



# EQUILIBRIUM

Newsletter of the Seattle Chapter  
Structural Engineers Association of Washington

JANUARY 2007

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## January Mini-Seminar

Sponsored by  
**AUTODESK**  
and  
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Chuck Mies, Technical Specialist for the Building Solution Division of Autodesk, will introduce and demonstrate Building Information Modeling (BIM)

## What is BIM and How Will It Impact the Design Process?

**M**ake a resolution to attend the Seattle Chapter's January dinner meeting and learn about Building Information Modeling (BIM). Join us for a lively discussion with panelists David Yuan, AIA, of NBBJ; Jon Magnusson, CEO of Magnusson Klemencic Associates; and Chuck Mies, Associate AIA, Autodesk.

### About the Panelists:

**David Yuan** is an architect and a principal with NBBJ, where he is a leader in the commercial practice. Specializing in mixed use projects, David has led NBBJ design team efforts on WaMu Center, expansion of the Seattle Art Museum and Pacific Place. David holds a Masters In Architecture degree from Harvard University, serves on the Board of the Downtown Seattle Association and is a former Chair of the Pioneer Square Preservation Board.

**Jon Magnusson** is Chairman/CEO of Magnusson Klemencic Associates (MKA), a 162-person structural and civil engineering firm in Seattle that has completed \$38



David Yuan



Jon Magnusson



Chuck Mies

billion worth of projects in 46 states and 42 countries. A licensed professional engineer in 26 states, Jon has been the principal structural engineer for more than \$2 billion worth of projects in the last five years alone. Jon has recently given several presentations on BIM, discussing the strategies and implications of incorporating BIM on real-world projects. He is a strong advocate for "smart BIM," i.e., taking advantage of the benefits brought by the technology while avoiding the pitfalls.

**Charles E. (Chuck) Mies**, Assoc. AIA is a Technical Specialist for the Building Solution Division of Autodesk. In this

role Chuck travels internationally to help architecture and engineering firms understand the impact of BIM and Integrated Practice on their firms. Working with a wide range of clients from large, multi-national firms to small, sole proprietors, Chuck has seen the impact of integrated practice on firms of all sizes. Chuck has also spoken at several AIA events on these industry trends.

### January Meeting Business:

**Bylaws Vote:** Members present at the January meeting will vote on a proposed State bylaws change to allow Professional Associate members hold non-executive board positions at the Chapter level.

**Board Nominating Committee:**  
A nominating committee will be appointed to select candidates for the 2007-2008 Seattle Chapter Board.

## Meeting Information

**Date:** Tuesday, January 23, 2007  
**Place:** College Club  
505 Madison Street, Seattle  
**Time:** 5:15–6:00 FREE Mini-Seminar  
6:00–6:30 Social Hour  
6:30–7:30 Dinner  
7:45–9:00 Program  
**Menu:** Cornish Game Hen, Salad,  
German Chocolate Cake  
**Cost:** SEAW Members: \$30.00  
Non Members \$35.00  
Students (with ID) \$15.00  
Late registration, add \$ 5.00

**Reservation deadline:**  
5:00 PM Thursday, January 18th.

**Register Online at [www.seaw.org](http://www.seaw.org)**

**Prepayment is appreciated**

Reservation may also be made by email to [seaw@seaw.org](mailto:seaw@seaw.org) or by phoning 206/682-6026

**\*No-shows will be charged full price\***

## FROM THE BOARD: Building Codes for the New Year

**H**appy New Year! The coming of 2007 brings new building codes in Washington – the 2006 I-codes. This means you'll be getting familiar with the 2006 IBC and ASCE 7-05 as they start being enforced this summer. Another I-code – the 2006 International Existing Building Code (IEBC) – also might be of interest to you. Though not formally adopted in Washington, it is included as an appendix to the state code, which means local jurisdictions can adopt it if they want. In addition, architects and engineers may want to use it under the alternative methods provision of the building code for dealing with existing buildings.

What is the 2006 IEBC and where did it come from? This is actually the second edition – the 2003 IEBC was the first edition. Like other first edition codes (remember the 2000 IBC?), it was full of inconsistencies, holes, and other bad code stuff. It was not adopted by the state, although some jurisdictions, such as Tacoma, did adopt portions of the 2003 code. Through an effort by SEAW, SEAOC, and others, the structural sections of the 2006 IEBC are much improved.

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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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Since the code is still somewhat new, it will be a non-binding appendix so that users can become more familiar with it before it becomes the law of the land.

Overall, the IEBC is based on codes for existing buildings originally developed on the east coast. The structural portions have their origin in the Uniform Code for Building Conservation (UCBC) and several seismic retrofit ordinances developed in California. The IEBC covers most types of renovations to existing buildings: repairs, alterations, additions, and change of use. It includes provisions for structural, fire and life safety, and other disciplines. Its essential purpose is to provide a practical basis for making renovations to existing buildings without requiring that the renovated building comply with all the code provisions for new buildings, while still providing a reasonable measure of public safety.

So why should we care about it if it isn't enforceable without specific adoption? The IEBC contains some very useful provisions, not least of which are scoping requirements for some of the seismic evaluation and rehabilitation standards that we are now using (ASCE 31 and FEMA 356). It also contains detailed provisions for evaluating and rehabilitating several classes of older buildings deemed especially seismically hazardous (URMs, tilt-ups, and wood frame construction with soft first stories). While most of the larger jurisdictions in our state have some types of requirements for existing buildings, smaller jurisdictions may not have such measures. Thus, we now have a basis for dealing with existing buildings in the form of a published national code recognized by the state. As engineers trying to figure out how to approach existing buildings in jurisdictions where this type of guidance does not exist currently, there

is now some basis for a renovation design. For this reason, this could be a good tool for all engineers dealing with existing buildings. For more information, come to the mini-seminar preceding the April SEAW dinner meeting. The topic will be the IEBC.

The IEBC contains some triggers for seismic upgrades for deficient buildings where the renovation scope is significant (for example, major repairs to earthquake-damaged buildings, substantial alterations, or change of use to a more hazardous occupancy). These triggers are generally consistent with the standard of care in many jurisdictions: where significant renovations are being proposed, some minimum level of life safety (including seismic, exiting, fire protection, etc) should be achieved in the renovated building.

One of the major discussions in the committee that re-



viewed the IEBC for state adoption, involved whether or not the IEBC goes far enough in requiring seismic upgrades. The recent Seattle Fault Scenario project concluded that the most hazardous types of buildings (URMs, tilt-ups, and non-ductile concrete frames) represented serious risks in the scenario event. So, should the state or local jurisdiction be more proactive in requiring these buildings to be seismically upgraded? Should there be mandatory upgrade statutes? Should the various triggers for upgrading buildings (extensive repair, substantial

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# Meetings and Seminars

## SW Chapter SEAW's 11th Annual Architectural & Engineering Tradeshow

February 13, 2007.

This year's event, to be held at the **Tacoma Dome Exhibition Hall**, will feature:

- Exhibitor Presentations
- Vendor Display Areas
- Complimentary Buffet & Beverages

AIA Learning Units will be offered at selected exhibitor presentations. This event is free for all pre-registered attendees.

Our annual tradeshow is the primary fundraiser for SEAW, a non-profit organization. All proceeds from this event go towards scholarships and an equipment grant for Saint Martin's University in Lacey, Washington.

Visit the Tradeshow Website at [www.seawtradeshow.com](http://www.seawtradeshow.com) for more information or send your RSVP to Sarah at the SEAW-SW office, [seawswchapter@comcast.net](mailto:seawswchapter@comcast.net).

## ASCE Seattle Section Geotechnical Group 24<sup>th</sup> Annual Spring Seminar

April 21, 2007

University of Washington

The Geotechnical Group of the ASCE Seattle Section is pleased to announce its 24<sup>th</sup> 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>

For further information contact: AH (Tony) Rice c/o Golder Associates Inc. 425/883-0777 ext 2104, or email: [trice@golder.com](mailto:trice@golder.com)

## EERI Seminar Series Performance-Based Earthquake Engineering for Structural and Geotechnical Engineers

**Seminar 1: Practical Applications to Shallow Foundations March 12, 2007, Hyatt Regency Bellevue**

This seminar series addresses issues of interest to both structural and geotechnical engineers in the rapidly emerging application of performance-based procedures to the seismic evaluation and design of structures. Properly implemented, these techniques can provide better and more economical designs for new construction and for the retrofit of

existing facilities than the traditional prescriptive code approach. This first seminar in the series will cover the basic principles of soil-structure interaction and current guidelines for practice. The focus will be on spread footings and case studies of actual project applications by practicing engineers. Future seminars are anticipated to cover deep foundations, seismic pressures on basements and embedded structures, new procedures for ground motions, and other topics of practical interest to structural and geotechnical engineers. For registration information visit [www.eeri.org](http://www.eeri.org).

## WABO Education Institute

The Washington Association of Building Officials will hold its 6th Annual Education Institute April 2 through 6, 2007 at the Hilton Conference Center in Vancouver Washington. Details and registration information can be found at [www.wabo.org/AEIRegistration2007.htm](http://www.wabo.org/AEIRegistration2007.htm)



## Mark Your Calendar

January	2007 Dues invoices e-mailed
Jan 23	Chapter Board Meeting Seattle Chapter Dinner meeting: <b>What is BIM and How Will It Impact Structural Design? Vote on Proposed change to State By-laws</b> Selection of Board Nominating Committee
Jan 26	State Board Meeting Deadline for February <i>Equilibrium</i>
Jan 26-27	NCSEA Winter Institute—New Orleans <a href="http://www.ncsea.com">www.ncsea.com</a>
Feb 18-24	National Engineers Week — <a href="http://www.eweek.org">www.eweek.org</a>
Feb 23	Deadline for March <i>Equilibrium</i>
Feb 28	Chapter Board Meeting Seattle Chapter Dinner meeting: <b>Renovation of Tacoma's Historic Stadium High School</b> — Joint meeting with ACI
Mar 23	Deadline for April <i>Equilibrium</i>
Mar (TBA)	Chapter Board Meeting Seattle Chapter Dinner meeting: <b>ASCE Hosts Annual Joint Meeting</b>

## FROM THE BOARD: Continued

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alterations, etc) that are contained in the IEBC be formally adopted by the state (rather than remaining in the appendix)? Should there be some uniform statewide standard or should this be left up to each city or county?

As structural engineers, it is easy to say, "yes, there are many hazardous buildings out there that need to be fixed and soon." However, there are financial constraints and certainly other priorities for both public and private funding. This topic requires serious study, and in my opinion, these are good questions to

ask and good discussions to have. As the state considers whether to fully adopt the IEBC or leave it as an appendix, I'd like to see SEAW take a leading role in the discussion of seismically hazardous buildings. While these issues really come down to public policy decisions, we engineers are in the best position to explain the seismic hazards with older buildings to the broad community. We should aim to provide honest and fair evaluations of existing buildings so that owners and building officials can make good decisions about how

to deal with the risks associated with seismically hazardous buildings.

One of SEAW's main goals is to continue to provide resources to help local engineers use the latest editions of the I-codes, including the IEBC. The Earthquake Engineering Committee has an Existing Building Task Group charged with considering many aspects related to existing buildings. If you have any questions about the IEBC, be sure to attend the April mini-seminar or forward your questions to the Task Group at my

email ([psomers@mka.com](mailto:psomers@mka.com)).

Here's to a happy and prosperous 2007...

- Peter Somers

*Peter Somers is a Senior Associate with Magnusson Klemencic Associates in Seattle, where he specializes in renovation and seismic rehabilitation of existing buildings. Since joining SEAW in 2001, Peter has been an active member of the Earthquake Engineering Committee and is currently the chairman of its Existing Building Task Group.*



### COMING IN FEBRUARY

Tuesday, February 27th at the College Club

Joint meeting with ACI

**K. Casey Caughie, P.E., of MKA will discuss the renovation of the historic Stadium High School in Tacoma.**

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## Career Opportunities for Structural Engineers

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**Responsibilities:** Provide detailed structural engineering on design projects for new and existing water and wastewater treatment systems, as well as other types of structures. 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 five years of experience with industrial structures is preferred. Master Degree in structural engineering is desirable. Washington PE Required, SE preferred.

We offer a competitive salary, benefits and 401(k). For more details visit us at [www.browncaldwell.com](http://www.browncaldwell.com). Please reference position/requisition number in cover letter and e-mail [mthullen@brwncald.com](mailto:mthullen@brwncald.com). We value workforce diversity. EOE/AA.

# Opportunities

## Structural Engineer

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@paostrucutural.com](mailto:admin@paostrucutural.com) with letters of interest and resumes.

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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.

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## Structural Engineer

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.

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## Engineer



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

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## Structural Engineer

Looking for a Structural Engineer who appreciates the finer things in life.

Northwest Datum & Design is looking for a Structural Engineer. NWDD is a small, growing civil/structural and land surveying company which has served the Burlington, WA,

area for the past 15 years. Nestled between the Cascade Mountains and Puget Sound, Burlington is about an hour north of Seattle, WA.

NWDD is a friendly work environment utilizing a progressive, participative management style. We're looking for people who value their integrity and want to help create a fun, productive, successful company. The position requires a BSCE with a structural emphasis, or equivalent experience; a P.E. license; and five years' experience of successful, independent completion of structural engineering projects.

NWDD is located in the beautiful Skagit Valley, about an hour north of Seattle, Washington. Nestled between the Cascade Mountains and the Puget Sound, Burlington offers a more relaxed pace of life, with easy access to cities and an abundance of recreational delights. We offer competitive salary and benefits, great co-workers, and more. For more information, contact [hr@nwdd.com](mailto:hr@nwdd.com).

## Structural Engineer

INCA seeks staff for its expanding structural group!

With a reputation for engineering excellence in the design of flood control, locks, and dam structures, 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. 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.

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## City of Seattle

**Structural Plans Engineer Journey or Senior**  
\$5,112 to \$5,968/month salary range

### Position Duties

Unique opportunity with the City of Seattle for a structural engineering professional to be part of the City of Seattle's future. Review construction plans for compliance with structural engineering codes and standards. Analyze difficult or unusual structural engineering and other life safety features of plans for proposed new, or additions and alterations to existing structures for conformance with relevant regulatory standards. Review fire and life standards and coordinate the plan review process within the City. Meet with architects, engineers, contractors, and owners to resolve code issues.

### Required Qualifications

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### Desired Qualifications

Strong written and oral communication skills. Review experience in fire and life standards preferred. Please apply online at [www.seattle.gov/jobs](http://www.seattle.gov/jobs).

# Opportunities

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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](http://www.incainc.com).

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

## Project Manager Senior Bridge Project Manager

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company programs. May plan, organize, and supervise work of medium to large staff of professionals and technicians. Although may serve as project manager on larger projects, project management is not sole focus of position.

### Experience Required:

Requires a bachelors degree, P.E., and 10 or more years of experience.

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## Structural Engineer



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## Structural Engineer

### Seattle, Washington

Come join the team at Tetra Tech KCM! Tetra Tech/KCM, Inc. ([www.tetrattech.com](http://www.tetrattech.com)) has specialized in municipal engineering, architecture, and applied science in the Pacific Northwest for over 60 years with a focus on facilities/buildings, water, wastewater, surface water, and fisheries for mostly public clients. The structural group in the Seattle office consists of 6 engineers providing analysis and design for buildings, marine and transportation structures, water and wastewater facilities, fisheries

facilities, transit maintenance facilities and seismic rehabilitation projects. Much of our work is in the prime consultant role with our in-house water, wastewater, transportation, and fisheries engineers and architects. The majority of our projects are for public clients including federal, state, city and county agencies.

We are seeking a self motivated structural engineer with 2-5 years of design experience to join our Engineering Services Group. The ideal candidate will have design/analysis experience with structural steel and concrete structures. Experience with timber and masonry is a plus. BSCE and E.I.T required, P.E. and AutoCAD experience preferred. We offer competitive wages, benefits and the opportunity for growth. Please email resumes to: [Danielle@scm-ae.com](mailto:Danielle@scm-ae.com).

## Civil/Structural Engr.

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**QUANTUM** | CONSULTING ENGINEERS

### STRUCTURAL ENGINEERING: From Vision to Reality

Are you able to prepare structural calculations and construction drawings for various project types? Do you have experience in structural detailing, seismic design, and possess a B.S. degree in engineering?

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# Opportunities

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## Structural Engineer Spokane, Washington

DCI Engineers is one of the fastest-growing engineering firms on the West Coast, and was named as one of the 2006 "Best Firms to Work For" by Structural Engineer magazine. Our Spokane office is actively seeking structural engineers of all experience levels who would like the opportunity to work for the top structural engineering firm in a city consistently voted one of the most livable and affordable in the nation. Please email your resume to [mlindsay@dc-engineers.com](mailto:mlindsay@dc-engineers.com)

## Structural Project Manager

Bellevue, Washington

DCI Engineers is currently seeking Structural Project Managers for our Bellevue office. Applicants should be able to demonstrate abilities in team management and communication, project planning, scheduling, writing, organization, documentation, coordination, contracting and budgeting. Experience with all building materials and build-

ing types preferred. Projects will be diverse including commercial, mixed use and residential. PE Required. Please submit resumes to: [resumes@dc-engineers.com](mailto:resumes@dc-engineers.com) or via mail to HR @ DCI Engineers 10900 NE 4<sup>th</sup> St, Ste 1200, Bellevue, WA 98004.

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**Help Wanted Ads** are accepted through the fourth Friday preceding the publication month. The cost for text ads is \$50 per insertion **pre-paid**, with a 10% discount for ads running two or more consecutive months. Ad copy should be limited to **180** words or less and must be submitted by e-mail. Advertising order forms and information about display advertising, can be requested by e-mailing [seaw@seaw.org](mailto:seaw@seaw.org).

**Help wanted ads must be purchased through the newsletter to be included in the SEAW online job board.**

## Watch for Your 2007 Dues Notice!

### Members to be Invoiced Electronically

In an effort to reduce paper waste, administrative time and postage costs, SEAW Members will be sent notice of their 2007 dues by e-mail. Notices should be sent by mid-January, and members are encouraged to pay their dues online by logging in to the members-only portion of the SEAW website at [www.seaw.org](http://www.seaw.org).

**Login Instructions: Your default login name is your e-mail address, and your password is your first name. Please assign a new password when you access your membership.**

If you wish to pay your dues by credit card, please pay online for maximum security. Credit card payments mailed to the SEAW office are processed online AND must be kept on file for one year.

**Reduced administrative costs keep our dues rates low!**

### SEAW NEEDS YOUR PARTICIPATION! JOIN A COMMITTEE TODAY!

PROGRAM/HOUSE	Shelley Clark	206/292-1201	sclark@mka.com
*EXAM	Ed Huston	206/448-8448	huston@smithhustoninc.com
*EARTHQUAKE ENG	Mike Valley	206/292-1200	mvalley@mka.com
*WIND ENGINEERING	Don Scott	253/383-2797	dscott@pcsainc.com
NEWSLETTER	Scott Adan	206/622-5822	scott.adan@kpff.com
*PUBLIC INFO	Steve Arnold	425/827-5995	sarnold@pdg-wa.com
*CODE ADVISORY	John Tawresey	206/622-5822	johntaw@aol.com
REFRESHER CRS	Chevy Chase	425/778-8500	chevy@cgengineering.com
*LEGISLATIVE	Robert Bourdages	425/827-5995	rbourdages@pdg-wa.com
*PROF PRACTICES	Bob Morrison	360/779-4244	bob@rlmorrisonengr.com
*EMERGENCY PREP	David Swanson	425/741-3800	dswanson@reidmidd.com
PRES & AWARDS	Ade Bright	206/625-3777	ab@brighteng.com
ENGINEER/YR	Ed Huston	206/448-8448	huston@smithhustoninc.com
*BUILDINGS	Philip Brazil	425/741-3800	pbrazil@reidmidd.com
YOUNG MEMBERS	Andrew McGlenn	206/682-0081	mccglenn@jacobsf.com
EDUCATION	Cary Kopczynski	425/455-2144	caryk@ckcps.com

\*Denotes Statewide Committee



**STRUCTURAL ENGINEERS ASSOCIATION  
of WASHINGTON • Seattle Chapter**

PO Box 44 • Olympia WA 98507 • 206/682-6026 • www.seaw.org

**Committees & Chairs**

House/Program	Shelley Clark	Earthquake Eng	Mike Valley	Presentations/Awards	Brian Glover
Code Advisory	John Tawressey	Legislation	Robert Bourdages	Professional Practices	Bob Morrison
Exam Liaison	Ed Huston	Wind Engineering	Don Scott	Emergency Prep	Dave Swanson
Refresher Course	C. Chevy Chase	Finance & Auditing	Ted Smith	Public Information	Steve Arnold
Scholarship	Bill Mooseker	Newsletter	Scott Adan	Building Committee	Philip Brazil

**PRESORTED  
FIRST CLASS  
US POSTAGE  
PAID  
SEATTLE, WA  
PERMIT #5506**

## Membership

### APPLICATIONS FOR MEMBERSHIP

**Eric Anderson**  
Magnusson Klemencic Associates  
BSCE '96 WSU  
Licensed PE, WA  
Class: Professional Associate

**Robert P. Baxter**  
Magnusson Klemencic Associates  
MSCE '02 U of WA  
Licensed EIT, WA  
Class: I Associate

### APPLICATIONS ACCEPTED

**Alan Findlay**  
Professional Associate

**Michal M. Fitz**  
Professional Associate

### MEMBERSHIP CANCELLATIONS

The following members have been sent letters of cancellation for non-payment of 2006 membership dues. An unbroke membership may be restored by payment of 2006 and 2007 dues plus a \$15.00 reinstatement fee. Membership may be started over by paying just 2007 dues plus the \$15.00 reinstatement fee.

Baerwald, Dennis H  
Blans, Bart  
Booker, David R  
Bowman, James D  
Bradley, David  
Briggs, Greg  
Chahim, Abdul J  
Chan, William FC

Chang, Susan W  
Chhoukdean, Sowady  
Conrad, Philip (Kelly)  
Dethlefs, Richard A  
Diedrich, Paul S  
Dorn, Gerald L  
Dunham, Lee  
Eng Brian  
Farah, Reina  
Furtado, Aeli  
Gokey, Jacob  
Goupil, Jennifer  
Griffith, Gerald Robert  
Halverson, Richard R  
Ivanov, Vladimir I  
Jodh, Deepali Santosh,  
Kim, Kevin  
Kouretchian, Moham-  
med

LaFave, Kelly D  
LaNier, Ryder S  
Marks, Andrew E  
Martin, Bradley Andrew  
Mattison, Jim  
Miller, Steven P  
Neuharth, Melissa  
Owen, Craig  
Sakamoto, Gregory F  
Sandusky, Charles A  
Sherman, Clyde K  
Simons, Kenneth B  
Soli, Bharat Ratna  
Stainer, Craig A  
Taft, Buckie A  
Thompson, Robert  
Thurfjell, Mans R  
Treyger, Semyon  
Williams, Charles J