

# ASCE

American Society  
of Civil Engineers



# News

ASCE Illinois Section

Vol. 43, No. 7  
September 2002

OUTSTANDING ENGINEERING PROJECT SERIES

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Lisa Harbert,  
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ext. 308 for details.*

## Chicago—'The City that Works'

**W**e often hear that said about our great city. Because of its visual prominence, some feel the skyscraper affirms those meaningful words. After all, who can dismiss the grandeur of the world-renowned Chicago skyline?

Mostly overlooked are the more common, surface and underground 'backbone' elements that keep the city moving. They are no less remarkable, no less innovative, nor less important.

One highly recognizable, and maybe underappreciated infrastructure element, is the I-290 Eisenhower Expressway (formerly known as the Congress Expressway) with its integrated center median rapid transit line.

In 1909, Daniel H. Burnham, one of the city's most prolific planners, foresaw the inherent possibilities of building 'a great avenue, extending from Michigan Avenue throughout the city and westward indefinitely.'

Almost a half-century later, his vision became a reality.

Construction of the westward superhighway component began in December of 1949 with the first sections open to traffic in December 1955. The Congress Rapid Transit Line elements began service in June 1958 with construction ending in 1960.

The combined rail line and roadway system followed the path of the old Garfield elevated train system.

Key to the design was the utilization of the normally unused highway median separating the opposing road sections. Extraordinary cost savings were achieved by combining the rail and highway sections into the same land channels. Primarily, savings were realized in joint use of property right-of-ways. Joint use eliminated the associated costs of independent right-of-ways for each system. Chief among these costs are relocating people razing homes, moving businesses, and demolishing buildings.

So successful was the design, the City of Chicago adopted policies to ensure subsequent freeway and expressway projects would incorporate joint transit system plans. Mass transit facilities were not required to be fully developed. If undeveloped, the necessary space for future transit facilities is a required set aside. The

Kennedy and Dan Ryan Expressways are examples of the policy's notable intentions.

Seemingly as a nod to Chicago, other municipalities now use similar joint right-of-way designs. But it's been said that 'none are as complete or as systematically designed as those in Chicago.' Useful transportation systems don't assemble themselves. As with most building projects of this scope, a myriad of public and private entities, financing sources, and interest groups were involved with project planning and development.

Conspicuously missing, for the most part, from the I-290 project, however, was the Federal Government. The reason: timing. The Eisenhower project started prior to the enactment of the federal interstate highway program in 1956. Such a program could typically provide up to ninety percent funding for federal interstate projects.

A three-way agreement between the State of Illinois (partially backed by the U.S. Dept. of Roads), Cook County and the City of Chicago funded construction. This blend of agency interests required strong budget controls. Any Federal monies received were reserved for highway construction purposes. Railways, the related right-of-ways and structural elements were the City's responsibility. The CTA bore the costs of rolling stock and other fixed transit equipment.

The estimated cost of the Congress Street superhighway, including right-of-way, construction and engineering, was \$100 million. An estimated 13,000 people were moved: 3,500 families and 1,500 single persons. About 450 commercial and industrial firms were



*(continued on page 9)*

## President's Notes

Cleighton D. Smith



A very good friend of mine once had a boat, which he docked on Lake Michigan. Many a good time were had on that boat, fishing for Lake Michigan's salmon and lake trout or just enjoying our beautiful skyline in the company of good friends. This friend told me the two happiest days in a boat owner's life are:

- (1) the day he buys his boat, and;
- (2) the day he sells it!

This saying helps us "land-lubbers" understand just how much work (as well as hard-earned money) goes into such a pastime as owning a boat. This friend sold his boat many years ago, but the saying (as well as the mem-

ories of good times on that boat) has stayed with me.

I love analogies, but I will not go so far as to say that the two happiest days in the term of an ASCE Section President are the day he takes office and the day he gives the gavel to the next President! However, I will say that I have been very fortunate to have served as your President this past year. I have not misplaced my calendar; I know I have one more month (and one more newsletter article) to go. I am simply formulating my thoughts and reflections on the past year during my last few months as President.

First, I need to reiterate what we already know: that we are one very strong section. In fact, we are so strong, we sometimes lose track of the fact that we are members of a larger organization. Some of us are active on National Committees, however, most of us get involved in the outstanding local technical groups. I am mentioning this for a few reasons. First is a brief geography lesson in ASCE boundaries (as they stand today).

The Illinois Section is part of a group of Sections (and Branches) called District 8. District 8 is represented on the national Board of Directors by a Director. The Sections in District 8 have mutually agreed to a rotation plan so that all Districts get a chance to put forth a nominee for Director within a reasonable amount of time. Due to overlapping terms, District 8 currently has two Directors, our own Nick Textor, and the newly-elected Tom Eggum from the Minnesota Section. Now, District 8, along with other Districts in the west-central part of the U.S., makes up Zone III. There are only four zones in the U.S. so a Zone comprises a large number of ASCE members. Zone III is represented on the Board by a Vice President. Our current Zone III Vice President is Jerry Rogers of Houston. Zone III has an outstanding annual Leadership Conference. The Illinois Section annually sends several new Directors to the Zone III Leadership Conference to learn more about ASCE from a more global perspective. In addition, our Younger Member Group usually sends one or two officers to this confer-

*(continued on page 10)*

ASCE Illinois Section

# News

## ILLINOIS SECTION NEWSLETTER

Mailed to all ASCE-IS dues-paying members  
American Society of Civil Engineers  
Illinois Section - Zone III - District 8

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Send change of address notices to the Secretary, Illinois Section ASCE, 203 N. Wabash, Room 2010, Chicago, IL 60601; or call (312) 263-1606, Fax: (312) 372-5673, or email at: [isasce@mindspring.com](mailto:isasce@mindspring.com)

Web Site: <http://www.isasce.org>

### ASCE National Information

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Web Site: [www.asce.org](http://www.asce.org)  
Zone III Administrator  
Michael Cook x6121

**Submission deadline for the October Newsletter is September 10, 2002**

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# Eivind Hognestad

During his 40-year career as an engineer, Dr. Eivind Hognestad gained international recognition for research and development of reinforced concrete structures. His work on strength design of concrete made possible enormous increases in the maximum height of modern reinforced concrete buildings and in the maximum span length of concrete bridges.

Hognestad was born on July 17, 1921, at his family's farm in Norway. He received his early schooling in a little country grade school and, from there, went to the Cathedral School in Stavanger and graduated in 1940. He left Norway to escape the German occupation during World War II, was trained by the British Navy as a radar mechanic, and returned to serve in the Norwegian Navy.

On completing military service, Hognestad returned to the Norwegian Institute of Technology (NIT) at Trondheim to continue in studies. He received the Civil Engineer Diploma in 1947 and soon departed for the University of Illinois in Champaign-Urbana, where he earned an M.S. degree in 1949. While at the U. of I., he became involved in testing of reinforced-concrete column footings. He also embarked on an investigation of reinforced-concrete columns subjected to combined bending and axial load. Hognestad submitted the results to NIT as a doctoral dissertation and was awarded the D.Sc. degree in 1952.

Dr. Hognestad's dissertation contributed greatly to the understanding of the behavior of reinforced concrete, by providing a basic interaction relationship to determine the short-time strength of reinforced concrete columns. Early on, he had studied the shear strength of reinforced concrete beams. In defending and expanding the dissertation, he also studied the strength of long reinforced concrete columns and the effect of time on column strength. All these investigations were sponsored by the Reinforced Concrete Research Council (RCRC) with the goal of establishing a scientific base for improvements in the design of reinforced concrete structures.

In 1953, the Portland Cement Association asked Dr. Hognestad to head its Structural Development Section. His assignment was to design, staff, and manage a new state-of-the-art structural laboratory. After visiting the top structural testing laboratories in North America and Europe, Dr. Hognestad oversaw the design and construction of the facility near Skokie, Illinois. He spent most of his career with PCA and Construction Technology Laboratories, Inc., its engineering and research subsidiary, retiring as Director of Technical and Scientific Development in 1989.

The 1956 publication of ACI's *Building Code Requirements for Reinforced Concrete* was a major milestone in Dr. Hognestad's work. The Code contained an Appendix entitled "Abstract of Report of ACI-ASCE Joint Committee on Ultimate Strength Design." This document was the precursor of the strength design method now universally used for the design of reinforced concrete structures in the United States. The profession's acceptance of the strength method was in no small measure due to Dr. Hognestad's steadfast, effective leadership. Other major contributions by Dr. Hognestad were his studies of high-strength reinforcement, prestressing of concrete, and high-strength concrete.

Besides directing major research programs, Dr. Hognestad consulted on several pioneering construction projects. He helped to develop design procedures for the use of reinforced concrete in off-shore

structures for the oil industry in the North Sea. He consulted on the design of nuclear power plants and ballistic missile silo structures. He investigated reinforcement corrosion in marine structures. In the 1950s, he chaired a national committee to correlate investigations into a rash of failures caused by limited knowledge of the shear strength of reinforced concrete. The results of these efforts are still used today in designing reinforced concrete structures for shear.



Dr. Hognestad was elected a member of the National Academy of Engineering in 1973. He was also a member of the Royal Norwegian Academy of Science, an honorary member and Fellow of ACI, and the recipient of ASCE's Walter L. Huber Research Prize, the University of Illinois Alumni Award for Distinguished Engineering Service, ACI's Alfred E. Lindau Award, and the RCRC's Arthur J. Boase Award. In 1977, he was named ASCE Illinois Section Civil Engineer of the Year.

A prolific writer, Dr. Hognestad was author or coauthor of more than 100 published papers and reports on structural engineering and construction. Dr. Hognestad was fluent in five languages and had working knowledge of two more. His linguistic skills proved especially useful in his studies of technical literature and in maintaining his contacts with the engineering community around the world.

He died in Evanston, Illinois, on February 16, 2000.

## Part-time Engineer

S

Seeking a part-time Civil Engineer in our Engineering Department to review capital improvement and development projects. Qualifications include at least four years civil engineering exp. with knowledge of construction techniques for land development and public improvements, municipal exp. desired. Must possess excellent oral and written communications skills, a Bachelor's degree in Civil Engineering and registration as a Professional Engineer (PE). Proficiency with MicroStation and GeoPak a plus. 21 hours per week, salary range \$24.13 - 36.97 per hour based on qualifications.

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101 Schaumburg Ct.  
Schaumburg, IL 60193  
hresources@ci.schaumburg.il.us  
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Schaumburg

## 2003 National Engineers Week Future City Competition

### **WANTED: ENGINEER MENTORS, JUDGES & PLANNING COMMITTEE**

The 2003 Future City Competition is in its 11<sup>th</sup> year and is being held in Chicago and at least twenty-six cities nationwide. This annual competition is held for 7<sup>th</sup> and 8<sup>th</sup> grade students to foster interest in engineering, math and science through hands on computer modeling, essay writing, oral presentation and model building of the students "Cities of the Future". Schools from Chicago and the suburbs annually participate in this event.

The mission of the National Engineers Week Future City Competition is to provide a fun and exciting educational engineering program for seventh- and eighth-grade students that combines a stimulating engineering challenge with a "hands-on" application to present their vision of a city of the future.

VOLUNTEERS are needed to help plan the competition, be an engineer mentor to a school or be a judge for the competition in January. Planners are needed to work with the schools, help sign up volunteers and help with mailings and press releases. Engineer mentors will work with the students in an advisory role. They will visit their school 4-8 times throughout the competition, answer questions and guide the students. Judges are needed for two Saturdays in January to score the students work. Information sessions will be held to assist the engineer mentors and judges in their responsibilities and to answer questions.

Please call Don Wittmer at (312) 930-9119 or email him at [dwwittmer@hntb.com](mailto:dwwittmer@hntb.com) to sign up or to get more information. This is a great opportunity to influence and encourage the engineers of the future.

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## HEC-HMS Hydrologic Modeling Course

*Sponsored by:*

The Environmental Engineering & Water Resources  
Technical Group (EE&WR) of the Illinois Section ASCE

*Harry W. Dotson, P.E. from Davis, CA  
will present the following HEC-HMS topics  
in a 2-day "hands on" course:*

### **LECTURES:**

- Overview, Basin Rainfall and Loss Analysis, Unit Hydrograph Approach to Rainfall-Runoff Modeling, Hypothetical Storms, Streamflow Routing Techniques, Multi-Subbasin Modeling, Determining Impacts of Watershed Modifications, Advanced HEC-HMS Capabilities and GIS Applications

### **WORKSHOPS:**

- Watershed Modeling with HEC-HMS, Hypothetical Flood Determination, Multi-Subbasin Modeling and Streamflow Routing, and Modeling Watershed Modifications

**Date:** October 2-3, 2002

**Location:** IDOT Schaumburg Facility –  
Basement Conference Room

**Cost:** \$650 for non-ASCE Members  
\$20 Discount for ASCE Members

Reservations are required by Monday, September 16, 2002  
Please reserve your place by sending this form and a check to:

EE&WR c/o Christopher B. Burke Engineering, Ltd.  
Attn: Thomas T. Burke  
9575 W. Higgins Road, Suite 600, Rosemont, IL 60018  
Phone: 847-823-0500 Fax: 847-518-2214

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

FAX: \_\_\_\_\_

Email: \_\_\_\_\_

ASCE Member (Y/N): \_\_\_\_\_

Please Post this Announcement and/or Fax to a Colleague  
For More Information Contact Thomas T. Burke at  
[tburke@cbbel.com](mailto:tburke@cbbel.com)

## Section Activities

### Younger Member Group

#### September Meetings:

September 11- Steve Schultz from Writing at Work will present the proper ways to write technical papers including memos and specifications.

September 19- Kick-off Meeting.

**Place:** Alfred Benesch & Company  
205 N. Michigan Ave., 23rd floor, Chicago, IL

**Time:** 5:30 p.m.

**Cost:** Writing at Work - \$12/\$6 students  
Kick-off Meeting - you bring ideas, we provide dinner

Contact Lisa Harbert at Lharbert@benesch.com or 312-819-9776 ext. 308 for reservations.

The Younger Member Group will not hold a regular meeting in October. We encourage all of you to attend the Annual Dinner on Thursday, October 24.

If you would like to receive monthly e-mails from the Younger Member Group, please e-mail Mark Bendok at mbendok@benesch.com.

### Urban Planning & Development Group

Our next group meetings will be on September 19, 2002. Group meetings are generally held every third Thursday of the month.

We will be voting on new officers. Please contact our Secretary/Treasurer with questions: Michael T. Ungeran - Advanced Drainage Systems, Inc - 815.730.0503

#### Our Fall Seminar will be:

#### Municipality/Infrastructure Grants and Funding

5:30 PM Tuesday, October 1st at Chandlers Chop House in Schaumburg

#### Speakers include:

Don Kopec, Chicago Area Transportation Study (CATS):  
Mike Williamsen, Illinois Department of Transportation (IDOT):  
Mark Yergler, Illinois Department of Natural Resources (IDNR):

Cost is \$50 - Call Lee Fell to RSVP 847.823.0500

Our next scheduled meeting is:

**Date:** Thursday, September 19, 2002

**Time:** 7:30 AM

**Place:** Denny's Restaurant, Oakbrook Terrace, Illinois

### Structural Group

#### Retaining Walls for the Illinois Department of Transportation

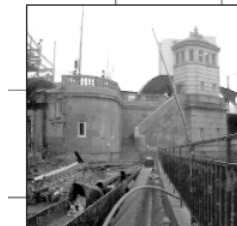
The Illinois Department of Transportation (IDOT) has revised their thinking on retaining walls. Mr. Bill Kramer, IDOT Foundation Unit Chief, will discuss information that consultants need to know to design retaining walls for IDOT. He will discuss the thinking that needs to go into the selection and presentation of retaining walls as well as IDOT's preferred plans. He will also be available to answer foundation questions.

**Date:** Wednesday, September 18, 2002

**Time:** 5:30 p.m. - Social  
6:00 p.m. - Dinner  
7:00 p.m. - Program

(continued on page 7)

## New laser scanning engineering/surveying services from Falk PLI



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In an effort to inform Illinois Section members of the discussions at the monthly Board meetings, the Section Secretary contributes this monthly article to the newsletter. Any questions or comments on the Board activities is welcome and can be sent to the Section office at the address shown on Page 2.

### ■ *Treasurer's Report*

▲ The June Income Statement, General Ledger Trial Balance, and Aged Receivables was discussed and approved. We received Section dues and ad income this last month. Normal expenses for the month. Outstanding ad income is due from both the Groups and outside advertisers.

### ■ *Group Reports*

Each Section Group reported on their past month's activities and future group meetings as noted in the Section Activities portion of the newsletter. Highlights of the Group's activities are as follows:

▲ The Geotechnical Group had no report at the meeting. Their report was submitted later. Their September dinner meeting is scheduled for September 10 at the Athena Restaurant. The topic is to be determined.

▲ The Structural Group doesn't have dinner meetings during the months of June, July, and August. Planning meetings for the 2003 Lecture Series were held. Chair Karlowski will attend a regional meeting of local structural group leaders and Structural Engineering Institute leaders on July 26 in San Francisco.

▲ The Environmental Engineering and Water Resources Group held their monthly meeting on June 12. An upcoming HEC-HMS two-day course is scheduled for early October and an Introductory FEQ course will likely be held in

September. The next monthly meeting is July 16. The Group is co-sponsoring with the YMG a night at Ravinia on July 10 and a tour of the Thorton Reservoir and Deep Tunnel on August 14. Nominations are being finalized for the 2002 Section awards.

▲ The Urban Planning & Development Group held their June Group meeting on June 20 at Denny's in Oakbrook Terrace. The successful seminar was on Terrorism and Public Water Utilities. Two fall seminars were discussed: Grant Assistance and MWRDGC Licensing. The next meeting is scheduled for August 15.

▲ The Transportation Group held a group meeting and pizza outing on June 13. No meetings are scheduled for July or August. A September meeting is scheduled for Sept. 18 at the Chicago Athletic Association and the speaker will be Wally Kos, P.E.—Superintendent of the Cook County Highway Department. The next planning meeting is scheduled for Sept. 11 at 5:30 p.m. at Knight's office, 549 W. Randolph.

▲ The Younger Member Group has planned a night at Ravinia with the EE&WR Group on July 10. Also, a tour of the Thorton Reservoir and Deep Tunnel is scheduled for August 14. 33 responses were made for only 20 open slots for the tour. On September 11, Steven Schultz of Writing at Work will present the proper ways to write technical papers. A planning meeting for next year's events is scheduled for September 19. Nine of the thirteen people that took the P.E. review and exam in April passed! Congratulations to all of you! The course will be offered again at the end of August.

### ■ *Committee Reports*

▲ Communications Committee Chair Harbert reported that the deadline for the September

newsletter is August 9. The July newsletter is coming out late this month. It will hopefully be mailed this week. In June, the Girl Scouts celebrated their 90th Anniversary at Navy Pier with 18,000 girl scouts in attendance. A "Zoom into Engineering" booth was staffed by various engineers. The YMG donated \$100 and a \$48 donation from one of the other groups is requested to cover expenses.

### ■ *Old Business*

▲ The 150th Anniversary Committee is working on a foreword for the planned book. Articles are still needed from some of the Groups for both the book and the newsletter. These are needed by the end of July.

▲ The Minority Affairs committee reported that four students are in Notre Dame and should be finishing this week. The Golf Outing will be Tuesday, September 10 at Gleneagles Country Club. A mass email will be sent out to all dues paying members. Vendors should be targeted for hole sponsorship instead of the firms. A meeting is scheduled for next week.

▲ The Awards Committee needs each technical group to provide a committee member along with someone from the Board. The meeting is normally held during the third week of August. The Annual Dinner is October 24 at the Chicago Hilton and Towers.

▲ The Central Illinois Section is interested in having the temporary license plates commemorating the 150th Anniversary and the cost will be \$15. They will be good from mid September to mid October. The cost is dependent on the number of plates ordered. More information is included in the July newsletter.

### ■ *New Business*

▲ National Treasurer Goodkind discussed the fundraising efforts for the ASCE Foundation. The goal is to raise \$6 million dollars with part going to the 150th Anniversary and part going to CERF. He requests the Board give \$5000 which is the same as what the Florida Section just donated over a period of four years. A commitment needs to be made by mid July to be listed. The budget for the 150th was \$3.5 million and this has been raised to \$3.7 million. The Board stated that CERF needs to let members know more about what it does. The Board moved and approved to donate \$5000 over two years. Another discussion point was raised with the Treasurer about the union's attempts to incorporate construction engineers and surveyors into unions. People have been forced off construction jobs for this reason. He will discuss this with the National Board.

## Military Architect/Engineer

(GS-12 Civil Service)

The Illinois Air National Guard (ILANG), Springfield, IL has an immediate opening for a qualified engineer/architect to assume duties as Deputy Base Civil Engineer/Architect. Duties include programming, design, construction, project management and master planning of projects pertinent to the maintenance, repair, and construction of military facilities and infrastructure and performing military duties as assigned/required. Successful candidate must either become or be a current officer of the ILANG. The application period is September 1-30, 2002. For more information and copy of job announcement/position description please contact Lt Col Jim Lund at 217-757-1216 or email james.lund@ilspr.ang.af.mil.

▲ Member Walt Linzing, who is also Executive Director of the Illinois Engineering Council (IEC), discussed the IEC and its purpose. The IEC was organized in 1938 in order to pass the P.E. Act. The Group made recommendations for those to serve on the Board of Certification. It has gotten heavily involved in Engineers Week locally and has led efforts to run the Sun Times supplement and the more recent Illinois Engineer Journal. Eighteen engineering societies are members and a goal is to share information and publicize other societies activities. The Annual Awards banquet will be August 17 at the Radisson Hotel in Lincolnwood. Dale Riesinger will be the guest speaker. He is an engineer and is running unopposed for the Illinois Senate.

#### ■ *Miscellaneous Correspondence*

▲ Congratulations to Raymond Krizek who has become an Honorary Member and Bob Johnson who has advanced to the grade of Fellow!

▲ President Smith received a thank you letter from the student chapter of IIT for the donation to help with their participation in the 2002 AISC Steel Bridge Competition.

—By Don Wittmer, Secretary

## Section Activities *(continued from page 5)*

**Place:** Como  
695 N. Milwaukee  
Chicago, Illinois 60622

**Cost:** \$35.00 / \$25.00 (Students)

**RSVP:** Barb Pries at (312) 263-1606  
by Friday, September 13, 2002

### **Environmental Engineering & Water Resources Group**

The EE&WR group is planning an Introductory FEQ course for September 10-13, 2002. For further information, please contact David Edwards at [dedwards@louisberger.com](mailto:dedwards@louisberger.com). He can also be reached by phone at 312-630-8200.

The EE&WR group is also holding a HEC-HMS course scheduled for October 2-3, 2002 at IDOT. Please contact Thomas Burke at [tburke@cbbel.com](mailto:tburke@cbbel.com) or 847-823-0500

**September Meeting Date:** September 11

**Place:** Christopher B. Burke  
Engineering, Ltd.  
9575 W. Higgins Road  
Rosemont, IL

**Time:** 5:30 p.m.

For more information, contact Darren Olson at (847) 823-0500.

### **Transportation Group**

**Speaker:** Wally S. Kos,  
P.E.- Superintendent,  
Cook County Highway Department

**Place:** Chicago Athletic Association  
12 S. Michigan Ave.

**Date:** September 25, 2002

**Time:** 11:30 to 1:30

For reservations contact Robert Gorski, Programs Chair IL-ASCE Transportation Group, at [robert\\_gorski@urscorp.com](mailto:robert_gorski@urscorp.com) or 312 939 1000.

### **Geotechnical Group**

The next meeting will be on September 9th at the Athena Restaurant. The Speaker and topic will be announced via e-mail and will be listed on the website, [www.isasce.org](http://www.isasce.org).



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To receive additional information regarding this program or to schedule an appointment, contact the Program Director, Professor Raymond J. Krizek, at [rjkrizek@northwestern.edu](mailto:rjkrizek@northwestern.edu) or visit our WWW site at <http://mpm.northwestern.edu/>



# AMERICAN SOCIETY OF CIVIL ENGINEERS ILLINOIS SECTION

## *86th Annual Awards Dinner*

**THURSDAY, OCTOBER 24, 2002**

*At the*

### **CHICAGO HILTON AND TOWERS GRAND BALLROOM**

*720 South Michigan Avenue, Chicago, Illinois  
5:00 P.M. Cocktails 6:30 P.M. Dinner*

**Please Reserve:**

\_\_\_\_\_ Tables of ten at \$800.00 per table \$ \_\_\_\_\_

\_\_\_\_\_ Dinner Tickets at \$80.00 each \$ \_\_\_\_\_  
(\$50.00 Government Employees, \$25.00 Students)

*Tickets will be mailed or can be picked up at the door.*

We would like to be a Sponsor. Enclosed is (\$250 Suggested) \$ \_\_\_\_\_

**TOTAL \$ \_\_\_\_\_**

Send to: Illinois Section ASCE  
203 North Wabash Avenue, Room 2010  
Chicago, Illinois 60601  
Attention: Mrs. Barbara A. Pries

*(Reservations need to be received no later than October 18, 2002)*

**Sponsors Only:** Please print or type your company name below as you wish it to appear in the program. ASCE will furnish an easel for your company display board. Display boards should be brought to the hotel between **4:00 p.m. and 5:00 p.m. on October 24, 2002**. Please notify Mrs. Barbara Pries (312/263-1606) if your company will have a display board.

Name \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Self-parking is available at the Hilton Hotel via Wabash or Balbo Ave.

Valet parking is available with the Doorman at standard rates.

Please notify Mrs. Barbara Pries if you would like a vegetarian dinner.

# Chicago—'The City that Works.'

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moved. The transit portion alone cost an estimated \$27 million. The improvement was paid for with \$25 million raised by the city of Chicago, through the sale of general obligation bonds and about \$2 million raised from the sale of revenue bonds. The CTA was responsible for repaying the costs of the fixed transit equipment and facilities, which totaled about \$11.7 million.

Another benefit of providing mass transit within the same right-of-way as the highway, came from Adams' Law. Adams' Law was created to safeguard property owners against certain cavalier practices of the older streetcar companies. Senator George Adams created the law which stipulated that any proposed elevated line that would be built over a public thoroughfare must obtain approval signatures from a majority of property owners along every mile of the route. Chicago's 1872 city charter already required any transit operator, streetcar or elevated, to secure approval signatures from a majority of property owners along any route on, or over, a public thoroughfare. Unfortunately, many streetcar companies were able to balance collective opposition to a proposed route in a heavily settled area against approvals obtained from friendly property owners at the rural end of a line. The Adams Law directed that approvals must be obtained from a majority of property owners within each mile of a proposed route, thus making it harder to get an elevated train in a densely populated area.

But for one privately owned subway system, the City of Chicago, at the time, was the sole public initiator, planner, designer and builder of the area's mass transit projects. The CTA was primarily charged with operating the transit system, making fixed equipment and rolling stock improvements, and providing technical design support.

When multiple organizations work together, interesting compromises are often produced. The unique design of the Congress Line's platform type station is a result of one of many compromises. More traditional bus and rail systems often have closely spaced stations for passenger convenience. Transit operators preferred a more widely disbursed station layout for greater efficiency. The compromise was to put more important stations between two bridges and link the station platform with the bridges via long, sloping ramps.

Even the U.S. Post Office yielded to the new subway tunnel and highway project. In order to connect the Eisenhower with the Loop, sixteen foundation caissons for the massive building were removed. New caissons were placed around and in some cases on top of the new Congress Subway tunnels. This allowed the roadway to pass through and underneath the building.

Today, the Eisenhower still stands as the finest example of joint use transportation projects and development planning.



## COWHEY GUDMUNDSON LEDER, LTD.

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### CAREER OPPORTUNITIES

#### NATURAL RESOURCES PROJECT MANAGER

This senior level leadership position will provide a combination of technical specialty services in ecological/wetlands, forestry, environmental and water resources. The position requires a BS in engineering and a P.E. in Illinois. Qualified candidates will have a minimum of 8 to 10 years experience in natural resources services with emphasis in watershed analysis, drainage, flood control, floodplain and floodway type projects; significant experience in advanced level computer modeling and reporting utilizing current hydrologic and hydraulic software programs; experience in working with governmental agencies; demonstrated project management experience; and excellent communication skills to be able to work with clients and governmental agencies. The ideal candidate must be established, respected and credentialed within the local industry.

#### SENIOR PROJECT MANAGERS

Senior Project Managers to be involved in and responsible for the planning, coordinating, scheduling and design execution of land development civil engineering projects of varying size and scope. The position requires a BSCE and a P.E. in Illinois. Qualified candidates will have a minimum of 10 years experience in land development civil engineering, with an emphasis in project management; experience in working with a design team; excellent communication skills; and a proven track record in dealing successfully with clients and governmental agencies. The ideal candidate must be established, respected and credentialed within the local industry.

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[HumanResources@cgl-ltd.com](mailto:HumanResources@cgl-ltd.com)

# ASCE Illinois Section News

203 N. Wabash, Room 2010  
Chicago, Illinois 60601

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## President's Notes

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ence, as there is usually a strong, separate YMG agenda at these conferences.

The Illinois Section is hosting the Zone III conference in 2004 in Chicago. Now the ASCE Headquarters staff does a great job in taking care of the local arrangements. However, there is an opportunity for local firms to take part in this conference and learn more about our national organization. Also, networking and potentially sponsoring some of the YMG activities may get your firm's name in front of some outstanding future leaders of our profession. Look for more information in the next few months.

We are also hosting the Annual Conference in 2006. This is a huge event, one we have begun planning for already. This year's Annual Conference is in Washington, DC. There are special events scheduled as this is the 150th Anniversary of ASCE. It would be great to see the Illinois Section well represented at this event in Washington (November 3 through 6). More information can be found on ASCE's website [www.asce.org](http://www.asce.org).

Speaking of planning ahead, I am already planning on passing the gavel on to John Zimmermann. He will do a fine job of continuing the leadership of this outstanding Section.

## Calendar of Events

**2002**

Sept. 9	Illinois Section Board Meeting
Sept. 10	Geotechnical Group Dinner Meeting
Sept. 10-13	EE&WR FEQ Course
Sept. 11	YMG Dinner - Writing at Work
Sept. 11	EE&WR Group Business Meeting
Sept. 11	Transportation Group Business Meeting
Sept. 18	Transportation Group Luncheon - Cook County Highway Dept.
Sept. 18	Structural Group Dinner - Retaining Walls for IDOT
Sept. 19	UP&D Group Monthly Meeting
Sept. 19	YMG Dinner- Kick-off Meeting
Oct. 1	UP&D Dinner - Municipality/ Infrastructure Grants and Funding
Oct. 2-3	EE&WR HEC-HMS Course
Oct. 7	Illinois Section Board Meeting
Oct. 24	Illinois Section 86th Annual Dinner