

# ACEC Oregon

AMERICAN COUNCIL OF ENGINEERING COMPANIES  
OF OREGON

Representing engineering and land surveying  
companies in Oregon and southwest Washington  
since 1956.

## MARCH 2014

# UPDATE

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### Links to more Engineering Excellence Awards (EEA) Info

- **Slideshow of all the 2014 entries**  
(featuring each project's photographic  
display panel)
- **Past EEA winners**

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American Council of Engineering Companies  
Washington, D.C.



# Engineering Excellence Awards 2014

## PAE wins "Project of the Year" for The Bullitt Center

Buildings in the U.S. consume more than 45 percent of all energy produced in the country.

On track to become the world's largest commercial Living Building, The Bullitt Center is much like a Douglas fir forest—utilizing only nature's abundance to provide fresh air, light, energy, and heating and cooling for its occupants. Located in Seattle's Capitol Hill neighborhood, The Bullitt Center is a six-story, leasable commercial office building. Set to achieve Net Zero Energy and Water certifications, the project is 83 percent more energy-efficient and saves 80 percent more water than a typical Seattle office building.

Seeking to change perceptions of sustainable design in the built environment, The Bullitt Center is living proof that a six-story, commercial office building in cloudy Seattle can achieve net zero energy and water. Not only one of the most sustainable commercial office buildings in the world, The Bullitt Center is comfortable, affordable for owners, tenants and developers, and a valuable addition to its community and the AEC industry.

The building's mechanical requirements led to the design of a highly-efficient heating and cooling system that includes a closed-loop, vertical geothermal heating and cooling system; radiant floors; sophisticated shading to minimize solar gain; and natural ventilation. Capturing enough net solar energy to power the entire building, the 242 kw PV system covers the entire roof which is artfully cantilevered beyond the building footprint.

The building will achieve Net Zero Water through a cistern which captures rainwater that will be filtered for potable uses; greywater reclamation and constructed wetlands; and composting foam flush toilets that reduce water use by 96 percent, when compared to a typical toilet.

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**In every category,  
this project stuns.  
Not only "proving"  
it can be done, but  
doing it competitively  
and still beautifully.**  
--Judge's comment

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**UPDATE:**  
This project is also one of 16 ACEC National Honor Awards — one of the top 24 EEA winners for 2014, out of 143 entries. **Congratulations, PAE!**

**PROJECT OF THE YEAR** PAE, The Bullitt Center for The Bullitt Foundation  
From left: **Marc Brune, Zach Suchara, Paul Schwer** and **Tim Elley, PAE.**



# Engineering Excellence Awards 2014 *(continued from page 1)*

## Six EEA projects receive Grand Awards from a field of 20 entries



**GRAND AWARD ANDERSON PERRY & ASSOCIATES, INC.** Levee Repairs Help Avoid Economic Hardships for the Milton-Freewater Water Control District  
Pictured above from left are: **Andy Perry, Anderson Perry & Associates, Inc.;** **Brad Humbert, Milton-Freewater Water Control District;** and **John Wells, Anderson Perry & Associates, Inc.**



**GRAND AWARD KPFF CONSULTING ENGINEERS** Penguin Life Support System for the Oregon Zoo  
Pictured above: **Paul Dedyo, KPFF Consulting Engineers.**

**GRAND AWARD HARPER HOUF PETERSON RIGHELLIS, INC.** NE 137th / 138th Avenue Improvements for the City of Vancouver  
At right, pictured from left are: **Chuck Harper, Harper Houf Peterson Righellis, Inc.;** **Jeff Schmidt, City of Vancouver;** **Kelly Bachelder** and **Steve Nelson, Harper Houf Peterson Righellis, Inc.**

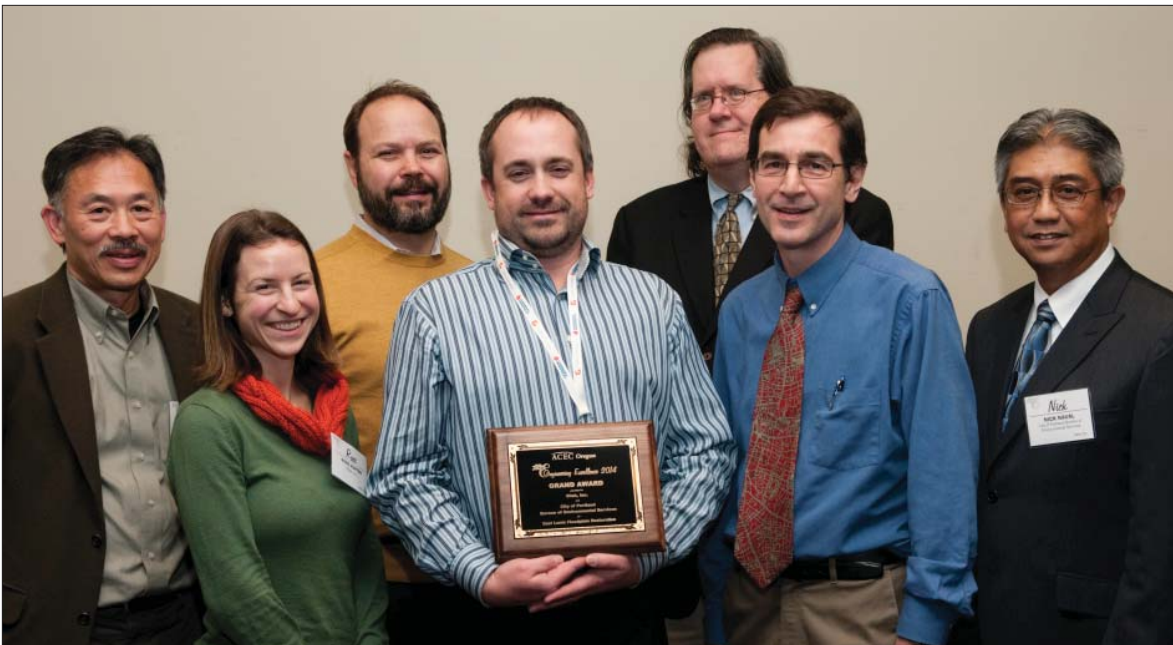




**GRAND AWARD**

**KPFF CONSULTING ENGINEERS** and **GRI International Terminal Renovation for the Port of Newport** At left, pictured from left are: **Mike Schmid, KPFF Consulting Engineers;** **John van Staveren, Pacific Habitat Services;** **Mike Reed, GRI;** **Stuart Finney, KPFF Consulting Engineers;** and **Scott Schlechter, GRI.**

**GRAND AWARD OTAK, INC. East Lents Floodplain Restoration for the City of Portland Bureau of Environmental Services**



At left, pictured from left are: **Ben Ngan, Nevue Ngan Associates;** **Rose Horton, Otak;** **Scott Gibson, City of Portland BES;** **Kevin Timmins, Otak;** **Stuart Albright, Apex Companies;** **John van Staveren, Pacific Habitat Services;** and **Nick Naval, City of Portland BES.**



**GRAND AWARD KPFF CONSULTING ENGINEERS Vernonia K-12 School for the Vernonia School District**

At left, pictured from left are: **Danielle Pruett** and **Curt Vanderzanden, KPFF Consulting Engineers.**

**WHAT IS ENGINEERING EXCELLENCE?**

The Engineering Excellence Awards (EEA) is an annual design competition that recognizes engineering achievements which demonstrate the highest degree of merit and ingenuity.

A panel of judges selected the best engineering projects of the year based on criteria such as original or innovative application of new or existing design techniques; social, economic and sustainable design considerations; and complexity.

Recognition is given at three levels: Honor Awards, Grand Awards and Project of the Year.

# HONOR AWARDS

**Anderson Engineering & Surveying, Inc.**  
Geothermal Heating Project for the  
Town of Lakeview

**BergerABAM**  
17th Street Dock Restoration for the  
City of Astoria

**Cardno**  
Cornelius Pass Road / Johnson School Road  
for Washington County Engineering and  
Construction Services Division

**Cornforth Consultants, Inc.**  
I-5 / Iowa Street Bridge Replacement  
Landslides for Oregon Department  
of Transportation

**David Evans and Associates, Inc.**  
I-84: Hood River - The Dalles Dam Access  
for Oregon Department of Transportation

**Harper Houf Peterson Righellis Inc.**  
Boones Ferry Road (Kruse Way to Madrona  
Street) for the City of Lake Oswego

**Harper Houf Peterson Righellis Inc.**  
North Going Bicycle & Pedestrian  
Improvements for City of Portland



Pictured above at the Engineering Excellence Awards dinner are, from left: **Eric Forsyth, Evan Garich, Mel Sears and Charissa Rotramel**, all with **Parsons Brinckerhoff**.

**HDR Engineering / Fluor Corporation**  
OTIA III State Bridge Delivery Program for  
the Oregon Department of Transportation  
**UPDATE:** This project is also one of eight  
ACEC National Grand Awards — one of the top  
24 EEA winners for 2014, out of 143 entries.  
The project is also a finalist for the 2014  
Grand Conceptor Award signifying the year's  
most outstanding engineering achievement.  
The winner of the Grand Conceptor Award will  
be announced April 29 during the EEA Gala in  
Washington, D.C. **Congratulations, HDR/Fluor!**

**Kittelson & Associates, Inc.**  
North Main Street Road Diet for the  
City of Ashland

**OBEC Consulting Engineers**  
Weaver Road Extension for Oregon Depart-  
ment of Transportation and Douglas County

**Parametrix**  
Scappoose - Vernonia Slide Repair Milepost  
8 for Columbia County Roads Department  
and Oregon Department of Transportation

**Parsons Brinckerhoff**  
BNSF / City of Vancouver  
Waterfront Access Project  
for BNSF Railway Company

**Quincy Engineering, Inc.**  
I-5: Green Springs Highway  
Interchange for Oregon  
Bridge Delivery Partners /  
Oregon Department of  
Transportation

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*Thank you, awards  
dinner sponsors!*

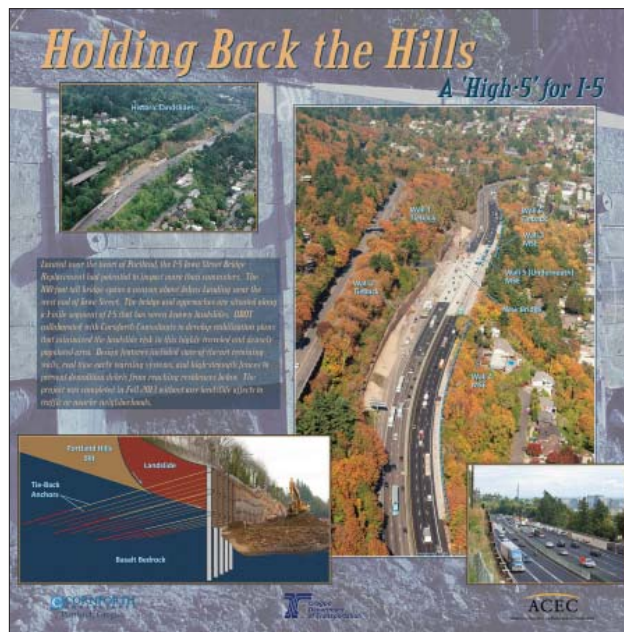
PEOPLE'S CHOICE  
**Parsons Brinckerhoff**

REGISTRATION  
**Cushman & Wakefield  
Geffen Mesher**

GOLD  
**KPFF Consulting Engineers  
Stewart Sokol & Gray**

PATRON  
**Anderson Engineering & Surveying  
David Evans and Associates Inc.  
GRI  
Parametrix  
Quincy Engineering, Inc.**

FRIEND  
**(HDR/Fluor) Oregon Bridge Delivery Partners  
OBEC Consulting Engineers**



**PEOPLE'S CHOICE AWARD** **Cornforth Consultants, Inc.**  
and **Oregon Department of Transportation**  
I-5 / Iowa Street Bridge Replacement Landslides  
for Oregon Department of Transportation