T.Y. Lin International wins Project of the Year for Sellwood Bridge Replacement

Sellwood Bridge also takes People’s Choice Award

T.Y. Lin International and their client Multnomah County won the 2017 Engineering Excellence Project of the Year for the Sellwood Bridge Replacement.

When cracks were discovered in the deteriorating girders of the Sellwood Bridge and a nearby hillside was slowly sliding into the river, Multnomah County launched a three-year planning process to evaluate rehabilitation and replacement options.

The new bridge carries two vehicular lanes, two bike lanes, two shared-use sidewalks, and will accommodate future streetcar service.

Completed on a fast-track schedule, the project includes the bridge, modernization of the Highway 43 interchange, and stabilization of the hillside located west of and above the bridge and interchange.

T.Y. Lin reduced the final bridge footprint significantly from early concepts, reducing project costs and minimizing environmental disturbances. The design team also developed an innovative approach to landslide mitigation, combining geotechnical design with a foundation design for the stability needed to found the deck arch against the west hillside.

Construction involved sliding the original bridge over to a detour alignment to keep traffic moving until the new bridge was completed. This solution saved the county one year of construction time and up to $10 million in costs, and received worldwide media attention.

PROJECT OF THE YEAR  T.Y. LIN INTERNATIONAL Sellwood Bridge Replacement for Multnomah County*  The public was engaged in every phase of this major transportation project, with that input reflected in the final bridge design. Pictured from left: David Goodyear, T.Y. Lin; Tom Westover, Cornforth Consultants; Jon Henrichsen, Multnomah County; Steve Katko, CH2M; Sam Hunaidi, ODOT; Jon Ferguson, CH2M; Sam Johnston, Sam Johnston Inc.; Ian Cannon, Multnomah County; Scott Nettleton, John Kooistra, Eric Rau, Bob Bochsler and Ryan Elwood, T.Y. Lin.
Two categories eligible for Best in Category

BEST IN CATEGORY - ENVIRONMENTAL & WATER RESOURCES
GEOENGINEERS, INC.
Sanpoil 21 Emergency Spill Response for Able Clean-up Technologies/CHS
The project team was successful in keeping a fast-moving gasoline spill from contaminating a pristine natural ecosystem—despite daunting logistical and communication barriers. Pictured at right, from left are: Bruce Williams and Cris Watkins, GeoEngineers.

BEST IN CATEGORY - TRANSPORTATION
OBEC CONSULTING ENGINEERS
Sunrise Expressway for Oregon Department of Transportation*
This project shows that major highway modernization projects are achievable when the owner, designers, and stakeholders work collaboratively to achieve outcomes that benefit the whole community. Pictured at left, from left are: Matthew Phillips, Andy Howe, Amy Jones and Larry Fox, OBEC Consulting Engineers; and Rian Windsheimer and David Kim, ODOT.

Seven EEA projects receive Grand Awards from a field of 26 entries

GRAND AWARD  CASCADE EARTH SCIENCES
Monte Cristo Mining Area Removal Action for U.S. Forest Service
A cherished Northwest wilderness area can be restored and remediated despite significant challenges when the right team of client representatives, community leaders and consultants are engaged. Pictured below, from left: Jessica Penetar, Brian Rabe, Ryan Tobias, Bernard (BJ) Kronschnabel and Abe Izen, Cascade Earth Sciences.

GRAND AWARD  ASPECT CONSULTING LLC
Landfill Stabilization for City of Port Angeles
The hundred and ten-foot wall keeps the slope stable and caps the refuse beneath it. Pictured above: Mark Swank and Peter Stroud, Aspect Consulting.

*Thank you to the agencies that procured design work through Qualifications-Based Selection (QBS).
GRAND AWARD CORNFORTH CONSULTANTS INC.

US 20: Pioneer Mountain to Eddyville for Oregon Department of Transportation*
The ODOT/Cornforth team conquered the complex landslide terrain to successfully complete a shorter, safer highway alignment to the Central Oregon Coast. Pictured above, from left: Charlie Hammond, Cornforth Consultants; Steve Schultz, Mike Tardif and Phil Wurst, ODOT; and Chris Carpenter, Cornforth Consultants.

GRAND AWARD HARPER HOUF PETERSON RIGHELLIS
Hassalo on Eighth for GBD Architects
This project has repaired the urban fabric of one of Portland’s eastside neighborhoods by transforming a surface lot into one of the city’s most environmentally conscious and thriving communities in the city. Pictured above is Janelle Brennan, Harper Houf Peterson Righellis.

GRAND AWARD HART CROWSER, INC. Forest Park Low Tank for Portland Water Bureau*
The one thing you should remember about this project is that we did not blow our top over an unexpected volcanic vent; instead, we persevered and worked with the design and construction teams to build a successful project...and then buried it out of sight. Pictured above, from left: Erik Peterson, Peterson Structural Engineers; Tim Blackwood, Hart Crowser; Lael Alderman and Matt Hickey, Murray Smith & Associates, Inc.
Two entries recognized with Small Project Award and Judges’ Choice

**GRAND AWARD**  **HDR**  
Bridge Creek Water Supply and Treatment Plant for City of Bend* 
The city and its consulting team persevered through many challenges to rebuild the city’s water supply system to serve the next generations of our community. Pictured above: Tom Hickmann, City of Bend; and Nicki Pozos, HDR.

**GRAND AWARD**  **SHANNON & WILSON, INC.**  
Ridgewood View Park Reservoir & Pump Station Project for Tualatin Valley Water District*  
The reservoir’s unique structure allowed it to merge public utility with public recreation. Pictured above, from left: Todd Perimon, Mike Britch and Nick Augustus, Tualatin Valley Water District; and Jerry Jacksha, Shannon & Wilson.

**SMALL PROJECT AWARD**  **OTAK**  
Rockinghorse Lane Drainage Improvement for City of Lake Oswego*  
The design solution successfully mitigated storm drainage outfall and landslide issues while simultaneously providing the City with a set of tools to address similar problematic outfall issues throughout their system. Pictured above: Ian Machan and Rob Amsberry, Otak.

**JUDGES’ CHOICE**  **KITTELSON & ASSOCIATES, INC.**  
Oregon Avenue Protected Bike Lane for Sky Lakes Wellness Center*  
This project was community-driven to create a healthy and more vibrant neighborhood, not to only solve a transportation problem. Pictured above, from left: Karla Kingsley, Marc Butorac and Nick Foster, Kittelson & Associates, Inc.

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Honor Awards

AECOM LRT Efficiency Projects for Santa Clara Valley Transportation Authority* - The one thing you should remember about this project is that it highlights the valuable contribution public transit plays in moving large crowds safely and efficiently. Pictured below, from left: Ron Higbee, Lindsay Yazzolino, Omar Jaff and Christina Seo, AECOM.

INTEGRAL CONSULTING, INC. EVRAZ Oregon Steel Riverbank Stabilization - Through a collaborative, creative, and flexible design approach, it’s possible to securely stabilize a riverbank, improve riparian habitat, and prevent recontamination of sediments.

OTAK Tenny Creek Emergency Repair for Clark Regional Wastewater District - Great feats of public good can be accomplished within a short time when the intersection of communication, technical expertise, and resolve is actualized.

PARAMETRIX Powell Butte Highway Roundabout for Deschutes County* - Travelers along Powell Butte Highway are now safer as they drive through the intersection at Neff and Alfalfa Market Roads.

PBS ENGINEERING & ENVIRONMENTAL

- 6th & Norwood Intersection Roundabout for City of Camas, Washington* - Thoughtful transportation engineering results in more than just technical solutions to the traffic challenges of growing cities. Pictured below, from left: Guy Neal and Maureen White, PBS; Jim Hodges, City of Camas; and Greg Jellison, PBS.

Vancouver Waterfront Transportation Improvements for City of Vancouver, Washington* - This project shows the importance of infrastructure engineering and public/private cooperation to the long-term economic growth of our communities. For the Vancouver waterfront, these transportation, stormwater management, and utility improvements form the tree from which the rest of the development will continue to grow.

Honor Awards are continued on page 6.
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 spend a day evaluating and discussing the projects and rate them based on: Unique-ness 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’s 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.

2017 PEOPLE’S CHOICE AWARD
Pictured at left is T.Y. Lin International’s photographic display panel for the Sellwood Bridge Replacement. It won the popular vote at the awards dinner as favorite display panel.

WHPACIFIC OR99W: Gaarde McDonald Intersection Improvements for Oregon Department of Transportation and City of Tigard* - This project provided a dramatic improvement in intersection safety, with a reduction from twenty-one accidents per year to four in the year since completion. And, none of the accidents involved pedestrians or cyclists. Pictured at left, from left: Mike McCarthy, City of Tigard; Brian Copeland, DKS Associates; Wayne Bauer, WHPacific; and Matt Freitag, ODOT.

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