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ENGINEERING EXCELLENCE

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PEOPLE'S CHOICE
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Engineering Excellence Awards 2018

Anderson Perry & Associates wins Project of the Year for Crooked River Wetlands

The City of Prineville's Crooked River Wetlands Complex demonstrates a new approach for dealing with wastewater. Constructed for just eight million dollars, a fraction of the sixty-two million dollar price tag of a previously recommended mechanical treatment plant—the complex utilizes natural processes found in the wetlands to further treat the reclaimed water.

Designed to operate entirely by gravity, the wetlands offer habitat to numerous plants, wildlife, waterfowl, and insects that support a healthy ecosystem.

The wetlands in the complex were designed to augment the flow of water into the adjacent Crooked River. After the water is polished by the micro-organisms growing on the plants in the wetland cells, the water is cooled as it flows underground into the Crooked River, providing as much as two million gallons per day of clean, cool water to aid in the reintroduction of steelhead and salmon.

This approach met with skepticism from regulatory agencies during the permitting process. Anderson Perry and the City conducted a number of studies to convince the agencies that this approach would not adversely affect area groundwater. The City agreed to meet extremely rigid monitoring requirements and increased water quality standards in order to secure permits.

Since beginning, the system is exceeding the stringent permit requirements and has helped pioneer a new permitting process for those interested in this non-traditional method for treating and disposing of wastewater.

This project proves that treating wastewater can provide more to a community than smelly ponds or energy-consuming treatment plants.



PROJECT OF THE YEAR ANDERSON PERRY & ASSOCIATES Crooked River Wetlands for City of Prineville* "Anderson Perry worked on various aspects to deliver a low cost, effective and innovative solution that is a benefit to numerous customers," Judges' comment. Pictured from left: **Kari Hagedorn, Anderson Perry; Eric Klann and Steve Uffelman, City of Prineville; Andy Perry and Brett Moore, Anderson Perry; Betty Roppe, City of Prineville; Brad Baird, Anderson Perry; Steve Forrester, City of Prineville; and Brandon Mahon, Anderson Perry.**

*Thank you to the agencies that procured design work through Qualifications-Based Selection (QBS).

Engineering Excellence Awards 2018

Two categories eligible for Best in Category Award



BEST IN CATEGORY - TRANSPORTATION

KITTELSON & ASSOCIATES and **PARAMETRIX**
US 20 Barclay Roundabout for Oregon Department of Transportation*

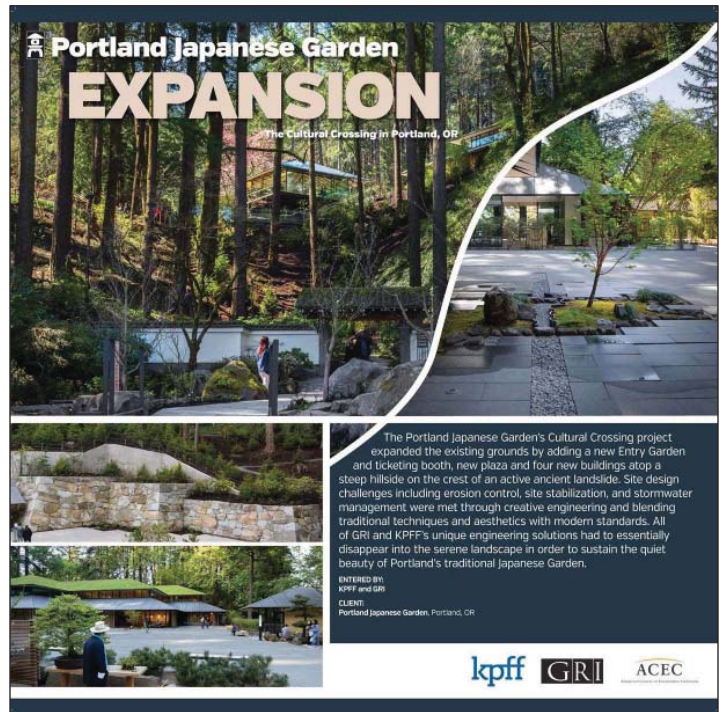
“A precedent-setting project for roundabouts on a highway. An efficient solution to solve transportation problems in Sisters,” Judges’ comments. Pictured at left, from left are: **Jim Phillips** and **Barry Johnson, Parametrix**; and **Scott Beard** and **Hermanus Steyn, Kittelson & Associates**.

BEST IN CATEGORY - WATER, WASTEWATER AND STORM WATER SYSTEMS and the PEOPLE’S CHOICE AWARD

KPFF and **GRI**

Portland Japanese Garden Expansion for the Portland Japanese Garden

“A landmark project on a difficult site both due to terrain and importance of the habitat. Complex site and owner limitations required innovative and sustainable solutions resulting in a great value to the owner and Portland visitors,” Judges’ comments. Pictured below, from left: **Christina Jones** and **Jason Bock, GRI**; and **Andrew Chung, Katie Ritenour** and **Anne Monnier, KPFF**.



Four projects earn Grand Awards from a field of 24 entries



GRAND AWARD NISHKIAN DEAN
Commercial Crew Tower Capability (CCtCap), Space Launch Complex 41, Cape Canaveral Air Force Station for Hensel Phelps / United Launch Alliance
 “Once-in-a-lifetime project. Plus it was a challenging site and has unique safety considerations. Extremely complex problems with efficient solutions that are a great value to the owner,” Judges’ comments. Pictured at right, from left: **Deke Black, Brooke Kind and Dave Beh, Nishkian Dean.**



GRAND AWARD OBEC CONSULTING ENGINEERS
Peter Courtney Minto Island Bridge for City of Salem*
 “The design is so striking it helped get the community interested in the project. That’s tough to do with infrastructure. Dramatic aesthetic and efficient solution,” Judges’ comments. Pictured above, from left: **Jeff Howell, Legacy Construction; James Stupfel, OBEC; Todd Ross, Legacy Construction; Amy Jones and Jim Bollman, OBEC; Aaron Kimsey, City of Salem; Guy Hakanson and Bob Goodrich, OBEC; and Nick Paveglio, GeoDesign.**



GRAND AWARD PAE
Oregon Zoo Educational Center for Oregon Zoo*
 “The detail in the modeling is impressive, plus I love the inclusion of sustainability in the aesthetic. The Zoo is a great role model for our region,” Judges’ comments. Pictured at left, from left: **Scott Bevan, PAE; Jim Mitchell and Kate Giraud, Oregon Zoo; and Tim Elley, PAE.**

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Engineering Excellence Awards 2018

GRAND AWARD SHANNON & WILSON, INC. and HBH CONSULTING ENGINEERS
Southern Flow Corridor Project for Tillamook County / Port of Tillamook*

“The use of analysis to balance various project needs resulted in an efficient and significant benefit to the Tillamook area,” Judges’ comment. Pictured below, from left: **Travis Nguyen, Shannon & Wilson; Mike Henry, HBH Consulting; Rachel Hagerty, Tillamook County; Matt Del Moro, HBH Consulting; Kevin Wood, Shannon & Wilson; Senator Betsy Johnson, D-Scappoose; Vaughn Collins, Northwest Hydraulic Consultants; Michele Bradley, Port of Tillamook Bay; and Andrey Chernishov, HBH Consulting.**



SMALL PROJECT AWARD

(Project budget of
 \$3 million or less)

PARAMETRIX

**Deschutes River Trail
 Boardwalk for Oregon
 Parks and Recreation
 Department***

“An innovative and elegant solution to an interesting problem for the boardwalk trail system,” Judges’ comment. Pictured at right, from left: **Barry Johnson, Parametrix; Scott Nebeker, Oregon Parks and Recreation Department; and Ryan Rudnick and Mike Pyszka, Parametrix.**



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Honor Awards (with judges' comments)

DAVID EVANS AND ASSOCIATES, INC. Cornelius Pass Road: NW Cornell Road to US 26 for Washington County* “A difficult site, and an important project.” “The solution is a direct benefit to current users.” Pictured at right, from left: **Zach Morris, Washington County; Gene Tupper, GRI; Don Odermott, City of Hillsboro; and Gavin Oien, David Evans and Associates, Inc.**



GEOENGINEERS, CENTURY WEST ENGINEERING and DAVID EVANS AND ASSOCIATES, INC. Terminal 4 - Sustainable Stormwater Streets for Port of Portland* “Unique use of different pavements to show transportation and natural systems can work together.” Pictured below, from left: **Greg Landau, GeoEngineers; Peter Craig, David Evans and Associates; Matt Rodgers, Century West Engineering; Molly Davis, David Evans and Associates; Dave Thielen, GeoEngineers; and Dean Norlin and Dave Dittmer, Port of Portland.**



KELLER ASSOCIATES, INC. Stormwater Master Plan for City of Grants Pass* “Detailed and accurate model, good predictability and value to owner for a complex stormwater system.”

KITTELSON & ASSOCIATES, INC. I-5 / La Center Road Interchange Project for City of La Center, Mohegan Gaming Advisors and Cowlitz Indian Tribe “A huge project to complete in 10 months.” “An efficient solution to meet owner requirements.”

OTAK, INC. with MASON, BRUCE & GIRARD, INC. ODOT Full Delivery Turnkey Mitigation for Yaquina Basin US 20 Corridor Improvements for Oregon Department of Transportation* “The solution provided was

GRI Bolton Reservoir Replacement for City of West Linn* “The reservoir replacement applied complex geotechnical methods to resolve the necessary design requirements.”

HARPER HOUF PETERSON RIGHELLIS

- **Farmington Road Improvements: Hocken to Murray for Washington County*** “Great method to put in culvert without disrupting services (internet).”
- **Mountainside High School for Beaverton School District*** “Sustainable solutions to difficult problems created a usable, long-term product.”
- **Tolbert Overcrossing for Clackamas County Development Agency*** “Three million under budget.” “Effective use of existing technologies to reform a valuable product.”

INTERFACE ENGINEERING, INC. Corporate Headquarters for Banfield Pet Hospital “Beautiful project with sustainability in the design; challenging with so many considerations (data center, pets, etc).” “The resulting structure used sustainable measures to create an efficient structure that reflects corporate ideals.”

INTER-FLUVE River Island Restoration Project for Metro “Great idea to relocate materials on-site to save significant time and money.” “Efficient solution with sustainable methods produced a successful project.”

efficient and natural which resulted in a significant restoration effort to meet mitigation requirements.” Pictured below, from left: **Kristen Currens, Mason, Bruce & Girard, Inc.; Michael Rafferty, Otak; and Stuart Myers, Mason, Bruce & Girard, Inc.**

Honor Awards continued on page 6.



Honor Awards (continued from page 5)

PARAMETRIX Crooked River Ranch Water System for Crooked River Ranch Water Company* “First of its kind in Oregon, likely paving the way for others.” “Efficient solution and long-term benefit to the Crooked River Ranch Community.”

PARAMETRIX, OBEC CONSULTING ENGINEERS, DAVID EVANS AND ASSOCIATES, MURRAYSMITH, GRI and DKS Highway 99W Newberg-Dundee Bypass for Oregon Department of Transportation* “One of the only new highways built in the last 30 years.” “Excellent sustainable solutions to a long-standing problem.” “Re-use of beams—good.”

PETERSON STRUCTURAL ENGINEERS Willamalane Parks Mill Race Path Bridges for Cameron McCarthy Landscape Architecture & Planning This project is a key component in connecting a community and allows users to commute, recreate, and learn in an ecologically diverse and rich setting. **Pictured at right, from left: Rachel Hanke, Bill Sandbo and Erik Peterson, Peterson Structural Engineers.**

SHANNON & WILSON, INC. Burnside Bridge Seismic Resiliency Study for Multnomah County* “Complex analysis is a good value



to Multnomah County and a benefit to the numerous businesses and people who use this critical transportation element.”

WSP West Eugene EmX Extension for Lane Transit District* “An efficient solution to extend an environmentally effective system.”

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ENGINEERING EXCELLENCE AWARD REVELERS

Pictured at right, from left: **Andy Perry, Anderson Perry & Associates; Mike Reed, GRI; Michelle Perry; Ralph Boirum, HWA Geosciences; Christine Boirum, Pacific NW Consulting Engineers Health & Welfare Trust; Tim Blackwood, Hart Crowser; and Tess Blackwood.**

Pictured below, from left: **Brett Cowgill, Allie Reiling, Chelsea Kemp and Brittany Cowgill, Parametrix, Inc.**



WHAT IS ENGINEERING EXCELLENCE?

The Engineering Excellence Awards is an annual design competition which recognizes engineering achievements that demonstrate an exceptional degree of innovation, complexity, achievement and value.

A panel of judges evaluate and discuss the projects and rate them based on: Uniqueness and/or innovative application of new or existing techniques; Future value to the engineering profession and enhanced public awareness/enthusiasm for the role of engineering; Social, economic and sustainable development considerations; Complexity; and Successful fulfillment of client/owner needs, including schedule and budget.

These projects attest to the continuing impact ACEC Oregon firms have on the quality of life in Oregon, southwest Washington and throughout the world.

ACEC Oregon

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