

# ASCE

American Society  
of Civil Engineers



# News

ASCE Illinois Section

Vol. 42, No. 7  
July/August 2001

## INSIDE:

**President's Notes**  
2

**150th Anniversary  
Activities**  
3

**News and Secretary  
Report**  
4-5

**Section Activities**  
6

**What Will Chicago  
Look Like in The  
Year 2100?**  
8

**Advertise in the  
Illinois Section  
Newsletter  
and reach  
almost 2,000  
Civil Engineers in  
the Chicago Area.**

*Call the editor,  
Lisa Harbert,  
at (312) 819-9776  
ext. 308 for details.*

## Hillside Bottleneck

DOT's "Hillside Bottleneck" road improvement project is designed to reduce congestion, increase mobility, and improve traffic safety on the Eisenhower Expressway, (I-290), from the East-West Tollway (I-88) and the Tri-State Tollway (I-294) to east of Mannheim Road (US 12/20/45).

This will be achieved primarily by the construction of a collector-distributor (C-D) Roadway along eastbound I-290. All eastbound I-88 and I-290 truck and vehicular traffic exiting to Mannheim Road will be placed on a new C-D roadway. This will separate the weaving and merging flow that currently exists at the junction of I-290 and I-88. Additionally, major arterials, Roosevelt and Mannheim Roads, have been reconstructed and widened to provide viable alternates to I-290.

Construction of the \$97.5M project began in the Spring of 2000 and will be completed by January 1, 2002. The project is proceeding under ten separate contracts. Partnering between IDOT, its construction engineering consultant, (Teng and Associates, Inc.), and the contractors is being used on these contracts. Good communication is the key to successfully coordinating the adjacent and overlapping contracts.

The first year of construction focused on reconstruction and widening of Mannheim Road, reconstruction and reconfiguration of the Mannheim interchange, reconstruction and widening of Roosevelt Road, lengthening of the Canadian National/Illinois Central railroad and Darmstadt bridges over I-88, reconstruction of North Frontage Road, South Frontage Road and Harrison St.

IDOT Bureau of Land Acquisition acquired ninety-six parcels for this project. Twenty-five buildings were demolished as part of the project to accommodate the C-D roadway construction and Roosevelt Road widening.

Extensive cooperation and coordination was required with the local municipalities, (Villages of Bellwood, Hillside and Westchester), businesses and residents. The municipalities proceeded with seven of their own construction contracts concurrently with IDOT's contracts. Flyers were

prepared and distributed regarding changes in the traffic patterns, ramp and side street closures, and night work. Weekly coordination meetings were held to keep the lines of communication open.

A variety of soil conditions presented challenges to the project. The intersection of Mannheim Road and Roosevelt Road is a dry-land bridge spanning loose saturated sands. This existing bridge was widened to accommodate dual left turn lanes at the intersection. H-piles were driven not only to support widened pile caps, but also to support traffic signals and drainage structures.

Limestone bedrock is present at and just below the ground surface less than a half a mile to the north of this intersection. Over 76,800 Cu M of rock was excavated for the reconfigured Mannheim interchange and C-D Roadway. The majority of the rock was removed with a mining machine that worked seven days a week and twenty-four hours a day. The machine arrived from Texas on eight semi-trailers. The cutting head for the mass excavation was 2.7 M (9-ft) wide and 1 M (3.2-ft) high. A trencher attachment capable of cutting a 5.5-M (18-ft) deep trench was used after the mass excavation was completed to cut a trench for soldier pile retaining walls.

As is typical with most urban projects, a myriad of utilities had to be relocated. One of the more challenging was the relocation of a sanitary sewer siphon under I-290 at Mannheim. Hand mining was necessary to install twin 900-mm casings because cobbles and boulders prevented augering. A by-pass pumping system was set up to accommodate 1.8 MGD of flow while the siphon was constructed.

Also typical with most recent projects is the handling and disposal of regulated substances. Everything from non-special waste (i.e. contaminated soil), hazardous waste, underground storage tank removal and asbestos removal was required to complete the project.

Not typical of most projects is the lengthening of a railroad bridge while keeping the line in service without a shoo-fly. A seven span temporary trestle was constructed (*continued on page 9*)

## President's Notes

Dave Kendall

Every ten years or so I like to clean out my files, whether they need it or not. While cleaning this year, I came across a sales receipt for my 1992 Explorer XLT-4WD-SUV. I paid \$19,600 plus tax for the new, fully loaded vehicle. I remember thinking at that time that it was a lot of money but I also thought it was a lot for the money.

Of course, when my good father saw it, he had his own opinion. He bought Chevrolets



for 30 years straight. GM Man all the way. When he saw my new baby, he reminded me that GM put me through college. (Insult to

ner to date is the Mexico Section with a 0.6% increase in growth followed by the second place Kansas City Section with a (-0.4%) growth followed by the third place Duluth Section with a (-2.2%) growth. They didn't say what the Illinois Section statistics are. I'm not sure I want to know.

The ASCE National doesn't offer an explanation for the decline. Perhaps it's a statistical aberration. Perhaps it's a sign of the times. I'm not going to venture to guess what the problem, if any, may be. I do recall that the ASCE increased membership dues this past year. I understand that they plan to raise fees again this year. No one likes to pay more for

# 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

### Editor - Lisa Harbert

Alfred Benesch & Company  
205 N. Michigan Ave., Suite 2400  
Chicago, IL 60601  
(312) 819-9776 ext. 308  
email [lisa@letsgoyachting.com](mailto:lisa@letsgoyachting.com)

### Assistant Editor - R. Cliff Galitz

Patrick Engineering Inc.  
55 E. Monroe, Suite 3450, Chicago, IL 60603  
(312) 201-7929

### Copy Editor - Jack Franke

Chicago Bridge & Iron Co.  
1501 North Division St., Plainfield, IL 60544  
(815) 439-6568

### News Coordinator - Bob Camillone

EnerTronics Engineering Corp.  
9245 Calumet Ave., Munster, IN 46321  
(219) 836-2120 FAX: (219) 836-1129  
Pres. Dave Kendall . . . . .(630) 574-2568  
Pres.-Elect Cleighton Smith . .(708) 366-7083  
Sec. Don Wittmer . . . . .(312) 930-9119  
Treas. John Zimmermann . .(847) 698-6400

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@popmail.mcs.net](mailto:isasce@popmail.mcs.net)

Web Site: <http://www.mcs.net/~isasce/>

### ASCE National Information

Phone: 1-800-548-ASCE  
Web Site: [www.asce.org](http://www.asce.org)  
Zone III Administrator  
Deana Camp x6207

**Submission deadline for the September Newsletter is August 10, 2001**

The Illinois Section has been operating on a deficit budget for many years. This year the Board tackled the budget issue head on. . . . **You can't expect to pay 1992 prices forever.**

injury, I sold my Chevy to buy the Explorer) When the question of price came up and I told him what a great deal I got, he gave me "the look" like only a father can do. I think back at that time with fond amusement. My dad eventually admitted that the Explorer was "Really something". High praise from a man of few words.

I would gladly pay \$19,600 today for a new Explorer. I'd even take Firestone tires with it for that money. But if someone actually offered me a new car at 1992 prices, I'd be extremely suspicious. **You can't expect to pay 1992 prices forever.**

I surfed the ASCE web site last week and was surprised by some of the information presented. (Stay with me please, I'll eventually relate this following story to the previous) The web site location ([www.asce.org/membership/member\\_standings.cfm](http://www.asce.org/membership/member_standings.cfm)) posts the latest ASCE membership drive statistics for Section and Branches throughout the nation. The statistics presented show the highest percentage of membership growth and lists the three best Sections or Branches in each Zone as of May 1, for the Year 2000-2001. The surprise was that in many of the Zones, the first, second and third place winners to date are Sections and Branches which have the least decline in membership in the 2000-2001 year. As an example, The Zone III Section first place win-

ner to date is the Mexico Section with a 0.6% increase in growth followed by the second place Kansas City Section with a (-0.4%) growth followed by the third place Duluth Section with a (-2.2%) growth. They didn't say what the Illinois Section statistics are. I'm not sure I want to know.

the same benefits and perhaps the best way to express disappointment is with one's pocket book. But then again, **you can't expect to pay 1992 prices forever.**

The Illinois Section has been operating on a deficit budget for many years. This year the Board tackled the budget issue head on. Sometimes it seems that all the issues we deal with gravitated down to the question of "How Much?" I suppose that's true with all organizations. After much debate and analysis, The Board at the April meeting voted to increase Illinois Section Membership fees from \$20 (which has been the Section dues since at least 1992) to \$30 per year. There was some debate to increase fees \$5 this year and \$5 next year. We voted not to play games and to get the increase done and move on, which we have done. That increase at best will provide us with \$15,000 more per year, providing membership doesn't drop as it did at the national level. It will move the Illinois Section out of the red ink and perhaps provide a cushion to invest for future efforts.

In summary, it's not something we were pleased to have done, but then again, **you can't expect to pay 1992 prices forever.**

It's time to move on.

# 150th Anniversary Activities

*As part of the 150th Anniversary, the Illinois Section is formulating two "Top 10" lists. One list includes the top Illinois Section projects of all time, and the other list includes the top Illinois Section engineers of all time. Nominations received to date are listed at right.*

## Top Projects

Salt Creek Watershed Plan  
Reversal of Chicago River

Tunnel and Reservoir Plan (TARP)  
Sidestream Elevated Pool Aeration System (SEPA)  
Chicago Water Plants/System (Jardine)  
Lake Michigan Water to Suburbs  
Sears Tower

Home Insurance Company Building  
I&M Canal  
Hancock Building  
Chicago Subway

Monadnock Building  
Wacker Drive  
Chicago Columbian Exposition  
Cortland Street Bridge  
Stickney Wastewater Treatment Plant

Urban watershed/flood control planning and implementation  
Key project to protect Lake Michigan water quality and allow Illinois Section urban area to develop

ASCE National Outstanding Civil Engineering Achievement Award - 1986  
ASCE National Outstanding Civil Engineering Achievement Award - 1994

Worlds Largest Water Treatment and Distribution system  
Project to address urban water quality/quantity crisis  
First Bundled Tube High-Rise Building, Previously World's Tallest Building  
First High Rise Building Utilizing an All-Metal Frame  
First transportation system critical to the Illinois Section development  
First Braced-Tube High Rise Building

Key project in identification of Chicago subsoil properties that led to earth pressure theories for lateral bracing of cuts and tunneling procedures  
Tallest Load-Bearing Masonry Building  
Innovative bi-level roadway to improve CBD circulation  
Planning and construction of lakefront area  
1<sup>st</sup> Chicago-Type Trunnion Bascule Bridge  
Worlds Largest Wastewater Treatment Plant

## Top Engineers

Frank Dalton  
Fazlur Khan

William Scherzer  
William Jenney  
Jochim Giaver  
Rudolph Hering  
Ralph Peck  
Louis Howson

Octave Chanute  
Hal Iyengar  
Ellis Chesbrough  
John Wellborn Root  
Hugh Young  
Leroy Harza

General Superintendent of MWRDGC during TARP era  
Developed "Tube" Concept of Tall Building Design, Designed Sears Tower and John Hancock Buildings  
Designer of Bascule Bridge  
Father of Skyscraper  
Chief Engineer of the Burnham Plan  
Ship Canal/Reversal of Chicago River  
Renowned Geotechnical Engineer, Professor, Author, and Consultant.  
Renowned Sanitary Engineer, First Recipient of I.S. Civil Engineer of the Year Award, President of I.S., President of ASCE National  
Aviation Engineer  
Renowned Structural Engineer and Designer of Tall Buildings  
Developed Chicago's Water System  
Building Engineer  
City Engineer overseeing bascule bridges  
Hydraulic Engineer/Dams

Surely we have missed some significant people and projects! Please help us out.

We are currently trying to finalize nominations for both lists by July 20 and request assistance from the Illinois Section membership in accomplishing this task. Please submit the projects and people that you feel are worthy of such an award to John F. Vincent via E-mail at [jvincent@ctl-group.com](mailto:jvincent@ctl-group.com) or by facsimile at 847-965-7500. Also include a brief description of each nomination, your name, and an address or phone number so that we may reach you for further information. We want your input!

When all nominations are received, we will then formulate a selection criteria and develop a "Top 10" list for each category. Based on nominations received to date, we already realize that it may be difficult to limit the list sizes to ten each. Therefore, we will also need to evaluate the benefits and shortcomings of this restriction.

The goal of our effort is to develop a publication describing the people and projects of the Illinois Section that would be of interest to both engineers and non-engineers, and to host an awards celebration in 2002.

# Illinois Section News & Secretary Report

M A Y 2 0 0 1

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 are welcome and can be sent to the Section office at the address shown on Page 2.

## ■ *Treasurers Report*

The April Income Statement and General Ledger Trial Balance was discussed and approved. Payment was made to the IEC for membership.

## ■ *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.

▲ The Structural Group held the final two sessions of their Biennial Lecture Series "Bridges" on April 3 and 17 at the Harold Washington Library. The Lifetime Achievement Award Presentation Dinner is scheduled for Wednesday, May 16 at

the 410 Club in the Wrigley Building. The award winner was Mr. John Zils, Associate Partner, Skidmore Owings & Merrill, LLP.

▲ The Environmental Engineering and Water Resources Group held their monthly planning meeting on April 5. This month's planning meeting will be held on May 8, 2001 at 5:30 p.m. at Christopher B. Burke Engineering office in Rosemont. Annual activities being planned include introductory FEQ and the Society of Wetlands Conference. Future activities include HEC-HMS, FEQ training, and USEPA BASINS model training. Approximately 20 people are pre-registered for both the TR-20 and the HEC-RAS class.

▲ The Urban Planning & Development Group held their Permitting Workshop on April 19 in Bensenville. The full day seminar had sixteen speakers and approximately 120 attendees. The next Group meeting is scheduled for May 17, 2001, at Denny's Restaurant in Oakbrook Terrace. The Group anticipates a dinner meeting for the late summer or early fall.

▲ The Transportation Group held a planning meeting for upcoming activities on April 11 at Knight Architects Engineers and Planners. A technical program was held on Wednesday, April 25 in which Mr. Gene Joynt spoke on the

Hillside Bottleneck Construction. The next monthly group meeting is scheduled for May 9 and June 13 at 5:30 p.m. at the offices of Knight. A technical program is scheduled for Wednesday, May 23, 11:30 a.m., at the Como Inn with the speaker being Mr. Pete Harmet of IDOT speaking on the I-355 Extension project. The group has scheduled a "Roadside Safety Course" on May 15-16 at IDOT's District 1 office. The cost is \$295.00.

▲ The Younger Member Group held the Spring Student Awards and technical dinner meeting on Tuesday, April 24, 2001, at Giordano's in Chicago. The technical meeting featured Mike Wysocky of Thatcher Engineering as the speaker. This month's technical meeting is scheduled for Thursday, May 24th at Teng and Associates and will be "An overview of FEMA's Floodplain Mapping Program" presented by Cleighton Smith of Dewberry and Davis. The Group has scheduled their Annual Golf Outing for June 23rd and their Annual Baseball Outing at Wrigley Field for Sunday, July 15.

## ■ *Committee Reports*

▲ Communications Committee Chair Harbert reported that there are no deadlines this month. The deadline for the July/August newsletter is June 11 with the lead article by the Transportation Group while the secondary article is currently unassigned. The September newsletter lead article is by the Geotechnical Group. ASCE National is resurrecting the 1st professional degree issue again. The Board would like to see the official position from National before any comment. A discussion took place on the lack of proper decorum for the P.E. exam in April. This issue should be referred to the I.E.C. ASCE National has started a recruiting campaign in which they will give \$5,000 to anyone that recruits 150 new members.

▲ President Elect Smith has set up the President Elect dinner meeting for Wednesday, June 13 at the Sheraton Gateway Suites near O'Hare Airport. The President Elect's itinerary has not been set yet. The Past Presidents of the Section will be invited to attend as guests of the Board.

▲ The Minority Affairs committee has submitted their request for funding. Three people have registered to attend at a cost of around \$1,100 per person. Funding for this program would rely on the golf outing, \$15,000 seed money,

## THE NATURE CONSERVANCY ILLINOIS CHAPTER

is looking for a **Conservation Engineer** to work from our northern Illinois office promoting agricultural and urban conservation practices in the Nippersink Creek watershed. The engineer will provide direct technical assistance to government officials, landowners and developers. Experience with best development practices, best management practices, and project management as well as an educational background in engineering, physical, life or environmental science will be important in this position. P.E. license preferred. Good salary and benefits. Position is grant funded for a minimum of 2 years. For more information, view the job description at [nature.org](http://nature.org). Send resume to: The Nature Conservancy, 4 Crystal Street, Cary, IL 60013 or [jgehl@tnc.org](mailto:jgehl@tnc.org). Or fax resume to: (847) 462-9819.

and corporate fundraising targeting all firms including DBE and MBE firms. This would allow for sponsorship of 2 – 3 people each year for the next ten years. If additional funding is secured, more people could be sponsored. The golf outing made about \$3,000 last year and is scheduled this year for Aug. 23rd.

▲ The Board discussed funding the 2 –3 students now and putting \$15,000 into a second fund. After the golf outing, any profit will go into this fund. It was approved to provide funding for 2001 and \$15,000 in fiscal year 2002. All proceeds from the golf outing this year will go into the fund. Each Group should have one volunteer for the Golf Outing.

▲ Each Group should be developing a list of at least 3 projects and 3 engineers to nominate for the 150th Anniversary. These should be given to John Vincent by the third week of May.

### ■ *New Business*

▲ The Board discussed the option of raising Section dues for the upcoming year. We need to get our proposed dues to National by June 7th. Three options include: raising dues \$10 this year, \$5 increase over next two years, or no increase. ASCE National intends to raise dues \$5 per year. A motion was made and approved to raise the Section dues by \$10 next year. It was also moved

and approved to add a \$10 voluntary contribution for this year to be used for the 150th Anniversary activities within the Illinois Section.

▲ Please note: An error was made on the date for the honoring of the “Reversal of the Chicago River” as an ASCE Monuments of the Millennium. **The date will be September 19, not September 18** as reported in the May/June newsletter.

—By *Don Wittmer, Secretary*

## J U N E 2 0 0 1

### ■ *Treasurers Report*

The May Income Statement and General Ledger Trial Balance was discussed and approved. Almost all of the Section dues are in from National. There has been a drop in the number of members. Director Loucks volunteered to follow up with those companies that are greater than 90 days in arrears for payment of advertisement in the newsletter. In the future, any company over 90 days in arrears must pay their outstanding balance plus the new balance before their advertisement can run in the newsletter.

### ■ *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.

▲ The Structural Group held their Lifetime Achievement Award Presentation Dinner on Wednesday, May 16 at the 410 Club in the Wrigley Building. The award winner was Mr. John Zils, Associate Partner, Skidmore Owings & Merrill, LLP. No activities are scheduled for the summer months. Their next activity will be in September with a Panel Discussion regarding ASCE's First Professional Degree Proposal.

▲ The Environmental Engineering and Water Resources Group held their monthly planning meeting on May 8. This month's planning meeting will be held on June 7, 2001 at 5:30 p.m. at Christopher B. Burke Engineering office in Rosemont with their July meeting scheduled for July 10. Annual activities being planned include introductory FEQ. Future activities include HEC-HMS, FEQ training, and USEPA BASINS model training. Approximately 20 people are pre-registered for the HEC-RAS class. 400 – 500 people attended the Wetland Conference held last week.

▲ The Urban Planning & Development Group held their Group meeting on May 17, 2001. Discussion took place on results of the permitting

workshop, ASCE 150th list of top projects and people, planning for a fall dinner meeting, and the Newsletter feature article due September 10. The next meeting is scheduled for June 21 at Denny's in Oak Brook Terrace. The Group anticipates a dinner meeting for the late summer or early fall.

▲ The Transportation Group held a planning meeting for upcoming activities on May 9 at Knight Architects Engineers and Planners. A technical program was held on Wednesday, May 23, with the speaker being Mr. Pete Harmet of IDOT speaking on the I-355 South Extension project. The next monthly group meeting is scheduled for June 13 and September 12 at 5:30 p.m. at the offices of Knight. No technical programs will be held during the summer. The group held a “Roadside Safety Course” on May 15-16 at IDOT's District 1 office. 18 consultant attendees and 18 IDOT attendees attended the program.

▲ The Younger Member Group held their technical dinner meeting on Thursday, May 24, 2001, at Teng and Associates in Chicago. The technical meeting featured Cleighton Smith of Dewberry and Davis as the speaker on the topic “An overview of FEMA's Floodplain Mapping Program.” The Group has scheduled their Annual Golf Outing for June 23rd and their Annual Baseball Outing at Wrigley Field for Sunday, July 15. Their August event will be a Gameworks Outing in the suburbs, date and time to be announced.

### ■ *Committee Reports*

▲ Communications Committee Chair Harbert reported that the deadline for the July/August newsletter is June 11 with the lead article by the Transportation Group while the secondary article will be on the 150th Anniversary. Chair Harbert's email at Alfred Benesch is working again.

▲ The President Elect dinner meeting is scheduled for Wednesday, June 13 at the Sheraton Gateway Suites near O'Hare Airport. The President Elect's itinerary has him touring projects and engineering offices earlier in the day. The Past Presidents and

the Board can come before the scheduled 5:30 p.m. start.

▲ The Minority Affairs committee is getting volunteers from the Groups to help with the Golf Outing. This is scheduled for August 23rd.

▲ 150th Anniversary Chair Vincent stated that the committee met last week to develop lists for projects and engineers. This list of 17 projects and 14 engineers will be included in the July / August newsletter with the intent to solicit additional names and projects from the general membership. Concern was raised with listing of only the Top 10 engineers when there will probably be many more qualified candidates. Does the Board have enough information to make a rational decision? It was suggested to raise the number of engineers up to the Top 25 instead. This should be good P.R. for the Section.

▲ The projects and engineers must be within the Illinois Section boundaries. The projects and engineers will be featured in the ten issues of the 2002 newsletters. Then a book, pamphlet or CD-ROM can be developed. These could then be announced and presented at an 150th Awards dinner in the Spring of 2002.

### ■ *New Business*

▲ Structural Group Chair Dickson was contacted by Fazlar Khan's daughter about a book being written on his life. She is looking for a letter of support from the Group and the Section to the Publisher. SEAOI will also be supporting this. ASCE National was contacted and showed some interest in possibly publishing it if needed. A letter will be written and signed by President Kendall and Group Chair Dickson.

▲ ASCE National has selected Director Thomas Burke as a winner of the Edmund Friedman Young Engineer Award. Congratulations Thomas!

▲ Gene Corley of Construction Technology Laboratories has been selected as an Honorary Member by ASCE. Congratulations!

—By *Don Wittmer, Secretary*

## Section Activities

### Younger Member Group

#### July Event

**Event:** Annual Cubs Outing, Cubs Vs Royals  
**Date:** Sunday, July 15th, 2001  
**Place:** Wrigley Field  
**Cost:** \$18/ticket Reserved Seats in Upper Terrace

Call Jack Franke at (815) 439-6568 or [jfranke@chicagobridge.com](mailto:jfranke@chicagobridge.com)

#### August Event

**Event:** Gameworks  
**Date:** August 16th, 5:30 pm  
**Place:** Gameworks in Schaumburg

RSVP to Julie Wisnewski at [JWisniew@hdrinc.com](mailto:JWisniew@hdrinc.com) for rides and directions.

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

### Urban Planning & Development Group

The Urban Planning & Development Group will meet next on July 19, 2001. Illinois Section activities for the ASCE 150th Anniversary will be a major topic of upcoming Group meetings. Group meetings are held every third Thursday of the month.

Our next scheduled meeting is:

**Date:** Thursday, July 19, 2001  
**Time:** 7:30 AM  
**Place:** Denny's Restaurant  
Oakbrook Terrace, Illinois

### Structural Group

#### Panel Discussion of ASCE's Proposed First Professional Degree

A panel of local engineers will discuss the merits and drawbacks of ASCE's proposed professional degree. The panel will discuss such issues as ASCE's reasons for believing that a professional degree is necessary, the effect a professional degree requirement will have on the industry, and the current state of civil engineering education. Mr. Mike Goodkind of Alfred Benesch & Co. will give a short overview of ASCE's proposal. The panel will consist of principals of engineering

firms, professors from local universities and practicing engineers. ASCE's draft report on the first professional degree can be downloaded at [www.asce.org](http://www.asce.org).

**Date:** Wednesday, Sept. 19, 2001  
**Time:** 5:30 p.m. social  
6:00 p.m. dinner  
7:00 p.m. program  
**Place:** Maggiano's Restaurant  
516 North Clark St.  
Chicago, Illinois  
**Cost:** \$30 / \$20 Students  
**RSVP:** Barb Pries at (312) 263-1606  
or email at [isasce@popmail.mcs.net](mailto:isasce@popmail.mcs.net)  
by Thursday, September 14, 2001

### Environmental Engineering & Water Resources Group

Our July and September meetings will be on the second Tuesday of the month – July 10 and September 11 at the office of Christopher B. Burke Engineering, Ltd in Rosemont. We always welcome new people and ideas.

If you would like to contribute locally to your professional field in environmental or water resources engineering and would like more information contact Greg Boehm at (847) 634-5550.

The EE&WR Group will be hosting a introductory FEQ course in October. Look in the September newsletter for more information. Other future training this year will likely include HEC-HMS.

#### July Meeting

**Date:** July 10, 2001 (Tuesday)  
**Time:** 5:30 p.m.  
**Place:** Christopher B. Burke Engineering, Ltd. in Rosemont

#### August Meeting

No meeting

#### September Meeting

**Date:** September 11, 2001 (Tuesday)  
**Time:** 5:30 p.m.  
**Place:** Christopher B. Burke Engineering, Ltd. in Rosemont

For more information contact Greg Boehm at (847) 634-5550

### Transportation Group

**Next**  
**Activity:** Monthly Group Meeting  
**Date:** September 12, 2001  
**Time:** 5:30 p.m.

**Place:** Knight Architects Engineers Planners  
**Topic:** Organizational and Planning Meeting for Upcoming Activities  
September Technical Program - TBD  
Possible suburban dinner meeting with major speaker

### Geotechnical Group

There are no summer events planned for the Geotechnical Group. Have a nice summer and we'll see you in the fall.

**Topic:** TBA  
**Place:** Athena Restaurant  
212 South Halsted  
Chicago, Illinois (312) 655-0000  
**Date:** Tuesday, September 11, 2001  
Cocktails @ 5:30pm  
Dinner @ 6:30pm  
Presentation @ 8:00pm  
**Cost:** \$30 with reservations  
\$35 at the door  
\$20 Education/Government Employees (with reservations)  
\$15 for students (with reservations)  
(Make checks payable to "Geotechnical Division of the IL Sect. - ASCE")  
**RSVP:** Via e-mail or phone to Dhooli Raj by Friday, September 7, 2001  
[draj@casefoundation.com](mailto:draj@casefoundation.com) or (630) 924-3146.

### Minority Affairs Committee

The Minority Affairs Committee meets the first Wednesday of every month. At our next meeting we will be discussing organization of this year's ASCE Golf Outing, our annual sponsorship of Chicago area high school students to an Introduction to Engineering Summer Camp, and compilation of a resume book of college students in search of summer internships with area consulting firms. All interested in helping organize these activities are encouraged to attend.

**Date:** Wednesday, July 11, 2001 and Wednesday, August 1, 2001  
**Time:** 5:30 P.M.  
**Place:** Harza Engineering, Sears Tower  
233 South Wacker Drive,  
9<sup>th</sup> Floor, Chicago, IL  
**RSVP:** Hugo Guevara (312) 938-0300 ext. 4244  
Email: [hugo.guevara@cte-eng.com](mailto:hugo.guevara@cte-eng.com)

## Congratulations



**Dr. W. Gene Corley**, Senior Vice President of Construction Technology Laboratories, Inc. (CTL), has been elected to Honorary Membership in the American Society of Civil Engineers.

Visit [www.mcs.net/~isasce/](http://www.mcs.net/~isasce/) for his biography.

## Congratulations



**Thomas T. Burke**, Ph.D., P.E. will be awarded the Edmund Friedman Young Engineer Award in Houston this year by ASCE National.

## \$5,000 CASH

As part of the 150th celebration, National is giving \$5,000 to any member who can recruit 150 new members.

If you are like most of us, who maybe get 1 or 2 new members every couple years, the Illinois Section has a request of you. Instead of using your name as the sponsor, Dave Kendall has been nominated as the official sponsor for our section. He will turn the money over to our section, if we recruit the 150 members. The membership drive ends in September of 2002, so we have a good chance. Please visit the website at [www.mcs.net/~isasce/](http://www.mcs.net/~isasce/) for more information and applications. The following information should be used in the sponsor section of the form: Dave Kendall, Earthtech, 3121 Butterfield Rd., Oak Brook, Illinois 60523.

## Geotechnical Construction Project Manager – Chicago

If you decided to become an engineer because you wanted to make things happen, Hayward Baker (HB) can provide you with project management experience while at the same time expanding your technical knowledge. And, you will be doing that while being part of a company that's recognized as the best in the business.

Hayward Baker is America's leading geotechnical contractor. We solve problems, not just at the drawing board, but in the field. We are contractors who implement solutions. Throughout North America, our offices provide solutions for soil stabilization, ground improvement, foundation rehabilitation, heave control, and slope stabilization and excavation support.

Position involves managing geotechnical construction projects: estimating, commercial and contract administration, liaison with engineers and general contractors,

### Candidate needs:

- BSCE plus two to five years experience
- Sound technical knowledge,
- Problem solving and commonsense
- Communication and teamwork
- Commercial instincts
- Get-it-done attitude
- Meet hectic and changing schedules and deadlines
- Some travel

Comprehensive salary and benefits package. Send confidential resume with salary history:

**HAYWARD  
BAKER**  
A Keller Company

hr@haywardbaker.com  
or Fax to 410-551-1998  
HAYWARD BAKER INC.

EOE/M/F

# What Will Chicago Look Like in The Year 2100? Engineering Competition Will Give Area Students A Chance to Predict

Solar-powered monorails, telephones hidden in sunglasses, satellites that track criminals: No one knows for sure what changes the next hundred years will bring to America's communities. But, Chicago-area seventh- and eighth-graders will have an opportunity to explore what the future might hold during the 2002 National Engineers Week Future City Competition™, which is looking for middle school and volunteer engineer participants starting with the new school year in September.

Begun in 1992, the non-profit educational program invites middle school students across the country to design cities of tomorrow. First on computer, using SimCity 3000 software provided free to each participating school, and then in three-dimensional scale models, the students create cities that collect taxes, pay bills, provide jobs, fight pollution, run transportation systems, and deal with a host of other problems. The program inspires imaginations (the monorail, telephone and law enforcement satellite ideas mentioned above were raised by students in the 2001 competition) but always with an eye on the consequences. A new factory, for example, means more jobs and tax revenues, but it also results in more pollution and traffic.

The combination of reality and dreaming has made the Future City Competition an increasingly popular educational tool in schools across the country. More than 26,000 students from hundreds of schools participated in the 2001 competition. Teachers appreciate the way it brings math and science to life, how it encourages children to cooperate (students work in teams of three), and hones writing and public speaking skills since each team must create an abstract and essay about their city and defend its design before a panel of judges at the competition.

For their part, students praise Future City as that rare combination of something that is both educational and fun. The wide diversity of the competition's requirements — working with computers, building models and preparing presentations — allows students with varying talents a chance to shine.

A third critical element of Future City is the insight into careers in engineering it gives to young people, something few might otherwise consider. The volunteer engineer helps to guide each team of students in the competition through the rigors of building a successful city. Despite the broad importance of their profession, engineers often work without much acknowledgment. Those who've volunteered for the competition say it gives them a chance to show, first-hand, the challenges and rewards of engineering. Many add that it also helps them perfect their public speaking, since being able to keep teenagers interested means having the ability to please a notably tough audience.

## "FUTURE CITY" COMPETITION



1ST PLACE WINNERS  
ST BARNABAS SCHOOL,  
CHICAGO  
"MAROPOLIS"

Meredith Messerle,  
Katherine Durham,  
Dan Cullina,  
Jeanne Conway (teacher),  
Tim Cullina (engineer mentor)



Students design their city through the fall and build models in December and January. Regional competitions are held in January with each regional winner going on to the national finals in Washington during National Engineers Week, February 17-24, 2002.

**VOLINTEERS** 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.

The Future City Competition is sponsored by the National Engineers Week Committee, a consortium of engineering societies and major U.S. corporations, co-chaired in 2002 by the American Society of Civil Engineers (ASCE) and DuPont.

For more information on signing up your school for the competition, or to volunteer as an engineer mentor, please contact Don Wittmer, Chicago's regional coordinator, at (312) 930-9119, or via e-mail at [dwtittmer@hntb.com](mailto:dwtittmer@hntb.com), visit the Future City web site at [www.futurecity.org](http://www.futurecity.org), or call the Future City information line toll-free at 1-877-636-9578.

## Seeking a Project Engineer and a Staff Engineer

CE DESIGN, LTD., a fast growing professional design firm, is looking for engineers who are motivated and searching for an opportunity to grow their careers. We take pride in our fast response customer service and our commitment to on-time, on-budget project completion

Project Engineer candidates will have an Illinois P.E. license, experience in all phases of site development and AutoCAD expertise, and be responsible for project management.

Candidates for the Staff Engineer position will have a degree in Civil Engineering, AutoCAD skills and 0-5 years experience.

CE DESIGN, LTD. offers a competitive salary along with a solid opportunity for advancement. Our benefits package includes 100% company-paid medical and dental coverage and a 401(k) program. Forward resume to:



[www.cedesignltd.com](http://www.cedesignltd.com)  
1875 D Rohlwing Road Rolling Meadows, IL 60008  
Tel: 847-392-3570 Fax: 847-392-8252  
[info@cedesignltd.com](mailto:info@cedesignltd.com)

## Hillside Bottleneck

(continued from page 1)

on caissons cored into rock so the substructure of for the permanent 47-ft and 120-ft spans could be constructed. The temporary trestle was assembled along the track and swung into place during a 16- hour track outage. The new spans for the longer bridge were constructed on falsework adjacent to the track. The longer span was rolled-in and the shorter span was swung in place during a 24-hour track outage.

During the 2001 construction season work will focus on the construction of the C-D Roadway, replacement and lengthening of the Westchester Blvd Bridge over I-290, widening of the Addison Creek Bridge, installation of 6 miles of noise abatement wall, construction of a gate system on the Roosevelt Road entrance ramp that controls traffic entering I-290 at peak times, reconfiguration of the westbound I-290 / I-88 bifurcation and installation of a 450-foot communication tower.

Three lanes are being maintained in each direction on I-290 during the day while construction proceeds. Lane closures are allowed only during off-peak night hours.

The road improvements associated with the Hillside Bottleneck project are only one part of a long-range plan to reduce congestion that motorist's experience driving on the Eisenhower Expressway. The current project will improve access to eastbound I-290 and reduce travel times from the I-88 York Road Toll Plaza through the Mannheim Interchange, future improvements will increase capacity on the Eisenhower between Mannheim Road. and Austin Ave.

## IN MEMORIAL

**Wallis S. Hamilton** Emeritus Professor of Civil Engineering, Northwestern University and former consultant with Harza Engineering Company, died on May 2, 2001.

**Robert L. Hall** past President of the American Society of Civil Engineers, died on April 22, 2001.

**Nominations for 2001 Awards  
are due July 27, 2001.  
Forms can be obtained from the website,  
[www.mcs.net/~isascce/](http://www.mcs.net/~isascce/)**



A Jacobs Company

JE/Sverdrup Civil, Inc., a world leader in Consulting Engineering, is expanding its transportation engineering practice in Chicago. As a result, we seek outstanding and motivated individuals qualified in the following disciplines:

**Senior Transportation Engineer/Project Manager & Design Lead:** 5-20 yrs. experience in Design and Preparation of Contract Documents for roadway design projects, including roadway geometrics, MOT and construction staging, pavement design, and drainage design. Requires an Illinois P.E. and excellent work history with the State and local Department's of Transportation. Proficient with Geopak and MicroStation J software a must.

**Structural Project Engineer & Project Manager:** 5-20 yrs. experience in Bridge Design to include experience with structural steel, and reinforced and prestressed concrete bridge design in all categories of complexity, as well as experience supervising other engineers and CAD production staff. Experience with structural analysis and design in accordance with AASHTO, AISC and ACI specifications. Must have excellent work history with the State and local Department's of Transportation. Pursuit of Illinois S.E. a must.

**Bridge Detailer/CADD Tech:** 5 yrs. Minimum experience in bridge detailing and CADD drafting support in preparation of structural plans and complex structural details. Should have working knowledge of bridge design standards, basic engineering principles, material properties, and ability to develop design concepts to full detail. Candidate must have post high-school training in drafting CADD technology and working knowledge of State detailing requirements.

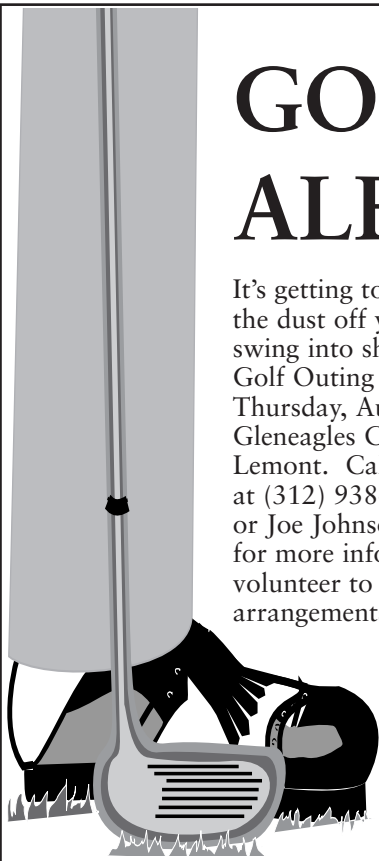
For confidential consideration, please fax your resume to (314) 770-5115, E-Mail it to [Michael.Coleman@jacobs.com](mailto:Michael.Coleman@jacobs.com), or mail it to:

JE/Sverdrup Civil, Inc.  
ATTN: Mike Coleman  
222 S. Riverside Plaza, Suite 1400  
Chicago, IL 60606

An Affirmative Action, Equal Opportunity Employer

# GOLFERS ALERT!!!

It's getting to be that time to wipe the dust off your clubs and get your swing into shape. The 2001 ASCE Golf Outing is scheduled for Thursday, August 23 at the Gleneagles Country Club in Lemont. Call Hugo Guevara at (312) 938-0300 ext. 4244 or Joe Johnson at (312) 831-3821 for more information, or to volunteer to help with the outing arrangements.



## Calendar of Events

**2001**

July 10	EE&WR Business Meeting
July 11	Minority Affairs Committee Meeting
July 15	YMG Cubs Outing
July 19	UP&D Group Monthly Meeting
Aug. 1	Minority Affairs Committee Meeting
Aug. 16	YMG Gameworks Social
Aug. 23	ASCE Golf Outing
Sept. 11	EE&WR Business Meeting
Sept. 11	Geotechnical Group Dinner Meeting
Sept. 12	Transportation Group Meeting
Sept. 19	Structural Group Panel Discussion
Sept. 19	ASCE Monument of the Millenium Awarded to "Reversal of the Chicago River"
Oct. 6-13	WSE Panama Canal: The Insider Tour
Oct. 15-18	Introduction to FEQ
Oct. 17	ASCE Annual Dinner

PRESORTED  
FIRST CLASS MAIL  
U.S. POSTAGE PAID  
LOMBARD, IL  
PERMIT NO. 28

ASCE Illinois Section  
**NEWS**  
203 N. Wabash, Room 2010  
Chicago, Illinois 60601