

A background illustration of a man in a hat and work clothes standing on a roof, holding a long, angled pipe that extends across the scene. The setting includes a small town with houses and a large mountain in the background under a blue sky with clouds.

ENERGY/FACILITIES CONNECTIONS



Energy Program
WASHINGTON STATE UNIVERSITY



13th Annual Energy/Facilities Connections Conference

Success Through Synergy

May 2-4, 2017
Enzian Inn • Leavenworth, Washington



Welcome to the Energy/Facilities Connections 2017 Conference *Success Through Synergy*

The Washington State University Energy Program welcomes you to the 13th Annual Energy/Facilities Connections Conference.



The theme this year – **Success Through Synergy** – is a reminder to identify available resources with a creative eye. Linking different types of professionals and processes can support multiple goals. Your presence here speaks of your drive toward synergistic learning.

I encourage you to seize this opportunity to make connections, and to immerse yourself in

the experience by sharing your stories with other attendees. Be prepared to participate in discussions and to carry the lessons you learn back to your organization.

I trust that you will benefit from your experience over the next few days, and I hope you enjoy Leavenworth and the 13th 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
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- McKinstry
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- ATS Automation
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- Puget Sound Energy

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

Day Zero – Monday, May 1, 2017

5:30 - 7:30 p.m.

Early registration available from 4:30 to 9:00 p.m.

Network Connections (Pre-conference Social Networking)

Sponsored by URS Electronics

Day One – Tuesday, May 2, 2017

7:00 - 9:00 a.m.

Registration – Enjoy a full breakfast in the Continental Room with your Enzian, Alpine or Linderhof hotel reservations.

Keynote

8:00 - 9:30 a.m.

Continental Room

Welcome and Morning Announcements; The EFC Experience – What to Expect
Keynote Presentation:

Emergency Preparedness: Not just for Major Disasters

Frank Sebastian, Chief, Seafair Emergency Management Group

Danube Room

Alpine Room

Session 1

9:30 - 10:25 a.m.

Interpreting and Tracking Your Energy Bills – Pay Less and Save More
Greg Jourdan, Wenatchee Valley College

Mobilizing Your Building's Operations

Jeremy Richmond,
MacDonald-Miller Facilities Solutions

10:25 - 10:40 a.m.

Break

Session 2

10:40 a.m. – 11:35 a.m.

Predictable Outcomes in Transitioning Facilities from Construction to Operations
Moe Salem & Jeremy Wolff, McKinstry

Lighting Maintenance Best Practices

Jeff Anderson,
Evergreen Consulting Group

Lunchtime Activities

11:45 a.m. - 1:20 p.m.

Continental Room

Announcement of McKinstry's Champions of Sustainability Award Winners

• *Entertainment provided by Wenatchee High School Mariachi Azteca*

Session 3

1:25 - 2:20 p.m.

Seattle School Facilities Operate to Save Resources – The Low-Down on its Low EUIs
Bonnie Meyer, Rina Fa'amoe-Cross, & Nicole Laky with Seattle Public Schools

Green Cleaning: Synergies and Opportunities

Steve Ashkin.
The Ashkin Group – The Green Cleaning Experts

Session 4

2:25 - 3:20 p.m.

Synergistic Asset Management
Doug Smith,
MENG Analysis

Emerging Trends Impacting Cleaning Professionals in 2017 and Beyond

William "Bill" Griffin, Cleaning Consultants

3:20 - 3:35 p.m.

Break

Session 5

3:35 - 4:30 p.m.

The Future of Refrigerants: Separating Fact from Fiction
Tom Gorman,
CenTraVac Chillers

Integrated Pest Management for School Custodians

Carrie Foss,
Washington State University Urban IPM & Pesticide Safety Education

5:00 - 7:00 p.m.

Continental Room

Network Connections (After-hours Social Networking)

Sponsored by Honeywell

Keynote Speaker

Leadership Track

Technical Track

Custodial Connections

Day Two – Wednesday, May 3, 2017

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| 7:30 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> | Keynote Presentation: Success Through Synergy Using the Language of Sports – Are You Ready to Win? Stephen Ashkin, The Ashkin Group – The Green Cleaning Experts | |
| | <i>Alpine Room</i> | <i>Danube Room</i> |
| Session 6 8:25 - 9:20 a.m. | Pathways to Low-Carbon Space Heating: Exploring Our Options Scott Morgan, The Evergreen State College | Combined Heat & Power David Van Holde, Washington State University Energy Program |
| Session 7 9:25 - 10:20 a.m. | Luminaire Level Lighting Controls (LLLC) – Energy Savings Now and in the Future Eric Strandberg, Lighting Design Lab | Problem #1: Finding and Keeping the Best Cleaning and Maintenance Employees Bill Griffin, Cleaning Consultants |
| 10:25 - 10:40 a.m. | Break | |
| Session 8 10:40 - 11:35 a.m. | Labeling in Today's Industrial Locations Alex Gallagher, DYMO | Radon Testing: Why it's a Good Idea Tom Rogers, Washington State Department of Health |
| Lunch 11:45 a.m. - 1:00 p.m. <i>Continental Room</i> | Announcement of the EFC Innovation Award Winners | |
| Session 9 1:05 - 2:00 p.m. | Public/Private Partnerships – Using Private Resources to Enable Public Projects Murray Greenwood, Ameresco | Indoor Air Quality: It's Not Rocket Science Eric Dickson, Educational Service District 101 |
| Session 10 2:05 - 3:00 p.m. | Emergency and Mass Notification Systems Diana Rosenblatt and Charlie Kowalczyk, AtlasIED | Let's Clean and Disinfect for Health! Nancy Bernard, Washington State Department of Health |
| Session 11 3:05 - 4:00 p.m. | Interior LED Lighting: It's Only Getting Better! Ron Major, Washington State Department of Enterprise Services | CO₂ Refrigerant Heat Pumps: Update on Applications for Various Facilities Types Ken Eklund, Washington State University Energy Program |
| 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</i> | |

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|------------------------|-------------------------|------------------------|------------------------------|
| <i>Keynote Speaker</i> | <i>Leadership Track</i> | <i>Technical Track</i> | <i>Custodial Connections</i> |
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Day Three – Thursday, May 4, 2017

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| 7:30 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>Keynote Presentation:</i> Facility Leadership Roundtable: Building Your Facility Operations Dream Team, featuring Andy Blomberg , Washington State Department of Transportation; Chris Idso , Washington State Department of Corrections. | |
| | Danube Room | Alpine Room |
| Session 13 8:30 - 9:25 a.m. | Bachelor of Applied Science in Sustainable Building Science Technology – An Industry-Driven Degree! Victoria Hardy, South Seattle College | Hands-On Learning: Tools for Occupant Complaints Duane Luellen, Smart Buildings Center |
| Session 14 9:30 - 10:25 a.m. | Evolution of Collaboration: Finding Organic and Forgotten Opportunities to Save Energy David Shepherd-Gaw, Energy Specialist | Roundtable Tips for Working with Contractors Kim Cordova, Tacoma Community College; John Gillette, Community Colleges of Spokane; Russ Humphreys, Washington State Department of Transportation |
| Session 15 10:30 - 11:25 a.m. | | Hands-on Learning: Data Logger Training Duane Luellen, Smart Buildings Center |
| 11:25-11:35 a.m. <i>Alpine Room</i> | Closing Remarks and Prize Drawing | |
| 11:35 a.m. | Adjourned – See you next year! | |

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

Day One – Tuesday



Frank Sebastian

Chief,
Seafair Emergency
Management Group

Frank Sebastian is the Emergency Manager for Seafair in Seattle, Washington. Seafair produces many annual special events in Seattle, including Summer 4th, Torchlight Parade, Seafair Airshow, and the Hydroplane Boat Races. Frank has been the Emergency Manager and Incident Commander for many Seafair events, with attendance ranging from 5,000 to over 100,000 spectators and participants. Frank was the Emergency Manager for Seafair, for the Seahawks Super Bowl Victory Parade, which attracted 750,000 participants in downtown Seattle, and the Seattle Sounders MLS Cup Championship parade in Seattle. As Emergency Manager, he is responsible for pre-event public safety and emergency response planning, as well as inter-agency interoperability.

Recently, Frank accepted the additional role of Emergency Manager for the 2018 Special Olympics USA Games in Seattle during July 2018. Competition and events at the 2018 USA Games will take place all over the greater Seattle region, from Tukwila to the University of Washington, Kenmore to Redmond, and more.

Frank previously served many years with the federal government, both at FEMA and HHS Office of Emergency Management. He was deployed to many disasters and fatality incidents, including Hurricanes Katrina and Rita, the Haiti earthquake, and the SR 530 (Oso) slide.

Frank is a frequent lecturer and trainer on emergency management and fatality management subjects. He serves as an adjunct instructor at Green River College in Auburn.

Day Two – Wednesday



Steve Ashkin

The Ashkin Group

Steve Ashkin is an entrepreneur, author, speaker, and leader of the Green Cleaning Movement, where he is often referred to as the “father of Green Cleaning.” Steve has been a true leader in our industry, where his accomplishments include being a founding member of the U.S. Green Building Council and being responsible for writing the cleaning credits in LEED for existing buildings.

He also serves as the technical adviser to the Healthy Schools Campaign, where he authored their *Quick & Easy Guide to Green Cleaning in Schools*. And he is on the Board of Directors of the Green Sports Alliance, where he wrote their *Playbook on Greener Cleaning in Sports Facilities*.

Steve is now working on how to move the professional cleaning industry beyond the manufacture and use of green products to becoming more sustainable organizations, where he hopes that schools in Washington state will help lead the way.

Day Three – Thursday

Dream Team, featuring **Andy Blomberg**, Washington State Department of Transportation; **Chris Idso**, Washington State Department of Corrections

Two panelists share their approaches to building a skilled and motivated workforce in a facilitated roundtable discussion. What are the essential skills for today’s building operations workforce? How are facility leaders developing their personnel to meet these needs? Join this session to learn about innovations in recruiting and hiring, approaches to succession planning, and the value you can expect from developing your employees’ talent.

Session Descriptions

Session 1

Leadership Track

Interpreting and Tracking Your Energy Bills – Pay Less and Save More

Greg Jourdan,
Wenatchee Valley College

Join Greg as he discusses everything from kW, kWh, PF/Var, therms, power and water metering, flow measuring, data logging, utility rate plans, and ENERGY STAR® Portfolio Manager accuracy. This is an interactive session with a hands-on exercise to help attendees read their energy bills and verify accuracy.

Technical Track

Mobilizing Your Building's Operations

Jeremy Richmond,
MacDonald-Miller
Facilities Solutions

Synergy is defined as the increased effectiveness that results when two or more people or businesses work together. Accessing the critical performance data of your building systems – anytime and anywhere – is vital to creating "Success Through Synergy." This workshop will cover the details you should understand about making critical system performance information relevant and accessible wherever you have mobility. Your major learning take-away from this workshop will be the how-to and rationale for creating an Internet of Things (IoT) infrastructure for facility operations to engage the right people at the right time with the right information.

Note: All sessions subject to last-minute changes.

Session 2

Leadership Track

Predictable Outcomes in Transitioning Facilities from Construction to Operations

Moe Salem and Jeremy Wolff,
McKinstry

Facility new construction and renovation projects are becoming more complex, leading to operational challenges for facilities teams. Learn how public institutions are equipping their facilities operational teams with the knowledge and tools to ensure proper operation of complex new and renovated facilities.

Technical Track

Lighting Maintenance Best Practices

Jeff Anderson,
Evergreen Consulting Group

Get the right kind and right amount of light just where and when you need it, and at the lowest life-cycle cost. In this session, we will review best practices for facilities managers in lighting their buildings using an interactive discussion format. Topics include reduced wattage lamp replacement, group re-lamping, schedules, recommended light levels, fixture cleaning, and free lighting resources. Come with your questions and suggestions.

Session 3

Leadership Track

Seattle School Facilities Operate to Save Resources – The Low-Down on its Low EUIs

Bonnie Meyer,
Rina Fa'amoe-Cross, and
Nicole Laky with
Seattle Public Schools

Learn how this team of resource conservation specialists saved

Seattle Public Schools \$1.8 million annually in avoided utility costs, and reduced energy use by 15 percent, water use by 8 percent, and solid waste by 20 percent.

Custodial Connections

Green Cleaning: Synergies and Opportunities

Steve Ashkin, The Ashkin Group –
The Green Cleaning Experts

Schools in Washington have been true leaders on the issue of green cleaning. This session will discuss some of the opportunities to expand a program; new green cleaning technologies and innovations; synergies with staff, teachers, students and other users of the facilities; the role of sustainability; and more. You won't want to miss it!

Session 4

Leadership Track

Synergistic Asset Management

Doug Smith,
MENG Analysis

Over time, public agencies have developed a broad range of asset management compliance strategies with varying success. Learn how Synergistic Asset Management can deliver higher performance at lower cost through whole-systems thinking.

Custodial Connections

Emerging Trends Impacting Cleaning Professionals in 2017 and Beyond

Bill Griffin,
Cleaning Consultants

Floor care, carpet cleaning, energized water, robotics, and staffing shortages are some of the challenges cleaning supervisors and managers will face in 2017. Find out what others are doing

Session Descriptions

to deal with these and other issues in a positive manner.

Session 5

Technical Track

The Future of Refrigerants: Separating Fact from Fiction

Tom Gorman,
CenTraVac Chillers

Ever since we began regulating ozone-depleting substances such as chlorofluorocarbons in the 1980s, rules about refrigerants continue to evolve. There has been increased focus and accelerated implementation of regulations for all fluids used today in the HVAC industry. This persistent churn creates confusion. At the same time, the market demands equipment, design strategies, and control methods that result in the highest levels of efficiency. The next generation of refrigerants presents new challenges for the highest-performing HVAC equipment and may also challenge the industry's expectations for safety and flammability. This presentation separates fact from fiction, and discusses why, when, and how the industry will face the coming refrigerant transitions.

Custodial Connections

Integrated Pest Management for School Custodians

Carrie Foss,
Washington State University
Urban IPM & Pesticide Safety
Education

School custodians are among the most important people for eliminating pests through integrated pest management. Learn how custodians can directly affect the quality of the learning environment and play a key role in educating other school staff on how to avoid pest-conducive conditions.

Session 6

Leadership Track

Pathways to Low-Carbon Space Heating: Exploring our Options

Scott Morgan,
The Evergreen State College

Sure, natural gas burns clean, but it's still a fossil fuel. What's next for space heating in the transition to a low-carbon future? Join Scott in exploring some of the options, challenges, and opportunities for collaborative success in our efforts to take a significant bite out of greenhouse gas emissions.

Technical Track

Combined Heat & Power

David Van Holde,
Washington State University
Energy Program

Clean, baseline renewable power can be produced through combined heat and power (CHP) using biogas or biomass as feedstock. Electricity produced by CHP using biomass as feedstock could potentially replace other fuels that have traditionally provided baseline electricity, such as coal and natural gas. Join David to learn more.

Session 7

Technical Track

Luminaire Level Lighting Controls (LLLC) – Energy Savings Now and in the Future

Eric Strandberg,
Lighting Design Lab

Lighting controls can range from simple to "rocket science." Let Eric remove some of the complexity of luminaire LED lighting to help you glean even greater savings. In many cases, these controls can even be

easier to install and commission than conventional lighting control methods.

Custodial Connections

Problem #1: Finding and Keeping the Best Cleaning and Maintenance Employees

Bill Griffin,
Cleaning Consultants

Motivation, training, and opportunity all play a role in creating an environment where employees want to come to work. Find out what you can do to improve attitudes, performance, and attendance in the workplace.

Session 8

Technical Track

Labeling in Today's Industrial Locations

Alex Gallagher,
DYMO

Proper labeling in a facility can provide information that enhances efficiency and safety for anyone installing equipment such as data systems, plumbing structures, or electrical panels. Providing users with necessary safety information can reduce injuries, increase productivity, and create a professional work environment. In this session, you will learn how to use labeling to communicate hazard and safety information in different applications and scenarios to help you maintain a safe and efficient workplace.

Custodial Connections

Radon Testing: Why it's a Good Idea

Tom Rogers,
Washington State
Department of Health

Radon is everywhere. It is also the second leading cause of lung disease in the United States.

Session Descriptions

Testing for radon is fairly easy and inexpensive, and helps us protect ourselves and those we care about. This presentation provides a starting point for identifying the who, what, where, when, and how to conduct radon testing.

Session 9

Leadership Track

Public/Private Partnerships – Using Private Resources to Enable Public Projects

Murray Greenwood,
Ameresco

With so many projects to complete and no bandwidth or budget to build them, what is a Facilities Director to do? This session will explore P3s and explain how public facilities can leverage the financial and operational capabilities of private partners to bring valuable energy infrastructure projects to life when traditional development might never happen.

Custodial Connections

Indoor Air Quality: It's Not Rocket Science

Eric Dickson,
Educational Service District 101

With most IAQ problems, it is relatively easy to determine – and remediate – the source if you know how and where to look, and have a few basic tools. This workshop is a “whistle-stop” tour through various sources and causes of common IAQ issues, and includes lots of photos that you have to see to believe. Topics covered include HVAC issues, water damage/mold, odors, animals, airborne particulates, and some self-inflicted issues.

Session 10

Technical Track

Emergency and Mass Notification Systems

Diana Rosenblatt and
Charlie Kowalczyk,
AtlasIED

Within the National Fire Protection Association (NFPA), specific requirements for communication must be met. Specifically, a Mass Notification and EVAC system must provide for Acoustically Distinguishable Spaces (ADS) and meet the Sound Transmission Index for Public Address (STI-PA). Together, these performance standards help to achieve “intelligibility” and other requirements within NFPA 72. Come and learn what this all means for facilities managers!

Custodial Connections

Let's Clean and Disinfect for Health!

Nancy Bernard,
Washington State
Department of Health

When you clean, sanitize, and disinfect for health, you may have lots of questions. How do you choose safer, “greener” products? What about some of the new non-chemical products? What infectious diseases are you concerned about in public buildings? What do you know about the types of disinfectants available, their efficacy, and their impact on human health? When is sanitizing or cleaning sufficient? Learn more about controlling MRSA, C-diff, influenza, measles, pertussis, ringworm, athlete's foot, and various zoonotic diseases (Salmonella, Hanta, West Nile, Zika, etc.). How long do they live on surfaces? What classes of disinfectants control them? What are the best ways to

deal with mosquito-borne diseases?

Session 11

Leadership Track

Interior LED Lighting: It's Only Getting Better!

Ron Major,
Washington State Department of
Enterprise Services

Learn how to take advantage of current LED technology, and explore practical ideas that save more than 50 percent on interior lighting loads.

Technical Track

CO₂ Refrigerant Heat Pumps: Update on Applications for Various Facilities Types

Ken Eklund,
Washington State University
Energy Program

Join Ken for a closer look at the application of high-efficiency heat pumps that use CO₂ as the refrigerant to heat water for apartments, dormitories, commercial kitchens, laundries, and swimming pools.

Session 12

Hot Shop

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

Session 13

Leadership Track

Bachelor of Applied Science in Sustainable Building Science Technology – An Industry-Driven Degree!

Victoria Hardy,
South Seattle College

Learn more about this unique and innovative bachelor's degree, which focuses on sustainable business

Session Descriptions

operations and building science, and 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.

Technical Track

Hands-On Learning: Tools for Occupant Complaints

Duane Luellen,
Smart Buildings Center

Lack of thermal comfort is one of the biggest complaints of building occupants. In this session, we will discuss standards for thermal comfort and procedures for verifying room temperature, air flow, and CO₂ levels using measurement devices and data loggers. These tools are instrumental in helping building operators identify room conditions and solve problems. Come share your own experiences with comfort complaints and learn how to most effectively address such issues.

Session 14

Leadership Track

Evolution of Collaboration: Finding Organic and Forgotten Opportunities to Save Energy

David Shepherd-Gaw,
Energy Specialist

Saving energy is a non-stop endeavor. Hear about strategic, out-of-the-box methods to reduce energy consumption that you might not have thought about.

Leadership Track

Roundtable Tips for Working with Contractors

Kim Cordova,
Tacoma Community College;
John Gillette,
Community Colleges of Spokane;
Russ Humphreys,
Washington State Department
of Transportation

In this roundtable discussion, participants will hear from three BOC graduates and supervisors about their experiences and tips for working with contractors, including

documenting outcomes, “never do” advice, and how to save money and improve operations through contractors.

Session 15

Technical Track

Hands-on Learning: Data Logger Training

Duane Luellen,
Smart Buildings Center

This session is a hands-on demonstration of using portable data loggers to improve building energy performance. Participants will learn to program and deploy data loggers to capture building environmental conditions, including temperature, humidity, lighting levels, lighting occupancy, and electric motor operations.

Be sure to take the
Conference Survey
online:

[www.energy.wsu.edu/
efcsurvey2017](http://www.energy.wsu.edu/efcsurvey2017)

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

EFC Innovations Award



Congratulations to Our 2017 Winners!

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 2017 winners are:

- South Seattle College
- University of Washington – Bothell

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 2018 EFC conference, submit your form by Friday, March 9, 2018.

Award Details

Winners of the EFC Innovations Award will receive:

- A trophy (just like the one above),
- One free registration for the 2018 Energy/Facilities Connections Conference,
- An article in *Shop Talk*, the Plant Operations Support Consortium annual magazine,
- One free full-course registration in the Building Operator Certification course,
- Free webinar registration to a six-part year-round series offering CEUs, and
- A data logger and logger software courtesy of the Building Operator Certification.

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 (Silverdale)
Centralia
Chilliwack (British Columbia)
Educational Service District 101 (Spokane)
Educational Service District 121 (Renton)
Eton School (Bellevue)
Federal Way
Forest Ridge School of the Sacred Heart (Bellevue)
Highline (Burien)
Inchelium
Mount Vernon
North Thurston (Lacey)
Orondo
Portland Public Schools (Oregon)
Quillayute Valley (Forks)
Reardan-Edwall
Selkirk (Metaline Falls)
Shoreline
South Kitsap (Port Orchard)
Wenatchee

Universities/Colleges

Bates Technical College
Bellevue College
Big Bend Community College
Clark College
Columbia Basin College
Community College of Spokane
Everett Community College
Highline College
Lake Washington Institute of Technology
Olympic College
Peninsula 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 (Federal Way)
Lewis County
Pierce County Library System
Sound Transit
Thurston County
Whatcom County

Miscellaneous

Hopelink
Meydenbauer Center
YMCA of Snohomish County

Washington State Agencies

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