

NEWS

ACEC
American Council
of Engineering
Companies
of Oregon

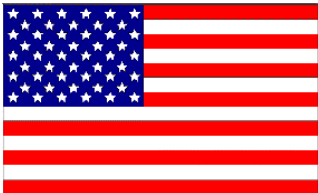
February 2002

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Member of the
American Council of
Engineering Companies



Engineering Excellence Awards 2002

OBEC CONSULTING ENGINEERS WIN "PROJECT OF THE YEAR" FOR THEIR ROGUE RIVER PEDESTRIAN BRIDGE

The Eugene firm takes top honors from a field of twenty.

Master of ceremonies, **Matt Zafino**, Northwest Newschannel 8, announced the Rogue River Pedestrian Bridge by OBEC Consulting Engineers as the overall top project in ACEC Oregon's Engineering Excellence awards banquet January 9 at The Governor Hotel. Project engineer **Gary Rayer** accepted the award on behalf of OBEC and the owner, City of Grants Pass.

The City of Grants Pass needed a new pedestrian/bikeway crossing over the Rogue River. The City determined that the pedestrian bridge should be of the unique "*stress-ribbon*" type. Key criteria included clear-spanning the river to minimize environmental impacts during construction and while in service.

The bridge also needed to provide essential services and utility connections for the City, and serve as a key link in the City's alternative modes transportation and recreation trail system.

OBEC Consulting Engineers, in association with Professor **Jiri Strasky**, Consulting Engineer, developed a "*stress-ribbon*" type bridge design that met the key design criteria while providing an architecturally elegant bridge. The bridge design was chosen for this location to meet challenging hydraulic, environmental, and functional parameters. The main channel of the Rogue River is used year-round for recreational boating and also provides critical habitat for threatened and endangered fish species.

(continued on page 2, see "Project of The Year.")



Photo by Julie Keefe.

PROJECT OF THE YEAR: OBEC Consulting Engineers, Rogue River Pedestrian Bridge

From left to right: Gayle Harley and Bill Hall (OBEC), Linda Holm (Holm II), Gary Rayer (OBEC), Dennis Holm (Holm II), Gordon Drake, Greg Ausland and Larry Fox (OBEC) and Robert Strazer (CDM Technologies).

REGISTER FOR BREAKFAST PROGRAM: "MARKETING IN GOOD TIMES AND BAD,"

Tuesday, February 26th; see page 7 for details!



FROM THE PRESIDENT

January was a busy month for ACEC Oregon and our staff.

The Engineering Excellence Awards Banquet held at the Governor Hotel attracted more than 200 people and the entries were excellent.



Don Kliever

I personally enjoyed seeing old friends and past clients. There is never enough time during these programs to catch up with the activities of friends and clients and also participate in the program, yet the networking is so valuable to all of us.

Prior to the board meeting in January, about 25 to 30 attendees were fortunate to hear Ted Kulongoski, a gubernatorial candidate, speak on his platform and issues facing Oregon. Mr. Kulongoski was an engaging speaker and also one that supports QBS.

The Risk Management Committee planned an informative seminar that delved into some thorny issues facing owners, contractors and A&E firms. Discussion covered topics concerning contracting relationships, performance responsibility under the standard of care measure vs. the owner's responsibility under the Spearin Doctrine, and liability and betterment when things go awry. The "Stuff Happens...Who Pays?" forum highlighted four white papers in the morning session, and a panel of qualified industry representatives lead the discussion in the afternoon. If you were not one of the 110 attendees, you missed a good educational event and 5 CPD credits.

The February 27th board meeting will be in Eugene and will combine a social event in the evening to outreach to existing local members and potential new members in the area, and a breakfast meeting with a few agencies to continue ACEC Oregon's QBS education responsibility. Our Speakers' Bureau also is planning to have a member speak at a local high school to enlighten students to the engineering profession and the various business entities that utilize our skills and knowledge.

Thank you Alison and Merideth for a wonderful job of making things happen; they planned and carried out a veritable cornucopia of events during the month.



Engineering Excellence Awards 2002

PROJECT OF THE YEAR (cont. from page 1)

Keeping piers, shoring, and falsework out of the main channel was imperative to satisfy environmental, economic, aesthetic, hydraulic, and public involvement concerns. The result is a stunningly beautiful pedestrian/bikeway bridge spanning a pristine reach of the scenic Rogue River. The design is a unique stress-ribbon bridge consisting of a combination of precast concrete segments with a continuous cast-in-place concrete deck over the panels.

In addition to providing a critical pedestrian/bikeway link, the structure may be used for vital emergency vehicle access and also carries city water and sanitary sewer pipelines across the Rogue River. (See "Five Firms Garner Grand Awards," page 3.)



Project Engineer Gary Rayer accepts OBEC's "Project of The Year" award for their Rogue River Pedestrian Bridge.



Photos by Julie Keefe.

ACEC Oregon President Don Kliever (URS Corporation) and emcee Matt Zafino (KGW Northwest Newschannel 8) share a laugh at the Engineering Excellence Awards Dinner.

ENGINEERING INC. E-WEEK IS HERE

ACEC National soon will debut its new magazine, "Engineering Inc." (formerly American Consulting Engineer). The publication promotes the advocacy and business interests of ACEC by offering news, legislative analysis and business practice information to member firms, clients, opinion leaders and policy makers.

A key part of the magazine is "Members in the News," which includes highlights of major initiatives and events from ACEC member organizations. If you have any items you would like included in this section (interesting projects, awards or other honors, new hires, etc.) please submit them to Ellen Mullally, Director of Communications, ACEC, 1015 15th Street NW, Washington, DC 20005, phone 202-347-7474, e-mail emullally@acec.org.

The Professional Engineers of Oregon will hold their 39th annual student invitational banquet at the DoubleTree Lloyd Center on Wed., February 20th during National Engineers Week 2002, February 17-23rd.

The banquet, which regularly attracts more than 500 students and engineer hosts, features engineering exhibits and displays, including an ACEC Oregon table which will promote the consulting engineering profession and showcase the top entries from Engineering Excellence. Following the dinner a representative from the Engineering & Logistics Technology section of Northrup Grumman will speak.

Cash donations or door prizes are still being accepted. For more information please contact **Jim Stohr** at URS Corporation, phone 503/222-7200 or jim_stohr@urscorp.com.

FIVE FIRMS GARNER GRAND AWARDS *(continued from page 2)*

BECHTEL INFRASTRUCTURE CORP. Portland Airport Max Light Rail Project (David Evans and Associates, Inc. is the major civil design subconsultant)

Airport MAX was not expected to be built until 2015. The light rail line was needed to address rapid growth in air passenger traffic at Portland International Airport. Although air passenger traffic had grown dramatically, public funding for light rail was tied up in the Westside Light Rail and Interstate MAX projects.

Airport MAX is a unique public/private venture and adds 5.5 miles to Portland's light rail system with four new stations, including one at the airport terminal, adjacent to the south baggage claim area.

The Airport MAX Extension is an exceptional model for public/partnerships. Three local government agencies — the Port of Portland, Tri-Met, and the City of Portland — were party to the unique private investment proposal brought forward by Bechtel Enterprises, which gave the region an opportunity to extend light rail to the airport more than a decade earlier than originally anticipated.

Bechtel took advantage of the flexibility afforded by the design/build approach to achieve the project's challenging fast-track schedule. This was accomplished through maximum integration of design and construction, from the very start of the project. Using design/build and fast-track construction techniques, the project took less than three years from the start of final design to opening day.



Photos by Julie Keefe.

GRAND AWARD: Bechtel Infrastructure Corp., Portland Airport MAX Light Rail Project (with major civil design subconsultant David Evans and Associates, Inc.)

Pictured, from left: Ismail Karim and Stan Eman (Bechtel Infrastructure Corp.), Laura Pritchard (Laura Pritchard Graphic Design), Amjad Bangash (Bechtel), Joe Walsh (Tri-Met) and Steve Metz (David Evans and Associates, Inc.).



GRAND AWARD: Cornforth Consultants, Inc., St. Johns Landfill Levee Restoration.

Pictured, from left: Ernel Quevedo (Cornforth Consultants, Inc.), Dennis O'Neil, Paul Ehinger, James Watkins and Maurice Neyman (all from Metro), Mike Meyer (Cornforth).

CORNFORTH CONSULTANTS, INC. St. Johns Landfill Levee Restoration

St. Johns Landfill was the primary landfill for the Portland area for over 50 years. It is adjacent to the Columbia Slough and the Smith and Bybee Lakes Wildlife Area, which are separated from the landfill by a protective levee. Over the years tides and currents have eroded segments of the levee. Extensive loss of wildlife habitat and local slumps along the shoreline raised concern about a catastrophic slope failure.

Cornforth Consultants, with the aid of Fishman Environmental Services, Parsons Brinkerhoff Quade and Douglas, and Ash Creek Natural Area Management, helped Metro restore the levee. The complex nature of the project required evaluations of soil

erosion, failure mechanisms of the levee slope, strength behavior of soil and rock, slough channel hydraulics, environments for native vegetation, multiple uses of geotextile products, and regulatory permitting.

The design uses graded rockfill at the toe of the levee, and compacted silt reinforced with a variety of geotextiles and native plants in the upper slope. Similar techniques have been used on a handful of projects in the Pacific Northwest. However, this design differs in that the upper slope is capable of sustaining native vegetation without irrigation. The engineered design of the slope provides adequate support to keep refuse safely within the landfill. As the native plants grow, aesthetics and water quality improve along with wildlife habitat and scour protection. The growth of vegetation and the project have been very successful. (*See "More Grand Awards," page 4.*)

Engineering Excellence Awards 2002

MORE GRAND AWARDS (continued from page 3)

KENNEDY/JENKS CONSULTANTS, INC.

Subsurface Wastewater Discharge

Klickitat County, WA needed to construct a new sewer system in Dallesport to resolve public safety concerns and accommodate future area development.

The project area borders on the Columbia River, which has several species of endangered salmon, is near Native American cultural sites, and is located within the Columbia River Gorge National Scenic Area.

Kennedy/Jenks Consultants and Klickitat County worked closely with state and federal agencies to develop an innovative approach that collects, treats and discharges wastewater effluent while it protects scenic, natural, cultural, and recreational resources. Water quality concerns included conventional wastewater parameters as well as temperature, which affects salmon populations and migration. The treatment consists of primary treatment using grit-and-screen removal; secondary treatment in a modified oxidation ditch, conventional secondary clarification, and ultraviolet disinfection.

The innovative approach proposed for handling treated sewage is to discharge it through an underground gravity-flow pipeline to a perforated pipe system installed 90 feet from the Columbia River. The waste matter cascades through the subsurface gravel media to cool and mix with subsurface currents. The effluent is safe for fish and aquatic plants since no chlorine is used, temperatures are reduced by more than 10 degrees and nutrient loads are reduced.

Furthermore, the project routes safe, high-quality water to the river, where it helps to replenish stream flows for salmon and is completed without underwater construction, thus saving the Community money by avoiding expensive underwater construction techniques.



GRAND AWARD: KPFF Consulting Engineers, Eastbank Esplanade.

Pictured, from left: Mike Reed (GRI Geotechnical & Environmental Consultants), Peter Martins and Andrew Janskey (Kpff Consulting Engineers), Irene Bowers and Carol Mayer-Reed (Mayer/Reed).



Photos by Julie Keefe.

GRAND AWARD: Kennedy/Jenks Consultants, Subsurface Wastewater Discharge

Pictured, from left: Stuart Childs (Kennedy/Jenks), Don Struck (Klickitat County Commission), Dana Peck (Kennedy/Jenks), Ed Hoyle (Klickitat County), Travis Tormanen (Kennedy/Jenks), Allen Ginette (Dallesport Community Council).

The effluent collection, treatment, and disposal system will meet current and future water quality requirements, protect and enhance the environment, and provide for future water treatment needs in a safe, environmentally friendly way. This approach has great potential for use in other wastewater treatment systems that discharge to rivers with endangered species and systems where water temperature is a concern.

KPFF CONSULTING ENGINEERS

Eastbank Esplanade

The Eastbank Esplanade provides a vital pedestrian link along the Willamette River from the Rose Quarter south to the OMSI. The project includes a curved floating walkway from the Steel Bridge south to the Burnside Bridge that provides handicap access and a dock for the Oregon Convention Center. Fireboat and public vessel docks provide over 500 feet of moorage space and there are two city blocks of public plaza and parking. (continued on page 5)

(continued from page 4) The Esplanade includes a bioengineering riverbank design that uses 100 percent natural materials and recycles existing rip-rap into an environmentally friendly system. Also included is a pedestrian ramp structure with an ADA incline lift leading to the Burnside Bridge; a cantilevered walkway supported by an existing historic seawall, seating areas, and 4,000 feet of a public riverfront esplanade.

Incremental impacts and their affect on the river's larger, long-term function, including fish habitat and water quality, were concerns. KPFF's goal during the design and permitting process was to avoid, minimize and mitigate environmental impacts. The project also includes innovative riverbank stabilization practices and efforts to mitigate impacts to endangered steelhead and other aspects of migrating fish.

The design minimized moving parts and created a simple-yet-elegant, low-maintenance pedestrian link with minimal operations costs. The Eastbank Esplanade serves as a model to the engineering profession for riverbank development and revitalization across the country.

**OTAK
Portland Streetcar**

The City of Portland, as it devolved after World War II, was disjointed and lacked attractive mobility options to the automobile. It was decentralized and fragmented, extending away from a neglected downtown.

The Portland Streetcar is an opportunity to link 21st century Portland with its streetcar heritage. The streetcar links to the past by being built out of the very streets it helped create generations ago. It will play an important role in the future of the Central City by providing local public transportation and connections to the regional transportation system, linking reemerging neighborhoods, and facilitating the development or redevelopment of employment and activity centers.

Otak, Inc. led a dynamic, multidiscipline team on the planning efforts that helped to implement the project. The engineering efforts were led by Otak and BRW for different segments of the project. By connecting the rapidly-growing upper reaches of the Northwest district to the Central City, the streetcar facilitates the anticipated growth of the NW 23rd Street business district while providing a connection to the existing Montgomery business park and neighborhoods.

Bringing the Streetcar from vision to reality was the purpose of a public/private partnership, Portland Streetcar Incorporated, initiated by the Portland business community and the City's Office of Transportation.

Portland Streetcar and the City blended public funding with private investment to create a unique financing package that will be a model for similar investment nationwide.



Photos by Julie Keefe.

GRAND AWARD: Otak, Portland Streetcar. Pictured, from left: Gregg Weston, Katie Kersten, Ken Krieger, Roger Millar and Monica Krueger all from Otak, Vic Rhodes and Charlie Hales from City of Portland.

HONOR AWARDS

David Evans and Associates, Inc.

Brookwood Parkway Extension

GRI Geotechnical & Environmental Consultants

Canby Skate Park

Spencer B. Gross, Inc.

S.E. Corridor Multi-Modal Project

HNTB Corporation

Steel Bridge Pedestrian and Bicycle Crossing

Interface Engineering, Inc.

Courthouse Square Transit Center
Sun Microsystems Assembly Testing Facility

Kittelson & Associates, Inc.

Boones Ferry Road Corridor Plan

KPFF Consulting Engineers

Evergreen Aviation Institute

MEI-Charlton, Inc.

"Avalokitesvara," an Ancient Statue

Murray, Smith & Associates, Inc.

Haskins Reservoir Rehabilitation

Parsons Brinckerhoff

Smart Growth/Footprint Project

R & W Engineering, Inc.

J.A. Wendt Elementary Modernization

URS Corporation

Coos Bay-North Bend Water Supply Extension

W & H Pacific

Cascade Station

JUDGES

Dr. Ken Williamson, P.E., Department Head

Civil, Construction & Environmental Engineering, OSU

John Blumthal, Yost Grube Hall Architecture

President, Portland Chapter, American Institute of Architects

Heidi J. Stout, Reporter

The Business Journal

Don Erickson, P.E., Structural Engineer

U.S. Army Corps of Engineers/Portland District

Dr. Radley Squier, P.E.

Squier Associates, Inc. (retired)

COMMITTEE ROSTERS 2002

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Alison Davis / ACEC Oregon
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Ray Miller / Miller Consulting Engineers
Melissa Johnson / David Evans and Associates, Inc.
Duane Lee / Lee Engineering, Inc.
Stuart Albright / Hart Crowser, Inc.
Dave Poulson / W & H Pacific
Barbara Brookman / Parsons Brinckerhoff
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Steve Walker / HDR Engineering, Inc.
Lobbyist: Marshall Coba / Coba Company

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Fred Van Domelen / VLMK Consulting Engineers
David Shipley / Shipley & Associates, Inc.
Anita Smith / USI Northwest
David Murray / Brown and Caldwell
Chuck Schrader / Jordan Schrader
George Mead / Jordan Schrader
Jon Larson / Marvin, Chorzempa & Associates, P.C.
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David Calver / Parsons Brinckerhoff
Omid Nabipoor / Interface Engineering
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John Holroyd / URS Corporation
Kevin McCormick / Miller Consulting Engineers

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Members: Evan Kennedy / Kennedy Associates, Inc.
Harry Czyzewski, P.E. / Consulting Engineer
Todd Welch / Oregon Historical Society
Ron Vandehey / Miller Consulting Engineers

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Gary Peterson / Peterson Structural Engineers
Dave Driscroll / GRI
Dave Leibbrandt / Murray, Smith & Associates, Inc.
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Rick Thrall / AMEC Earth & Environmental
Woodi Davis / David Evans and Associates, Inc.
Kathy Thomas / Thomas/Wright, Inc.
Jerry Lane / OBEC Consulting Engineers
Terry Craven / Kleinfelder, Inc.
Bob Van Vickle / W&H Pacific

ACEC OREGON/CORPS (U.S. Army Corps of Engineers)

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Members: Kim Marcus / URS Corporation
Curt Bagnall / CH2M HILL, Inc.
Darrin Geldert / LDC Design Group
Andy Jansky / Kpff Consulting Engineers

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Board Rep: Mike Unger / Power System Engineers, Inc.
Chair: Bill Hall / OBEC Consulting Engineers
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Darryl Anderson/Anderson Engineering & Surveying, Inc.
Brett Moore / Anderson-Perry & Associates, Inc.
Hardy Li / Parsons Brinckerhoff
Mike Reynolds / David Evans and Associates, Inc.
Staff Liaison: Alison Davis / ACEC Oregon

ACEC OREGON/ODOT (Oregon Dept. of Transportation)

Board Rep: Todd Chase / Otak
Chair: Claude Sakr / HDR Engineering, Inc.
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Paul DePalma / Jacobs Sverdrup, Inc.
Larry Fox / OBEC Consulting Engineers
Sorin Garber / HDR Engineering, Inc.
Randy McCourt / DKS Associates
Connie Kratovil / Parsons Brinckerhoff
Brian Willman / URS Corporation
Curtis Vanderzanden / HNTB Corporation
Jay McRae / CH2M Hill, Inc.
Staff Liaison: Alison Davis / ACEC Oregon

"MARKETING IN GOOD TIMES AND BAD" BREAKFAST PROGRAM ON FEBRUARY 26

Learn how to identify key economic indicators and what they mean for your business.

Discovering business opportunities is an ongoing process for design professionals. **Julie Olson**, a partner with **Architects Barrentine.Bates. Lee AIA**, is a recognized leader in the A/E/C industry in marketing and operations, and will discuss the current economic climate and results of interviews with individuals in several market segments.

What: "Marketing in Good Times & Bad"

When: Tuesday, February 26th
 • 7:30 A.M. Breakfast buffet
 • 8:00 A.M. Program begins
 • 9:30 A.M. Break
 • 10:30 A.M. Conclusion

Where: Greenwood Inn
 10700 SW Allen Blvd.
 Beaverton, Oregon

GOOD FOR TWO (2) CPD CREDITS!

Olson has been described as having a somewhat different perspective shaped by a more client centered approach to marketing and service delivery.

The breakfast program will focus on marketing techniques and how firms can take action during an economic downturn, then be prepared for better conditions. Olson's talk will also include how to identify key economic indicators and how they can determine which direction the economy is headed.

Registration deadline is February 21st.



Registration Form

"MARKETING IN GOOD TIMES AND BAD"

Tuesday, February 26th • Greenwood Inn • street address • Beaverton
 • 7:30 A.M. Breakfast Buffet • 8:00 A.M. Program • 9:30 A.M. Break • 10:30 A.M. Conclude

Cost: • \$50 member(s) *If your firm is a member, then you are a member.*
 • \$60 non-member(s)
 (Please duplicate this form if registering more than two people.)

Name _____ E-mail: _____

Name _____ E-mail: _____

Firm Name _____ Phone _____

____ (no. of registrants) @ \$____/each = \$ _____ (total amount enclosed)

MAKE CHECKS PAYABLE TO CECO.

Mail check & registration form (or fax form & mail check) for receipt by Feb. 21st to:
 ACEC OREGON, 5319 SW Westgate Drive, Suite 221, Portland, OR 97221-2411
 phone 503/292-2348 • fax 503/292-2410 • e-mail: mwebber@acecoregon.org

Cancellations must be received on or before the February 21st registration deadline to receive a refund.

Mark your calendar...

February

Sunday 17th thru Saturday 23rd
 National Engineers Week

Wednesday 20th
 National Engineers Week banquet
 Double Tree Hotel, Lloyd Center

Tuesday 26th
 "Marketing in Good Times and Bad"
 Breakfast Program at the
 Greenwood Inn, Beaverton

Wednesday 27th thru Thursday 28th
 Board of Directors Meeting and
 Outreach Activities, Eugene

March

Sunday 10th thru Wednesday 13th
 ACEC National Meeting and
 "Consulting Congress Day" activities
 Washington, DC

Tuesday 12th
 ACEC National Engineering
 Excellence Awards, Washington, DC

Wednesday 27th
 Board of Directors Meeting
 URS Corporation, Portland

April

Thursday 4th thru Saturday 6th
 Joint Meeting with CEC-Hawaii,
 CEC- Illinois and CE of Indiana
 Outrigger Wailea Resort, Maui

Wednesday 24th
 SMPS (Society for Marketing
 Professional Services) QBS
 Educational Luncheon Program

Thursday 25th thru Friday 26th
 Board of Directors Meeting and
 Outreach Activities, Roseburg

May

Sunday 12th thru Wednesday 15th
 ACEC National Meeting
 Las Vegas, Nevada

Wednesday 22nd
 Board of Directors Meeting
 URS Corporation, Portland

Wednesday 29th
 Business Dinner Meeting
 Portland

June

Thursday 20th thru Friday 21st
 Board of Directors Meeting and
 Outreach Activities, Hood River

Wednesday 26th
 Networking Day: Golf (or Tennis) and
 Dinner at Langdon Farms Golf Club

AMONG OURSELVES...

The ACEC Oregon Board of Directors is pleased to announce the following new member firm. Please welcome...

Synnovation Engineering Inc., P.O. Box 68103, Oak Grove, Oregon 97268-0103, phone and fax 503-820-0427, e-mail lfbilancia@ieeee.org, www.syneng.com. Principal is **Lou Bilancia, P.E.**, electrical/electronic forensic and consulting engineer. Synnovation Engineering, Inc. provides services in high tech failure reconstruction, plain English analysis and testimony, high tech patent consulting and various other consulting and design services.



AMEC Earth & Environmental, Inc. is relocating. Their new address is 7376 SW Durham Road, Portland, Oregon 97224. Phone and fax numbers remain the same: phone 503-639-3400, fax 503-620-7892, Vancouver 360-695-0254.

Harry Czyzewski is changing the name of his firm from **Oregon Technical Services Center, Inc.** to **Harry Czyzewski, P.E., Consulting Engineer**. Address and phone remain the same: 1966 NW Ramsey Crest, Portland, Oregon 97229, 503-292-9663.

Degenkolb Engineers is now in Seattle. **Stacy Bartoletti** is relocating from Portland to head the Seattle office, sbartol@degenkolb.com, phone 206-262-7723. Degenkolb also invites you to explore their new website, www.degenkolb.com.

Fujitani Hilts & Associates, Inc. has completed a merger with **Shannon & Wilson, Inc.** and is now the Portland office of Shannon & Wilson, Inc. **Frank Fujitani** becomes Vice President of Shannon & Wilson, Inc. and manager of the Portland office. There will be no personnel, client or vendor changes as a result of the merger. They will continue to practice from their current location at 2255 SW Canyon Road, Portland, Oregon 97201. Shannon & Wilson, Inc. is a leading provider of geotechnical and environmental consulting services throughout the country with a staff of about 200. Headquartered in Seattle, the firm has additional offices in Alaska, Colorado, Illinois, Missouri and New Hampshire.

Geocon Northwest is on the move. Their new address is 8380 SW Nimbus Avenue, Beaverton, Oregon 97008. Phone and fax numbers remain the same: phone 503-626-9889, fax 503-626-8611, e-mail geoconnw@effectnet.com.

Register TODAY for breakfast program
"Marketing in Good Times and Bad,"
February 26th; see page 7 for details!

AMERICAN COUNCIL OF ENGINEERING COMPANIES OF OREGON
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