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2008-2009 Officers

PRESIDENT
Eric Heller, P.E., L.G.
GeoEngineers, Inc.

PRESIDENT ELECT
Sean Caraway, P.E.
Seattle Public Utilities Materials Laboratory

SECRETARY
Sarah Morgan, E.I.T.
Golder Associates Inc.

TREASURER
Jonathan Brown, P.E.
Landau Associates, Inc.

MEMBERSHIP CHAIR
Bo McFadden, PE, L.E.G.
GeoEngineers, Inc.

EDUCATION CHAIR
Michel Bouchided, E.I.T.
CH2M HILL

PUBLIC RELATIONS CHAIR
Carlo Evangelisti, P.E.
AMEC Earth & Environmental

WEBMASTER
Ghada Ellithy, P.E. (Not Pictured)
Shannon & Wilson
2009 Event Schedule:

**February 26, 2009 - Dinner Meeting**
(Rescheduled from December)
“The Bogachiel Slide: No Easy Way Around”
Tom Badger, WSDOT
McCormick & Schmick’s, Lake Union
Seattle, Washington

**March 26, 2009 - Dinner Meeting**
“Ground Freezing - Fundamentals and Recent Applications in Europe and the Pacific Northwest”
Ulf Gwildis, CDM
Red Lion Hotel
Bellevue, Washington

**April 24, 2008 - Dinner Meeting**
Web-based presentation
Topic and speaker: to be determined
Location: McCormick & Schmick's, Lake Union
Seattle, Washington

**May 15, 2009 - Short Course**
“Basic Design of Deep Foundations”
Red Lion Hotel
Bellevue, Washington

**May 16, 2009 - Spring Seminar**
“Recent Developments and Case Histories in Deep Foundations”
Husky Union Building Auditorium, University of Washington
Seattle, Washington
From the President

Welcome back to our annual publication of the Groundhog! The 2008-09 season is proving again to be a very active year for our group. We have already held one successful short course and are in the planning stages of another short course as well as the spring seminar. In addition the group has been active in reaching out to students and the public.

I would like to thank a fantastic group of engineers that agreed to volunteer as officers this year. Sean Caraway with Seattle Public Utilities is our President-Elect and is working hard to put together our annual Spring Seminar that is scheduled for Saturday, May 16th. Sarah Morgan with Golder Associates is this year’s Secretary and did an outstanding job putting this publication together. Jon Brown with Landau Associates has returned as the group’s Treasurer and continues to keep our finances straight. Michel Bouchedid with CH2M HILL stepped up from committee member to be our Education Chair. Together Michel and his group have done an amazing job putting together our monthly dinner meetings and the fall short course. Bo McFadden with GeoEngineers has joined the officers to be our Membership Chair and provides our group with invaluable experience and perspective. Carlo Evangelisti with AMEC is our Public Relations Chair; he has worked hard to reach out to other organizations including the local universities and the Puget Sound Engineering Council, as well as providing volunteers for the City of Seattle Public Landslide Workshops. Ghada Elithy with Shannon & Wilson is working hard as our webmaster to keep the website current and up to date. All of us continue to work to implement our mission on a daily basis and to work towards our group’s vision:

Mission

“The ASCE Seattle Section Geotechnical Group’s mission is to advance geotechnical practice in the Puget Sound Region by providing leadership on public issues, sharing professional experience, and promoting education.”

Vision

“The ASCE Seattle Section Geotechnical Group will be the recognized leader of geotechnical practice throughout the Puget Sound Region.”

Activities

This year, we have provided three informative monthly dinner meetings and we are planning three more. In addition to the dinner meetings, our Education Committee hosted a short course on construction de-watering in November and another technical short course is planned for the Friday before the Spring Seminar. Our annual Spring Seminar is May 16th; this year’s topic is “Recent Developments and Case Histories in Deep Foundations”. We are planning our third annual awards program at the Seminar this year to both recognize service to our group and profession, and to recognize technical and professional excellence by our members.

Finances

Financially our group remains in a strong position. We continue to make the bulk of our funds on the Spring Seminar and short courses, although we also make a small profit on the Groundhog. We have historically been posting losses at all of our monthly dinner meetings despite our efforts to recover fees from no-shows. Because of our strong financial position we are able to absorb the losses rather than raise fees. We are continuing our recent tradition of identifying company sponsors for students and still allowing free walk-ins for the talk only. We have also instituted a reduced rate for non-reimbursed attendees.
From the President (Continued)

With the money we raise from the Spring Seminar, short courses and Groundhog we have provided donations to the University of Washington student chapter of Engineers Without Boarders and GeoMapNW. We have been able to support many worthy efforts that benefit the group over the last several years and our goal is to continue to fund important projects to support our engineering community.

GeoInstitute
We were visited by Dr. Jean-Louis Briaud, President of the GeoInstitute at our January dinner meeting. Dr Briaud discussed the possibility of us becoming a local GeoInstitute chapter. The Officer group will be discussing this over the next several months. We welcome your input regarding this opportunity. Please feel free to contact any of the officers with questions or comments on this issue.

Volunteers
We are beginning the process of looking for next year’s officers. If you are interested in being involved next year (August 2009 to June 2010), I recommend attending as many of the remaining events this year as possible and coming to one of our officer’s meetings, which are generally held the Monday before each dinner meeting. If you are interested, you can contact Sean Caraway, next year’s Group President at Sean.Caraway@Seattle.Gov or me at eheller@geoengineers.com.

I look forward to seeing you soon at one of our monthly dinner meetings and the 2009 Spring Seminar. Thank you for your continued support of our group!

Eric Heller. P.E., L.G.
GeoEngineers
Public Relations Committee Update

Mentor Night for Seattle University and Seattle Pacific University and Edmonds Community College
Puget Sound Engineering Council hosted a mentor night at Seattle University and Edmonds Community College for students either already enrolled in engineering programs or considering engineering as a major this past fall. The purpose of the mentor night was to bring practicing engineers together with students and to inspire the students, most of whom were sophomores and juniors, towards a career in engineering. The event included a panel discussion with representatives from various engineering disciplines followed by one-on-one mentoring of students. Students were able to meet with mentors in their disciplines and also learn about the different areas of engineering.

Members of ASCE Seattle Section Geotechnical Group shared their experiences and educated students (and even a few parents) about geotechnical engineering. We were hopefully able to inspire some students towards a career in geotechnical engineering. ASCE Seattle Section Geotechnical Group plans on continuing our involvement in future mentoring activities.

Seattle Public Landslide Information Meetings
Seattle Department of Planning and Development and Seattle Public Utilities hosted two free landslide information meetings for the public in fall 2008. The meetings included presentations by professionals and individual consultation with City of Seattle staff and local professional organizations on best practices for managing landslide prone properties.

ASCE Seattle Section Geotechnical Group attended both events. Volunteers from our different member firms were able to answer questions from the public and provide insight from a geotechnical engineering standpoint. The public asked questions ranging from simple to complex, showing their depth of awareness and interest in engineering issues. It was an excellent way to reconnect with the people we serve and collaborate with on a daily basis.

Student Outreach
This past fall, the ASCE Seattle Section Geotechnical Group helped sponsor the University of Washington ASCE Student Chapter fall quarter welcome back BBQ. This event was attended by UW civil engineering students and allowed members of the geotech group to mingle with the students and talk with them about geotechnical engineering and the ASCE Geotechnical Group.

Also this fall, the ASCE Seattle Section Geotechnical Group also made a presentation introducing the group at the monthly meeting for the Seattle University ASCE student chapter.

These events hopefully will encourage student to look into and consider geotechnical engineering as a career and attend our meetings. Please look for new students who are attending the dinner meetings and introduce yourself and help them feel welcome.
Public Relations Committee Update (Continued)

Events Planned for 2009

Though it is still early in 2009, the Public Relations Committee is already hard at work. ASCE Seattle Section Geotechnical Group is planning to help the Seattle University civil engineering students with a field trip to the Seattle Underground Tour where volunteers will talk to students about geotechnical engineering at the turn of the century and how geotechnical engineering has evolved into the current standard of practice. We will also provide volunteers for the Puget Sound Engineering Council mentor night at University of Washington and make a presentation to the ASCE University of Washington chapter on a geotechnical engineering topic.

As always, we are looking for opportunities to educate the public on geotechnical engineering. Please feel free to contact Carlo Evangelisti at carlo.evangelisti@amec.com if you have any suggestions or are interested in volunteering!

*Carlo Evangelisti, P.E.*
Public Relations Chair
Membership Committee Update

Membership has been growing consistently over the past few years, with our current membership at 616 compared to 554 last year. This membership represents significant growth in local firms as well as new company moves into the Puget Sound area. A primary focus of the Membership Committee is to keep up with membership changes, email address changes and solicit active involvement of businesses practicing in the Puget Sound area market.

Anyone wanting to be included on the Geotechnical Group's email distribution list, or needing to update their email address, or provide names of potential new members should contact the chair of the membership committee, Bo McFadden PE, LEG at bmcfadden@geoengineers.com.

In addition the Membership Committee has a subcommittee which recognizes meritorious service by members whose past efforts on behalf of the Geotechnical Group deserve recognition. These awards are made annually at the Spring Seminar. Nominations for the Distinguished Service Award should be addressed to Bo McFadden at bmcfadden@geoengineers.com by March 1, 2008.

Bo McFadden, P.E., L.E.G.
Membership Chair
Education Committee Update
The ASCE Seattle Section Geotechnical Group Education Committee planned a very active season 2008-2009 with diverse geotechnical topics to be presented. Below is a summary of our activities for the 2008-2009 season:

Dinner Meetings
1- September 24, 2008
Lake Dorothy Hydroelectric Project, Alaska
Mark Rohrbach, LACHEL FELICE & Associates

2- October 22, 2008 – Joint AEG/ASCE Seattle Section Geotechnical Group
The 2008 Sichuan Earthquake
Dr. Stevan Harrell, University of Washington and Dr. John Vidale, Pacific Northwest Seismograph Network

3- December 18th, 2008 – Meeting cancelled due to snowstorm

4- January 22, 2009 – Joint Seattle ASCE/ASCE Seattle Section Geotechnical Group
Hydrologic Performance of Final Covers for Waste Containment: Lessons Learned from a Nationwide Field Experiment
Dr. Craig H. Benson, University of Washington

5- February 26, 2009 – Rescheduled from December
The Bogachiel Slide: No Easy Way Around
Tom Badger, WSDOT

6- March 26, 2009
Ground Freezing - Fundamentals and Recent Applications in Europe and the Pacific Northwest
Ulf Gwildis, CDM

7- April 24, 2009
Web-based presentation
Topic and Speaker Unidentified

Short Courses
1- November 13 and 14, 2008
Construction Dewatering - Two Day Short Course
Speakers: Richard Luark, Larry West, Jeff Randall, Bill Anderson, Richard Martin, Michael Kenrick, Jim Bailey, John Bickford, Scott Bender, James Struthers, Robert Middour

2- May 15, 2009
“Basic Design of Deep Foundations” Short Course
Speakers: Dr. Bengt Fellenius, and Dr. Fred Kulhawy
Short Course Flyer Included on Pages 11 and 12
Education Committee Update (Continued)

**Spring Seminar**
May 16, 2009
The May 15 short course is planned in conjunction with this year’s spring seminar. The spring seminar is titled "Recent Developments and Case Histories in Deep Foundations".

**Field Trip**
To be determined

Volunteers are always welcome at any time of the year. If you would like to get involved in planning one of our educational events, please contact Michel Bouchédid at michel.bouchedid@ch2m.com

*Michel Bouchédid, E.I.T.*
Education Committee Chair
Registration and Site Information

1. The $300 short course registration fee includes breakfast, break refreshments, lunch, and a binder with course materials. Student spots are available at $75/student with proof of current student status (current student ID card or proof of university registration).

2. Advanced registration is requested. Space is limited to 80 registrants. Registration will be on a first-come/first-served basis.

3. To reserve your spot, phone to Shannon and Wilson at 206-695-6799 and inform the receptionist that your call is in regards to the ASCE Short Course. This will reserve you a spot for one week, during which time we must receive your payment or your spot will be opened up for someone else.
If making reservations for several participants, please provide the name of each participant.

4. Refunds will only be permitted if someone on the waiting list is willing to replace you. A $50 handling fee will be deducted from refunds. If you are unable to attend, you may send another person in your place.

5. For additional information, please contact Ghada ElBittar by email at GSE@sunwilt.com, or by phone to 206-695-6799.

Site Location

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Short Course

Basic Design Of Deep Foundations

One-Day Short Course

Friday May 15, 2009
7:45AM – 5:15PM

Red Lion Inn
11211 Main St
Bellevue, WA

Sponsored by:
ASCE Seattle Section Geotechnical Group

Course Description

This one-day short course will provide participants with an overview of the behavior of drilled and driven deep foundations in soil and rock. The short course will cover axial behavior of drilled foundations in soil, design of single piles and pile groups, evaluation of rock sockets, and the performance and interpretation of static loading and dynamic tests on instrumented piles. The short course will include case histories and practical applications.

Professor Bengt H. Fellenius and Professor Fred H. Kulhawy will present this short course the day prior to the ASCE Geotechnical Group's Spring Seminar on Deep Foundations. The short course is intended for geotechnical engineers, structural engineers, and site civil engineers with an understanding of the fundamentals of pile design and installation.

Course attendees will be eligible to receive 0.7 Continuing Education Units (CEU) or 7 Professional Development Hours (PDH).
Registration Form

Please send one form for each registrant. Use a photocopy for additional registrants.

1. Registrant:
   Name
   Firm/Agency
   Mailing Address
   City/State/Zip
   E-Mail Address

   Daytime Phone (Please indicate area code)

   Please check the following box if you would like to be added to our group’s email list.

2. Enclose Short Course Fee of $300
   ($75 for full-time students)
   Please make checks payable to:
   ASCE Seattle Geotechnical Group

3. We accept Paypal/credit card via our
   website: www.seattlegeotech.org

4. Mail Your Check and This Form To:
   ASCE Seattle Geotechnical Group
   2009 Deep Foundation Course
   c/o Ghada Elhity
   Shannon & Wilson, Inc.
   400 N 34th Street, Suite 100
   Seattle, WA 98103-8600

For Office Use Only

Date Rec’d: ___________________________ Amount: ___________________________
Check No./Date: ___________________________ Payer: ___________________________

Short Course Speakers and Schedule

Speakers Bio

Dr. Bengt H. Fellenius, formerly Professor of Civil Engineering at the University of Ottawa, is an internationally recognized foundation engineering consultant and the author of more than 250 technical papers. His professional experience comes from a wide variety of assignments that encompass foundation design for industrial plants, water and sewage treatment facilities, bridges and highway projects, marine structures, and urban area development, as well as participation in special investigations, instrumented field tests, etc. Dr. Fellenius has given lectures and courses to several universities and international conferences throughout America, Europe, and South-East Asia. He currently lives in Calgary, Canada.

Dr. Fred H. Kulhawy is Professor of Civil/Geotechnical Engineering at Cornell University, Ithaca, New York. He received his BSCE and MSCE from the New Jersey Institute of Technology and his PhD from the University of California at Berkeley. He is licensed in several states as a Professional Engineer, Civil Engineer, or Geotechnical Engineer. His teaching and research focuses on foundations, soil-structure interaction, dams, soil and rock behavior, and geotechnical computer and reliability applications, and he is the author of over 340 published technical papers and reports. He has given more than 1300 lectures around the world and has received numerous awards for his work from ASCE, ADSC, IEEE, and others, including election to Distinguished Member of ASCE and the ASCE Karl Terzaghi Award and Norman Medal. He has extensive experience in geotechnical engineering practice with several consulting firms, and he has been a private consultant for major projects on four continents, with over 420 assignments completed to date.

Friday, May 15th, 2009 Course Schedule

7:30 – 8:00 Registration and Breakfast
8:00 – 8:10 Opening and Introduction
8:10 – 10:00 Axial Behavior of Drilled Foundations in Soil – Dr. Fred H. Kulhawy
   Basic construction, evaluation, and analysis of axial capacity, behavior, and normalized
   load-displacement response. Includes comparative evaluation among drilled shafts, augered cast-in-place
   piles, pressure-injected footings, and micropiles.
10:00 – 10:30 Break
10:30 – 12:00 Axial Behavior of Driven Piles – Dr. Bengt H. Fellenius
   Evaluation of axial capacity, settlement, and basic installation issues. Features case histories to
   demonstrate the design of single piles and pile groups for capacity and settlement.
12:00 – 13:00 Lunch
13:00 – 14:30 Issues in Evaluating Rock Foundations and Sockets – Dr. Fred H. Kulhawy
   Relevant rock material and rock mass properties, side resistance, tip resistance, elastic socket
   displacement, and general observations on construction and field acceptance criteria.
14:30 – 15:00 Break
15:00 – 17:00 Instrumentation – Dr. Bengt H. Fellenius
   Performance and interpretation of the static loading on instrumented piles and the Osterberg O-cell test
   with brief reference to the dynamic test with PDA/CAPWAP and the Statnamic test.

Lunch, and coffee breaks in the morning and afternoon will be provided.

ASCE Seattle Section Geotechnical Group – 2009 Officers

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Geotechnical Engineering News

March/April 2009

Volume 87
Number 3
Basic Design of Deep Foundations

Fred Kulhawy, P.E., G.E.,
Professor of Civil/Geotechnical Engineering at Cornell University

Dr. Bengt Fellenius, P.Eng., Consultant

Friday, May 15, 2009

The Geotechnical Group is also pleased to announce that Dr. Fred Kulhawy and Dr. Bengt Fellenius will present their one day short course on “Basic Design of Deep Foundations” on Friday, May 15, 2009 in the Red Lion Hotel at 11211 Main Street, Bellevue, Washington 98004.

7:30 am - 8:00 am Registration
8:00 am - 8:10 am Opening and Introduction
8:10 am - 10:00 am Axial Behavior of Drilled Foundations in Soil
Dr. Fred Kulhawy
10:00 am - 10:30 am Morning Break
10:30 am - 12:00 pm Case Histories as Basis for the Design of Single Piles and Pile Groups for Capacity and Settlement
Dr. Bengt Fellenius

12:00 pm - 1:00 pm Lunch
1:00 pm - 2:30 pm Issues in Evaluating Foundations in Rock and Soils
Dr. Fred Kulhawy
2:30 pm - 3:00 pm Afternoon Break
3:00 pm - 5:00 pm Performance and Interpretation of Static Loading on Instrumented Piles and the Osterberg C-cell test
Dr. Bengt Fellenius

Saturday May 16, 2009
8:00 AM – 5:00 PM

Sponsored by:
ASCE Seattle Section
Geotechnical Group

www.seattlegeotech.org
Registration Form

Send one form for each registrant or register online at www.seattlegeotech.org

1. Registrant

Name

Firm/Agency

Mailing Address

City/State/Zip

E-mail Address

Daytime Phone (Please indicate area code)

☐ Check here to be added to our e-mail list

2. Seminar Fee - Short Course

Electronic payment can be processed at our website www.seattlegeotech.org

a. Seminar

Check applicable box: (boxes)

☐ $40 regular non-student registration

☐ $45 student registration

☐ $45 Extra Seminar program and CD

b. Short Course

☐ $300 regular non-student registration

☐ $75 student registration

If paying by check make payable to:

ASCE SEATTLE GEOTECHNICAL GROUP

3. Mailing Address

ASCE Seattle Geotechnical Group

2009 Spring Seminar

c/o Shannon & Wilson, Inc.

400 North 34th Street, Suite 100

Seattle, Washington 98103

For Office Use Only

Date Rec’d: __________ Amount: __________

Check No./Date: __________

Payee: __________
2008 Charitable Donation Summary

University of Washington Engineers Without Borders Chapter

For the second year, ASCE Seattle Section Geotechnical Group provided a donation of $5,000 to the University of Washington (UW) student chapter of Engineers Without Borders (EWB). In the summer of 2007, the student chapter partnered with the remote village of Yanayo, Bolivia to replace thatched roofs with corrugated metal; replace indoor open cook fires with efficient ventilated brick stoves; and install irrigation allowing a second crop cycle. This past summer the UW student chapter of EWB returned to spread these technologies to two neighboring communities and to implement road improvements to maintain access to the area during the rainy season.

University of Washington GeoMap NW

In July 2008, the ASCE Seattle Section Geotechnical Group provided a donation of $10,000 to the Pacific Northwest Center for Geologic Mapping Studies, more commonly known as GeoMap NW. In June, Kathy Troost gave a presentation at our end of the year vision and planning meeting. As Director of the GeoMap NW, Kathy approached our group explaining that funding at several levels was diminishing and unless additional funds could be found the center would be forced to close within the year. As a temporary solution, the staff of GeoMap NW have agreed to pay cuts to help save costs and help keep the center open. Kathy reminded us of the service GeoMap NW provides to the geotechnical community including geologic maps of the Puget Sound Basin and an extensive database of well logs in the Seattle area. Kathy informed us that based on our funding, the center has received many other donations.
Distinguished Service Awards

The Membership Committee has a subcommittee which recognizes meritorious service by members whose past efforts on behalf of the Group, including outstanding leadership and guidance to the local geotechnical community, deserve recognition. The Distinguished Service Awards, established in 2007, are awarded annually at the Spring Seminar.

In 2008 the Group awarded three Distinguished Service Awards. The recipients were Bob Holtz (University of Washington), Don Anderson (CH2M HILL) and Keith Cross. The success of our group is attributed to the hard work of dozens of volunteers each year. However, there are individuals who return year after year and distinguish themselves as leader among the group. These individuals have shown dedication and continued service to the field of geotechnical engineering and the ASCE community. Our group owes its success to individuals like Bob, Don and Keith.

We are currently accepting nominations for the 2009 Distinguished Service Awards. Please send your nominations to Bo McFadden at bmcfadden@geoengineers.com by March 1, 2009 and include the name and contact information of the nominee and a brief description of why this person should receive a Distinguished Service Award.

Pictured from left to right: Alan MacNab, Bob Holtz, Don Anderson, Keith Cross, J. Michael Duncan. Photo courtesy of Armin Stuedlein.
Local Firm Summaries

ASCE Seattle Section Geotechnical Group would like to thank the following companies for volunteering to submit articles for the 2009 Groundhog publication. The Groundhog is published to inform group members and others of the group’s achievements, recent activities, goals, changes in the group and other significant issues in the geotechnical community. Each local organization represented by the group’s membership is invited to submit a brief article summarizing their organizations services and trends over the past year, plans for the coming year, changes in the organization and promotions.

The company articles are arranged within the Groundhog publication in the order they were received by the Secretary.

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Condon-Johnson & Associates Inc.

Condon-Johnson & Associates Inc. (CJA) is a Heavy Civil Engineering contractor, headquartered in Oakland, California. Its Seattle office provides contracting services in Alaska, British Columbia, Oregon, Washington, Idaho, Montana and Utah. CJA functions as both a specialty subcontractor and a general contractor. The company’s core competencies include Drilled Shaft Construction, Anchored Earth Retention and Soil Nailing, and Ground Improvement. Ground Improvement includes Grouting, Stone Columns and Jet Grouting and Soil Mixing. When those core competencies reach a critical size within a project, CJA will undertake the work as a General Contractor.

In the past year CJA – Seattle has undertaken Earth Retention contracts associated with Brightwater Waste Water Treatment Plant, Retaining Wall Construction on SR 900, Permanent Soil Nail Wall Construction on Bridge Structures in Vancouver, WA, and Augercast Piles at Nathan Hale High School. We also completed work on the I-405/ Bellevue design build widening and installed a revolutionary soil mixed wall at 505 1st Avenue. Looking forward to next year, we have commitments for Jet Grouting in Vancouver BC, compaction grouting in Bothell, and a large Sound Transit project to penetrate the cylinder piles at the I-5 crossing near Pine St.

During 2008 we welcomed Mike Mayfarth, a WSU graduate to our staff. The company was also lauded for its work as General Contractor on the Marine View Drive Bridge Project in Des Moines by the Basin Committee.

Condon-Johnson & Associates Inc is please to participate with General Contractors or Owners in providing budget information or engineering input for future projects

Contact Condon-Johnson & Associates Inc. 206-575-8248  
Eric Dybevik District manager edybevik@condon-johnson.com
Alan Macnab, Business Development Officer amacnab@condon-johnson.com
Dominic Parmantier, Corporate Geotechnical Manager dparmantier@condon-johnson.com

Hayward Baker, Inc.

Hayward Baker, Inc. (HBI) continues to provide full services for design/build and bid/build projects out of its Seattle and Vancouver, BC offices. Principal staff has grown to include: Jon Bussiere, Mike Blanding, Frank Kalata, Rick Hanke, Jim Sexton, Mark Koelling, and Andy Anderson. These personnel continue to service our Northwest clients for ground improvement work requiring soft ground treatment and/or liquefaction mitigation. Our work load in aggregate pier installation, underpinning, grouting, and piling/excavation support continues to grow.

www.seattlegeotech.org
You never see our best work...
But you have confidence in knowing we’ve been there.
Golder Associates Inc.

People
The geotechnical group at Golder Associates welcomed Deb Ladd, P.E., a Senior Geotechnical Engineer. Others welcomed to Golder in 2008 include Gary Gunderson P.E., Phil Osborne, Julie Villeneuve, Aaron Rydecki, and Stuart Brown.

Congratulations to Frank Shuri, P.E. on your appointment to Principal. Many thanks for the past 21 years and for your continued commitment to Golder.

The Seattle office of Golder has continued to grow with seven employees working full-time and many more splitting time between the Seattle and Redmond offices.

Projects Highlights
2008 continued to be an exciting year for the Golder geotechnical group with a variety of interesting projects including:
• Design, contracting, and construction management for upgrade of a soil cover at a local cement kiln dust disposal site.
• Providing geohazard evaluation and geotechnical design for several pipelines in the Pacific Northwest.
• Designing a remediation work plan for a former mine site in Idaho to allow residential development.
• Geotechnical exploration, hazard mapping, and evaluation of steep slopes on the Capital Campus in Olympia, Washington
• Geotechnical design and construction monitoring for the Casino Snoqualmie.

Awards
Golder and its employees were honored with several awards this year including:
• CE News named Golder Associates a Pinnacle Award Winner for the dual accomplishment of maintaining exceptional revenue growth while creating a remarkable workplace environment. This award is given to firms on both the Zweig Letter Hot Firm 2007 list and the 2007 CE News Best Civil Engineering Firms to Work For list.
• Golder Associates won the ACEC Gold Award for Future Value to Engineering Profession & Perception of the Public for our geotechnical and shoring services on the Escala Condominiums. The project also received the ASCE Geotechnical Engineering Honor Award.
• Andreas Kammereck was named to Consulting-Specifying Engineer (CSE) Magazine’s 2008 40 Under 40 list. CSE gives the 40 Under 40 award to 40 building industry engineers under the age of 40 who stand out in their academic, professional, personal, and community achievements.

Community
Golder employees continued their commitment to giving back to the community through financial donations and volunteer activities. Highlights from the past year include:
• Twenty employees participated in the Group Health Commute Challenge, riding their bikes to work instead of driving their cars. The two teams extended the friendly competition through August and pedaled over 8,700 miles, reducing CO₂ emissions by over 8,000 lbs.
• Our annual Holiday Party Silent Auction raised over $4,000 for charity. Golder employees donated and collected items for the auction, then bid on the items at the start of the holiday party.
• Employees participated in the Hopelink End Summer Hunger Campaign as well as the Thanksgiving food drive, donating food and nearly $2,000 to families in need.
LACHEL FELICE & Associates, Inc. (LF&A) is an underground engineering and geotechnical design firm specializing in geo-structural design for large infrastructure projects including tunnels, bridges, retaining structures, and related facilities.

Kenneth Faught, NW Area Manager, continues to successfully grow LF&A’s Cross-hole Sonic Logging (CSL) and Pile Dynamic Analysis (PDA) by expanding their equipment base and adding 3D tomography analysis capabilities. He also offers mitigation design services to provide a complete solution package to better serve their clients’ needs. Recently completed projects include Portland’s Tri-Met Light Rail Extension, Sound Transit Central Link Light Rail C755, Everett HOV Lanes Addition, and I405 116th Street Overcrossing.

Tim Kovacs, NW Project Engineer, is primarily involved in services for deep foundation clients, including CSL testing and designing repair plans for drilled shafts and PDA testing for driven piles. This year he provided an innovative repair plan for a drilled shaft under challenging loading conditions and restrictive soil resistance requirements on a project in Las Vegas. He also recently passed the HSDPT exam for certification of PDA testers at the "PDA Signatory - Advanced" level.

Mark Rohrbach, NW Project Engineer spent most of 2008 finishing the Lake Dorothy Hydroelectric project, which involved constructing 1000-ft of hard rock tunnel and a lake piercing about 150-feet below the surface of Lake Dorothy. The project is located in a remote area of southeast Alaska and was featured on the History Channel’s Extreme Isolation episode of the Tougher In Alaska TV series. More recently Mark has continued to work on top down temporary excavation support projects, including the Gateway Station Shell project in downtown Pittsburgh, PA. The project calls for an excavation 50-ft deep by 90-ft wide with a 2-year service life.

Dr. Conrad W. Felice, President and CEO of LACHEL FELICE & Associates, Inc., participated as a member of a four-person American Society of Civil Engineers (ASCE) reconnaissance team from North America and Asia invited by the Chinese government to observe damage and recovery operations following the May 12, 2008, M7.9 Wenchuan earthquake. With their sponsors from the China University of Mining & Technology, Beijing, the team visited the hardest hit areas from July 15-July 20. The team will document its observations and findings with a focus on lifelines in a monograph to be published by ASCE.

LF&A had a very productive 2008. Looking forward 2009 promises to be even busier as we continue to serve our clients, pursue new work, and experience steady growth. Please visit www.lachel.com for a firm overview and current employment opportunities.

Kleinfelder

2008 presented opportunities to work on a wide variety of interesting projects and continue steady growth of the geotechnical and rock engineering groups. We were pleased to welcome Principal Professional Richard Luark who joined the firm in July. His expertise in deep excavation support and retaining wall design has been a valuable addition, not only for the Seattle office, but also for several Kleinfelder offices across the nation.
Kleinfelder (Continued)

Engineering and construction support were provided for several mid and high rise buildings including 5th and Yesler, Skyline at First Hill, 635 Elliott, and the Fauntleroy Place project. These efforts were headed up by Bob Plum and David Cotton with support from Frank Reinart, Steven Flowers and Ian LaVielle.

Marcus Byers, David Cotton, Hyungsuk Shin, and Jason Washburn worked on Costco projects in Korea, Australia, British Columbia, Alberta, Alaska, Washington, Oregon, Idaho and Montana. Scott Ward supported the group from his home in Hayden, Idaho. In addition to Seattle area projects, Scott led efforts on several projects for Spokane County including Bigelow Gulch Road realignment and replacement of the old I-90 bridge at the Washington-Idaho border.

Bill Gates, Chad Lukkarila, Steve Lewis and Kami Deputy continued to work on a number of large wind power and transmission projects in Washington, Oregon, California, Pennsylvania, West Virginia and Virginia. We also established a high-end rock strength testing laboratory that has seen samples from all over the county. We are now able to perform direct shear testing on rock cores, triaxial testing using a Hoek-cell, unconfined compressive testing, point load testing, and slake durability testing. Plans are in the works to add Brazilian tensile testing soon.

Other highlights for the year include completion of a three year effort supporting re-development of former Boeing property into The Landing mixed use development in Renton; a three year effort of QA services for completion of the Third Runway at SeaTac International Airport; and tunnel hazard assessment and restoration planning for five tunnels on the John Wayne Pioneer Trail in Iron Horse State Park.

Other ongoing projects include dewatering and geotechnical construction support services for the Brightwater Wastewater Treatment Facility; design work for the Bond Street CSO in Everett; support for the Qwuloolt Levee project in Marysville, which will breach old levees to restore wetland habitat; and several design build transportation projects, both in and out of state.

Kleinfelder wishes you a safe, healthy and prosperous 2009.

CDM

Camp Dresser & McKee, Inc. (CDM), a consulting, engineering, construction, and operations firm delivering service to public and private clients worldwide, is represented in the Northwest by offices in Bellevue and Seattle, Portland, and Helena and Libby, Montana.

John Newby, P.E., leading our Geotechnical Services Division in the Western United States out of the Bellevue office, provided his expertise in seismic design for new facilities at the Harry Tracy Water Treatment Plant in San Francisco, and for a U.S. Government project in the Czech Republic. Joe Souther, P.E., leading the geotechnical group in Bellevue, was working on Federal and mining projects in Idaho, Montana, and Arizona. Ulf Gwildis, L.E.G., in his role of CDM’s construction services manager for the Brightwater Conveyance System project, can look back on a busy and exciting year. While the East Contract Tunnel was successfully broken through in Woodinville, mining operations in the two Central Contract Tunnels are under way. The Ballinger Way receiving shaft was successfully excavated using ground freezing technology and the West Contract Tunnel just started mining at Point Wells. Mike Lach, P.E., despite being very busy with Brightwater, worked on the foundation design of a new Cement Dome at the Ash
CDM (Continued)

Grove Plant in Seattle. Karen Irby-Smith, while managing our soils laboratory, also worked on several projects for the Navy in Kitsap County and with the Highline and Eatonville School Districts. Morris Wainwright provided civil design services for the Owen’s Lake restoration project in central California and a water intertie for Brightwater.

This year our geotechnical group in Bellevue welcomed Farid Sariosseiri, PhD, supporting our team with Brightwater and the Portland Airport de-icing system enhancement project.

Nationwide, CDM’s Geotechnical Services Division continued to grow. In addition to the resources provided by our geotechnical professionals in fifteen states, we can turn to the internationally acknowledged expertise of our affiliated colleagues in Germany in specialty fields ranging from ground freezing and other special underground construction technologies to utilization of geothermal energy.

We continue seeking to add entry-level and experienced geotechnical professionals to our team for working on numerous technically exciting and challenging projects in the Pacific Northwest and beyond.

Northwest Cascade, Inc

Northwest Cascade, Inc’s Geotechnical Division is a full service geotechnical construction contractor, specializing in earth retention, slope stabilization, grouting and design build shoring.

The year of 2008 proved to be both challenging and interesting. NWC has the capacity to take on exciting and challenging projects due to the expertise and continued innovation of the team. The NWC Geotechnical Division is run by Spark Johnston, PE, and his right hand man and superintendent Terry Kotas. Spark and Terry’s combined experience has proven to be invaluable when it comes to finding structurally sound, innovative, and economic solutions to problems in the field. Paul Rodriguez acts as estimator and project manager. Mr. Rodriguez has earned extensive experience in the field while acting as a project foreman after earning a degree in Business Administration from Central Washington University. In the past few months NWC has been excited to welcome Dave Ferworn, PE and Evan Newman to our team. Mr. Ferworn has over 25 years in the geotechnical construction industry as both a designer and contractor. Mr. Ferworn was previously the founder and owner of Subterra Construction. Mr. Newman recently earned a B.S. in Civil Engineering from Washington State University.

The following are a few notable projects completed in 2008:

**Project Name:** Denny Creek Vicinity Slope Stabilization on I-90  
**Completion Date:** October 2008  
**Description:** In response to fatal rock slides occurring in 2005, WSDOT identified two slopes along I-90 as high risk areas. WSDOT’s design included hand scaling of loose rock, removal of trees and vegetation above the slope and on the face of the slope, and installation of rock bolts, rock dowels, and horizontal drains. Over 8000 lf of drill holes were installed on the project.
Northwest Cascade, Inc (Continued)

Project Name: SR99 Yesler Way Vicinity Foundation Stabilization
Completion Date: March 2008
Description: As a temporary fix to the Alaskan Way Viaduct issue, micropiles were used to seismically upgrade the viaduct’s footings. Northwest Cascade installed 88 ea micropiles with design loads up to 190 kips.

Project Name: Seattle Steam
Completion Date: November 2008
Description: In phase one, NWC used a process of permeation and compaction grouting in order to fill voids beneath walls and slabs near the future boiler and increase the SPT tests results in the area from 5 blows/ft to 15 blows/ft. In phase two 65 ea micropiles and 23 ea pin piles were installed in tight access conditions.
Seattle Public Utilities Materials Laboratory

The SPU Materials Laboratory Geotechnical Group has had a fruitful year in 2008. The group has added two members to the staff this year. Aaron Clark joined the group as an assistant engineering geologist. Sean Caraway, P.E. came on board as a senior geotechnical engineer. Henry Haselton, P.E. left his post as the laboratory manager in 2008 to rejoin the private sector. The laboratory manager position should be filled, once again within the next few weeks. Jeff Fowler, P.E. continues to serve as the geotechnical engineering supervisor. Our staff also includes Juan Carlos Ramirez, P.E., senior geotechnical engineer, Cody Nelson, assistant engineering geologist, Taryn Sass, L.G., associate engineering geologist and David Johnson, engineering intern from Seattle University.

Our group continues to work on numerous interesting projects including the Madison Valley drainage project, Mercer Island Pipeline, Chester Morse pump station, South Park pump station, Windermere CSO, West Seattle Reservoir and South Lake Union Park, Phase II. Our services on these projects include preliminary geotechnical engineering, monitoring of instrumentation, project management planning and construction monitoring. The upcoming year appears to have more exciting work on the horizon with projects such as the construction of the Maple Leaf Reservoir.

Associated Earth Sciences, Inc.

AESI would like to wish everyone a happy New Year! 2008 was an exciting year with our usual mix of residential development, schools projects, commercial development, and infrastructure work.

At the Kirkland office, there were several exciting things to share. We were happy to welcome aboard Michael August as our GIS specialist. Ryan Tuomisto has moved into a vital marketing and business development role. Matt Miller has hit the road with a presentation titled, “Case Study Review and Construction Methods for Permeable Pavement, Lakewood Crossing, Marysville, Washington,” as part of an LID technical workshop series sponsored by the WSU Pierce County Extension and the Puget Sound Partnership. This has already been given in Sequim and Bellingham in 2008, but you can still catch them in Lacey and Seattle in 2009. Curtis Koger and Scott Kindred have also been able to meet numerous clients for brownbag sessions on UIC wells and other LID techniques.

Our Everett office continues its excellent service on the north end, with Chuck Lindsay at the helm. Erin Nishikawa has stepped up to the plate and become the SMPS Secretary for 2008-2009. Ed Garcia is serving as the Vice President for the Professional Consultants of Snohomish County (PCSC), who has been helping Snohomish County EDDS streamline their changes to the deviation process.

Our Tacoma office has flourished under the guidance of Maire Thornton, with a good mix of private and public projects. The south-end crew have gone the extra mile for our south-end and beyond clients. We also welcomed aboard Milana Michalek to the Tacoma office in 2008.

Notable AESI projects in 2008 include the Restaurant Depot project in South Seattle that included installation of over 2,039 rammed aggregate piers in high groundwater using the Geopier’s Impact System; the Coast Crane project in South Seattle that used 273 driven steel piles over 100 feet long; and the West 8th Building that included 70-foot-deep shoring.
Associated Earth Sciences, Inc. (Continued)

Looking forward to 2009, we see new challenges with the shifting economy and sidelining of projects. Hopefully, we can all shake this off like we do with the mud on our boots. AESI wishes all of the engineering, geology, and environmental community lots of success in 2009!

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Holocene Drilling, Inc.

Co-Owners Jay Graham and Clay Griffith spent the better part of 2008 responding to client requests for additional rigs and service lines. Highlights include the relocation of Holocene’s corporate offices and operations yard to a larger facility in Edgewood, WA, all accomplished in less than two weeks during our busiest period. An Environmental Services Division was also launched that includes HAZWOPER trained crews, decontamination equipment, and a Geoprobe® 7720 DT Track Mounted Direct Push Rig.

Several key business opportunities included the purchase of a Bucyrus-Erie 22W Truck Mounted Cable Tool Drill for production water well drilling. Several key hires helped to expand the depth of our licensed Driller pool and experience from which to draw. With the addition of cable tool drilling, a Water Well Services Division was born. Jay Graham’s design and fabrication of a specialized Construction Dewatering Well Jetting System used in the installation of dewatering well points led Holocene into the Construction Dewatering market. Holocene continues to bring new and innovative solutions to the geotechnical arena.
Holocene completed work on major area geotechnical projects, both on-shore and off-shore, in Bangor on the Explosives Handling Wharf No. 2 and the Transit Systems Protection Facility. We also completed major projects at the Port of Tacoma including the East Blair Waterway and Road and Rail Infrastructure Improvements. Work on a major 230 kV power line project was also completed for a major client.

The **DOE Start Card and Reporting Criteria** continues to be a fine administrative balance between scheduling and meeting the 3-day reporting requirements. We’d be remiss if we didn’t mention the efforts of **Donna Thrall, Project Coordinator**, who has almost single-handedly developed a method to all this madness. Her effort in communicating with our clients and our drillers also keeps Holocene in good graces with DOE. **Jay Graham** continues to serve as a **Technical Advisory Group (TAG)** member for DOE.

Finally, we offer our thanks to our clients for their confidence and trust in our abilities. As we look forward, we wish you a successful 2009. We want to remain an integral part of the drilling value you offer to each of your clients.

Holocene Drilling, Inc. was established in 1996. We offer core drilling services in Geotechnical, Environmental, Geoprobe®, Water Well, and Construction Dewatering. Holocene’s staff of 18 operates 8 rigs throughout Washington State. For additional information, please visit [www.holocenedrillinginc.com](http://www.holocenedrillinginc.com).

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**Hart Crowser**

We have settled (no pun intended) into our new office following our September 2007 move. We are located in the Lake Union Building at 1700 Westlake Avenue, a few blocks north of the AGC Building. This pile-supported building extends over the water and offers spectacular views of Gasworks Park, the downtown skyline, and Lake Union. Staff engineers have the best views with their desks along the east windows overlooking the water with senior engineers’ offices along the north and south sides of the building. Headquartered in Seattle, Hart Crowser also has offices in Portland and Edmonds.

We continue to be involved in a number of challenging, high-profile projects throughout the Puget Sound area, including SeaTac’s Third Runway, now open for business. Our involvement included design work for the 135-foot high MSE wall – the highest MSE wall in the Western Hemisphere. Select project profiles are included on our updated website ([www.hartcrowser.com](http://www.hartcrowser.com)).
Hart Crowser (Continued)

Some of our other projects from 2008 include:
- 5th & Columbia (40-story office tower with 100-foot-deep excavation)
- Cement Deep Soil Mixing Excavation and Office Building in Pioneer Square
- Children’s Hospital Expansion
- Various South Lake Union Development Projects
- Bellevue Place/Hyatt Expansion (deep excavation and hotel tower)
- Highline Hospital Expansion in Burien
- Port of Seattle - Terminal 30 Rehabilitation for Container Operations
- Port of Seattle - Terminal 91 Cruise Ship Building
- Port of Tacoma - East Blair 3: Pier, Nearshore Fill, and Upland Development
- Puget Sound Naval Shipyard - Aircraft Carrier Pier
- WSDOT - State Route 519
- The Summit - High-rise Tower in Bellevue
- Sammamish Town Center

Our senior geotechnical engineers continue to play key roles in the corporate leadership of the company. Mike Bailey is our CEO, Jeff Wagner is our Seattle Office Manager, Garry Horvitz is on the Board of Directors, and Wayne Adams is our Edmonds Office Manager.

Staff highlights include: Barry Chen presenting on deep foundations at a WABO short course and Doug Lindquist presenting on dynamic modeling of the tallest Third Runway MSE Wall at GIGSS IV. 2008 was a year of growth for the geotechnical group with the addition of Kunal Shah (University of Oklahoma), Christiana Lupulescu (University of Texas), Matt Veenstra (a new PE from Iowa State University with consulting experience in Bellingham), and Madan Karkee (PhD from Tohoku University in Japan with consulting experience in Japan, Canada, and USA).

HWA GeoSciences Inc.

In 2008, HWA GeoSciences Inc. had another excellent year, with many interesting and challenging local and international projects. Entering our fourth decade in business, we are optimistic about our work in 2009 and the future. Our focus at HWA continues to be provision of excellent professional geotechnical engineering, geo-environmental services, and construction materials testing and inspection. Additional to being consummate professionals, we are rock climbers, marathon runners, woodworkers, skiers, cyclists, dancers, and just regular folks who enjoy coming to work every day.

This year, Gary Harshman and Harold Benny joined us. Gary is our senior environmental planning expert; he brings over 25 years of local environmental permitting experience to HWA’s services. Harold is our geotechnical laboratory manager and also brings in excess of 20 years of experience to his position. HWA continues to operate what we consider the region’s finest geotechnical engineering laboratory. In 2009, we are adding resilient modulus (Mr), cyclic triaxial, constant strain rate triaxial, and K0 testing services for our internal projects and for our external clients.
HWA GeoSciences Inc. (Continued)

Over the summer, Ben Blanchette, joined us as an Engineering Intern. Ben is now back at the UW pursuing his Master’s degree in geotechnical engineering. We hope to have him return to HWA after he completes his graduate studies!

As geotechnical engineers on King County’s Brightwater Marine Outfall Design-Build Team, led by Triton Marine Construction, we assisted Triton with geotechnical issues associated with the installation of the marine outfall pipe. The culmination of this effort was the recent deployment of two 4,500 foot long, 63-inch diameter, HDPE pipes in 650-foot deep waters of Puget Sound. We were there, and it was very cool!

Up in Everett, HWA has been busily assisting the City of Everett with the Riverfront Development at 41st Street along the Snohomish River. The first of several phases of development started this past summer, with the placement of about 400,000 cubic yards of structural and surcharge fill over the old Everett Landfill. HWA is currently monitoring settlements of this surcharge, and we’re assisting the design team with plans and specs for the second phase of the project, which will be constructed in the summer of 2009. As of December 2008, settlements of over 5 feet have been monitored. HWA is a regional expert in the post-closure development of landfills.

It was also a busy year for international assignments in 2008. HWA is providing geotechnical engineering services for three new U.S. Embassies in Tijuana, Sarajevo, and Djoubiti. We enjoy the unique geotechnical challenges these design-build projects bring.

To close, we wish you and your families happy holidays and a prosperous new year. For more information about HWA, please visit our web site at www.hwageo.com, or contact Erik Andersen at 425.774.0106.
Jacobs Associates

This was a year of milestones for Jacobs Associates: after five years in the Colman Building, we relocated to larger offices in Watermark Tower on First Avenue to keep pace with company expansion. We achieved key objectives for the year on our major local projects: Sound Transit’s University Link (U-Link) light rail extension, where Jacobs Associates is responsible for project management, design, and geotechnical engineering; and King County’s Brightwater Conveyance System, where the firm is currently providing engineering services during construction.

On the Brightwater project, after approximately 13 months of mining, “Luminita”, the earth pressure balance tunnel boring machine, finished her drive on November 15th—the first of four tunnels to be constructed for the project. The finished tunnel is 13,873 feet in length, with an excavated diameter of over 19 feet. Another tunnel boring machine, “Elizabeth”, started work on the Western portion of the project this year near the outfall to Puget Sound.

Three of the eight U-Link contracts completed final design in 2008 and went out for bids, garnering a high level of response. Most recently, two construction contracts associated with the light rail extension resulted in six bids with the apparent low bid below the Engineer’s estimate. U-link consists of 3.15-mile-long, twin bored, soft ground tunnels servicing two below-grade, cut-and-cover stations linking the University of Washington with downtown Seattle.

Jacobs Associates had several promotions and key hires in 2008. Three Seattle-based engineers were promoted to Associate:

- **Jeremy Johnson, PE**, who is currently working on several projects for the firm, including the East Contract of the Brightwater Conveyance project;
- **Carol Ravano, PE**, who played leading design roles on major railroad tunnel clearance improvement projects, including a series of Union Pacific Railroad tunnels along I-5, and Norfolk Southern’s 531-mile-long Heartland Corridor project; and
- **Sam Swartz, PE**, who managed the U211 demolition and environmental remediation contract on U-Link, which is currently under construction.

For over 50 years Jacobs Associates has provided engineering and construction management of tunnel and underground projects, as well as construction claims and dispute resolution services. More information on our involvement in the Pacific Northwest can be found at [www.jacobssf.com](http://www.jacobssf.com).

ZZZ-Terracon

The Washington and Oregon offices of Zipper Zeman Associates, Inc. have changed our name to Terracon, effective January 1, 2009, and will no longer do business under the ZZA name. We have all learned a lot since we joined Terracon in 2005, and we are excited about the opportunities for professional growth and advancement that Terracon’s nationwide network of over 100 offices brings to our staff, as well as the marketing and workload opportunities that this brings to the Northwest offices.

The Idaho, Oregon and Washington offices increased our geotechnical engineering workload over 2007, with the increase occurring mainly in transportation, utility, and other municipal work. A number of recent
ZZZ-Terracon (Continued)

graduates in both engineering and geology have joined the team, and we have also borrowed some engineers from other parts of the country.

Across the Northwest, we are doing a good mix of private and public sector work. Some of the major public sector projects involved slope stabilization, utility corridor geotechnical and environmental assessments, major and local transportation projects, critical areas reviews, and retaining wall designs. We have won a number of on call contracts for 2009 and are continuing to expand our capabilities across the region.

Some of the highlights included:

- **Jim Thompson** was involved with roadway and bridge projects in Canada during the early part of 2008, and is looking forward to more local and Canada work;
- **Kris Weller** joined our Bellevue office as Office Manager and has expanded our capability;
- **Tim Roberts** expanded the geotechnical laboratory and increased the capability of the Tacoma office to include materials testing services;
- **Dave Baska** provided seismic consultation on several large transportation projects in Salt Lake City, and has become very involved nationwide within Terracon as a technical leader;
- **Kris Hauck** in our Portland office became very involved with several large wind energy projects;
- **Al Zeman** continues to provide consultation for Nordstrom stores nationwide, working from his base in Cave Creek, Arizona.

All in all, 2009 looks like a challenging year. We are hopeful that infrastructure funding will improve, and hopefully by “Groundhog press time” we will have a clearer picture of the road ahead.

CH2M HILL

CH2M HILL welcomed **Dr. Seungcheol “Sean” Shin** to our Bellevue office in June. Sean, who spent 3 years working with GeoEngineers, obtained his PhD from The University of Michigan. He has a strong background in soil dynamics and numerical modeling.

**Dr. King Sampaco** continues to serve as Geotechnical Operations Leader for the Bellevue, Portland, and Corvallis Offices. King is also geotechnical manager for various projects, including the $1 billion *Golden Ears Bridge DBFO* project in British Columbia. Our involvement on the Golden Ears project included design and field support for the Unnamed Creek Bridge. This work involved construction of a bridge across a 55-year old gas pipeline and bridge abutment piles founded on soft and marginally-stable clay slopes. Field instrumentation during pile installation included vibration, slope movement and pore pressure monitoring.

CH2M HILL is also providing geotechnical design support for WSDOT’s *I-5 Tacoma HOV* project. Our work included subsurface explorations, preliminary design of tied-back and soil nail walls, foundation design for replacement and widened bridges, site response analysis using DMOD, and ground improvement evaluations. **Karen Dawson** serves as the geotechnical manager; various Bellevue staff (**Roch Player, Dr. Ha Pham, Michel Bouchedid, Todd Valentine, Kim Mugg, Dr. Mark Thompson**, and Sean) are supporting the project.
Following are other highlights of our group:

- Roch focused on Design/Build projects. He oversaw completion of the I-5 Everett HOV project and led our geotechnical efforts for other WSDOT D/B pursuits.
- Michel served as the field task manager for Tacoma HOV project and is currently the Education Chair of the ASCE Seattle Section Geotechnical Group.
- Jen Schaeffer provided support to the Nuclear Business Group projects for Progress Energy in North Carolina and Florida.
- Kim returned in January after completing her 3-month stint in the United Arab Emirates working on the Abu Dhabi Sewage Tunnel project.
- Sandra McGinnis is currently on a 2-year leave in Australia but is expected to return in 2010.

Our senior staff, Dr. Don Anderson and Ken Green, served as senior consultants and mentors to our local staff. Don was active in two seismic code efforts and presented papers based on his NCHRP Project 12-70 at GEESD IV conference and the 6th National Seismic Conference on Bridges. Ken has been busy leading various projects, including the Mason County wastewater treatment plant, the Buckland (Alaska) intake system, and roadway widening projects for the City of Newcastle and Federal Way.

MWH

MWH has had a busy year in 2008 and we look forward to a successful and fun filled 2009 for our clients, team partners, and our employees. The Bellevue, Portland and Vancouver, B.C. offices are busy under the respective direction of Howard Lee, Wade Hathhorn, and Nik Argirov.

MWH continued to provide engineering support during construction for the Brightwater Conveyance project for King County as part of the MWH-Jacobs Associates joint venture. William Cranston and Joe Clare are leading this effort. Congratulations are in order for King County and the Kenny, Shea, Traylor Joint Venture on the recent completion of the excavation of the 14,000 foot long East Tunnel. Tunnel mining continues on the Central and West Tunnel Contracts with over 35,000 feet left to be mined. Other notable projects include:

- San Vincente Dam Raise project in California lead by Dave Thompson and Greg Rollins. This project will be the highest gravity dam raise in North America.
- Brandt Barnes, Jay Cooke and Greg Harris provided the Construction Management of Everett Water Transmission Lines 2 & 3 Phase 6 project. A cut and cover construction that include a pile trestle for waterline support.
- Greg Harris manages the Tulalip Water Pipeline Project which comprises up to four HDD crossings of waterways north of Everett.
- Mark Graham manages the Madison Long Term Storage project and the completion of the Reservoir Burying Project for Seattle Public Utilities.
- Mike Bruen has been enjoying the sun in Las Vegas with the design of the SCOP Boulder Islands Outfall and Reach 3 Tunnel projects and the construction of Lake Mead Intake #3, a Design Build intake tunnel currently under construction (Impregilio) that may encounter external water pressures up to 17 bar. Additional conventional construction contracts include a connecting tunnel (Barnard Construction) and a deep underground pump station to ensure a consistent water supply for the Las Vegas Valley.
MWH (Continued)

- Mike Bruen finds himself occasionally abroad having worked on the Design Build proposal for the 1,000 MW Tehri Pump Storage Project, India, that include numerous underground caverns, large diameter surge shafts and tunnels.
- In Alaska, the Lake Dorothy Hydroelectric project continued with completion of the tunnel and valve installation in 2008. Dam building will proceed in 2009 with Ruark Dreher and Dave Thompson as MWH leads.
- In California, the Big Tujunga Dam undergoing a seismic upgrade with Paul Richards on site and Greg Rollins managing the foundation excavation and treatment.

Locally, Doug Lane is leading MWH’s sponsorship of Water for People, an AWWA charity, and an active volunteer in organizing the annual fundraising event. We wish everyone a safe and prosperous 2009.

DBM Contractors, Inc.

Happy New Year to the members and their families associated with the ASCE Geotechnical Group. We hope that this article finds everyone in good health. Given the national economic and political climate, 2008 proved to be a bit more challenging than recent years past. However, these challenges have brought on many exciting and new opportunities.

DBM is proud to announce two new and improved geotechnical services for our project partners: Ground Improvement and Dewatering.

- **Ground Improvement** – DBM has developed a joint-venture relationship with Pennine, a subsidiary to Balfour Beatty Ground Engineering. With this joint venture in place, our technical and construction capacities associated with ground improvement projects has increased exponentially. Pennine brings more than two decades of design and construction experience to this exciting industry and with DBM’s current business relationships and experience in the western United States, we anticipate this business venture to be very fruitful and prosperous. Our contact for ground improvement projects is Robert Carnevale.

- **Dewatering** – As many of you may know, DBM has been involved with the drilling activities associated with dewatering work for many years. In 2008, however, DBM “took the plunge” and hired a licensed Well Driller. We also restructured a portion of our operations group so that we could start actively pursuing and managing dewatering projects. For projects that include both dewatering and earth retention, this is a natural marriage. Colleen Weston is coordinating our dewatering activities from our Federal Way office.

Despite the slower economy, DBM was able to sustain a wide variety of projects. In Washington, DBM was involved with private developments such as 8th & Virginia and the Microsoft West Garage Expansion. Regarding medical facilities, DBM was involved with Highline Hospital’s Birch Wing Expansion Project and the Good Samaritan Hospital Expansion Project. Public Works projects included the SR8 Emergency Slide Repair, the Green River Bridge Emergency Slide Repair, the I-90 Rockfall Protection project, and the Port of Seattle’s Rental Car Facility.
DBM Contractors, Inc. (Continued)

In California, our offices in San Jose and San Diego continue to pursue and manage work throughout the southwestern United States. Some of these projects included the US101 Micropile Emergency Repair (for CALTRANS) north of Eureka and the Lone Bluff Slide Repair in San Diego County.

DBM was proud to receive the 2008 AZDOT Partnering Excellence Award for our involvement with the Banjo Bill Rock Containment Project in Sedona, Arizona. As the General Contractor for the project, DBM self performed work associated with the micropiles, permanent tieback anchors, structural shotcrete, and excavation. Architectural shotcrete, new vegetation and miscellaneous road repairs were performed by subcontractors under the direction of DBM.

As in the past, DBM continues to be active in the advancement of the geotechnical construction industry through our participation in the ADSC, DFI and ASCE. We want to thank all of our project partners for a successful 2008 and wish you all a safe and prosperous 2009!
Valentine Engineering Associates, Inc.

Valentine Engineering Associates, Inc. is a geotechnical engineering firm specializing in retaining wall design. We are new to the Washington Geotech Community. Last summer we moved our office from Alexandria, Virginia to Walla Walla.

Our focus is the design of retaining wall. These include traditional semi-gravity walls, MSE structures and top down construction using cantilevered piles, soil nails and active tie-back anchors. The bulk of our work consists of the design of modular block MSE walls with geogrid reinforcement. We work throughout the United States and Canada.

Principal Engineer Richard J. Valentine established the firm in 1998. Rick has extensive experience in the design of retaining walls. He started his career working for Law Engineering then went to Amoco Fabrics and Fibers. He has participated in the reviews of the FHWA and NCMA manuals for MSE wall design.

Until recently the VEA has been a one man show. VEA is happy to announce that we have hired Todd H. LaVielle, EIT. Todd is a Seattle native; after finishing his undergrad at The University of Washington he worked locally for 2 years before going back to school at Virginia Tech.

We look forward to becoming more active in the Geotechnical community here in Washington.

Shannon & Wilson

New Hires
Shannon & Wilson had a very busy and successful 2008. The following technical staff were hired in 2008: Richard Reis, Vice President, Li Ma, Hydrogeologist; Matthew Gibson, Armin Stuedlein, William Chao, Kyle Guenther, Cora Johnson, all Geotechnical Engineers; David Randall, Environmental Scientist, and Meredith Gerhardt, GIS Analyst.

Promotions
The following technical staff were promoted effective 2009:
- Mike Kucker, Katie Walter - Vice President
- Martin Page, Bill Perkins, Hisham Sarieddine - Senior Associate
- Neal McCulloch, Bob Mitchell - Associate
- Ghada Ellithy, Agnes Tirao, David Ward - Senior Principal Geotechnical Engineer

Acquisitions
In 2008 Shannon & Wilson acquired Van Beveren & Butelo, a Los Angeles geotechnical engineering firm. The acquisition expands Shannon & Wilson’s geographic reach into southern California. Van Beveren & Butelo specializes in geotechnical engineering for private and public development projects. With the additional expertise of Shannon & Wilson, new markets will include the transportation and waterfront sectors.

Awards
ACEC of Washington Engineering Excellence Awards
Shannon & Wilson received Silver Award for “Future Value to the Engineering Profession and Perception of the Public” for the Des Moines Creek Regional Detention Facility, Arsenic Containment, SeaTac, WA. Our client was King County.
Shannon & Wilson (Continued)

SAME Seattle Post 12th Annual Design Excellence Awards
INCA Engineers with Shannon & Wilson won a Gold Award in the large business category for the Howard Hansen Dam project to increase capacity and provide fish passage and habitat protection.

Projects
Notable projects from the past year included:
- Work on several General Engineering Consultant contracts for the Washington State Department of Transportation, including the SR-520 Bridge replacement.
- Several task orders under our HTRW environmental contract with the Seattle District Corps of Engineers.
- Geotechnical services for Rich Road, Old 99 Bridge Replacement, and Martin Way Pedestrian Overpass for Thurston County.
- Geotechnical engineering services for the UW Medical Expansion project.
- Geotechnical and environmental tasks for the I-405 (I-5 to SR 169) Design Build Expansion.
- Emergency response services for stabilizing the Frazier Landslide near Oakridge, OR for the Union Pacific Railroad.

Over 150 people attended the annual Wilson Lecture, co-sponsored by the University of Washington’s Civil and Environmental Engineering Department. James K. Mitchell, ScD, PE presented his lecture “Ground Improvement for Mitigation of Seismic Risk to Embankment Dams”.

AMEC Earth & Environmental, Inc.

Two exciting events happened in 2008: Geomatrix merged with AMEC and became AMEC Geomatrix adding significant experience in geotechnical, environmental and water related disciplines. In 2009, AMEC Geomatrix will become fully integrated into AMEC Earth & Environmental and fully adopt the AMEC name. In the fall, after nearly 17 years in Kirkland, AMEC moved to new offices in Bothell.

The AMEC Geotechnical Group had a very successful 2008 with a variety of new and ongoing projects including waterfront developments, community colleges and K-12 schools, and transportation and infrastructure projects. We look forward to another busy year in 2009.

Jess Abed led our geotechnical group for another successful year, focusing on business management and marketing. Carlo Evangelisti, Henry Brenniman, Pat Reed, Konrad Moeller, and Jerry Ladd started the year by traveling to Canada to support our Calgary office with several oil sand projects in northern Alberta. Much of this work continued throughout the year. Henry, Konrad, and Lisa Erickson also supported our office in Vancouver by spending a large part of the summer working on the Galore Creek mine project in northern British Columbia.

Principal Jim Dransfield continues to manage the geotechnical phase for a large waterfront hotel resort complex in Puerto Rico that kicked off in early 2007 that sent Bill Lockard, along with Jerry Ladd and Lisa Erickson to supervise and support the fieldwork and drilling operations. Our Seattle office is teaming with AMEC offices from around the country to provide geotechnical and environmental services and construction management for this project.
AMEC Earth & Environmental, Inc. (Continued)

Steve Siebert and Todd Wentworth were promoted to Associate this year. Todd has been working for local school districts, municipalities, and private developers on projects related to new buildings, retaining walls, landslides, and roadways. He has been enjoying commuting by bike to the office along the Sammamish River Trail a couple of times a week. Steve managed the geotechnical design for a casino and hotel resort in the US Virgin Islands, provided third party review for developments in critical areas in the Puget Sound area, and continues to manage multiple ongoing commercial and retail projects at Issaquah Highlands.

Minjae Park joined us in 2008, having recently graduated with a degree in engineering from Purdue University. Minjae has been busy working with all of our engineers on a wide variety projects, gaining valuable experience both in and out of the office. Maan Sabagh also joined us in 2008, coming from our office in British Columbia, bringing with him experience in transportation projects and pavement design. Maan has been busy working with our Canadian offices on transportation and oil sands projects. Ben Clawson joined our staff late in 2008, after working for several years at Krazan and is finishing the year in Canada supporting our oil sands projects.
GeoSphere LLC

GeoSphere LLC is the geotechnical and geo-environmental consulting firm operated by Henry G. (Hank) Landau PE, Ph.D., Hank is the “semi retired” founder of Landau Associates and has over 35 years experience in engineering design, construction and education. GeoSphere provides consulting services to private businesses, law firms and federal, state and local governments. Given the difficult conditions faced by many at this time, all fees above taxes paid to Geosphere LLC in 2009 will be donated to the Red Cross or environmental causes.

Geopier Northwest Inc

Geopier Northwest had another successful year in 2008 and provided Intermediate Foundation Systems on many projects in the Puget Sound area. We have worked closely with most of the geotechnical engineering firms and appreciate your support and confidence.

We have continued to complete major projects in the Northwest using the Impact Pier technology. The Impact Pier system is a “displacement” technology and enables the construction of highly compacted, stiff pier elements without the use of drilled holes. The approach is well suited on sites with deep alluvial soils and high groundwater levels. Installation depths of up to 40-feet are feasible. The stiff pier elements provide foundation support and can be used to mitigate liquefaction in sandy silts and silty sands that cannot be densified with stone columns.
Soil reinforcement using the Impact Pier technology was completed on the following projects in 2008.

- Puyallup City Hall and Parking Structure, Puyallup, Washington – PanGeo Inc
- Restaurant Depot, Seattle, Washington – Associated Earth Sciences
- Waterford Condominiums, Richland, Washington – Shannon & Wilson
- Shoreline Civic Center, Shoreline, Washington – Terra Associates
- Emerald Queen Casino Expansion and Parking Deck, Fife, Washington – GeoEngineers
- Medical Office Building and Parking Deck, Auburn, Washington – PanGeo Inc
- Squalicum Creek Medical Facility, Bellingham, Washington - GeoEngineers

Conventional Geopier soil reinforcement systems were completed on the Navy P-305 BEQ Parking Deck project in Bremerton (Shannon & Wilson), the Bellevue BMW Expansion (Earth Solutions NW), Olympic College Humanities (Hart Crowser) and the Park Apartments in Portland (Terra Associates). Our crews are currently installing Rampact pier elements for foundation and floor slab support for a new Wal-Mart in Yakima, Washington.

Geopier Foundation Company recently completed the HITEC (Highway Innovative Technology Evaluation Center) evaluation. The Geopier system is the only ground improvement system that has completed the HITEC review.

Geopier continues to host workshops in Scottsdale, Arizona on a quarterly basis for our geotechnical clients. Please contact us if you are interested in attending.

We look forward to our continued relationships with our geotechnical clients and a prosperous 2009.

Pacific Geo Engineering, LLC

Pacific Geo Engineering, LLC (PGE) is a minority owned and small disadvantage business enterprise (MBE/DBE), dedicated to solving wide range of complex geotechnical challenges in Washington State and greater Puget Sound area for virtually all types of projects. Since 2003, PGE has built a reputation of providing reliable and high quality geotechnical engineering services and construction supervision on time and on budget. PGE takes pride in the fact that through such strength and qualities several large and complex geotechnical projects in environmentally critical areas of greater Puget Sound have been completed very successfully in recent years. Our geotechnical personnel possess extensive experience and expertise in all phases of geotechnical engineering that includes project management, contract negotiation, resource management, engineering analyses and design, technical evaluation, computer application, field and laboratory testing, and construction monitoring and quality control (QC/QA). Our technical expertise in the geotechnical field includes but not limited to site & material characterization, subsurface explorations, soil testing, specialized geotechnical inspection and monitoring, environmentally critical area evaluation, geologic hazards evaluation, slope stability analyses and slope stabilization techniques, seismic hazard and liquefaction evaluation and seismic mitigation, geotechnical instrumentation, shallow and deep foundation, excavation supporting system, shoring system, earth retaining structures, preloading and settlement, erosion control measures, dynamic compaction and ground improvement techniques, soil stabilization, infiltration potential evaluation, existing foundation stabilization and underpinning,
Pacific Geo Engineering, LLC (Continued)

pavement design and road subgrade improvement, LID projects, to name a few. PGE provides a complete range of the above services to meet the project demands of private industry, governmental agencies, developers, architects, and engineers. PGE works with a wide rage of clients representing our clients’ interest and maximizing project value.

Some of the large and complex projects that are completed successfully by PGE in the recent years in the Puget Sound area are Cooper Crest subdivision in Olympia where slope failure analysis and slope stabilization were accomplished, Henderson Ridge development in Olympia where a MSE wall of approximately 400 feet long and 22 feet high was designed with slope stability analysis. Full-time geotechnical inspection services were provided for all of these projects. Also, a very comprehensive geotechnical study was performed for the proposed Northshore Golf Course development in Federal way, and full-time testing and inspection services were provided for the 92nd Avenue Sewer Line in Puyallup.

Landau Associates, Inc.

The geotechnical group has been very busy last year, working on very exciting projects. We welcomed Birkan Bayrak, Ph.D., Senior Staff Engineer, and Yi-Min Huang, Ph.D., Senior Staff Engineer.

Ed Heavey, P.E., has been busy with projects for the Cities of Olympia and Tacoma, Pierce County, and the Port of Tacoma. He is also leading our work for the Road/Rail/Infrastructure portion of the Port of Tacoma’s Blair Hylebos Peninsula Redevelopment Project.

Reda Mikhail, P.E., is continuing to manage our work for a WSDOT waterfront facility and projects including challenging projects for transmission lines, and the Road/Rail/Infrastructure portion of the Port of Tacoma’s Blair Hylebos Peninsula Redevelopment project.

Dave Pischer, P.E., continues working on a variety of waterfront redevelopment projects for local ports and cities, including environmental management portions of the Road/Rail/Infrastructure project for the Port of Tacoma’s Blair Hylebos Peninsula Redevelopment project, in addition to other diverse site development and environmental remediation projects in Washington and Oregon.

Dennis Stettler, P.E., has been managing projects including the proposed Edmonds Crossing ferry terminal, the I-5 Martha Lake Gateway sewer project, dike and wetland construction near Everett, and continuing consultation for the Brightwater marine outfall pipeline. He has also been working with our team on the Port of Tacoma’s Blair Hylebos Peninsula Redevelopment project and the WSDOT waterfront facility.

Colin Turnbull, L.E.G., manages a variety of projects including the North Creek Interceptor Pipeline project, and various residential/commercial site development projects, the I-5 Martha Lake Gateway sewer project, and the First United Methodist Church in downtown Seattle.

Steve Wright, P.E., has been busy with a number of projects for the counties of Snohomish and King, including managing our work for the Ballard Siphon Replacement project. Steve also continues working on a variety of infrastructure improvement projects for Washington State Parks and many local municipalities, airports, and public utility districts.
Landau Associates, Inc. (Continued)

Steve and Colin have also started to expand our presence on the east side of the Cascade Mountains with work in Chelan and Douglas Counties.

Robert Middour, L.H.G., has joined Landau Associates water resources practice and has been actively working with the geotechnical group on construction dewatering projects, including the WSDOT waterfront facility. Robert also presented at the ASCE Seattle Section Geotechnical Group’s Fall Short Course on Dewatering.

Other notable achievements of the past year include Jonathan Brown, P.E., presenting on the Skaglund Hill Landslide at the Seattle Geotechnical Group’s Spring Seminar, and acting as the ASCE Seattle Section Geotechnical Group’s Treasurer. Congratulations also go out to Jonathan for obtaining his P.E. license.

Looking ahead, we continue to work on challenging projects and seek to add outstanding staff. We encourage you to contact us in our Edmonds, Tacoma, Spokane, or Portland offices and visit our website at www.landauinc.com.

Aspect Consulting, LLC

2008 was a year of geotechnical group growth at Aspect Consulting. Building on our core group of geotechnical engineers and engineering geologists we added staff in both our Bainbridge and Seattle offices: geotechnical engineers Todd Parkington, Henry Haselton, and Alexandra Proszek; and geologists Annaliese Eipert and Amy Tice. Aspect also expanded geographically, opening a Wenatchee office headed by geologist Bill Sullivan.

In the Seattle area, our biggest push was completion of the geologic and hydrogeologic investigations and design reports for the tunnels and stations of Sound Transit’s University Link Light Rail project. We’ve also taken on a number of projects on the Seattle Center campus including drainage investigation at Key Arena, redevelopment of Broad Street Green and Theatre Commons. In addition, we provided geotechnical support to SDOT on upgrade of the Fairview Avenue Bridges in the South Lake Union neighborhood and evaluated leakage in the spillway tunnel at the Tolt Dam for SPU. In 2009, we look forward to working with Seattle City Light on multiple projects including the Gorge Second Tunnel Design (with the Jacobs Associates team), entrance modifications at the South Service Center, and arising on-call projects at powerhouse facilities.

In the west Sound, we continued to be busy providing geotechnical engineering and geologic investigations for slope stability, shorelines, and liquefaction potential sites; and public works road and water/wastewater projects. Highlights included geotechnical engineering support at Bainbridge Island landfill and for the island’s Point Monroe Sewer LID project; geotechnical investigation and design for Kitsap County’s Fragaria Road shoulder stabilization; and geotechnical support for an infiltration project at Ridgetop Boulevard in Kitsap County.
Aspect Consulting, LLC (Continued)

Staff experienced professional growth as well. Henry Haselton took on leadership of the geotechnical team as well as responsibility for junior technical staff firmwide. Henry also participated in developing a formal mentoring program in the firm. Dave McCormack will be speaking on the hydrogeologic investigation for the Brightwater Conveyance project at the Washington Hydrogeology Symposium in April. Dave is also serving as one of the first mentors in the firm’s newly established program. John Peterson was promoted to Senior Associate.

Finally, Aspect saw continued growth in team spirit through firm-sponsored activities from the annual ski day at Crystal Mountain to the firm’s first year of participation in the Commute Challenge in May. Over half the firm – and nearly all the geotechnical group staff - biked to work, logging 1800 miles and earning Aspect bike jerseys for their efforts.

GeoEngineers, Inc.

GeoEngineers is ringing in the New Year with exciting projects, new hires and continued company growth. In 2008, the company acquired DCM Engineering of Walnut Creek, California. The acquisition expands GeoEngineers’ horizontal directional drilling (HDD) and trenchless design capabilities and brings our number of employees to nearly 400. Trenchless Technology magazine recently ranked GeoEngineers number 18 in its survey of the nation’s Top 50 Trenchless Design Firms.

Despite rapid growth, GeoEngineers keeps its company values at the forefront and remains a desired place to work. The Tacoma office was recently honored with the NW Jobs.com’s People’s Pick Award for Best Pierce County Employer.

Our staff is finding great opportunities for innovative design and professional growth through projects both near and far. Our Puget Sound engineers are currently working on projects around the country and right here in the Puget Sound region, including the East Blair One Terminal for the Port of Tacoma, the Everett Riverfront mixed-use development for Oliver McMillan, the Bill & Melinda Gates Foundation campus and the I-405 widening project in Bellevue. Our work has also taken us overseas on projects in Peru, Vietnam, Ghana, Panama and Chile.

GeoEngineers is proud to announce the following promotions for Puget Sound geotechnical engineers in 2008: Timothy Bailey, Project 2 (Redmond); King Chin, Senior 2 (Redmond); Daniel Ciani, Staff 3 (Redmond); Wenbin He, Staff 2 (Everett); Christopher Kokesh, Staff 3 (Redmond); Calvin McCaughan, Project 1 (Tacoma); Byoungjae Mun, Project 1 (Seattle); David Phelps, Associate (Tacoma); Sarah Ramsey, Project 1 (Seattle); and Lyle Stone, Staff 3 (Tacoma).

GeoEngineers expanded its geotechnical staff in 2008 with the following hires: Mackenzie Hanks, Staff 1 (Tacoma); Ryan Maw, Staff 1 (Redmond); James Miller, Staff 2 (Redmond); Nicholas Szot, Staff 2 (Seattle); and Whitney Trent, Staff 2 (Seattle).

Finally, we are proud of Eric Heller, PE, LG, (Tacoma) and Bo McFadden, PE, LEG, (Seattle) for fulfilling their roles as ASCE Seattle Section Geotechnical Group President and Membership Chair, respectively, in 2008.
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If you are interested in submitting an article or advertisement in future publications, please contact the 2009-2010 Secretary or Sarah Morgan at smorgan@golder.com.

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