The Groundhog is the official newsletter of the ASCE Seattle Section Geotechnical Group. It is published in late January or early February each year. Submissions for this document were solicited from members of the Seattle Section Geotechnical Group. ASCE and the Seattle Section Geotechnical Group are not responsible for statements made or opinions expressed in this document. This issue of the Groundhog was prepared and edited by the current Secretary of the Seattle Section Geotech Group.
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2008 SCHEDULE OF EVENTS

Dinner Meeting –Dr. Jonathan Fannin, P.Eng. - Univ. of British Columbia  Feb. 21
"From Theory to Practice in Filter Design"

Short Course “Slope Stability Analysis”  Apr. 4

Spring Seminar “Development & Risk in Landslide Sensitive Areas”  Apr. 5

Field Trip -505 1st Ave Project  TBA

Dinner Meeting -Armin Stuedlein, M.S. - Hart Crowser  Apr. 24
"Instrumentation and Performance of 3rd Runway MSE Walls"

Dinner Meeting - CH2M Hill - King Sampaco, Ph.D., P.E.,  May 22
Ha T. Pham, Ph.D. and Don Anderson, Ph.D., P.E.
"The Golden Ears Bridge Design-Build Project: Foundation Design"
From the President

Congratulations to our members! Your contributions over the years have helped establish the approximately $135,000 Robert D. Holtz Endowed Fellowship at the University of Washington. The fellowship will go a long way to support Geotechnical Engineering at the University and throughout our local community.

At our group’s 2007 Spring Seminar, we dedicated $50,000 to establish the Holtz Fellowship. We challenged our members and member firms to donate an additional $50,000 to reach an important level of $100,000; important, because the State would contribute an additional $25,000. Not only, did our members meet this level, but they exceeded it!

Our main contributors at the $5000 or more and $2000 or more levels are:

**$5000 or more**
- GeoEngineers, Inc.
- Geotech Consultants, Inc.
- Hart Crowser, Inc.
- Kleinfelder, Inc.
- Landau Associates, Inc.
- Northwest Cone Explorations, Inc.
- Shannon & Wilson, Inc.

**$2000 or more**
- Golder Associates, Inc.
- LACHEL FELICE & Associates
- STS Consultants-Chicago
- DBM Contractors, Inc.

We see the establishment of this Fellowship as an important step forward for our Group, the University’s geotechnical program, and the civil engineering community in our region. But establishing the Fellowship is only the beginning: we intend to grow the endowment with future contributions, both from our Group, our members, and others. If you’d like to contribute, please visit our website (www.seattlegeotech.org) for more information and a downloadable pledge form; or contact me with any questions. Congratulations to all of our volunteers that made this happen!

I would like to thank an amazing group of engineers that agreed to volunteer as officers this year. **Eric Heller** with GeoEngineers is our President-Elect and is diligently working to put together our annual Spring Seminar that is scheduled for Saturday, April 5th. **Dominic Parmantier** with Condon Johnson & Associates is this year’s Secretary and did an outstanding job putting this publication together. **Jon Brown** with Landau Associates is the group’s Treasurer and does a great job of keeping our finances straight. **Sean Caraway** is our Education Chair and his group has done an amazing job putting together our monthly dinner meetings, two short courses and a field trip. **Alan Macnab** with Condon Johnson
has again agreed to be our Membership Chair and provides our group with invaluable experience and perspective. **Sarah West** with Golder Associates is our Public Relations Chair has worked hard to reach out to other organizations including the local universities, APWA, Engineers Without Borders, and the Puget Sound Engineering Council. 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.”

This year, we have provided four informative monthly dinner meetings and we are planning three more. In addition to the dinner meetings, our Education Committee hosted a short course on the design and construction of temporary shoring in November and is planning a construction site field trip this spring and another technical short course the Friday before the Spring Seminar.

Our annual Spring Seminar “Development and Risk in Landslide Sensitive Areas” is April 5th. We are planning our second 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.

Our group is back down near our yearly operating budget following our gift to the University of Washington last fall. However, we plan to continue to fund important projects to support our engineering community. We continue to make the bulk of our funds on the Spring Seminar and a small profit on the Groundhog advertising and short courses. We continue to strive to break even on our dinner meetings.

We are beginning the process of looking for next year’s officers. If you are interested in being involved next year (August to June), 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 Tuesday before each dinner meeting. If you are interested, you can contact Eric Heller, next year’s Group President at eric.heller@geoengineers.com or me at jeff.fowler@seattle.gov.

**Jeff Fowler**  
**City of Seattle**
2008 Spring Seminar  
Development and Risk in Landslide Sensitive Areas  
April 5, 2008

The Geotechnical Group of the ASCE Seattle Section is pleased to announce its 25th Annual Spring Seminar. The annual one-day symposium will be held Saturday, April 5, 2008 at the University of Washington. The topic is “Development and Risk in Landslide Sensitive Areas”. The topic of landslides was last discussed by our group in 1997. Please join us to discuss what has been learned in the intervening time.

Scheduled speakers include Professor Michael Duncan (Virginia Tech), Professor Jerry Higgins (Colorado School of Mines), Bill Laprade (Shannon and Wilson), Tim Walsh (Washington State Department of Natural Resources), Jeff Coe (USGS), and Bill Benzer (Seattle Public Utilities). In addition we have several local geotechnical and policy experts to discuss the risks and solutions to developing in areas prone to landslides.

This is a must attend event for geologists, geotechnical engineers and policy makers who must design and construct structures within landslide prone areas. Avoidance is no longer the only solution for dealing with landslides. The risk and liability needs to be assessed and analyzed to determine if development is feasible.

In addition to the Spring Seminar, the Geotechnical Group is pleased to have Professors Duncan and Wright present their one day short course on “Soil Strength and Slope Stability” Friday April 4, 2008. For more information on both of these events, please visit our website [http://www.seattlegeotech.org](http://www.seattlegeotech.org).
Public Relations Committee Update

Mentor Night for Seattle University and Seattle Pacific University
Puget Sound Engineering Council hosted a mentor night at Seattle University for students in engineering 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.

There was no shortage of geotechnical engineers at the mentor night! Members of ASCE Seattle Section Geotechnical Group were excited to share their experiences and educate students 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 2007. 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.

Events Planned for 2008
Though it is still early in 2008, the Public Relations Committee is already hard at work. ASCE Seattle Section Geotechnical Group will organize a field trip to a local construction site for geotechnical engineering students at University of Washington. 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 what geotechnical engineering is.

As always, we are looking for opportunities to educate the public on geotechnical engineering. Please feel free to contact Sarah West at swest@golder.com if you have any suggestions or are interested in volunteering!

Sarah J. West, E.I.T.
Public Relations Chair
Education Committee Update

The ASCE Seattle Section Geotechnical Group Education Committee has had a very active fall and we have more events planned for the upcoming spring.

We have had an excellent line up of speakers for our monthly dinner meetings during the fall of 2007. In September we welcomed Dr. Jon Bray from the University of California at Berkeley to talk about mitigation of surface fault rupture hazards. This meeting was a joint gathering of the geotechnical group with the Association of Engineering Geologists (AEG). In October Monique Nykamp, P.E. of Shannon & Wilson, Inc. gave a presentation on compaction grouting of loose soil beneath the Naval Dry Dock in Bremerton. In December the geotechnical group heard a presentation on LRFD methods in geotechnical design given by Bob Kimerling, P.E., a principal with PanGEO, Inc. The January dinner was a joint meeting with ASCE Seattle Section. We had more than 100 attendees and our guest speaker was Dr. Peter Nicholson of the University of Hawaii. Dr. Nicholson presented on the many aspects surrounding the New Orleans levee system failures during Hurricane Katrina.

Dinner meetings are also planned for the geotechnical group on February 28th, April 24th and May 22nd. We are still in the process of finalizing presentations and speakers for the February and April dates. The presentation for the May 22nd meeting will cover the Golden Ears Bridge Design-Build Project: Foundation Design for Segment 4 Approach Structures (crosses Fraser River nearly 20 miles east of Vancouver, British Columbia). This presentation will be given by project team members at CH2M Hill.

In November the group conducted a two-day short course on shoring design and construction. The short course was attended by over 50 members of the local geotechnical community. We had a terrific group of speakers, including Alan Macnab, P.Eng., Matthew Janes, P.Eng., Jon Koloski, L.G., L.E.G., Dominic Parmantier, P.E., Matt Gibson, P.E., Bob Carnevale, P.E., Al Rasband, John Byrne, Ph.D., P.E. and Matt Smith, P.E.

We are planning a one-day short course in conjunction with this year’s spring seminar. The topic will be slope stability analyses. The one-day course will tentatively be set for Friday, April 4th, which will be the day before the seminar. We will be sending information regarding the course, once details are finalized.

We are also currently planning a spring field trip to the Starbucks Building at 505 1st Avenue South in Seattle. This project involves innovative shoring techniques, which should make for an interesting site visit. Hart Crowser and Condon-Johnson are working on the design and construction elements of the project. Information pertaining to the details of the field trip will be forwarded to the group members.

Sean L. Caraway, P.E.
Education Committee Chair
Membership Committee Update

The membership committee is tasked with the recruitment of new members to the Geotechnical Group and the care of maintenance of existing membership roles. The membership is currently at 554 members. With that number of members, just keeping up with job changes, email address changes and personnel entering and leaving the Seattle market is not insignificant.

Members are asked to contact Alan Macnab at amacnab@condon-johnson.com or Grace Weaver at gweaver@lachel.com with any address changes or names of potential new members.

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

Alan Macnab P.Eng
Membership Chair
The AMEC Geotechnical Group had a very successful 2007 with a variety of new and ongoing projects including Sound Transit, community colleges and K-12 schools, and transportation and infrastructure projects. We look forward to another busy year in 2008.

Jess Abed led our geotechnical group for another successful year, focusing on business management and marketing. Principal Jim Dransfield continues to manage Sound Transit and other projects, juggling staffing for pile and shaft construction, confirmation borings, and exploratory borings. Jim is also managing the geotechnical phase for a large waterfront hotel resort complex in Puerto Rico that kicked off in early 2007 that sent Bill Lockard, 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.
After working hard to bring the geotechnical on-call WSDOT contract to AMEC in 2005, Associate Deb Ladd, assisted by Carlo Evangelisti, has wrapped up work on both the SR 900 and SR 9 projects. In addition to providing the standard suite of geotechnical services for the SR 9 project, AMEC also provided the pavement design for additional lanes and the natural/cultural resources requirements for the project.

Steve Siebert and Todd Wentworth have kept busy on several private projects, colleges and schools, and a variety of transportation and municipal projects. Konrad Moeller and Lisa Erickson continued the tradition of disappearing into Issaquah Highlands for the summer assisting Steve Siebert to support design and construction activities at Issaquah Highlands and prepared multiple critical areas reports for development in the area.

Chad Robinson joined us in 2007, having recently graduated with a degree in engineering from Michigan Technological University. Chad has been busy working with all of our engineers on a wide variety projects, gaining valuable experience both in and out of the office.

Apollo Geophysics

Apollo Geophysics has had another busy and exciting year. We have provided Cross Hole Sonic Logging (CSL) testing services on many projects. One of which, the I-84 Pleasant Valley Interchange project in Baker County, Oregon, was honored in the December 2007 issue of Northwest Construction’s “Best of Construction” magazine. The CSL testing was completed under extreme weather and geologic conditions. AG personnel responded to the critical path portion of the project by developing a solution to overcome frozen site conditions and complex geology, assuring a timely completion of quality CSL testing and data analysis. In addition to many out of state projects last year, we locally provided CSL Testing services for the Sauk River Bridge project in Darrington, the Johnson Bridge project in Walla Walla, the ALSF-2 Runway project in Seatac, and currently the Blue Bridge project in Snohomish County.

Matt Ringstad was able to spend a week in Kauai, Hawaii where he completed Parallel Seismic Testing to assess the depth of existing floodwalls for the Hanapepe River Flood Control Project. This project was part of the USACE directive response from the New Orleans Levee failure. Matt and Lynelle Brode also traveled to Cordova, Alaska where they completed GPR and Seismic Refraction surveys in a flowing creek surrounded by over 3 feet of snow and ice. This was an especially difficult project location not only because of the extreme weather conditions but also because in order to reach the site they had to travel 2 miles up a narrow canyon with all of the Seismic/GPR equipment.

Apollo Geophysics now provides rental and sales of geophysical and non-destructive testing instrumentation as well as technical support and training. Our new website www.apollogeophysics.com includes an Equipment Rental/Sales page where our clients can select the items they wish to rent right on the webpage. We enjoyed demonstrating our new GPR instruments at
the Cordilleran Section GSA conference held at Lynn Ringstad’s alma mater, Western Washington University.

We would like to announce a new service we are providing, a Non-Detectable Utility/Hazard Locating (NDLSM) service. NDL Locating consists of utilizing a combination of instruments, which can locate, pvc (plastic), fiberglass, concrete, and other materials that a standard private utility locating service is typically not able to detect. We are excited about this service, as it is a great, low-cost addition to loss prevention programs for all direct exploration activities.

Associated Earth Sciences, Inc.

Happy New Year! AESI celebrated its 25th Anniversary last year and looks forward to a great 2008. We were excited to announce the opening of our Tacoma branch office, which opened its doors last June. The Tacoma office is managed by Maire Thornton, Senior Engineer. The Everett branch office is thriving under the guidance of Chuck Lindsay, Principal Geologist/Hydrogeologist, with key contributions from Ed Garcia, Project Engineer, and Dave Baumgarten, Senior Project Hydrogeologist.

The Kirkland headquarters continued its mix of residential, commercial, municipal, and healthcare projects under the leadership of President and COO Ron Parker. Principal Engineer Bruce Blyton provided his expertise on such waterfront projects as the Marina Suites at Yarrow Bay project. Kurt Merriman, Principal Engineer, continued to provide value-minded consulting services for new and expanded schools, hospitals, and high-rises, including the West 8th building and the Evergreen Gateway project. Principal Hydrogeologist Curtis Koger, Senior Hydrogeologist Jenny Saltonstall, Senior Engineer Scott Kindred, and the rest of the groundwater group have been very busy with their ground-breaking stratigraphic, infiltration, and groundwater recharge studies for master-planned developments such as Snoqualmie Ridge II, Villages at Black Diamond, Suncadia Resort, and Cascadia EBPC. Jon Sondergaard, Principal Engineering Geologist, developed his own special mix of environmental and geotechnical projects, including the geotechnical study and cleanup action plan for the King County Metro Northlake Maintenance Facility, and the Des Moines Creek Regional Retention/Detention Facility project. Associate Engineers Aaron McMichael and Matt Miller have been managing large residential and commercial developments such as Redmond Ridge East and the Lakewood Crossing shopping center in Marysville, which is one of the largest permeable pavement projects in Snohomish County.

AESI’s strong commitment to provide in-house professional development and continuing education to their staff manifested itself in the first of hopefully many AESI seminars at the Redhook Brewery on June 1, 2007. This seminar titled “Quaternary Geology of the Central Puget Sound Lowland” was presented by UW’s Kathy Troost and Derek Booth. The next day AESI staff and family went on the 10th annual Whidbey Island Field Trip led by Curtis Koger to take a firsthand look at the various sediments and faults exposed in the bluffs along the south end of the island.
Associated Earth Sciences, Inc. currently has openings for Project Engineers/Geologists, Staff Engineers/Geologists, and Field Technicians for our new Tacoma Office. For more information, please visit our website at www.aesgeo.com.

CH2M HILL

CH2M HILL’s geotechnical group would like to welcome Mark Thompson and Kimberly Mugg. Mark recently obtained his PhD degree from Iowa State University. Kimberly is a UC Berkeley graduate with a tunneling background from the SF Bay Area.

King Sampaco continues to serve as the Operations Leader for the Bellevue Office Geotechnical Group in addition to being the geotechnical manager for several projects. King is currently leading the geotechnical effort on the $1 billion Golden Ears Bridge DBFO project in British Columbia. The project’s main element is a one-km bridge crossing of the Fraser River, approximately 30 km east of Vancouver. The task consists of foundation design for viaducts, bridges, and overpasses; and finite element modeling of bridge foundation on a site with thick deposits of soft clay, high liquefaction potential, and history of previous slope failures. The CH2M HILL/Bilfinger Berger joint venture is responsible for the project’s design and construction, expected to be completed by June 2009. Ha Pham is helping King with the modeling aspects of the project.

King is also the geotechnical manager for the Sound Transit (ST) Eastlink Lightrail project in which CH2M HILL is teamed with several subcontractors to provide environmental documents and conceptual and preliminary engineering designs for high capacity transit system located in the 17-mile east corridor of the ST East King County taxing district (downtown Seattle, Mercer Island, Bellevue, Overlake, and Redmond).

CH2M HILL is the program manager for the Tacoma/Pierce County HOV Program. Karen Dawson is the geotechnical functional manager for the Program which consists of providing preliminary through final geotechnical design to add HOV lanes and improve access to I-5 between the King County Line and SR-16. CH2M HILL geotechs, which include Don Anderson, Michel Bouchided, Todd Valentine, Roch Player, Ha, Mark, and Kimberly, are working closely with WSDOT to provide support to both in-house and partner design firms. With an estimated construction budget of almost $1 billion, the program includes almost 300,000 SF of walls and replacement/widening of almost 40 mainline or ramp bridges. Subsurface conditions include alluvial deposits in excess of 130 feet deep at the Puyallup River. Design elements include soil nail, soldier pile, and MSE walls; drilled shaft/pile foundations; and ground improvement for liquefaction control. More than 120 borings were drilled since May, with additional 40 borings planned for the first half of 2008.

In addition to managing the exploration program for Tacoma HOV, Michel Bouchided provided support for projects including the I-15 Las Vegas Design-Build and the Chelan Pump Station.

Roch Player continued to provide construction support for the I-5 Everett Design-Build project. The project is nearing completion and Roch is expected to rejoin our Bellevue office in late January 2008.
Sandra McGinnis continues with assisting us with field exploration and EIS preparation for projects such as the WSDOT SR-519 and Tacoma HOV. Sandra had an 8 lb 13 oz baby boy in July and is planning to work part-time to give her full attention to her new born.

Jen Schaeffer continues with her role as Field Team Lead for various field exploration projects within our Nuclear Business Group in the East Coast.

Don Anderson and Ken Green continue to serve as senior consultants on projects and as mentors to local staff. Don continues his active involvement on national committees that include the TS-3 Committee. The committee has been working on updates to the seismic provisions in the NEHRP seismic design guidelines for buildings.
Condon-Johnson & Associates

Condon- Johnson & Associate Inc is a heavy civil engineering contractor specializing in drilled applications of ground modification, anchored earth retention and deep foundations.

During the past year we worked on a number of interesting projects. The following were completed in 2007

- Drilled Shafts - WSDOT Design Build project. Everett, WA for Atkinson-CH2MHill Joint Venture
- Secant Walls - WSDOT project, Blaine, WA for Immco Construction.
- Drilled Shafts - Snohomish County project - Swanson Rd. for Wilder, Construction.
- Stone Columns- Longview Fibre - Longview, WA for Momentum Builders.
- Drilled Shafts/Stone Columns - ODOT project - Spencer Ck on the Oregon Coast for Stayton Construction.
- Drilled Shafts - WSDOT project - Fredonia, WA for Scarsella Brothers.
- Tiedback Shoring Phase II - Brightwater - Woodinville, WA for Hoffman Construction
- Missile Silos Phase III - Bechtel Construction - Ft. Greeley, AK

We are currently working on a very challenging earth retention/ground water cutoff project at 505 First Avenue in Seattle, WA utilizing soil mixing with our new CSM equipment. We also are working on the I-405 South Bellevue Design Build project for Atkinson Construction installing Drilled Shafts, Soldier Piles and Stone Columns.

Condon-Johnson & Associates Inc. completed a soil nail project for Sellen Construction called Skyline at First Hill. During this project we hosted students from Seattle University on an ASCE Geotechnical Group site visit

The company is continuing its commitment to its internship program. We look forward to introducing several students from OSU and WSU to the world of heavy construction.

Dominic Parmantier will be the secretary of the ASCE Geotechnical Group this year and Alan Macnab will continue as the Membership Chair of the group.

Condon- Johnson has four offices. These are San Diego, Los Angeles, Oakland (head office) and Seattle. We routinely perform work in Washington, Oregon, California, Nevada, Arizona, Utah, Idaho, Montana, and Alaska and British Columbia. We are annually ranked in the top 10 nationally for the excavation foundation category in ENR’s top 600 contractors.
Condon- Johnson employees presented educations sessions at number of continuing education sessions by ASCE as well as WSDOT. We also presented at several national Seminars on Deep Foundations, Ground Modification and Anchored Earth Retention.

For further info on Condon-Johnson and Associates Inc., please see our website at www.condon-johnson.com.

DBM Contractors, Inc.

How quickly another year rolls off the calendar! Allow me to tell you a little of what has kept our team so busy this past year…

We are rapidly approaching the second anniversary of opening our Southwest Regional Office in Vista, CA and look back on the completion of various permanent and temporary earth retention projects including multiple contracts with Sprinter Mainline regional transit entity in San Diego for construction of retaining walls and repair of failing slopes.

In Las Vegas, NV we completed a 200,000 square foot anchored diaphragm wall for temporary excavation support and groundwater cutoff at The Cosmopolitan Resort and Casino in Las Vegas, NV. In addition, DBM installed over 1,600 micropiles for soil reinforcement of the subgrade beneath the mat foundations for the new resort along Las Vegas Boulevard. Outside of Globe, AZ, DBM acted as general contractor and specialty geotechnical contractor for design/build emergency repair of failing 15-foot-diameter culverts passing below US 70 at the Salt Creek Emergency Road Repair Project.
DBM is proud to announce the opening of its Northern California office in San Jose last year. With the addition of David Bolton as Regional Operations Manager, we are geared up to offer our services in the Bay area for temporary and permanent earth retention, drilled foundation support and slope stabilization. The formalizing of our San Jose office will not only provide an important growth step to DBM, but will give us a better opportunity to serve our northern California project partners and clients.

While all that was going on down south, we still had lots to do up here in the home region. Western Washington development kept us busy with deep excavation support projects including Escala at Fourth and Virginia, 2201 9th Avenue, 1100 Eastlake Office Building, Touchstone West 8th, Swedish Medical Orthopedic Center, Colby Garage, and City Center Plaza. DBM also spent many hours repairing and expanding infrastructure and facility including Mud Mountain Dam, Brightwater Conveyance, 8th Street Bridge Replacement in Port Angeles, I-5 48th to Pacific in Tacoma, and SR 304 Slope Repair in Bremerton.

DBM continues to be active in advancement of the geotechnical construction industry through its participation in ADSC, DFI and ASCE. We are proud to announce that at this time last year, we were awarded ADSC Quality Contractor of the Year for 2006. Lastly, from our growing family here at DBM, we want to thank all of our project partners and wish you all a safe and prosperous 2008!
GeoDesign offers integrated geotechnical engineering, environmental, geological, and hydrogeological consulting services from offices in Seattle and Vancouver, Washington; Portland, Oregon; and Anaheim, California. In 2007, the firm celebrated a milestone, its 10th anniversary.

In February 2007, GeoDesign opened a new office to serve existing and new clients in the Seattle area. This office is staffed by the former employees of PacRim Geotechnical. With the opening of its Seattle office, the firm now has staff with extensive local knowledge and work experience in the Puget Sound region. From PacRim, GeoDesign welcomed Kevin Lamb and Dr. Jason Qiu, geotechnical engineers; Nate Cheshier, Hillary Hall, and Robbie Hilal, field technicians; and Vasiliy Babko, administrative support, to its Seattle office, while geotechnical engineer Viola Lai joined the Portland team. The firm also strengthened its hydrogeologic services with the addition of Derek McGregor, who brings 17 years of environmental consulting, project management, and business development experience to the firm.

In the past year, the Seattle office has won on-call contracts with the Bellevue School District, Seattle School District, and King County Housing Authority. Other projects include a continuation of geotechnical instrumentation services to Obayashi on the Sound Transit Beacon Hill Tunnel, supporting the City of Shoreline’s improvements at Richmond Beach Saltwater Park, and construction services for the City of Seattle Joint Training Facility and Beacon Hill Reservoir Tank Project.

In news from the Vancouver office, GeoDesign continued its work at the Columbia Tech Center, a 400-acre mixed-use development along the heart of 164th Avenue and Mill Plain Boulevard, where it has provided geotechnical design services, as well as construction observation of filling operations, subgrade preparation, and infiltration testing. The firm also completed a geotechnical and hydrogeologic investigation for the new Thurston County Accountability and Restitution Center, a 27.5-acre site in Tumwater. Construction is slated to begin by January 2008.

Lastly, the Seattle and Vancouver offices have collaborated on multiple projects for Ducks Unlimited, an organization that conserves, restores, and manages wetlands and associated habitats. At the Leque Island Estuary Restoration in Skagit County, GeoDesign provided geotechnical design for approximately ½ mile of dike along the Stillaguamish River estuary. For the Shillapoo Lake restoration project in Vancouver, staff completed geotechnical design and construction observation services for the installation of 2,200 feet of new levee and repair of 2,900 feet of existing levee.

For additional information, please contact: Kevin Lamb, Senior Associate/Office Manager
klamb@geodesigninc.com
206.838.9900
DMI Drilling Construction expands dewatering capabilities in 2007. In April 2007 DMI Drilling Construction hired Dale Smith, a 26 year veteran in the drilling and dewatering industry to develop and manage the Dewatering Division. Since that time several specialty drill attachments for boring and jetting have been purchased or developed specifically to meet well point installation needs. Below are a few pictures illustrating some of the well point and deep well tasks completed.

Along with dewatering DMI Drilling Construction specializes in the following types of work: Excavation support systems, Landslide Stabilization and Repair, Soldier Pile Walls, Underpinning, Secant Walls, Exploration, Pole Structures, Elevator Jackshafts, Buildings, Bridges and Caissons, Deep Shaft Foundations for Towers, as well as any related work.

We presently own and operate 22 drill rigs and have a variety of support equipment. Our geographic work area currently covers all of Washington, Oregon, Idaho, and occasional ventures into Montana, Wyoming and the Dakotas.

For further information on DMI Drilling Construction please see our website at www.dmidrilling.com or call us at 253-891-1311.
Golder Associates Inc.

Season's greetings to our valued colleagues and clients who have contributed to Golder Associates' continued growth in staff and services. Our Redmond and Seattle office added 23 new employees; six in the engineering group.

Golder was honored with several awards this year, including: ACEC of Washington Gold Award for Social/Economic and Sustainable Design Considerations and ACEC of Washington Silver Award for Originality or Innovative Application of New or Existing Techniques for the slope stabilization project along the Snoqualmie Pass corridor of I-90; Northwest Construction, 9th in Top Design Firms in Washington; CE News magazine, 8th in CE Large Firms to Work for in the United States; ENR, 74th in Top 500 design firms; and Zweig White Information Services; 83rd in the top 200 fastest-growing U.S. architecture, engineering, and environmental consulting firms.

Golder staff participated in several fun charity events in 2007, including the 100-mile Mountains to Sound Relay benefitting Mountains to Sound Greenway; Making Strides Against Breast Cancer Walk to fight breast cancer in the Puget Sound; and the Seattle Jingle Bell Run & Walk to benefit the Arthritis Foundation.

Golder is pleased to announce the following staff promotions: John deLaChapelle, L.G., L.E.G., Senior Project Geologist; Josh Hanson, P.E., Senior Project Engineer; Scott Matthees, Senior Consultant/Associate; Tony Rice, P.E., Principal.

Notable Projects:

Golder recently completed a series of landslide workshops for the Pierce County Department of Public Works-Road Division. The workshops were held at each of the county’s road shops to train county first responders to landslides that affect county roadways.

Golder is providing geotechnical engineering and construction monitoring services for the new $235 million Casino Snoqualmie. The 170,000-square foot, mountain-style lodge casino is located on a 56-acre secluded site off of I-90 and just outside the city of Snoqualmie. It will include 51,000 square feet of gaming space, a 1,000-seat events center, five restaurants, and four bars.

Golder provided geotechnical services for the Escala Condominiums currently under construction at the corner of 4th and Virginia in downtown Seattle. The 94-foot-deep excavation is the second deepest excavation in downtown Seattle history. Golder performed subsurface explorations, site characterizations, and design and construction recommendations. Unique challenges at the site included a high profile project in an urban setting and challenging subsurface conditions. Golder designed a soldier pile and tieback shoring system with underpinning piles to support an adjacent historic building. Performance of the shoring system was monitored remotely in real time by an instrumentation system designed by Golder.
HWA GeoSciences Inc. (HWA) wishes you a happy and prosperous new year! HWA had a record year in 2007 and is expecting 2008, our 30th Anniversary, to be even better. Interesting and challenging geotechnical, environmental, and pavement engineering projects have kept us busy and working together makes it fun. We continue to focus on local agency infrastructure improvements but also enjoy international assignments.

Recent additions to HWA have many experiences to share. Donald Huling earned his EIT and was busy with construction support for Shaw Road Extension in Puyallup. The project includes high approach fills and a new bridge over the BNSF Mainline. David Maloney re-joined HWA after his post-graduate research in Norway and has been immersed in projects such as the Sumas Border Patrol Station design-build, and State Route 9 Improvements in Snohomish County. JoLyn Gillie continues to hone her analytical skills by recently completing extensive site-specific and finite element modeling of the seismic response of the submarine slope along the Brightwater Marine Outfall alignment.
George Minassian and Bryan Hawkins, of our pavement technology group, completed several pavement evaluation and rehabilitation projects for Seattle Department of Transportation, including 1st Avenue South, and 15th and 5th Avenues. HWA continues to advocate non-destructive falling weight deflectometer testing for pavement and subgrade evaluation.

Our geotechnical group manager Erik Andersen is actively managing geotechnical studies for a new fish collection structure at the Swift Reservoir on the Lewis River, and the Riverfront Development at the former Everett Landfill site. Working to find innovative approaches to erosion mitigation, Tom Kinney participated on a project to reduce the sloughing of a 40-70 degree slope. Thus far, the results have been positive with the recent heavy rains. Ralph Boirum enjoyed directing the inventorying of all sidewalks and curbs in Seattle and is presently managing geotechnical studies for State Department design-build projects in Sarajevo and Tijuana. Sa Hong is healthy and back at work, in between family (and golf) vacations. Lastly, our president Lorne Balanko has kept our corporate engine running smoothly while providing technical assistance on our more challenging geotechnical projects such as Brightwater Marine Outfall and Bow Lake Transfer Station.

After the December 2007 heavy rains, landslide evaluation and repair has kept us busy, including five slides in Mason County and two in Edmonds, all of which are emergency repairs. Our clients express appreciation for our consistent responsiveness and high level of service.

HARTCROWSER

After more than 30 years on the east shore of Lake Union, Hart Crowser moved across the lake, into the Lake Union Building at 1700 Westlake. This pile-supported building extends over the water and offers spectacular views of Gasworks Park to the north, the downtown skyline to the south, and Lake Union to the east. Headquartered in Seattle, we also have offices in Portland and Edmonds.

We continue to be involved in a number of high-profile projects throughout the Puget Sound area, including:

- 5th & Columbia (40+ story office tower in Seattle)
- Starbucks Office Building in Pioneer Square
- Children’s Hospital Expansion
- South Lake Union Development Projects for Vulcan
- Lincoln Square 2 (100-foot deep excavation/Two 40+ story towers)
- Bellevue Place/Hyatt Expansion (deep excavation and hotel tower)
- Highline Hospital Expansion in Burien
- Closure of Numerous Abandoned Coal Mine Features
- Port of Seattle - Terminal 91 Cruise Ship Building
- Port of Seattle - Terminal 30 Rehabilitation for Container Operations
- Port of Tacoma - East Blair 3 Pier and Upland Development
- Puget Sound Naval Shipyards - Aircraft Carrier Pier
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 a member of the Board of Directors, and Wayne Adams is our Edmonds Office Manager. Barry Chen leads Hart Crowser’s efforts in the transportation market and is also heavily involved in the development/building market. All of our principals also manage a full load of projects.

Staff highlights include: Doug Lindquist presenting a paper on pile driving vibrations at Ports 2007. John Bingham moving to the Edmonds office, increasing our geotechnical presence up north. Matt Gibson serving as a key speaker at the ASCE Shoring Design Course, Armin Stuedlein presenting a paper on 3rd Runway Project instrumentation at FMGM 2007 and continuing his PhD research at the University of Washington. Also, Alison Armstrong’s key involvement in the Port of Seattle’s new Cruise Ship Terminal, Ben Upsall playing a critical role in the Port of Tacoma’s Pier 25 sediment capping project, Mike Swenson’s geotech/environmental contribution to the Holden Mine project, and Sarah Upsall’s seismic engineering for numerous development sites. Finally, we are pleased to announce that Morgan Mayfield from the University of Washington will join us in January as a new geotechnical engineer.
Hayward Baker, Inc.

Hayward Baker continues to operate out of its Tukwila office to provide the Northwest with specialty geotechnical contracting feasibility, budgeting, and construction. This work includes both consultant design/bid/build and HBI design/build services. Special emphasis continues to be for projects requiring ground improvement for soft soils, liquefaction mitigation, underpinning, groundwater control, excavation support, and slope stabilization. Mike Blanding and Jon Bussiere have joined the Tukwila office in 2007 as field engineers to support Project Managers Mark Koelling, Rick Hanke, and Andy Anderson.

HBI remains appreciative of its role in the local geotechnical community and will continue to strive to provide quality contracting and business relationships.

Jacobs Associates

Marked with expansion and continued success on key projects, 2007 was an exhilarating year for Jacobs Associates (JA). Both Seattle and Portland offices almost doubled in size this year in response to new wins and regional work. The biggest news was the acquisition of Woodinville-based Milbor-Pita and Associates (MPA), which augmented the core services the firm offers. This is the first acquisition in JA’s 51-year history of engineering and consulting.

The geotechnical and tunnel engineers of MPA joined JA to create a powerhouse of expertise in tunnels, rail and heavy civil projects. The acquisition allows the firm to offer clients a specialized talent pool to rival larger firms, while remaining true to client service goals.

Frank Pita, PE, LHG, and Gerry Millar, LEG, both joined the firm as Principals. Other promotions in 2007 include Richard Smith, PE, named as an Associate; and Mark Havekost, PE, who leads the Portland, Oregon office, named as Vice President.

On the Brightwater Conveyance System for King County, JA, in joint venture with MWH, is providing project management for final design of shafts and approximately 13 miles of new bored tunnels. 2007 saw the launch of two tunnel boring machines on this project: “Helene” headed east from the North Kenmore Portal (Central contract); and “Luminita” on the East contract launched from the North Creek Portal, aimed toward the treatment plant site.

2007 also saw 60% completion of major civil final design for Sound Transit’s 3.15-mile light rail University Link extension, which will run in twin-bore tunnels from downtown Seattle to the University of Washington, and is expected to be open for service in 2016. JA is providing project management, tunnel design and geotechnical engineering as part of the Northlink Transit Partners Joint Venture, led by Dan Adams, PE, and Isabelle Lamb, LG.
Other projects local staff members are participating on include: resident engineering for Heartland Corridor, which will raise the vertical clearances of 28 freight rail tunnels for Northfolk Southern Railway to accommodate double-stack trains; construction management of the “big pipe” of Portland, Oregon’s East Side Willamette River Combined Sewer Overflow project; a driven tunnel for the Boggo Road Busway in Brisbane, Australia; tunnel and shaft engineering for Northern Sewerage Project phases 1 and 2 north of Melbourne, Australia; Port Mann Crossing water supply tunnel in Vancouver, Canada; and value engineering of the Balch Consolidation Conduit in Portland, Oregon.

Kleinfelder

2007 proved to be a year of growth and exciting project work for Kleinfelder. Our geotechnical group worked on a variety of projects including major transportation projects, utility improvements, and industrial, high-rise and major retail developments across the Northwest. Rolf Hyllseth was hired as a Senior Geotechnical Engineer to manage projects and mentor junior staff. With his wide background in commercial, industrial and public infrastructure sectors, he has been a valuable addition to our team. Hyungsuk Shin, PhD, a new hire and recent graduate of the University of Washington, brings expanded expertise in seismic and numerical Modeling.

Senior Principal Bob Plum continues to provide invaluable expertise and mentoring, while at the same time managing a wide array of projects including a new high-rise at 5th and Yesler and design-build transportation projects. David Cotton, Senior Principal and Kleinfelder’s Seattle Area Manager, also contributes to the geotechnical group on a regular basis. Marcus Byers led work on the 54-acre Landing mixed-use development being constructed on former Boeing property in Renton. Steven Flowers provided field supervision of deep soil mixing to stabilize sensitive clays in Burnaby, British Columbia. Jason Washburn, Frank Reinart and Scott Ward provided support on numerous other projects including the Third Runway and a high-rise in Seattle. Ian Lavielle is currently completing his graduate work while serving as an intern for NGI through the Valle exchange program at the University of Washington.

Under the leadership of Brendan Fisher our Rock Engineering Group completed several large and technically challenging projects, including a new auxiliary spillway at the Folsom Dam near Sacramento, California, Wind Power Projects in Oregon and California, a quarry reclamation project in Denver, and rock slope engineering studies for numerous owners across the US.

Bill Gates, PhD, continues to serve as Senior Principal Engineer providing guidance and technical support on projects in Seattle and other parts of the country. Chad Lukkarila serves as Project Engineer and Manager and recently returned from Maui where he supervised a rock slope stabilization project for the Pi’ilani/Hana Arches on the Pi’ilani Highway. Project Engineering Geologist Steve Lewis is completing geologic characterization for the design of 30 miles of rock excavations for a renewable energy project in southern California. Kami Depty is a Staff Engineer and recently completed logging a 2,000 feet deep rock core for a storm water conveyance tunnel in southern California.
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.

LF&A’s core competencies include deep foundation design, testing, and analysis; numerical modeling; construction engineering; soil structure interaction; and other advanced structural, geotechnical, and geostructural designs. LF&A provides detailed design recommendations, complete plans and specifications, construction drawings, and resident engineering services.

LF&A’s clients include major contractors, state and local governments, the federal government, and a variety of commercial enterprises. Their multi-disciplinary staff includes geotechnical, structural, mining, electrical, and tunnel engineers, as well as geologists and grouting and construction specialists.

Luis Sousa, Ph.D., P.E., has joined LF&A’s Morristown, New Jersey office. He comes from his position as Professor at the University of Porto, Portugal. Luis has extensive international experience on a range of projects including dams, tunnels, and underground structures. He is also very active in professional societies, and he recently completed a term as the ISRM Vice-President at Large and served as Chairman of the 2007 ISRM Congress.

Joshua Rowe has joined LF&A’s Kirkland, WA office as a staff geologist. He works closely with senior engineering management in performing non-destructive testing. He recently earned his B.S. in Earth and Space Sciences from the University of Washington.

Kenneth Faught, NW Area Manager, continues to successfully grow LF&A’s Cross-hole Sonic Logging (CSL) and Pile Dynamic Analysis (PDA). LF&A has tested more than 900 drilled shafts and more than 50 piles throughout the northwest. 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 Over-crossing.

Dr. Conrad W. Felice, President, CEO was appointed by the Transportation Research Board (TRB) Executive Committee as Chairman of the Modeling Techniques for the Geomechanics Committee. TRB standing committees play a vital role in facilitating the exchange of transportation research information and results. Committee members work together to develop research problem statements in their area of interest, review and recommend papers for publication and presentation at TRB Annual Meetings, and organize Annual Meeting sessions as well as committee meetings, workshops, and other activities.

LF&A had a very productive 2007. Looking forward 2008 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.
Landau & Associates, Inc.

The geotechnical group has been very busy last year, working on very exciting projects. We welcomed Erfan Nazami, Ph.D. from the University of Illinois, Senior Staff Engineer, Steve Juhlin, P.E. Associate Engineer, and Chad McMullen, P.E., Project Engineer.

Dennis Stettler, P.E., is the program manager for our WSDOT and on-call geotechnical contract. He has also been managing our contract with Seattle Public Utilities (SPU). 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. Dave Pischer, P.E., continues working on a variety of waterfront development projects for local ports and cities, in addition to other diverse site development and remediation projects in Washington and Oregon. Steve Wright, P.E., has been busy with projects for King, Snohomish, and Chelan counties and continues working on a variety of transportation improvement projects for many local municipalities. Reda Mikhail, P.E., is continuing to manage our work for a WSDOT waterfront facility and projects for the Port of Everett, Ebey Slough, and Port of Port Angeles, and Port of Tacoma. Colin Turnbull, L.E.G., manages a variety of projects including the North Creek Interceptor Pipeline project, various residential/commercial site development projects including Yahoo! and Intuit, and a range of historical and recent landslides. Steve Juhlin, P.E., has been busy with a variety of projects for developers in western Washington. He is also working on the Road/Rail/Infrastructure portion of the Port of Tacoma’s Blair Hylebos Peninsula Redevelopment Project.

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.

Northwest Cascade, Inc

Northwest Cascade, Inc. (NWC) is a full service geotechnical construction contractor, specializing in earth retention, slope stabilization, grouting and design build shoring.

This past year we completed numerous interesting and challenging projects. A few of the projects include The Bear Canyon Vicinity Slope Repair in Morton, WA, The South Lake Union Waterfront Park Improvements in Seattle, WA and The Lincoln Square Tunnel in Bellevue, WA.

The Bear Canyon Vicinity Slope Repair Project required the construction of a 22,000 SF soldier pile / tieback shoring wall to repair an unstable slope and reopen SR 508. The South Lake Union Waterfront Park Project included the installation of high capacity tieback anchors – 160 feet long, for the construction of a new waterfront bulkhead. The Lincoln Square Tunnel Project required the crown of the tunnel to be grouted using barrel vault grouting methods prior to the tunnel excavation underneath NE 8th Street in Bellevue, WA.
NWC is currently installing a 25,000 SF architecturally carved soil nail / shotcrete wall shoring system for a new commercial development in Puyallup, WA. NWC is also constructing a 15,500 SF permanent soldier pile / tieback shoring wall on the SR 522 HOV Enhancement Project for the City of Kenmore, WA.

This next year will include the installation of 200 feet long – 600 kip tiedown anchors for a new cruise ship landing in Ketchikan, AK. NWC is also involved in numerous seismic retrofit projects and will be installing micropiles for WSDOT on the SR 99 Yesler Way Vicinity Foundation Stabilization Project and for the Port of Seattle on the Terminal 91 Berth M Reconstruction Project. In addition, NWC is presently involved in several design-build shoring projects in Portland, OR.

NWC looks forward to another year of continued growth and to providing geotechnical construction services and solutions to our clients throughout the West Coast.
Otto Rosenau & Associates, Inc.

Otto Rosenau & Associates, Inc. had a very busy and successful 2007. With Anthony Coyne leading our geotechnical department, we’ve seen a steady increase in business. Some notable projects include Thornton Place, North Seattle Community College Employment Resource Center, and East D Street Grade Separation.

In 2008, we look forward to diversifying our client base with emphasis towards municipality and commercial development projects. To support our growth especially in design and analysis capabilities, we are seeking to add another geotechnical engineer to our staff. We encourage you to visit our website at www.ottorosenau.com for more information.

Seattle Public Utilities Materials Laboratory Geotechnical Group

The SPU Materials Laboratory Geotechnical Group said goodbye to a great member of the team and welcomed two new members in 2007. Nils Lindwall returned home to upper Michigan where the majority of his extended family resides. We were sad to see him go and he left a large void in our group that took until just recently to fill. Juan Carlos Ramirez agreed to join our group in December and we are very pleased to have him. Juan Carlos obtained his Masters degree from the University of Washington in 1999, worked for URS Corporation for approximately 8 years and Shannon & Wilson, Inc. for about a year.

Also joining our group this year is Cody Nelson. Cody is an engineering geologist. She obtained her Masters in Geology in 2006 from Western Washington and then joined AMEC. Cody has been with our group since August. Taryn Sass, LG has cut back her hours to part time as she goes back to school in pursuit of an engineering degree at the University of Washington.

Jeff Fowler is the supervisor of the group and he continues his volunteer efforts with ASCE as the presiding President. We look forward to continuing our participation in the ASCE Seattle Section Geotechnical Group’s activities in the coming year.

Henry Haselton is the manager of the laboratory and continues to provide senior leadership. Henry is active in ASCE this year, volunteering to coordinate a field trip for our group in the spring.

Our group continues to work on interesting projects including the replacement of four open, in-town reservoirs, with 5 to 50 million gallon buried tanks. Beacon and Myrtle Reservoirs are currently in construction, West Seattle is slated for the coming year and Maple Leaf reservoir will follow. Phase I of the South Lake Union Park construction is nearing completion. The work replaced the deteriorating existing bulkhead and decomposing wood waste fill that resulted in substantial settlement behind the bulkhead.
Shannon & Wilson

Shannon & Wilson had a very busy and successful 2007. The following staff were hired in 2007: Bill Nashem, Ben Haines, Chris Russell, Jennifer New and Oliver Hoopes.

The following staff were promoted for 2008: Will Hultman to Vice President; Tom Abkemeier and Ted Hopkins to Senior Associate; and Jon Lindstrom and Steve McMullen to Associate.

Shannon & Wilson opened a Sacramento, CA office this past year. Recently, the Sacramento office was on the winning team for the California Department of Water Resources, Non-Urban Levee Evaluations in the Sacramento and San Joaquin River Flood Control Systems as a subconsultant to Kleinfelder.

Shannon & Wilson received an ACEC National Finalist Gold Award in the Transportation category at the 2007 Engineering Excellence Awards for the US Navy Aircraft Carrier Dry Dock Stabilization Project, PSNS & IMF, Bremerton, WA.

Notable projects from the past year included:

- Geotechnical investigation at the Savannah River salt waste processing facility under a contract with Parsons.
- Several task orders under our HTRW contract with the Seattle District Corps of Engineers, including: Del Bonita Site Investigation in Cut Bank, Montana; and Quillayute Station Remedial Investigation in Clallum County, Washington.
- Continued geotechnical and environmental work on the Alaskan Way Viaduct and Seawall replacement.
- Work at Howard Hanson Dam, under an IDIQ Geotechnical Contract with the Seattle District Corps of Engineers.
- An AFCEE 4P A/E 08 National/Worldwide ID/IQ contract as a subconsultant to Parsons.
- Work on several General Engineering Consultant contracts for the Washington State Department of Transportation, including the SR-520 Bridge replacement.
- Work on a project for the Dakota, Minnesota & Eastern Railroad (DM&E), providing geologic and geotechnical services for a 1,134 mile regional railroad with a 724 mile main line.

Over 100 people attended the annual Wilson Lecture cosponsored by the University of Washington’s Civil and Environmental Engineering Department. Dr. Robert Holtz presented his lecture “Geosynthetics at the UW – Some Practical Applications of Recent Research”. 
ZZA - Terracon

The Washington and Oregon offices of Zipper Zeman Associates, Inc. have changed our name to ZZA – Terracon, effective January 1, 2008. Watch for our new logo!

ZZA – Terracon has integrated well into the Terracon network of over 95 offices and 3,000 employees nationwide. We have picked up some local work through the Terracon national client relationships, and have recruited some Terracon professionals from other regions to join the local team. We were pleased when Roland Maynard (formerly with Snohomish County Public Works) joined our Omaha office.

The Idaho, Oregon and Washington offices increased our geotechnical engineering workload by about 80 percent over 2006, so it has been a very busy year! A number of recent graduates in both engineering and geology have joined the team, and we have also borrowed some engineers from other parts of the country for 1 to 3 month durations during these busy times.

Our Lynnwood, Bellevue and Tacoma offices stayed busy with more public sector work in 2007 than we had traditionally provided in years past. Across the Northwest, we are doing well over 50 percent of our work for the public sector. 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. Some of the highlights included:

- Jim Thompson, Rob Sargent, and Tim Huntting were involved with roadway and bridge projects in Canada during the last quarter of 2007;
- Tim Roberts completed a move to a new location in south Tacoma and hired several geologists in 2007;
- Dave Baska provided seismic consultation on a large energy project in the eastern US, and has become very involved with other projects nationwide;
- Kris Hauck increased the hiring pace and now manages a staff of eight in our Portland office;
- John Zipper and Tom Jones were involved with the Terracon Senior Leadership program;
- Al Zeman continues to provide consultation for Nordstrom stores nationwide, working from his base in Cave Creek, Arizona.

All in all, 2008 looks like another busy year. We are actively seeking geotechnical engineers to join our team in any of our offices.
Senior Geotechnical Engineer

Are you looking for a challenging, supportive, and flexible work environment with competitive benefits, and the support and freedom to succeed? HWA GeoSciences Inc. is a geotechnical and environmental firm located in Lynnwood seeking a Senior Geotechnical Engineer. Duties include:

- Project management
- Analysis and design
- Technical reporting and review
- Business development
- Staff training/mentoring
A qualified applicant should have a minimum 10 years of experience, MS in geotechnical engineering, PE registration, and have practiced in the Pacific Northwest. HWA is looking for candidates with technical competency in some or all of the following areas:

- Shallow and deep foundations
- Retaining structures
- Slope stability
- Tunneling and trenchless methods
- Soft ground engineering
- Ground improvement methods
- Geotechnical instrumentation
- Seismic evaluation and design
- Highway pavements

To apply, submit a detailed résumé to Lorne Balanko, HWA GeoSciences Inc., 19730 64th Avenue West, Suite 200, Lynnwood, WA, 98036-5957 or e-mail lbalanko@hwageo.com.

We are seeking a **Sr. Staff Geotechnical Engineer** for our Edmonds and Tacoma, Washington offices. Responsibilities include:

- Density testing, construction monitoring, and boring logs
- Soils lab testing
- Field Work and Drilling oversight
- Technical writing and communication
- Some travel required for projects in Pacific NW area

This career opportunity is available for the candidate who has:

- Minimum MS (required) in Geotechnical Engineering or related field
- 0-2 years experience in implementing field programs for geotechnical, investigations; additional environmental field experience is a bonus
- Experience with construction monitoring (desired)
- 40 hour HAZWOPER training (desired)
- Basic soils lab testing experience
- Strong written and verbal communication skills
We are seeking a **Project Geotechnical Engineer** for our Edmonds and Tacoma, Washington offices.

Responsibilities may include:

- Project Management for single discipline projects or principal investigator for project tasks
- Management and completion of technical projects within established budgets and schedules
- Assistance with development and writing of project proposals as requested
- Field investigations as needed
- Some travel may be required for projects in Pacific NW area

This position is available for the candidate who has:

- Minimum M.S. degree in Geotechnical Engineering or related field
- Minimum 4-7 years experience with geotechnical engineering projects with strong preference for Pacific NW area experience
- Ability to work independently and as a part of a project team
- Strong written and verbal communication skills required

We are seeking an experienced **Geotechnical Engineer** for a senior to principal-level position in our Edmonds or Tacoma, WA office.

Responsibilities include:

- Project management
- Business development
- Technical review in area(s) of expertise
- Management and mentoring of staff

This career opportunity is available for the candidate who has:

- At least 10 to 15 years of experience in geotechnical engineering
- Well-developed network including strong client contacts in the Puget Sound market and the demonstrated ability and interest in developing business
- Demonstrated ability to manage projects
- BS, with MS or Ph.D. in geotechnical engineering or related field strongly preferred
- Professional registration
- Strong written and verbal communication skills
- Successful track record in staff development and management

Please email your resume and salary requirements to: [HR@landauinc.com](mailto:HR@landauinc.com) - or fax: 425-778-6409, Attn: Human Resources, E/GE/1204/DRS EOE
Hart Crowser had an especially busy and productive year during 2007. Now we’re settled into our new offices on the west shore of Lake Union, and with a strong backlog of interesting projects for 2008, we are fortunate to have challenging opportunities for additional staff members to join our team.

The successful candidate for our Junior Geotechnical Engineer position will possess a MS in Geotechnical Engineering with 0-2 years experience in performing field explorations, sample collection, and interpretation of subsurface data, engineering analyses, calculations and construction monitoring. Experience and/or interest in environmental projects is a plus. In addition to design and report writing, this position will involve fieldwork.

Our Project to Associate level position in Seattle requires an MS in Geotechnical Engineering with 5-10 years of hands-on experience. The responsibilities of this level will primarily involve geotechnical design, report writing, proposal preparation, and project management. Registration as a PE, preferably WA, and experience with environmental projects is desirable.

We are seeking Senior Geotechnical Engineers for both our Seattle and Portland, Oregon offices. The successful candidates will have an advanced degree in Geotechnical Engineering, P.E., preferably WA or OR, with 10+ years experience providing geotechnical design and construction recommendations for a variety of development, industry and port/harbor clients. As a Senior Geotechnical Engineer, this individual will be responsible for business development, project management and mentoring of junior staff.

Each of these positions require strong writing, communication and interpersonal skills, to be able to clearly convey technical information to what may/may not be a technical audience. Individuals must be eligible to work in the U.S. Interested candidates are encouraged to forward their resume to: staffing@hartcrowser.com

Hart Crowser has a strong commitment to its corporate culture, to provide an environment that fosters creative thinking and opportunities for professional development. As an employee owned company, each individual contributes to the success of the firm. Information about the firm and additional opportunities can be found on the firm’s website at www.hartcrowser.com.

HART CROWSER, INC.
An Affirmative Action/Equal Opportunity Employer