 to Mar. 1, 2011* (new location)

Seattle – Oct. 19, 2010 to Apr. 12, 2011

Level II Courses

Renton – Sept. 14, 2010 to Feb. 3, 2011*

Free Informational Web Cast

Sept. 9, 2010

* *dates subject to change*

http://www.theboc.info/wa/schedule_wa.html

For BOC courses in Oregon, go to <http://www.nweei.org/boc.html>

On-Line AEE Self Study Professional Training Courses

Course titles such as “Basics of Energy Management”, “Fundamentals of HVAC Systems” and “Finance & Accounting for Engineers & Technicians” (new) are available in a home-study format.

<http://www.aeecenter.org/training/>

Energy Events Calendar

<http://www.energyexperts.org/TrainingEducationandEmployment/EventsCalendar.aspx>

Resources for You

ENERGYsmart Library for Your Business

Information on energy efficient heating, cooling, lighting and other by equipment type. This is a Puget Sound Energy website.

<http://www.energyguide.com/audit/webauditframeset.asp?referid=73&bid=pse&sid=178&pageid=25&prd=20>

Washington State Energy Marketplace Directory

Directory of Renewable Energy, Energy Efficiency, & Sustainable Products Companies. Produced July 2010 by the State of Washington Department of Commerce Energy Policy Division.

<http://www.commerce.wa.gov/DesktopModules/CTEDPublications/CTEDPublicationsView.aspx?tabID=0&ItemID=5008&Mid=863&wversion=Staging>

Washington RCM Support

Washington State University Energy Program RCM Support

Check out the “RCMx” where we have moved the RCM Guidebook into web format. 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.

<http://www.energy.wsu.edu/projects/rem/rcm.cfm>

Oregon RCM Support

Oregon Department of Energy RCM Support

<http://oregon.gov/ENERGY/CONS/RCM/rcmhm.shtml>

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Previous issues of RCM News may be viewed at the WSU Energy Program RCM support page:

<http://www.energy.wsu.edu/rcmx/Meetings.aspx>

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