

A stylized illustration of a man in a hat and work clothes standing on a roof, holding a long, angled pipe that extends across the sky. The background shows a town and mountains under a blue sky with clouds.

ENERGY/FACILITIES CONNECTIONS



Energy Program
WASHINGTON STATE UNIVERSITY



12th Annual Energy/Facilities Connections Conference

Total Building Management – From Cradle to Grave

May 3-5, 2016
Enzian Inn • Leavenworth, Washington



Energy Program

WASHINGTON STATE UNIVERSITY

www.energy.wsu.edu




Welcome to the Energy/Facilities Connections 2016 Conference *Total Building Management – From Cradle to Grave*

Welcome to Leavenworth! The Washington State University Energy Program would like to welcome you to the 12th Annual Energy/Facilities Connections Conference. The theme this year – **Total Building Management – From Cradle to Grave** – speaks to the nature of the modern-day facilities professional and how their operations are about much more than just turning wrenches. In our tech-driven society, keeping up with the trends while thinking outside the box are essential best practice techniques.



I encourage you to immerse yourself in the EFC experience, to let this conference be your vessel in building those key relationships that can help you take your operations to the next level of sustainability. Be prepared to participate in discussions, and then carry the lessons you learn back to your organization. I trust that you will benefit greatly from your experience over the next few days, and hope you enjoy the 12th Annual Energy/Facilities Connections Conference.

Sincerely,


Jacob C. Fey, Director
WSU Energy Program

Conference Sponsors

Platinum Sponsors



Gold Sponsor



Silver Sponsors

- Belimo
- Bonneville Power Administration
- McKinstry
- MENG Analysis
- MI Controls
- PathoSans
- Procyon
- Siemens
- Trane

Bronze Sponsors

- Aledra Lighting
- ATS Automation
- Building Operator Certification
- Johnson Controls
- Puget Sound Energy

Partners: Northwest Energy Efficiency Council and the Wenatchee School District.

Day Zero – Monday, May 2, 2016

5:30 - 7:30 p.m.	Early registration available from 4:30 to 9:00 p.m. Network Connections (Pre-conference Social Networking) <i>Sponsored by URS Electronics</i>
-------------------------	---

Day One – Tuesday, May 3, 2016

7:00 - 9:00 a.m.	Registration – Enjoy a full breakfast in the Continental Room with your Enzian, Alpine or Linderhof hotel reservations.	
8:00 - 8:15 a.m. <i>Continental Room</i>	Welcome and Introductions <i>The EFC Experience – What to Expect</i>	
Keynote 8:00 - 9:30 a.m. <i>Continental Room</i>	Morning Keynote Presentation: Making Government Work Dennis Suarez <i>Washington State Department of Veterans Affairs, WSashington Soldiers Home</i>	
	Danube Room	Alpine Room
Session 1 9:30 - 10:25 a.m.	Energy-Smart Campus Operations – Making Informed Decisions Perry England and Jeremy Richmond, MacDonald-Miller Facility Solutions	Electric Vehicle Support, Part 1 of 2 Jay Donnaway, Sumner School District
10:25 - 10:40 a.m.	Break	
Session 2 10:40 a.m. – 11:35 a.m.	Creating a Culture of Conservation Michael Knaack, Bethel School District	Best Practice in Energy Efficient Lighting Retrofit Matthew Maa, Aledra Lighting
Lunchtime Activities 11:45 a.m. - 1:20 p.m. <i>Continental Room</i>	<ul style="list-style-type: none"> • <i>Congratulations to our EFC Innovations Award Winners: Auburn School District and Renton School District</i> • <i>Entertainment provided by Wenatchee High School Mariachi Azteca</i> 	
Session 3 1:25 - 2:20 p.m.	In an Era of Big Data, How to Take Small Steps Toward Energy Savings Hendrik Van Hemert, McKinstry	Current Elevator Safety Rules and Regulations Jack Day and Todd Baker, Washington State Department of Labor & Industries
Session 4 2:25 - 3:20 p.m.	Introduction to Basic and Enhanced Facilities Condition Assessment in Washington State Joel David and Doug Smith, MENG Analysis	Going Deep on Plug Loads: Lessons from the Bullitt Center in Seattle Chris Meek, Integrated Design Lab, University of Washington
3:20 - 3:35 p.m.	Break	
Session 5 3:35 - 4:30 p.m.	Total Comp Management – from Before Neck Injury to Back-to-Work Joyce Allen, Washington State Department of Labor & Industries	Combined Heat and Power Really is the Answer, Part 1 of 2 Marcia Karr, WSU Energy Program
5:00 - 7:00 p.m. <i>Continental Room</i>	Network Connections (After-hours Social Networking) <i>Sponsored by Belimo</i>	

<i>Keynote Speaker</i>	<i>Leadership Track</i>	<i>Technical Track</i>	<i>Custodial Connections</i>
------------------------	-------------------------	------------------------	------------------------------

Day Two – Wednesday, May 4, 2016

7:15 a.m.	Morning Announcements – Enjoy a full breakfast in the Continental Room with your Enzian, Alpine or Linderhof hotel reservations.	
Keynote Breakfast 7:30 - 8:20 a.m. <i>Continental Room</i>	<i>Morning Keynote Presentation:</i> Harnessing Your Leadership Potential Lander Medlin, APPA	
	Danube Room	Alpine Room
Session 6 8:25 - 9:20 a.m.	Combined Heat and Power Really is the Answer, Part 2 of 2 Marcia Karr, WSU Energy Program	Speaking the CFO Language to Tell Your Facilities Story Lander Medlin, APPA
Session 7 9:25 - 10:20 a.m.	Electric Vehicle Support, Part 2 of 2 Jay Donnaway, Sumner School District	Communication is the Engine That Turns the Wheels Toward Super Savings Heidi Burkart, Camas School District; David Cone, Vancouver School District
10:25 - 10:40 a.m.	Break	
Session 8 10:40 - 11:35 a.m.	Ease of Building Maintenance Rick Oman, Eaton Corporation	Custodial Roundtable Featured speakers include presenters in the upcoming Custodial sessions.
Lunch 11:45 a.m. - 1:00 p.m. <i>Continental Room</i>	<i>Announcements</i>	
Session 9 1:05 - 2:00 p.m.	Labeling in Today's Industrial Locations Bill Phelps and Alex Gallagher, Dymo	Better, Safer Cleaning and Disinfecting – Where Green Meets Cost-Effective, Hygienic and Healthy Allen Rathey, Winning Environments LLC
Session 10 2:05 - 3:00 p.m.	Asset Sustainability: Integrated Decision-Making Leading to Capital Creation Domenico Lepri, Ameresco	Indoor Air Quality & HVAC Issues Nancy Bernard, Washington State Department of Health
Session 11 3:05 - 4:00 p.m.	Intelligent Buildings – Turning BIG DATA into Actionable Intelligence Brooks Przybylek, Trane	Pathogens of Concern in Washington Nancy Bernard, Washington State Department of Health
Session 12 4:15 - 5:15 p.m. 5:15 - 7:00 p.m. <i>Continental Room</i>	Hot Shop – A hands-on training with demonstrations of useful, cutting-edge energy and facilities technologies.	
	Hot Shop Reconnections (After-hours Networking Event) <i>Sponsored by the MacDonald-Miller Facility Solutions/Honeywell Team</i>	

<i>Keynote Speaker</i>	<i>Leadership Track</i>	<i>Technical Track</i>	<i>Custodial Connections</i>
------------------------	-------------------------	------------------------	------------------------------

Day Three – Thursday, May 5, 2016

7:15 a.m.	Morning Announcements – Enjoy a full breakfast in the Continental Room with your Enzian, Alpine or Linderhof hotel reservations.	
Keynote Breakfast 7:30 - 8:25 a.m. <i>Continental Room</i>	<i>Morning Keynote Presentation:</i> Creating Healthy Facilities (and Talking about the “Why,” ala Simon Sinek) Allen Rathey , Winning Environments LLC	
	Danube Room	Alpine Room
Session 13 8:30 - 9:25 a.m.	Catch the Onsite, Organics Recycling Showdown Jim Jenson, WSU Energy Program	Emerging Trends in the Custodial Industry Bill Griffin, Cleaning Consultants
Session 14 9:30 - 10:25 a.m.	South Seattle College – Sustainable Building Science Technology Degree Victoria Hardy and Alison Pugh, South Seattle College	Integrated Pest Management Gary Spears, Kelso School District
Session 15 10:30 - 11:25 a.m.	Resource Conservation Management Pilot Program Steve Bolinger, Washington State Department of Enterprise Services	Custodial Training: Overlooked and Undervalued Bill Griffin, Cleaning Consultants, and Sue Brown, WSU Energy Program
11:25 - 11:35 a.m. <i>Alpine Room</i>	Closing Remarks and Prize Drawing	
11:35 a.m.	Adjourned – See you next year!	

Keynote Speaker	Leadership Track	Technical Track	Custodial Connections
-----------------	------------------	-----------------	-----------------------

Featured Speakers

Day One – Tuesday



Dennis Suarez

*Facilities Manager
Washington Soldiers Home – Orting
Washington State Department of
Veterans Affairs*

Dennis is a seasoned leader with 30 years of management experience within operations and manufacturing. He has successfully provided leadership at Weyerhaeuser, Standard Biodiesel, Helac Corp, United Parcel Service, the State of Washington, and the United States Navy. His expertise rests with his ability to think strategically and act tactically with regard to optimizing complicated business enterprises. His teams have shifted culture and implemented best practices models within the military, business, and public sector with significant financial and operational success. He is people, process, safety, quality, customer, and margin focused. Dennis served as a naval officer for 21 years of combined active and reserve service. He served as a surface warfare officer within the fleet and in anti-terrorism/force protection expeditionary units.

Day Two – Wednesday



Lander Medlin

*Executive Vice President
APPA*

As the Executive Vice President of APPA, Lander is the face of APPA's mission: to provide "Leadership in Educational Facilities." Prior to joining the APPA staff in 1994, Lander was the Assistant Director of Administrative and General Services for the Department of Physical Plant at the University of Maryland, College Park. She also worked for the American Physical Society in Washington, D.C., where she created the Society's Office of Public Affairs. In addition, Lander serves as the Executive Director for the Governor's Science Advisory Council for the State of Maryland. Lander earned her B.S. and M.A. from the University of Maryland, College Park, and is currently working on her Ph.D. in higher education policy, planning, and administration.

Day Three – Thursday



Allen Rathey

*Principal
Winning Environments LLC*

Allen is an educator specializing in healthy facilities. He has assembled an advisory group of dozens of scientists, PhDs, and facility and public health experts who share his passion for helping people everywhere create and maintain safe, healthy, indoor environments. He is past president of the Housekeeping Channel (HC), the Healthy House Institute (HHI), and the Healthy Facilities Institute (HFI). He is the principal of Winning Environments, LLC, promoting best practices that enhance the living environment. Allen provides advisory and consulting support in person, by phone, and via published articles, social networks, seminars, and webinars. Call him at 208-724-1508 or email arathey@outlook.com.

Session Descriptions

Session 1

Leadership Track

Energy-Smart Campus Operations – Making Informed Decisions

Speakers: Perry England and Jeremy Richmond, MacDonald-Miller Facility Solutions

Synopsis: With the myriad building automation analytics software choices, how does a Facility Manager make the best decision for their unique situation? This session will focus on the core building automation and data-comprehensive list of criteria with detailed explanation to evaluate building automation and big data analytics software decisions. Making the right choices today will lead to better results in the future.

Technical Track

Electric Vehicle Support, Part 1 of 2

Speaker: Jay Donnaway, Sumner School District

Synopsis: Electric vehicle sales have been growing rapidly since the first mass-produced models came out in 2010, with over 16,500 now registered in Washington (with 35% of those added in 2015). However, EV adoption in fleets presents unique opportunities and challenges. Hear about how current electric offerings can fit into many different missions, how your organization can fulfill the state procurement guidelines for alternative-fueled vehicles, and how public agencies can take advantage of the \$7,500 federal tax credit and other incentives. We will also discuss onsite and offsite vehicle charging options and how to handle charging of employee-owned vehicles.

Session 2

Leadership Track

Creating a Culture of Conservation

Speaker: Michael Knaack, Bethel School District

Synopsis: Learn how one school district has created a culture of conservation that has saved \$7.5 million over 10 years. This session will help you develop tools and ideas to implement and maintain a long-term change within your organization. Bring your sense of humor.

Technical Track

Best Practice in Energy Efficient Lighting Retrofit

Speaker: Matthew Maa, Aledra Lighting

Synopsis: All LED lighting products are NOT made equal. They vary in design, quality, safety, installation costs, and maintenance labor expenses down the road. Selecting the right LED lighting solution requires a good understanding of these issues. This presentation will cover these topics and allow the attendees to gain a better understanding of the principles necessary to achieve energy-efficient lighting applications, AND produce a safer environment for facilities/custodial staff, by reducing the risk of electric shock and injury.

Session 3

Leadership Track

In an Era of Big Data, How to Take Small Steps Toward Energy Savings

Speaker: Hendrik Van Hemert, McKinstry

Synopsis: Big data is the talk of the industry. An explosion of new com-

panies and technologies has created momentum and confusion in the marketplace. As a building owner, where do you start? What do you need to know to start leveraging data to improve your operations? Hendrick shares lessons learned and walks through sample cases that demystify big data in the built environment.

Technical Track

Current Elevator Safety Rules and Regulations

Speakers: Jack Day and Todd Baker, Washington State

Department of Labor & Industries
Synopsis: The management of elevators can be a complicated business for facilities professionals. Join Jack and Todd as they outline elevator safety rules and regulations, discuss inspections and maintenance, and detail records requirements along with compliance and liability issues. Bring your questions and concerns, and leave better equipped to manage elevators.

Session 4

Leadership Track

Introduction to Basic and Enhanced Facilities Condition Assessment in Washington State

Speakers: Joel David and Doug Smith, MENG Analysis

Synopsis: "A rose is a rose is a rose..." Not all Facility Condition Assessments (FCA), Property Condition Assessments (PCA), or Building Condition Assessments (BCA) are created equal. Often confusing and difficult to distinguish are the many acronyms, and having to determine which options will best fit your organization's needs. Join the MENG

Session Descriptions

Analysis team to learn best management techniques and considerations for tailoring FCAs to meet your organization's requirements with this proactive asset management strategy. Based on feedback from the 2015 EFC session, this presentation will focus on the fundamentals of FCAs, address industry trends and illuminate the best practices in facilities management.

Technical Track

Going Deep on Plug Loads: Lessons from the Bullitt Center in Seattle

Speaker: Chris Meek,
Integrated Design Lab,
University of Washington

Synopsis: The recently completed six-story, 55,000 square foot Bullitt Center in Seattle is among the world's most energy-efficient office buildings. As a result of aggressive building-level energy-efficiency strategies aimed at reducing heating, cooling, ventilation and lighting, over 50% of the end-use energy is occupant-driven plug loads. Enjoy this overview of the building, end-use energy context, and actual performance data. Chris also describes the "green lease," which sets a tenant energy budget, and demonstrates a commercially available wireless plug-load management system that provides comprehensive plug load control, management and data acquisition.

Session 5

Leadership Track

Total Comp Management – from Before Neck Injury to Back-to-Work

Speaker: Joyce Allen,
Washington State Department of
Labor & Industries

Synopsis: Nationally, comp insurance covers less than 25% of the claim. Who picks up the rest? Just like

in managing your operations, there are best-practice approaches in managing your worker's comp that can help you save money. Do you have a program that gets your workers back to work without breaking the bank? If it isn't in writing, it doesn't exist. Accidents happen – make sure you're prepared.

Technical Track

Combined Heat and Power Really is the Answer, Part 1 of 2

Speaker: Marcia Karr,
WSU Energy Program

Synopsis: Combined Heat and Power (CHP) located at or near the point of consumption is defined as the concurrent production of electricity and useful thermal energy (heating and/or cooling) from a single source of energy. Instead of purchasing electricity from a local utility and then burning fuel in a boiler to produce thermal energy, consumers use CHP to provide these energy services in one energy-efficient step. As a result, CHP improves efficiency and reduces greenhouse gas emissions. The Northwest CHP Technical Assistance Partnership is one of seven partnerships established by the Department of Energy to promote and assist in transforming the market for CHP, waste heat to power, and district energy systems with CHP throughout the United States.

Session 6

Leadership Track

Speaking the CFO Language to Tell Your Facilities Story

Speaker: Lander Medlin, APPA
Synopsis: Getting budget approval for energy and facility projects can be among the greatest challenges of facilities leaders, especially when the

advantages of the project are not clearly explainable. This session will focus not only on how to present your proposal, but what language to consider, what aspects of the project to focus on and what components may be less important. Join Lander as she shares the "water cooler" talk of CFOs and provides attendees with a peek into the world of non-facilities members of the management team in order to optimize communications.

Technical Track

Combined Heat and Power Really is the Answer, Part 2 of 2

Speaker: Marcia Karr,
WSU Energy Program

Synopsis: See description provided for Part 1.

Session 7

Leadership Track

Communication is the Engine That Turns the Wheels Toward Super Savings

Speakers: Heidi Burkart, Camas
School District; David Cone,
Vancouver School District

Synopsis: Without strong communication, strategic reporting, tenant participation and effective dialogue, a facilities program will not be as effective. Join Heidi and David to learn how their respective school districts have facilitated optimal communication through the different levels of the organization.

Technical Track

Electric Vehicle Support, Part 2 of 2

Speaker: Jay Donnaway,
Sumner School District

Synopsis: See description provided for Part 1.

Session Descriptions

Session 8

Technical Track

Ease of Building Maintenance

Speaker: Rick Orman,
Eaton Corporation

Synopsis: *If you can't measure it, you can't monitor or fix it! Eaton recently launched its **PredictPulse** monitoring service that manages critical alarms on equipment downtime. This program also allows access to real-time status information on equipment via a mobile app or a dashboard portal. In addition to this new monitoring service, advances in high-efficiency uninterruptible power supply (UPS) systems with advanced monitoring capabilities are also becoming a requirement. This UPS allows for lowest total cost of ownership, easy development, and easier access to detailed status information through its large LCD touchscreen interface.*

Custodial Connections

Custodial Roundtable

Session speakers and the audience kickoff the custodial track with open discussions.

Session 9

Technical Track

Labeling in Today's Industrial Locations

Speaker: Bill Phelps and
Alex Gallagher, Dymo

Synopsis: *Industrial labeling helps keep workers and visitors safe while ensuring that operations run efficiently throughout the facility or campus. There are many different codes and standards for labeling, and Dymo will explain the difference between an OSHA guideline, an ANSI Safety or*

ASME Pipe Marking and why the correct label is needed for the application.

Custodial Connections

Better, Safer Cleaning and Disinfecting – Where Green Meets Cost-Effective, Hygienic and Healthy

Speaker: Allen Rathey,
Winning Environments LLC
Synopsis: *This presentation will share the benefits of the key principles of cleaning and disinfecting: clean first (remove soil) and disinfect second (you can't disinfect a dirty surface). It's as simple as "readin', writin' and 'rithmetic" – cleaning is subtracting soils or pollutants. Once clean, facility disinfecting is easy using better, safer alternatives to help ensure areas are cleaned and disinfected using less-toxic, proven, hygienic methods that do not contaminate the space or spread germs.*

Session 10

Leadership Track

Asset Sustainability: Integrated Decision-making Leading to Capital Creation

Speaker: Domenico Lepri,
Ameresco

Synopsis: *Incentives to reduce energy use and carbon footprint have moved beyond simply a moral obligation to good business sense. Ameresco Asset Sustainability has an Integrated Decision Development framework that allows capital renewal and maintenance needs to be coupled with energy use reduction strategies. Driven by AssetPlanner™ Infrastructure Management software, this approach optimizes investments and reduces energy use and greenhouse gas emissions thereby creating capital.*

Custodial Connections

Indoor Air Quality & HVAC Issues

Speaker: Nancy Bernard,
Washington State
Department of Health

Synopsis: *Come discuss best practices for achieving and maintaining good indoor air quality in schools and other buildings. What is current research telling us about ventilation, health and performance? What is the latest research on ventilation filtration? What can we do to reduce asthma triggers? What custodial practices will improve IAQ for building occupants and protect the health of custodians? Learn more about the health effects of air "fresheners," essential oils, etc. Please bring your questions and concerns.*

Session 11

Leadership Track

Intelligent Buildings – Turning BIG DATA into Actionable Intelligence

Speakers: Brooks Przybylek, Trane
Synopsis: *With the vast amount of data available in buildings today, it is often difficult to determine priority actions that will best contribute to improved building performance and ease of operation and maintenance. Through the use of advanced analytics, actionable insight can be drawn from this data, monetized into energy-efficiency measures, and benchmarked against previous performance to determine how successful these action items are. This allows building operators to push the boundaries of building performance and generate easy metrics to track the progress of their organization's energy and sustainability goals.*

Session Descriptions

Custodial Connections

Pathogens of Concern in Washington

Speaker: Nancy Bernard,
Washington State
Department of Health

Synopsis: We clean, sanitize and disinfect for health. What pathogens should we be concerned about in public buildings and what chemicals are recommended for health and safety? What do we know about the types of disinfectants available, their efficacy, and their impact on human health? When should we sanitize, or when is simply cleaning sufficient? How do you choose safer, "greener" products? Learn more about controlling MRSA, C-diff, influenza, measles, pertussis, ringworm, athlete's foot and various zoonotic diseases. How long do they live on surfaces? What classes of disinfectants control them? What are the best ways to deal with mosquito-borne diseases? Please bring your questions or concerns.

Session 12

Hot Shop

A hands-on training with demonstrations of cutting-edge and useful energy and facilities technologies.

Session 13

Technical Track

Catch the Onsite, Organics Recycling Showdown

Speaker: Jim Jenson,
WSU Energy Program

Synopsis: From waste prevention to recycling organic residuals (such as yard and garden debris, leaves,

wood chips, food scraps, manures and more), watch the contest of aerobic digestion systems. Find out which is better for onsite treatment. Discover what it takes to have a successful project from actual case studies of facilities like yours.

Custodial Track

Emerging Trends in the Custodial Industry

Speaker: Bill Griffin,
Cleaning Consultants

Synopsis: Join Bill in this discussion about changes in the custodial industry, including energy use and environmental concerns, as well as areas of the cleaning industry that are changing the most.

Session 14

Leadership Track

South Seattle College – Sustainable Building Science Technology Degree

Speakers: Victoria Hardy
and Alison Pugh,
South Seattle College

Synopsis: Learn more about this unique and innovative bachelor's degree, which focuses on sustainable business operations and building science that builds on an associate's degree/the trades and relevant work experience. This hybrid degree is designed for working adults to complete in two years.

Be sure to take the
Conference Survey
online:
[www.energy.wsu.edu/
efcsurvey2016](http://www.energy.wsu.edu/efcsurvey2016)

Custodial Connections

Integrated Pest Management

Speaker: Gary Spears,
Kelso School District

Synopsis: Structural and landscape pests can pose a significant problem to people, property and environment. Integrated Pest Management (IPM) is a smart, safe and sustainable approach to reducing and/or eliminating harmful pesticides and herbicides, and the liability risks involved in their use. This program explores Kelso School District's journey to establishing an IPM program and attaining IPM STAR Certification status.

Session 15

Leadership Track

Resource Conservation Management Pilot Program

Speaker: Steve Bolinger,
Washington State Department
of Enterprise Services

Synopsis: Steve provides an update on the RCM Pilot Program, as well as plans for expanding the program next biennium. Join the discussion and bring your questions.

Custodial Track

Custodial Training: Overlooked and Undervalued

Speakers: Bill Griffin, Cleaning
Consultants, and Sue Brown,
WSU Energy Program

Synopsis: Join Bill and Sue as they share what makes training effective with custodial and maintenance professionals. You can expect to leave the presentation with a better understanding of the what, when, why and how of technical training.

EFC Innovations Award

The **EFC Innovations Award**, presented at the annual Energy/Facilities Connections Conference, recognizes the innovative solutions you have implemented, provides an opportunity for others to learn



from your success, and encourages the cross-pollination of ideas.

The 2016 winners are Auburn School District and Renton School District.

Eligibility

- Public, nonprofit and tribal organizations are eligible.
- Attendance at an EFC event is not required.
- Innovations must be facilities-related, such as fresh ideas about maintenance, custodial services, new construction and renovation, security, grounds maintenance, and emergency preparedness.

If you are not sure if your innovation applies, please contact the EFC Planning team: 360-956-2057 or plantops@energy.wsu.edu (add "EFC Innovations Award" in the subject line).

Submission Details

- Submission forms are available at the EFC registration table or online: www.energy.wsu.edu/PublicFacilitiesSupport/PlantOperations/EFCInnovationsAward.aspx
- There is no limit on the number of case studies an organization can submit.
- Submissions are accepted all year, but to be eligible for the 2017 EFC conference, submit your form by Friday, March 3, 2017.

Award Details

Winners of the EFC Innovations Award will receive:

- A nice trophy,
- One free registration for the 2017 EFC Conference, and
- An article that highlights your organization and innovation in the Plant Operations Support Consortium's newsletter *Shop Talk*.

Meet Your Hosts

The **Plant Operations Support Consortium** is a self-sustaining, membership-based organization within the **WSU Energy Program**. Our mission is to connect facilities professionals – from state agencies, schools, higher education, ports, tribes, nonprofits, utilities and municipalities – with a wealth of technical information and expertise.

We are your on-call team of experts, ready to offer solutions and suggestions on subjects including:

- Energy efficiency
- Facility management assistance
- Custodial operations support
- Technical assistance and consultation
- No-fault effectiveness assessments
- Equipment brokering

Talk to us about becoming a member!

WSU Energy Program
Plant Operations Support Consortium
360-956-2230 • plantops@energy.wsu.edu
www.energy.wsu.edu/plantoperations

Edwin Valbert
360-956-2055
valberte@energy.wsu.edu

Larry Covey
360-956-2056
coveyl@energy.wsu.edu

Phil Partington
360-956-2057
partingtonp@energy.wsu.edu

Sue Brown
360-956-2058
browns@energy.wsu.edu

Who We Are



Energy Program

WASHINGTON STATE UNIVERSITY

The **Washington State University (WSU) Energy Program** is a self-supported department within the University. Partnering with a wide range of agencies, organizations, institutions and businesses, our energy experts identify energy challenges and develop solutions based on world-class research. Operating much like a consulting firm, we provide training and technical assistance to help our customers meet evolving energy challenges in the Pacific Northwest, across the U.S. and around the world.

The **Plant Operations Support Consortium** includes members from throughout the region:

K-12 Schools

- Bridgeport
 - Camas
- Central Kitsap
 - Centralia
- Chilliwack, BC
 - ESD 101
 - ESD 121
- Eton School
- Federal Way
- Forest Ridge School of the Sacred Heart
 - Highline
 - Inchelium
- Mount Vernon
- North Thurston
 - Olympia
 - Orcas Island
 - Orondo
- Portland Public Schools, OR
 - Rearan-Edwall
 - Selkirk
 - Shoreline
 - South Kitsap
 - Wenatchee
- Wishkah Valley

Universities/Colleges

- Bates Technical College
- Big Bend Community College
 - Clark College
- Clover Park Technical College
 - Columbia Basin College
 - Community College of Spokane
- Everett Community College
 - Highline College
- Lake Washington Institute of Technology
 - Olympic College
 - Peninsula College
 - Pierce College
- Seattle Central College
- South Puget Sound Community College
- Tacoma Community College
- The Evergreen State College
- Washington State University Energy Program
- Wenatchee Valley College

Municipalities

- City of Longview
- City of Tumwater
- City of Walla Walla
 - Clark County
 - Cowlitz County

- Jefferson County
- Lakehaven Utility District
- Pierce County Library System
 - Sound Transit
 - Thurston County
- Whatcom County

Miscellaneous

- Hopelink
- Meydenbauer Center
 - Multicare System
- YMCA of Snohomish County

Washington State Agencies

- Corrections
- Criminal Justice Training Commission
 - Early Learning
 - Ecology
- Employment Security
 - Fish & Wildlife
 - Health
 - Licensing
- Natural Resources
- Parks & Recreation
- School for the Blind
- Social & Health Services
 - State Patrol
 - Transportation
 - Veterans Affairs