

# ASCE

American Society  
of Civil Engineers



# News

ASCE Illinois Section

Vol. 42, No. 8  
September 2001

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### Annual Dinner Meeting

**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.

## ASCE Designates Chicago Wastewater System as a Civil Engineering "Monument of the Millennium"

It is with great honor and pride that the Illinois Section announces that on September 19, 2001, President Robert Bein of ASCE will present to officials of the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), a Monument of the Millennium Award at a ceremony to be held in Chicago. Illinois Section membership and the civil engineering community is invited to attend the award ceremony which will be held at 10:30 a.m. on the south bank of the Chicago River at Lake Michigan at the north end of DuSable Harbor. A celebration luncheon will follow the ceremony at 12:00 p.m. at the Sheraton Chicago Hotel and Towers, 301 East North Water Street on the Esplanade Terrace. To register for the luncheon, please call Barb Pries of ASCE at (312) 263-1606.

The Millennium Challenge and Monuments of the Millennium were introduced to reflect on the contributions of the civil engineering profession to the development of quality of life in the 20th century. Through these programs, ASCE seeks to honor the civil engineering profession's contribution to the quality of life and well-being of people and communities worldwide, and acknowledges the creative spirit and ingenuity of the civil engineering profession.

For the Millennium Challenge, ASCE canvassed its members to determine the 10 civil engineering achievement that had the greatest positive impact on life in the 20th century and to recognize broad categories of achievement. ASCE's members ranked the 10 greatest civil engineering achievements as: airport design and development (Kansai International



Airport), dams (Hoover Dam), the interstate highway system, long-span bridges (Golden Gate Bridge), rail transportation (Eurotunnel Rail System), sanitary landfills/solid waste disposal, skyscrapers (Empire State Building), wastewater treatment (Chicago Wastewater System), water supply and distribution (California Water Project), and water transportation (Panama Canal). To find out more information about these honorees, visit the website [www.asce.org](http://www.asce.org).

Following the Millennium Challenge, a prestigious panel of civil engineers selected one national or international project to represent each of these 10 achievements. These Monuments of the Millennium demonstrate a combination of technical engineering achievement, courage and inspiration, and a dramatic influence on the development of the communities in which they are located. While each monument exemplifies the use of engineering ingenuity to overcome major design and construction challenges, this is not  
*(continued on page 7)*

## President's Notes

Dave Kendall

The ASCE National organization is promoting the concept of a master's degree as the first civil engineering professional degree. It takes real leadership to promote an idea that may not be at first well received by the membership. Although many questions and details need to be answered, we should give them credit for leading the effort to keep our profession current during a rapidly changing period of our professional history.

If you really think about where we're going as a profession, you have to admit that the



If we truly want to be considered as professional civil engineers, then we must first insist that we treat each other as professionals.

# 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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**Submission deadline for the October Newsletter is September 10, 2001**

effort by them is really only a first step. Do I dare to suggest that perhaps engineers have abdicated their position of responsibility in today's modern society? After all, from Congress, to State government, to local government, an engineer in an elected office is a rare occurrence (not so 200 years ago). Most elected officials have legal or business backgrounds. Engineers are present to advise these good people, but engineers in general are not in the decision-making positions. Is it that we're too busy with our work to get involved? Or is it that our education is so technically oriented that communication and other skills are not emphasized as much as in the legal and business professions? Perhaps as part of the master's requirements, courses in public speaking, civics and effective communication would enhance the civil engineering profession as well.

Do I dare say that perhaps a course or two in business ethics would be helpful too?

I recall a number of years ago, a municipal engineer contacted my firm to ask if we were interested in submitting a proposal to do a small highway study for them on a fee basis. He explained that they wanted to interview us before providing us with the scope. They only wanted firms that had demonstrated experience and a professional staff to submit for the work. We put on our best "ties", polished our marketing brochures and marched over to the municipality.

How pleased we were when informed that we were short listed.

We then put together a thoughtful, well-prepared proposal that reflected our wisdom and experience. We really wanted the proposal to impress them because they had an active design and construction program. We knew this could be the start of many great things.

Can you imagine our surprise when they informed us that they had received proposals from eleven firms and awarded the study to a low bid-engineering firm for a fee of \$18,000? Our proposal was \$28,000 which put us in the middle of the pack. Their rationale in awarding the study to the low bidder was that they had interviewed all the firms and all were equally qualified, so why not take the cheapest?

I later summarized that the marketing and proposal preparation costs for our effort approached \$3500. (Remember, we wanted to impress them). I expected that the other firms spent just as much, except for the low bidder who I believe put their proposal together in about an hour.

I suggested to my VP that the next time they contact us, we advise the municipality to ask all the qualified firms to kick in \$2000 into a kitty. When enough money was in the kitty to cover the projected cost of the study, then the firms could draw straws to determine who got the job. After all, we are all equally qualified, and that way we could then save time and money in preparing a formal proposal.

I'm sure that every engineer involved in marketing has a similar sad tale or two to tell.

The point of this story is that our fellow engineers are doing these deeds to us and we to them; and of course, we are all allowing it to happen.

Perhaps, if we truly want to be considered as professional civil engineers, then we must first insist that we treat each other as professionals.

Then again, it might be easier to get a master's degree instead.

# Mine, Tunnel and Void Fill Grouting Techniques

**D**ue to the ever-increasing value of real estate and the limited amount of property left to develop, many sites are currently being developed that were once considered too costly, or otherwise impossible to develop. Included in this grouping are properties that are above existing abandoned mine, freight or water tunnels, or contain natural sinkholes or voids created by the weathering or solution of soft layers of rock.

Throughout downstate Illinois and the Midwest, property has been undermined for coal exploration. Within the City limits of Chicago, many properties are under-crossed by the infamous freight tunnels and the lesser-known abandoned water tunnels of ages gone by. Sinkholes occur throughout Michigan, Pennsylvania and Tennessee. In situations such as these, pre-development remedial measures must be taken to eliminate or reduce the risk of an underground void collapsing, or gases or liquids moving from one area to another below grade. Slurry grouting is an effective and economical method for filling voids or containing gases or liquids.

## Locating the Problem

Typically, underground voids are filled by drilling vertical and/or angled injection holes from the surface and then injecting grout, under pressure, into the void. In the case of a mine void, the location of the mine is frequently not completely known, since many mines were built before accurate mine maps were kept. In addition to the lack of construction information, mines can change over time; unauthorized removal of coal pillars may have occurred since the mine was abandoned; or the pillars may have collapsed over the years. Drilling into water or freight tunnels is a more straightforward process, because the location of the tunnel is generally known.

## Drilling And Pipe Placement

The drilling method needed to place the grout injection pipe within the void varies with different soil/rock strata. Once an access hole has been drilled into the void, a grout injection

*Many sites are currently being developed that were once considered too costly, or otherwise impossible to develop . . . properties that are above existing abandoned mine, freight or water tunnels, or contain natural sinkholes or voids created by the weathering or solution of soft layers of rock.*

tion pipe, generally from 3" to 5" in diameter, is lowered into the hole. The size of the grout pipe is determined by the desired grout injection rate. Tight formations and sinkholes require slower pumping rates than essentially wide-open mine or tunnel voids.

Drilling and grouting operations should proceed in a linear, logical fashion. Drilling primary grout injection holes on a predetermined pattern of 10 to 20 feet on center is much more practical and cost effective than randomly placing grout holes in an attempt to "chase the void." Chasing the void will lead to voids that have not been completely filled.

## Grouting

In most cases it is practical to begin grouting operations to form a barrier grout wall around the perimeter of the area that is to be filled. The barrier grout wall is formed by injecting a 4 to 6-inch slump grout. Once the barrier grout wall is completed, in-fill grouting operations can begin.

Utilizing a system of primary and secondary grout locations will ensure the void has been

completely filled, since the secondary holes tend to act as probe holes for the primary grouting operation. Grouting at each primary and secondary hole should continue until the desired refusal injection pressure is reached. Refusal pressure should be not more than 600 to 800 psi, held for no more than 5 minutes. Pressures or hold times greater than these can lead to rock fractures or breaching of the barrier grout wall. This can dramatically increase grout takes and lead to incomplete filling of the void.

## Grout Mix

Grout mix design generally consists of cement, fly ash, and sand or limestone screenings. Admixtures are generally not needed. However admixtures that increase flowability or retard set may be desirable depending on the type and local availability of the flyash. One must remember that the grout placed in the tunnel or natural void is generally replacing in situ soil that was removed or displaced during the creation of the void. Therefore, it is important to understand that the grout should not be compared to structural concrete. The strength of the grout does not need to be any stronger than the strength of the soil that it replaces. (100 psi unconfined compressive strength of grout equals 7 tsf unconfined compressive strength of soil.)

Through the use of void grouting techniques, sites previously considered unworkable because of underlying, naturally-occurring or man-made voids can now be considered viable. Specialty grouting contractors can work with owners and their representatives to develop the appropriate grouting program to meet the specific subsurface conditions.

## Membership Drive Reminder

Don't forget to use  
Dave Kendall as your sponsor  
for new memberships.  
See [www.mcs.net/~isasce/](http://www.mcs.net/~isasce/)  
for more information.

# Illinois Section News & Secretary Report

J U L 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 June Income Statement and General Ledger Trial Balance was discussed and approved. Only general expenses were paid out this month. In income, first three items are under budget. The expenses seem to be about on budget. Director Loucks has created a letter to send out to delinquent advertisers. Treasurer Zimmerman will review.

## ■ *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 had no activity in the past month and has nothing scheduled for this month. Their next activity will be in September with a Panel Discussion regarding ASCE's First Professional Degree Proposal on Wednesday, September 19 at 5:30 p.m. at Maggiano's in Chicago.

▲ The Environmental Engineering and Water Resources Group had no report.

▲ The Urban Planning & Development Group held their Group meeting on June 21, 2001. A discussion took place on nominations for projects and people for this year's annual award, planning for a fall dinner meeting, and the newsletter feature article due September 10.

The next meeting is scheduled for July 19 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 June 13 at Bacino's Restaurant. No technical programs or meetings are scheduled through August. The next planning meeting is scheduled for September 12 at 5:30 p.m. at Knight's office. A technical program is scheduled for September with a speaker from either IDOT or ISTHA.

▲ The Younger Member Group held their their Annual Golf Outing on June 23rd at Glen Eagles. 43 people were in attendance. The Annual Baseball Outing is scheduled for Sunday, July 15 at Wrigley Field. The August event will be at Gameworks in Schaumburg on Thursday, August 16 from 6:00 – 9:00 p.m. Cost is \$25.

## ■ *Committee Reports*

▲ Communications Committee Chair Harbert reported that the deadline for the September newsletter is August 10 with the lead article by the Geotechnical Group while the secondary article will be by the Younger Member Group (Note: It was decided later in the meeting that the lead article will be on the Monuments of the Millennium). Chair Harbert is looking for any volunteers to help review and proof the newsletter each month.

▲ The President Elect/Spring Suburban dinner meeting was held on Wednesday, June 13 with 40 people in attendance. He was very articulate and a good speaker. President Elect Smith will provide a report at the next meeting. The President Elect had a full agenda including meeting with the MWRDGC. Not a lot of new faces were at the suburban location. It may be better to schedule it in March or April next year.

▲ An article on projects and engineers for the 150th Anniversary was included in the July/August newsletter challenging members to develop additional names and projects.

▲ The Minority Affairs committee is holding monthly meetings with 5 – 6 people at the last meeting. The Notre Dame program is currently happening with 3 students in attendance. The golf outing is progressing and all Board members should promote it to everyone including vendors. The date is August 23rd and will be half shotgun as we are guaranteeing at least 72 golfers.

## ■ *New Business*

▲ ASCE National's "Monuments of the Millennium" will be presented to the MWRDGC in a ceremony on September 19 for the Reversal of the Chicago River. The ceremony will begin around 10:00 a.m. with a luncheon planned for afterwards. Everyone is invited to attend and we should encourage this to be a big event. This event and recognition will be used for the lead article in the September newsletter. ASCE National and the MWRDGC are working together on this program.

▲ There will be no Board meeting in August; a picnic may be planned instead. President Kendall will follow up on this. The September meeting will be held on September 10th.

▲ An announcement of the Illinois Engineering Council Annual Awards Banquet was distributed to the Board. The date is Saturday, August 18 with a presentation to be made by Tom Berns, the first Professional Engineer to serve in the Illinois House of Representatives in many decades.

—By Don Wittmer, Secretary

## Nominations Open for Illinois Section Board of Officers (2001-2002)

The Nominating Committee of the Illinois Section has met and has recommended a slate of officers for the upcoming year. The nominations will be presented to the Illinois Section Board at their meeting on September 10, 2001. The general membership is also encouraged to recommend any Illinois Section ASCE member who wants to take a more active role in ASCE and serve on the upcoming Board. These recommendations must be made to John O'Holleran, committee chair, at [asce@hntb.com](mailto:asce@hntb.com) by Friday, September 7. The Board will then select from the candidates and they will be installed as officers at the Annual Dinner Meeting on October 17. A detailed biography of the nominees will be included in the October newsletter. Those positions up for election are Treasurer (2-year term) and three Directors to 2003.

## Seeking Project Engineers 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:



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[info@cedesignltd.com](mailto:info@cedesignltd.com)

## 2002 National Engineers Week Future City Competition



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

The Chicagoland Engineers Week Committee is once again sponsoring the 2002 Future City Competition being held in at least twenty-two 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.

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.

## Section Activities

### Younger Member Group

#### September Event

- Event:** Kickoff Meeting  
**Date:** Thursday, September 20, 2001  
**Place:** Alfred Benesch  
205 N. Michigan Ave., 23rd floor  
**Cost:** In exchange for your ideas,  
we will provide pizza.

Call Lisa Harbert at (312) 819-9776 ext. 308 or lharbert@benesch.com

This is the meeting when we decide on our technical meetings, philanthropic events, and social events for the 2001-2002 year. This will be ASCE's 150th anniversary, and the YMG would like to celebrate in style. We encourage anyone 35 or younger to attend. You do not need to be an ASCE member.

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

The Urban Planning & Development Group will meet next on September 20, 2001. A November dinner meeting is also being planned. Group meetings are held every third Thursday of the month.

Our next scheduled meeting is:

- Date:** Thursday, September 20, 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 from 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 September and October meetings will be on the second Tuesday of the month, September 11 and October 9, at the office of Christopher B. Burke Engineering, Ltd in Rosemont. Eleven people attended our July meeting. We always welcome new people and ideas.

If you would like to contribute to the ASCE programming in environmental or water resources engineering and would like more information contact Greg Boehm at (847)634-5550.

Future training this year will likely include best management practices, HEC-HMS, and introductory FEQ.

#### September Meeting

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

### October Meeting

- Date:** October 9, 2001 (Tuesday)  
**Time:** 5:30 p.m.  
**Place:** Christopher B. Burke Engineering,  
Ltd. in Rosemont

### Transportation Group

The Transportation Group welcomes any new members interested in the wide-ranging area of transportation to join us at our Committee meetings. The meetings are held at Lester B. Knight's offices on West Randolph in the loop at 5:30 p.m., usually on the second Wednesday of every month. So if you're interested, please call Chairman Dean Kiesling at TY Lin International at (773) 792-9000, Ext. 53, and we'll be glad to get you involved in the Committee's activities.

The Committee is currently planning a suburban Technical Program for mid to late September - possibly with a speaker from IDOT or the Tollway. If you have any ideas for speakers or project presentations, please inform the Committee and we'll develop a program. The Committee is planning interesting and informative activities as we start up in the fall.

### Geotechnical Group

The theme for the year will be "Challenging Projects and Lessons Learned". This topic will be visited a few times throughout the year during our dinner meetings. Presenters will be selected from varying ends of the geotechnical spectrum and will discuss the challenging and cutting-edge work we dream about but may never see in our careers. We will focus on the talented, local Chicago-area pool of engineers, contractors and educators but will try to sprinkle in a few presenters from other parts of the country with differing soil conditions.

Meetings will be held at the Athena Restaurant. We look forward to continued high attendance of 60 to 80 people per meeting and positive (hopefully!!) feedback from the group. Our January, 2002 meeting will be a joint meeting with the ASCE Structural Group, and we will have a Lecture Series in Spring, 2002.

### Group Dinner Meeting

**Topic:** *Challenging Projects and Lessons Learned*  
by World Renowned Geotechnical Consulting Engineer(s)

**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

**RSVP:** Via e-mail or phone to Dhooli Raj  
by **Friday, September 7, 2001**  
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 the organization of next 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, September 5, 2001  
and Wednesday, October 3, 2001

**Time:** 5:30 P.M.

**Place:** Harza Engineering, Sears Tower  
233 South Wacker Drive,  
9th Floor, Chicago, IL

**RSVP:** Hugo Guevara (312) 938-0300  
ext. 4244  
Email: hugo.guevara@cte-eng.com

*Annual Dinner*

**October 17th**

*see insert for  
registration form.*

## ASCE Designates Chicago Wastewater System as a Civil Engineering "Monument of the Millennium"

*(continued from page 1)*

the sole criterion. All were selected because, like the great civil engineering works of previous centuries, they uplifted the human spirit and created pride in the communities served; used state-of-the-art design and construction techniques to preserve the natural environment; and made a significant contribution to regional and world economies. Most importantly, all of these monuments created a positive change in the way people live and how they conduct business. They represent some of the most significant public works achievements of the past century and serve as a symbol of engineering's finest moments in history.

*The reversal of the Chicago River was cited as an outstanding example of wastewater treatment for the following reasons:*

Throughout the 19th century people lived in filth, disposing of garbage and raw sewage by dumping it into streets, alleys and waterways. As a result, they often suffered from such deadly diseases as cholera and typhus. Until the early 1900s, America's urban wastewater, including industrial waste, was dumped into the nation's waterways. Few municipalities treated wastewater, as it was widely believed that running water purified itself. Ironically, with the implementation of water treatment supply systems, the need for uncontaminated water supplies decreased, and the nation's waterways became more polluted. As recently as 1968, the city of St. Louis discharged 300 million gallons per day of raw waste into the Mississippi River. By 1972, only one-third of U.S. waterways was safe for drinking and fishing. With the advent of wastewater treatment, cities became much more equipped to deal with population influx. Such innovations as activated sludge treatment allow for the maintenance of high levels of water quality. Wastewater treatment led to an increase in life expectancy, reduction in infant mortality and morbidity, control and prevention of communicable diseases, and improvements to the aquatic environment, which enables the public to enjoy water sports and maintain a healthy ecosystem for marine life.

**Chicago Wastewater System: A Monument of the Millennium** The reversal of the Chicago River, completed in 1900, enabled Chicago to continue its growth and progress into the 20th Century. Before the reversal, the safety of the Lake Michigan drinking water supply was constantly threatened by untreated sewage flowing directly into the river, which then flowed back into the lake. The Chicago Sanitary District, as it was known then, undertook a monumental task when it built a 28-mile-long channel that would connect the Chicago River with the Des Plaines River to reverse the flow of the river away from Lake Michigan. More than 28 million cubic yards of glacial drift and 12.9 million cubic yards of solid rock were removed, using conveyers, steam shovels, horse-drawn wagons, dynamite and the labor of thousands of immigrants. The canals created the mid-continent link between the North Atlantic Ocean-Great Lakes and the Gulf of Mexico-Mississippi River and they still function today yielding vital pollution control, flood control, and navigational benefits for the region.

The MWRDGC is recipient of this award and exists today as the agency carrying out the urban wastewater management responsibilities for Chicagoland protecting Lake Michigan and area waterways from pollution. The District is a forerunner in successfully developing and implementing wastewater treatment and biosolids processing technology. The scale and infrastructure of this agency includes the service of 872 sq. mi. and population of 5.5 million within Chicago and 125 suburbs, huge major civil works infrastructure in place (including 7 wastewater reclamation plants (among them Stickney WRP at 1.2 BGD, one of the largest in the world), 550 miles of large interceptor sewers, over 30 flood control reservoirs, over 100 miles of TARP deep tunnels, 80 miles of canals and waterways, etc.).

Of special note, the MWRDGC is a 3-time winner of the ASCE Outstanding Civil Engineering Achievement (OCEA) Award for the Tunnel and Reservoir Plan (TARP), Sidestream Elevated Pool Aeration (SEPA), and Prairie Plan.

# P.E. Review Course

*Hosted by the Younger Member Group*

**\*\* Updated for the new test format \*\***

Will meet once or twice a week  
in Chicago during  
September and October.

\$200 will cover dinner each night  
and handouts.

*Please register with Lisa Harbert  
at (312)819-9776 ext. 308 or  
Lharbert@benesch.com.*

## Calendar of Events

### 2001

Sept. 5	Minority Affairs Committee Meeting
Sept. 11	EE&WR Business Meeting
Sept. 11	Geotechnical Group Dinner Meeting
Sept. 11	SEAOI Dinner Meeting
Sept. 12	Transportation Group Meeting
Sept. 19	Monument of the Millennium Presentation
Sept. 19	Structural Group Panel Discussion
Sept. 20	YMG Kickoff Meeting
Sept. 20	UP&D Group Monthly Meeting
Sept. 20-21	Earthquake Induced Ground Motions Seminar
Oct. 3	Minority Affairs Committee Meeting
Oct. 9	EE&WR Business Meeting
Oct. 10-13	ASCE Annual Conference, Houston, Texas
Oct. 16-19	Introduction to FEQ
Oct. 17	ASCE Annual Dinner
Nov. 13-15	Computers for Construction 2001 Conference

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**AMERICAN SOCIETY OF CIVIL ENGINEERS  
ILLINOIS SECTION**

*85th Annual Dinner Meeting*

**WEDNESDAY, OCTOBER 17, 2001**

*At the*

**Palmer House Hilton Hotel**

*17 East Monroe Street, Chicago, Illinois*

*5:00 P.M. Cocktails 6:30 P.M. Dinner*

To: Illinois Section ASCE  
203 North Wabash Avenue, Room 2010  
Chicago, Illinois 60601  
Attention: Mrs. Barbara A. Pries (312/263-1606)

**Please Reserve:**

\_\_\_\_\_ Tables for eight at \$400.00 per table \$ \_\_\_\_\_

\_\_\_\_\_ Dinner Tickets at \$50.00 each \$ \_\_\_\_\_

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

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

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

**Sponsors Only:**

We will furnish a company display panel. Panels should be brought to the hotel between 4:00 p.m. and 5:00 p.m. on October 17, 2001.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

If you are sponsoring, please print or type your company name as you wish it to appear in the program.