Happy Holidays

DECEMBER 2006

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Mark Your Calendar

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Coming January 23rd:
3-D Building Information Modeling (BIM)
What is BIM and how is it going to change your design practice?
Join us for a lively discussion with our panel:
David Yuan, AIA, NBBJ
Jon Magnusson, MKA
Chuck Mies, Assoc AIA, Autodesk
Now that we have recovered from the tryptophan torpor of Thanksgiving, it is time to gather our thoughts and concentrate on the upcoming year’s plans. As I squint at the horizon of upcoming issues, I foresee the following: 2006 IBC, disproportionate collapse; and building information modeling (BIM), as some of our future endeavors.

2006 IBC
- Our Earthquake and Building Engineering Committees were busy at the recent September International Code Council (ICC) public hearings in Orlando, Florida. Working in conjunction with the National Council, seven of the committee’s proposals were adopted as-is or with minor amendments. Good work to all who participated. See Ed Huston’s article in the November issue of Structure magazine for a more complete summary.


- The traveling seminars are beginning to make the rounds. I am told by insiders that the new IBC and ASCE 7-05 are “infinitely better”. Let’s hope so.

- The November issue of Structural Engineer magazine has an article on the ’06 significant structural changes (Chapter 16).

- SEAW is tentatively planning a seminar in September in conjunction with Structural Engineers Association (SEA) Northwest Conference in downtown Seattle. Mark your calendars.

Disproportionate Collapse
- Incorporating a higher degree of stability or resistance to disproportionate collapse seems rather controversial, gathering both enthusiasts and pessimists.

- The American Institute of Steel Construction (AISC) & The Pacific NW Steel Fabricators recently hosted a very interesting November breakfast meeting on the topic presented by the 2006 T.R. Higgins Lecturehip award winner, Ronald Hamberger, region head of Simpson, Gumpertz, and Heger.

- In addition to the status of proposed IBC code additions on this subject there is an article in the November issue of Structure magazine about an advantageous framing layout to achieve resistance to progressive collapse. Increasingly, this issue of disproportionate collapse is looking like something we may be expected to design and analyze in the future.

Building Information Modeling
The Program Committee is planning January’s dinner meeting presentation to be on Building Information Modeling (BIM). This new emerging technology offers an opportunity to transform the way a structural engineer communicates and works with the Design Team and the Contractor. Some think this evolution to BIM will be more dramatic and faster than the transition from the “pin bar” to CAD, or the slide rule to the calculator. See the August issue on Structural Engineer magazine for more information.

Congratulations to SEAW member Chun Lau for his appointment to the Washington State Board of Registration for Professional Engineers. SEAW is glad to know that Chun’s expertise will enrich the Board.

I have to say something about the November Dinner meeting at the UW with students from the UW & SU. It was an impressive and energizing evening listening to the students present on the Concrete Canoe & Steel Bridge Competitions and the “Engineers without Borders” project in Thailand. All this work was done outside the classroom! Where do these guys get so much energy to work so hard, and have so much fun at the same time?

The New Year will be an opportunity for SEAW members to re-energize and make a resolution to rejoin one of our committees and/or make a reservation to attend a dinner meeting. And who knows, we might just learn something and have fun at the same time, too. Happy Holidays to all and see you next year.

-Peter Hart
pjhart@ctengineering.com

Peter Hart is past President of the SEAW Seattle Chapter. He is an Associate with CT Engineering with over 25 years of structural engineering experience.

FROM THE BOARD: Upcoming Plans

The SEAW Seattle Chapter Equilibrium is printed monthly from September through May and is available online at www.seaw.org. Circulation by mail: approximately 550 copies. Articles, letters, and announcements are accepted by e-mail to seaw@seaw.org.

Advertising rates (prepaid, please): Help Wanted/Job wanted, $50; Display ads: Quarter page, $90; Half Page, $120; Full Page $150; inserts, pre-printed 8 1/2 x 11 inch flat, $150. 10% discount for ads running two or more months. Deadline is the fourth Friday of the month. Contact SEAW for an Advertising Order Form.

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Seattle Chapter Membership Postings

Applications
Bryan Sean Baldwin
DCI Engineers Inc
BSCE 2005, UW
Class: Associate

Jeff Baerwald
Magnarson Klemencic
BS ‘96 Duke U
MSCE ‘97 UC Berkeley
Licensed SE, WA
Class: MEMBER

Roi Chang
DCI Engineers Inc
BS ’03 UC Berkeley
MS ‘05 U of Illinois
Class: Associate

Marilya Chorbova
DCI Engineers Inc
MS Sofia, Bulgaria
Class: Associate

Adam S. Christophulos
DCI Engineers Inc
BS ’03 U of Utah
MS ’05 UW
Class: Associate

Patrick D Lindblom
DCI Engineers
BSCE ’01 U of Alaska
MSCE ’05 U of Alaska
Class: Associate

Megan Jacks
DCI Engineers Inc
BS ’06 UC San Diego
Class: Associate

Robyn Lee
DCI Engineers Inc
BSCE ’06 WSU
Class: Associate

Becky Lee
DCI Engineers Inc
BSCE ’99 U of Michigan
MSCE ’00, Stanford
Class: Associate

Sze-Lyn Lim
Swenson Say Faget
BSCE ’04 Texas Tech
MA Arch ’05 Texas Tech
Class: Associate

Patrick D Lindblom
DCI Engineers
BSCE ’01 UW
MSCE ’07 U of Washington
Class: Associate

Robert E Mantz
Beyaz & Patel Inc
75 Pen State
Licensed PE, WA
Class: Prof. Associate

Brent Meacham
DCI Engineers Inc
BSCE ’05 Walla Walla
Class: Associate

Ryan Morgan
Coffman Engineers
BSCE ’03 U of Illinois
Class: Associate

Matthew D. Olsen
DCI Engineers Inc
BS ’03 U of Washington
MS ’05 U of Wyoming
Class: Associate

Keith Walsh
DCI Engineers
BS ARCE Cal Poly
San Luis Obispo
Class: Associate

Kevin Wang
Magnarson Klemencic
BS ’05 UW
MS ’06 Stanford
Class: Associate

Applications Accepted
Alan Findley
Professional Associate

Michael Fitz
Professional Associate

Ignausius Selie
MEMBER

Joshua Welch
Associate

Attention: Manuscripts, Letters & Articles
Email: seaw@seaw.org
Website: www.seaw.org

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SEAW Seattle Chapter Equilibrium
Page 2
December 2006
Company Spotlight:
The Euclid Chemical Company

In January of 2006, The Euclid Chemical Company purchased Tamms Industries and welcomed it into the Euclid family. Like Euclid, Tamms Industries had been in the business for nearly a century, steadily expanding through organic growth and strategic acquisitions. The joining of Tamms Industries trusted brand names with Euclid’s industry-leading service has provided an excellent opportunity for our enhanced organization to meet the diverse product and service needs of the rapidly changing concrete and masonry construction markets. Together we offer almost 200 years of experience in manufacturing and product support, which is unique in today’s ever-changing business environment.

Because The Euclid Chemical Company with the Tamms brand products can be a single-source supplier of concrete restoration and protective products, a systems approach has been developed for all major projects. The key to a permanent repair is to first determine the cause of the damage, then repair the damage using the right repair material and methods, and finally to protect the repaired structure from future deterioration. Tamms brand system recommendations are designed to be compatible with the structure, with the prevailing environment, and as an integrated product system. These product systems in combination with our well-trained technical sales force assures the engineer, contractor, and owner that a long lasting, permanent repair will be achieved.

David Dillon is the Seattle-area representative for The Euclid Chemical Company and the Tamms brand products.

The Euclid Chemical Company
(425) 338-4958
www.euclidchemical.com

Chad Green, P.E., SEAW Member since 2002, is our Company Spotlight Coordinator. If you would like to see your company in the spotlight, e-mail him at chad.s.green@gmail.com.

Projects

The John Ross Project - Portland, Oregon

The contractor for this project was Hoffman Construction Company. Speed Crete PM was used for structural concrete column repairs.

Canada Line Rapid Transit, Fraser River North Arm Bridge - Vancouver, British Columbia

The contractor for this project was RSL Joint Venture. Dural 100 was used as a Type IV bonding agent for this precast segmental box girder bridge.

I-84 Perry Creek Bridge - LaGrande, Oregon

The contractor for this project was the Oregon Department of Transportation. Dural 50 was used as an ultra low viscosity low modulus epoxy, and was applied to all concrete surfaces in order to seal cracks and heal the surface of the concrete.
News of Note

Exeltech Consulting, Inc. Acquires Seena Consulting Engineers, LLC.

Exeltech Consulting, Inc. has acquired Seena Consulting Engineers, a Seattle-based structural engineering firm. The merger took effect the first week of November 2006. This acquisition will strengthen Exeltech’s 13-person Seattle office with the addition of Seena principal, Abdul Chahin, PE, SE.

In his new role, Abdul will serve as Exeltech’s Director of Buildings and Facilities. Abdul has been an active member of the Seattle/Tacoma consulting community for over 15 years. His work includes the award-winning Tacoma Dome Station transport center, Federal Way’s new Community Center, various mid- to high-profile projects for the U.S. Navy and the U.S Coast Guard, and several on-call awards for the Port of Seattle. The addition of Seena’s resources to the Exeltech team will enhance its position as a structural, civil and environmental leader in the Seattle market for facility, transportation, and public sector projects.

“We are pleased to add Seena to our team since it not only adds to our internal resources, but offers our clients the depth of expertise and project management that they have come to rely on in our other offices.” Santosh Kuruvilla, President of Exeltech, announced at an annual company retreat held recently.

Exeltech Consulting, Inc., established in 1987, has evolved from a purely structural engineering firm to a full-service firm providing not only structural design, but also site-civil engineering, facility design and upgrades, roadway design, environmental consulting and all phases of transportation design and construction. Our technical engineering expertise and efficiency ensures value for dollars expended on every task we perform. Our staff of 43 operates from three regional offices located in Lacey and Seattle, Washington and Salem, Oregon.

In addition to these three offices, we maintain two field offices in Eddyville, Oregon and Port Angeles, Washington to provide the most responsive service to our clients during construction of two large design-build efforts.

For more information regarding this dynamic, growing firm, visit www.xltech.com

Meetings, Seminars

ASCE Seattle Section Geotechnical Group

24th Annual Spring Seminar
April 21, 2007
University of Washington

The Geotechnical Group of the ASCE Seattle Section is pleased to announce its 24th Annual Spring Seminar. A one-day symposium will be held at the UW to honor Dr. Robert D. Holtz, on Saturday April 21, 2007 at the University of Washington. Well-known for his research, educational, and professional achievements, Bob Holtz is also an esteemed member of our engineering community. The symposium will feature some of Bob’s mentors, colleagues and former students speaking on a range of topics.

Scheduled speakers include Bob’s mentors Clyde Baker (STS Consultants, Ltd.), Mike Jamiolkowski (Technical University of Torino) and Ray Krizek (Northwestern University), who was Bob’s Ph.D. advisor. Bob’s long-time colleagues Milton Harr (Purdue University), Barry Christopher (Christopher Consultants) and Steve Kramer (University of Washington) are also scheduled to speak. Presentations by some of Bob’s many former students, including Dana Humphrey (University of Maine) and An-Bin Huang (National Chiao Tung University), will round out the day.

The range of topics, the experience and stature of the speakers and the opportunity to honor Dr. Holtz’s achievements are certain to make this symposium of interest to current students, recent graduates, and experienced engineering and construction professionals alike.

Registration information will be available at http://www.seattlegeotech.org

NCSEA 2007 Winter Institute
January 26-27, 2007
Omni Hotel - New Orleans, Louisiana

A two-day seminar featuring lessons learned from Hurricane Katrina, Ivan, Rita and others. Even if you do not design buildings in the coastal areas of the United States, you will gain valuable information from this seminar that can be applied to your structures. Included in the program Friday is a tour of the damaged areas of New Orleans. For more information and registration, visit: www.ncsea.com

EERI Video Downloads Available

EERI is pleased to announce the availability of video downloads of live presentations from the important 2006 seminar, “New Information on the Seismic Performance of Existing Concrete Buildings.” Developed by the Pacific Earthquake Engineering Research (PEER) Center and funded by FEMA, they are intended for practicing design professionals and cover the following: Current Assessment Approaches (J. Moehle of UC Berkeley); Performance Assessment through Nonlinear Time History Analysis (G. Deierlein, Stanford); Behavior and Modeling of Existing RC Columns (K. Elwood, UBC); Beam-Column Connections (Moehle); Slab-Column Frames, Slender Wall Behavior and Modeling, and Lightly-Reinforced Wall Segments (J. Wallace, UCLA); and System Performance Assessment (Deierlein). These videos provide information on new procedures that effectively address problems of concrete buildings that can result in damage and potential for collapse. These procedures are based on the latest research at PEER on performance-based earthquake engineering. As a practicing design professional, you will gain valuable information that you can use today. Their cost is $25 per presentation for EERI members; $45 per presentation for nonmembers. All orders include a bonus presentation: an historical overview by Professor Moehle. To order online, visit http://www.eeri.org/cds_publications/catalog/. These videos are listed under “New Products.”
TRUST YOUR CAR WITH A MECHANIC WHO ISN’T CERTIFIED?

What about your building or bridge? Insist on AISC certified fabricators and erectors. For more information on AISC certification, call 1-312-670-2400 or visit aisc.org.

There’s always a solution in steel.
Career Opportunities for Structural Engineers

Live in the north end? Thinking of moving to the north end? Would you like a reverse commute?

Imagine living only minutes away from your office and not having to spend hours per day away from your family commuting to Seattle or Bellevue for work.

Reid Middleton is an employee-owned and -focused structural and civil engineering firm with a 53-year history of design excellence. Our north-end location offers an easier, more convenient and affordable lifestyle poised within one of the country’s most dynamic consulting engineering markets.

Reid Middleton engineers are encouraged to be leaders in their design practice and to embrace technology to solve problems to help our clients succeed. We are experts at creating outstanding solutions by providing the right balance of technical expertise, leadership, management, and teamwork.

If this sounds interesting to you and you have a BSCE or MSCE we would like to help you build your career within our diverse and dynamic firm. PE preferred for candidates with five or more years experience. Send your resume to jobs@reidmiddleton.com

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Reid Middleton
720 - 134th Street SW
Suite 200
Everett, WA 98208
www.reidmiddleton.com
EOE
Staff Engineers

Structural Engineering design firm seeks outstanding individuals to fill immediate openings for Staff Engineers in both our Seattle and Tacoma offices. All experience levels considered and encouraged. We’re a mid-size dynamic company recognized for our team work, creativity and innovation. We combine a very progressive benefits package with a fun, flexible and informal office culture. Email resume to bbresko@swensonsayfaget.com or fax attention Blaze Bresko at 206-443-4870. No phone calls please.

Structural Engineers

rfa structural engineers is seeking a structural engineer with at least three years of design experience to join our team in Seattle. We are a dynamic family friendly firm run by one of Seattle’s top professional engineers Robert J. Fossatti. Our office is located in downtown Seattle. We have a relaxed work environment that has “First Friday’s”, where everyone is invited to dine together at one of Seattle’s many spectacular restaurants. We offer an outstanding compensation and benefits package that includes medical, dental, vision, disability and life insurance. We also pay for 90% of your spouse and dependents insurance premiums, without a waiting period!

You will also be eligible right away for the company quarterly bonus program!

You will work directly with some of Seattle’s best architect’s working on a broad range of projects that include both commercial and residential buildings.

Structural Engineers

King County

ENGINEER III
(CIVIL-STRUCTURAL ENGINEER)

METRO TRANSIT DIVISION
DESIGN & CONSTRUCTION SECTION

Annual Salary Range: $54,017 - $76,212 (2004 Rates)

Job Announcement No: 06AB6441

Closes: 12/20/06

This position is responsible for preparing structural engineering designs, specifications and cost estimates for transit capital projects. A Bachelor of Science degree in civil engineering, an Engineer-in-Training certificate, and two years of experience as a civil engineer are required.

For a complete description of duties, qualifications, and instructions on how to apply, see Job No. 06AB6441 on our web site at http://www.metrokc.gov/jobs or call (206) 684-1179.

King County is an equal opportunity employer. Job announcements are available in alternative formats for persons with disabilities. 1-800-833-6388 TTY.
Opportunities

Structural Engineers

Peter A. Opsahl Structural Engineering is a young, dynamic and growing Seattle firm. We are located in the Capitol Hill area and are currently looking for Structural Engineers with 2 to 5 years of experience. A competitive salary and benefits package is offered. We have a flexible and relaxed work environment and our projects cover all material types. Please email admin@paostructural.com with letters of interest and resumes.

INCA Engineers, Inc. has openings in its Bellevue, WA office for mid-level structural engineers, with 3 to 8 years experience in analysis and design of concrete and steel structures. MS in Structural Engineering is preferred; EIT and experience with bridge and marine structures is desirable.

INCA is looking for talented structural engineers. You will work with the premier engineering firm and establish a career path. Join our innovative and exceptional team! INCA Engineers, Inc., ATTN: SEAW, 400 112th Avenue NE, Suite 400, Bellevue, WA 98004.

INCA offers competitive compensation packages, an opportunity for company ownership participation, and diverse, interesting projects. Please send resumes to jobs@incainc.com or to the following address: INCA Engineers, Inc., ATTN: SEAW, 400 112th Avenue NE, Suite 400, Bellevue, WA 98004.

INCA is a medium-sized company of professionals and support staff who emphasize innovation and design excellence. Structural projects include bridges, retaining walls, transit centers, navigation locks, dams, fish bypass structures, and hydro-power plants. Project locations have ranged from the Puget Sound region to New Orleans, and to Mexico, Puerto Rico, the Panama Canal, and the Philippines. Additional details can be found at www.incainc.com.

Seattles Structural PS Inc is a downtown Seattle firm looking for engineering candidates at all experience levels. Share in our vision of client-based service and hard working enthusiasm on diverse and challenging projects in the US and overseas. Join our collaborative staff of 10 in one of Seattle’s most vibrant office towers, specializing in public, commercial, retail, industrial and specialty projects. We offer excellent benefits and stimulating work in a casual environment. Visit our website at www.SeattleStructural.com

Send resumés to: Pete Pawlak, PE, 1420 Fifth Avenue, Suite 425, Seattle, WA 98101.

206-343-3000 phone, 206-343-3013 fax, PPawlak@SeattleStructural.com

INCA, founded in 1983, is a medium-sized company of professionals and support staff who emphasize innovation and design excellence. Structural projects include bridges, retaining walls, transit centers, navigation locks, dams, fish bypass structures, and hydro-power plants. Project locations have ranged from the Puget Sound region to New Orleans, and to Mexico, Puerto Rico, the Panama Canal, and the Philippines. Additional details can be found at www.incainc.com.

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BECOME PART OF AN ENVIRONMENTAL ENGINEERING and CONSULTING FIRM WHERE YOU CAN DELIVER YOUR FINEST WORK.

Brown and Caldwell, a nationally recognized environmental engineering and consulting firm has an excellent career opportunity for a Structural Engineer to join our Seattle, Washington office. Are you a self-directed person who values challenging work and a creative learning environment? If so, then come be a part of our team! We are looking to hire immediately.

Structural Engineer III - Requisition #14-30-06-211

Responsibilities: Assist with detailed structural engineering on design projects for new and existing water and wastewater treatment systems, as well as other types of structures under the supervision of a registered professional engineer. Support project design teams and other engineers in development of specifications, detailed drawings, reports and plans.

Qualifications: BS degree in engineering (civil with structural emphasis) and a minimum of two years of experience with industrial structures is preferred. Master Degree in structural engineering is desirable. Prefer co-op program engineering experience in the design of water bearing and industrial structures with a consulting engineering firm or a public entity.

We offer a competitive salary, benefits and 401(k). For more details visit us at www.brownandcaldwell.com. Please reference position/requisition number in cover letter and e-mail mthullen@brwncaLd.com. We value workforce diversity. EOE/AA.
Are Your 2006 Dues Paid?

LAST CHANCE TO PAY YOUR 2006 DUES!

The following memberships will expire on December 31. Original invoices were e-mailed in May, with reminders emailed in August and mailed in September. Please log in to the SEAW website to pay your dues. (Go to www.seaw.org. Default log in name is your e-mail address, and password is your first name). Contact Lynnell at the SEAW office if you have questions about your membership.

RENEW TODAY!

Baerwald, Dennis H
Batt, Madison
Blans, Bart
Booker, David R
Bowman, James D
Bowman, Ronald C
Bradley, David
Briggs, Greg
Chahim, Abdul J
Chan, William FC
Chang, Susan W
Chhokdean, Sowady
Chin, Edward W
Conrad, Philip (Kelly)
Dethlefs, Richard A
Diedrich, Paul S
Dorn, Gerald L
Dunham, Lee
Eng Brian
Farah, Reina
Fett, Nick
Furtado, Aeli
Gokey, Jacob
Goupil, Jennifer
Griffith, Gerald Robert
Hagensen, James F
Halverson, Richard R
Hampson, Joel Alexander
Ivanov, Vladimir I
Jodh, Deepali Santosh, Kim, Kevin
Korpi, David W
Kouretchian, Mohammed
LaFave, Kelly D
LaNier, Ryder S
Lau, Chun C
Ma, Xian (Mark)
Marks, Andrew E
Martin, Bradley Andrew
Mattison, Jim
McGuire, Jeff
Miller, Steven P
Neuharth, Melissa
Olson, Craig D
Osses-Henriquez, Claudio Esteban
Owen, Craig
Pihl, Marshall
Ryan, Patrick T
Ryan, Shawn P
Sakamoto, Gregory F
Sandusky, Charles A
Sherman, Clyde K
Simons, Kenneth B
Soli, Bharat Ratna
Stainer, Craig A
Swanson, Kris
Taft, Buckie A
Thompson, Robert
Thurfjell, Mans R
Treyger, Semyon
Williams, Charles J
Wipplinger, Lisa