

## JANUARY GENERAL MEETING

### The LEED™ Rating System and Its Application to Structures

### Schedule

#### Mark Your Calendar (2003)

##### General Membership Meetings

(Breakfast 7:30 a.m.)

January 15  
March 18  
May 20  
July 15  
September 16

##### Business Practice Committee Meetings

(Breakfast 7:30 a.m.)

February 12  
April 8  
June 10  
August 12  
October 14

##### SEAC Board of Directors Meetings

(7:30 a.m.)

January 8  
February 5  
April 1  
June 3  
August 5  
October 7

##### Annual Dinner Meeting

November 4  
6 - 9 p.m.

**L** EED Points, Green Buildings—they are phrases we hear increasingly frequently. The LEED, or Leadership in Energy and Environmental Design, Green Building Rating System™ is a voluntary, national standard for developing sustainable buildings. Various entities, including both public and private sectors, are requesting buildings that utilize the standard. Whether we as structural engineers are individually interested in promoting green buildings, our Clients have that focus, or an Owner has requested a sustainable building, there is incentive for us to increase our awareness of the LEED™ system.

Many criteria apply to Architects and HVAC engineers, but structures can play a role too. SEAC is fortunate to have two knowledgeable guest speakers to teach us how LEED™ points can be achieved with a building's structural system. Both **Ned S. Kirschbaum** and **Gregory R. Gidez** are LEED™ Accredited Professionals who have applied this knowledge as Architects with Fentress Bradburn Architects, Ltd. Ned Kirschbaum began his career in the building industry with a BS in Architectural Engineering with special honors from the University of Colorado. He is now a registered Architect in Colorado and Washington. As a Project Architect and team leader, he has managed a broad variety of significant national and international projects, including an \$1,500,000,000 airport in Qatar, the U.S. Embassy in Abu Dhabi, an \$80,000,000 hotel/casino in South Dakota, and two high-rise office towers in Kuwait City. In January of 2001 Mr. Kirschbaum was named Director of Production at Fentress Bradburn Architects, Ltd. He also established the curriculum for Fentress Bradburn University, an AIA/CES registered provider.

In addition to his LEED™ Accreditation, Mr. Kirschbaum is a member of the American Institute of Architects, the Construction Specifications Institute and the American Society for Industrial Security. He serves on the National AIA Building Science Advisory Group, is Chairman of the Colorado AIA/AGC/ACEC Liaison Committee, and Chairman of the Denver Chapter CSI Academic Affairs Committee.

Gregory Gidez began his career in Architecture with a Masters from the University of Colorado where his focus was the Energy in Architecture program. Mr. Gidez has been with the firm of Fentress Bradburn Architects for 22 years and is licensed in Colorado and California. As a Senior Project Manager, he has been responsible for the design of over \$850 million of constructed projects, totaling over 4.7 million square feet. This includes many varied building types including sports facilities, government centers, office buildings, and laboratories.

As committed as Mr. Gidez is to architectural excellence, he is equally committed to building sustainable, energy efficient and healthy buildings. He has championed LEED™ concepts in his projects, with many recognized for their energy efficiency and exceptional indoor environments. Greg served as project manager on the California Department of Education Headquarters, Block 225, the most ambitious green-building initiative and the largest office building project ever undertaken by the State of California. In addition to an overview of LEED™ System, application of sustainable design principles to the Education Headquarters will be described in the March 18 morning program.

**Date:** Thurs. March 18, @ 7:30 am

**Speaker(s):** Ned S. Kirschbaum  
Gregory R. Gidez

**Location:** Renaissance Denver Hotel  
3801 Quebec Street

(south of the I-70 and Quebec intersection)

#### Don't Miss Out

Please e-mail your reservations to Caryn Bauer at: [cbauer@martinmartin.com](mailto:cbauer@martinmartin.com).

**Reservations MUST be made By 12:00 noon on Monday, March 15, 2003.**

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Information for inclusion in the newsletter  
must be received one month prior to the next  
general meeting.

Caryn L. Bauer  
SEAC Executive Assistant

## Natalie's News.....

Progress has been occurring on a number of the objectives I mentioned in the last newsletter, and I would like to update you on a few. One objective—expansion of SEAC's interaction with AIA is one hope that is coming to fruition. In addition to the work of the Architectural Liaison Committee, we are fortunate to have active members of AIA willing to present a seminar on LEED™ criteria applicable to structural systems at our next breakfast meeting. I think it will be a worthwhile, interesting topic for all of us.

Last month, I also mentioned that National Certification of Structural Engineers was likely to be approved. Results of the vote from member organizations of the National Council of Structural Engineering Associations were as follows: 22 yes and 11 no. The editorial in February's *Structure Magazine* by John Joyce, President of NCSEA, provides more description of the results. For those of you that are concerned that our state does not require separate licensure for structural engineers from other types of professional engineers, this may be good news. Likewise, for those of you that are concerned that Colorado requires no continuing education, it may be good news. For most of you, though, this will not be well received news. - Colorado's vote was "No."

Certification is something that would certainly benefit my smaller clients: home and business owners. They do not necessarily have the resource of "word of mouth" that established firms in the building industry have when they need a structural engineer's help. It must be a scary process to sign a contract with a stranger who supposedly knows how to make one's structure safe. Hiring a certified structural engineer, who automatically has a defined minimum level of knowledge, would remove much of the risk. A parallel scenario I have recently experienced is an appreciation of the letters "CPA", when making cold calls in search of an accountant.

It is important to note that applying to become a certified structural engineer is optional. No entity insists upon it and it is unknown whether any entity ever will. It will take time for the certification model to be implemented, but it will be interesting to see how this affects our field.

On to an entirely unrelated topic. The question of whether members of SEAC can use its logo on their business cards or correspondence came up last month. The Board discussed it at our last meeting and came to the conclusion that as long as "member of" is clearly presented with the logo, it is acceptable. That would clarify that an individual member is not representing the entire organization.

Lastly, I would like to thank **Bob Hunnes** for sending the memorial of Chris Chop. I am grateful to have had the opportunity to work with Chris and know we will miss him.

## *In Memory of Chris Chop, Structural Engineer: 1956 - 2003*

In 1981, with a structural engineering degree from UW Milwaukee, **Chris Chop** imposed on one of his sisters (who happened to be a head-hunter) to help him find a job in Colorado's Front Range. Her efforts resulted in an interview at JVA where we were impressed by his atypical construction experience with plumbing and mechanical subcontractors. He had already learned a tradesman's perspective on how buildings "really" go together.

This is just the kind of insight that we value in an employee, so we hired Chris in spite of his candor about his career goals. He made it clear that his long-term goal was to eventually operate his own design-build company. We persuaded him to spend a few years at JVA and get some experience before branching out. Our hope was that we could change his mind.

The next eleven years established a mutually satisfying relationship for both parties as Chris evolved into a confident and competent structural engineer who always looked for the practical solution. He thrived on personal, hands-on construction involvement ..... particularly with his superb woodworking skills. JVA continues to use the oak conference table Chris built in his spare time using a unique, custom inlay pattern.



His construction experience wasn't limited to woodworking. He volunteered to help repair a structural problem that resulted from an omission on one of his drawings. The steel erector had proposed a \$3,000 back-charge to JVA to implement the repair solution. Instead, Chris was one of two structural engineers who showed up with our Architect/Client to personally fix the problem in 3 hours while the steel erectors looked on in embarrassment.

Chris was at his best when designing and detailing complex structures. These included complicated golf clubhouses in several states, schools throughout Colorado, several projects at CSU and UNC, as well as an innovative precast grandstand structure in Wyoming.

To achieve his personal goals, Chris left JVA on good terms to start Alternative Design and Construction, a design-build company focused on projects emphasizing handicap accessibility to homes. Besides the innovative approach to accessibility, he pioneered the design and construction of several full-height ICF homes, including his family's home.

JVA was fortunate to entice Chris' return to structural engineering in 1996 as the head of our new office in Fort Collins. He built that office into a solid, profitable operation with a staff that he hired and trained. In addition to his technical skills, Chris had great business sense and was elected as a Vice President of JVA. This business interest fostered his involvement in SEAC's Business Practices Committee. He had a passion for serving others and was actively involved in the SEERP Committee.

Chris' most notable legacy is architectural clients who continue to marvel at the strong sense of "aesthetic design" that Chris brought to structural solutions in their buildings. Although rare, this trait is only one of Chris's many admirable qualities for which we will continue to respect and remember him.

Memorial contributions can be made to the Chop Children's Education Fund at 1<sup>st</sup> Bank of Gunbarrel, 6500 Lookout Road, Boulder, CO 80301, 303-530-1000.

# In The Spotlight

The Structures and Codes Institute (a continuing education subsidiary of S.K. Ghosh Associates Inc.), in cooperation with the *Structural Engineers Association of Colorado* and the *National Council for Structural Engineers Associations*, will present a new full-day seminar in Denver on *April 14, 2004*. This one-day seminar presents the changes in the structural provisions (Chapters 16 through 23) from the 2000 to the 2003 IBC and discusses the significance of these changes. This seminar begins with an overview of the structural provisions of the 2000 IBC. Please visit [www.skghoshassociates.com](http://www.skghoshassociates.com) for more information.

See the registration form  
on the following page.

## CALL FOR VOLUNTEERS

SEAC's Building Department Survey Committee needs your help. The *Building Department Survey* has been a very useful document over the years. For it to continue to be so, it must be updated, which will take plenty of volunteer man-hours. If any of you would like to assist in this process, please send your contact information to **Henry Lopez**, Chair of the Committee, (303-447-2814 fax) or **Caryn Bauer**, Martin/Martin, Inc., (303) 431.6100. Thank you for any time you can provide.

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## SEAC Dues

*It is time to renew your membership with SEAC. If you did not receive a Dues Notice in the mail, please contact Caryn Bauer, Martin/Martin, Inc., at 303.431.6100*

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## 2003 ANALYSIS OF REVISIONS TO THE IBC - STRUCTURAL PROVISIONS

This publication analyzes the changes to the 2003 International Building Code ®(IBC ®) structural provisions (Chapters 16 through 23). The 2003 IBC differs primarily from the 2000 IBC in that referenced standards have been updated to reflect the most current standards, and there is an increased reliance on the 2002 edition of ASCE 7 Standard Minimum Design Load for Buildings and Other Structures (ASCE 7-02) for prescribing structural loading requirements. This publication provides explanations and guidance on how to use the ASCE 7-02 standard in conjunction with the 2003 IBC as well as thorough discussion of the changes in the updated referenced material standards (e.g. ACI 318-02, 2002 edition of MSJC code, AISC 341-02, AF&PA NDS-01). Other important topics discussed in this publication are:

- Significant revisions to the seismic provisions, which are largely based on changes incorporated into the 2000 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures.
- Revisions to the footing and foundation provisions.
- Amendments to referenced standards.
- Revisions related to shear reinforcement in slabs supported directly on columns (flat plates).
- New perforated shear wall provisions for steel and wood.

April 14: Denver, CO

NEW FULL-DAY SEMINAR on the IBC

Don't Miss Out! Reserve Your Spot While Available!

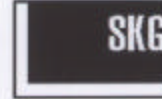
Structures and Codes Institute (a continuing education subsidiary of S.K. Ghosh Associates, Inc.), in cooperation with the Structural Engineers Association of Colorado and the National Council of Structural Engineers Associations will present a full-day seminar in Denver, CO on April 14, 2004.

2003 IBC OVERVIEW

This one-day seminar presents the changes in the structural provisions (Chapters 16 through 23) from the 2000 to the 2003 IBC and discusses the significance of these changes. This seminar begins with an overview of the structural provisions of the 2000 IBC.

What will be addressed:

- ASCE 7-02, adopted as the basis and extensively referenced standard for structural design loads.
Significant revisions to the seismic provisions, largely based on changes incorporated into the 2000 NEHRP Provisions
Updated material standards referenced in the code(e.g., ACI 318-02, ACI 350/ASCE 5/TMS 402-02, AISC 341-02, AF&PA NDS-01)
A major change in the concrete chapter, related to shear reinforcement in slabs supported directly on columns (flat plates)



- Strength design of masonry referenced to the 2002 edition of the MSJC code

- New perforated shear wall provisions for steel and wood

The seminar will be presented by the following speakers who have been involved with the development of national codes and standards:

- S.K. Ghosh, Ph.D., President, S.K. Ghosh Associates, Inc., highly acclaimed speaker and author on seismic-related issues and concrete design.
David A. Fanella, Ph. D., S.E., P.E., Director of Engineering, S.K. Ghosh Associates, Inc., the author of many widely used structural publications.

The registration fee for the seminar is \$275

Time: 8:00 a.m. to 5:00 p.m.

Location: Denver, CO (April 14, 2004)

LOCATION

Denver, CO (04/14/04) Visit www.skghoshassociates.com

Table with 4 columns: FEE, Seminar Fee, Optional Publication\*\*, Total Amount. Rows for SEAC Members and Nonmembers.

\*\* If the optional publication (2003 Analysis of Revisions to the IBC - Structural Provisions) is selected, it will be distributed at the seminar. No S/H charges will be applied.

FEE (payable to Structures and Codes Institute) MUST ACCOMPANY APPLICATION

Please complete one application per person. The fee includes seminar workbook, coffee breaks and lunch. All attendees earn 7.5 contact hours of continuing education.

- Refunds are limited to 80 percent of fee and must be applied for in writing WITHIN THIRTY DAYS after the scheduled seminar.

Name (e-mail)

Employer Title

Mailing address (required) Work Home

Telephone No. ( ) City State Zip

Bill me (copy of purchase order must be provided) Check or money order Visa Mastercard Discover

Card No. Expiration Date

Name as it appears on card

Signature Date

Seminar registration available by:

- Mail: Structures and Codes Institute, 334 E Colfax St. Unit E, Palatine, IL 60067
Phone: (847) 991-2700
Fax: (847) 991-2702

Check if you have specific accessibility needs. Please attach a note outlining specific need(s) to make the meeting more accessible.