

ASCE

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of Civil Engineers



News

ASCE Illinois Section

Vol. 44, No. 5
May/June 2003

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Golf Outing**

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Performance
Monitoring**

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Illinois Section
Newsletter
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over 2,000
Civil Engineers in
the Chicago Area.**

Call the editor,
Robert Gorski,
at (312) 697-7255
for details.

It's time for the Dan Ryan Expressway

The Illinois Department of Transportation - District 1 (IDOT) and a team of consultants headed by Consoer Townsend Envirodyne Engineers (CTE), TY Lin International, and Bowman, Barrett and Associates has begun the multi-year Phase II design task that will culminate in the complete, staged reconstruction of the I-90/I-94 (Dan Ryan Expressway) from 31st Street south to the I-57/Bishop Ford Interchange and continuing west to Halsted Street and east to Martin Luther King, Jr. Drive. This project continues one of IDOT's long-term goals of completely reconstructing the major feeder expressways serving the Chicago Central Area, as was accomplished with the Edens Expressway, then the Kennedy Expressway, and followed recently by the Stevenson Expressway reconstruction.

This 10-mile portion of the Dan Ryan was constructed between 1960-1963, and major bituminous resurfacing projects with ancillary improvements were done in 1974, 1990 and 1995. Over its 40-year lifespan, the Dan Ryan has experienced increasingly higher volumes of vehicular traffic, worsened by sometimes having three times the average percentage of multi-unit truck traffic due to the area served by this critical segment in the nation's Interstate system. At various times, the Dan Ryan Expressway has been noted as having up to the second highest traffic volumes of any Interstate section in the nation.

The Phase I study within the above route's project limits is currently being completed by IDOT and CTE. The study process has identified the following deficiencies that have developed over the Dan Ryan's service life:

- Several overpass structures lack the minimum required vertical clearance of 14'-6"

- The mainline pavement has severely deteriorated due to passenger vehicle and truck traffic, winter salting and weathering
- Traffic operation and capacity deficiencies have surfaced, such as inadequate weave-merge lengths and lack of lane balance, etc.



- Non-standard geometric and cross-sectional designs such as high entrance and exit ramp angles, curbed areas in the ramp gores and lack of full shoulders along the mainline
- Higher than average accident rates at a number of locations

To correct these deficiencies, the planning, design and construction

has the following project objectives:

- Improve traffic safety
- Remove operational deficiencies
- Enhance interchange geometry and operations
- Eliminate operational problem situations at various individual locations
- Improve traffic operations during peak travel times, while not increasing the overall traffic carrying capacity of the route
- Replace deteriorated mainline and ramp pavement and shoulders
- Improve signing and driver information systems
- Improve the overall condition and "look" of the facility

So what is going to be done? Besides total full-depth mainline and ramp pavement, and shoulder removal and replacement with Continuously Reinforced PCC pavement on the mainline, planned improvements will include:

- Reconstructing a number of overpass structures in cooperation with the City of Chicago's Department of Transportation to improve lateral and vertical clearances
- (continued on page 4)

President's Notes

John Zimmermann



The Important Role of the Engineer—Both Here and Abroad

In the four-day span of April 4th through April 7th I experienced temperatures that ranged from 22 degrees here in Chicago to 78 degrees in Indianapolis. (I was in Indy for a seminar that earned me 1.4 CEU's. (That's 14 Continuing Education Hours here in Illinois, but that's a previous newsletter.) I was able to experience the agony and the ecstasy that goes with NCAA Men's Basketball tournament Final Four. My Marquette Golden Warriors

(Gumbelism), after looking like the team to beat as they whipped Kentucky the week before, lost handily to Kansas in one of the more lopsided games in Final Four History. Well, at least I had my tickets to the Cubs Home Opener against the Expos. Until it started snowing.

One of the interesting dynamics about contributing to a monthly publication such as this newsletter is that it is very easy to provide summations about recent history, but it is very difficult to be kept up with current events. The submittal deadline for our newsletter publication is typically the 10th day of the month, leaving a 20-25 day period of 'news' that may come and go before the issuance of the 'current' newsletter. Considerations need to be made about when things are going to be read and decisions need to be made in an effort to keep the reader interested. For example, ASCE has been approached by several organizations and individuals that have asked us to go on record by stating that the destruction of Meig's Field will have an effect on nationwide air travel. It's an interesting premise, and certainly easy fodder for our newsletter. But is the Meig's field situation going to be relevant May 1st? Probably not.

At this point in time, most media outlets have declared the war in Iraq over. Discussions have moved from the strength of the Republican Guard divisions to the rescue of 7

POW's. The aftermath of this war is now being discussed as much the ongoing fighting. This is what is worth mentioning here. If you are an objective observer of this and the previous Gulf War, you would note two striking themes. The first gulf war was about precision-guided destruction. This war is about precision-guided preservation.

The precision by which these forces have worked has allowed most of the infrastructure in Iraq to be left intact for the remaining population. It's also worth noting that the Coalition forces appear to have a formidable legion of engineers 'in-theater' to tackle any problems that are encountered along the way. During the first gulf war, over 800 oil wells in Kuwait were set ablaze as the Iraqi forces retreated. The smoke and pollution caused by the fires could be seen traveling some 1000 miles from Kuwait. It took 8 months, record time, to put the fires out. This time around, the Coalition had engineering corps, both public and private, on hand to put out the few fires the retreating Iraqi forces were able to start. They did so in a matter of hours. The Iraqi people will not have to sit idly by as the main fuel of their economic engine goes up in smoke.

In Basra, Coalition Engineers are in the process of fixing the failing water supply and distribution network that city uses. The Army Corps of Engineers is clearing the debris of
(continued on page 6)

ASCE Illinois Section News

ILLINOIS SECTION NEWSLETTER

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**Submittal deadline for the July
Newsletter is June 10, 2003**

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Case Study: Ground Movements during Caisson Installation

The continued expansion of the Northwestern University Medical Campus in downtown Chicago has given rise to the opportunity to monitor the effects of below grade construction on adjacent streets and utilities. The new project consists of a twelve story steel structure with a two story basement. Temporary earth retention for the basement structure consists of hot-rolled steel sheeting supported with a three level tie-back system into the underlying sands and clays, with the building being supported by caissons bearing at 90 feet below grade.

As is typically found in the area of Northwestern, there is a layer of miscellaneous fill material extending 10 to 15 feet below grade which overlays a 10 to 15 foot layer of fine to coarse sand. These layers are typically cased off in order to prevent any ground movements during the shaft installation and are therefore not considered in this particular study. It is the underlying silty clays which are of concern and pose a potential for movement. In this particular site, the silty clay, described as soft to medium, ranges from depths of 30 to 45 feet below grade.

The overall foundation project installation (earth retention and caissons) required that the ground movements be restricted so as not to impact any of the many utilities, city streets and adjacent buildings that existed in very close proximity to this particular site. The primary movement criteria with respect to this actual site focused on the performance of the temporary earth retention system; the subsequent influence of the caisson installation on the overall movement is discussed herein.

One of the unique features involved was the pre-existing deep foundations, both drilled piers and wood piles from the previous structure. The pre-existing condition of the site provided for unknown variables with respect to movement, given the presence of wood pile foundation systems (approx. 1500 piles) and drilled shafts (approx. 60 caissons) from the previous structure.

What would the impact be of drilling through the pile or shafts? Given the assumption of the time dependence of "squeeze", would there be a problem during caisson installation? Could the wood pile be extracted (as done in the past) or would this also create a potential for movement through the soft clays? Would the pile act as a potential stabilizing factor for the volume trapped within the driven sheeting?

A case study was performed categorizing the caissons by shaft diameter, number of wood pile obstructions in the shaft and by the

amount of time to drill and pour the shaft. Close attention was given to perimeter shafts which encountered wood piling and were in proximity to inclinometers to observe movements as the project progressed.

At no point during the drilling of the caisson, did it appear that movements in excess of those predicted and observed during the test shafts occurred. The following is a brief summary of the observations during the caisson study.

- The trial shafts and the observations during this work reinforce the studies done to date and set in practice with respect to the potential for movement of soft clays and "benchmarks" set, i.e. ratio of overburden pressure to undrained shear strength. These analyses have helped to establish what should be warning signs and with the correct observation and execution of the work, shafts can be drilled minimizing movement of potentially unstable ground.
- In the caissons where there was an extended period of time for the installation of the shafts, what were the effects of the surrounding wood piling which remained in place?

Did these "columns" which were obviously impact driven for the original structure create a reinforced earth structure with the surrounding clays and therefore prohibit or restrict the potential for movement? Other work performed in the city, under similar circumstances, has revealed somewhat different results. The backfilling of the shafts, prior to full completion, also helped in the prevention of movements, though one might have expected to see a nominal difference from those groups where no piling existed.

- At no point during the course of the caisson installation was there any need for removal or pumping of inflowing water into the shaft which obviously eliminated the potential for movement due strictly to volume loss of the soil.

The diligent geotechnical investigations and trial shaft exploration made for a project in which all information was known ahead of time and executed accordingly.

Contributed by Geotechnical Group Chair Dhooli Raj, Case Foundation, 1325 W Lake Street, Roselle, IL 60172, (630) 529-2911, draj@casefoundation.com



*ASCE Illinois
Section Board
Members Tour
Soldier Field*

*Board Members from
left to right: Don
Wittmer, Tim
Dickson, Abdul
Khan, Jack Franke,
Mike O'Connor, and
Lisa Harbert.*



It's time for the Dan Ryan Expressway *(continued from page 1)*

- Improving the roadway cross sections to provide positive lateral drainage and full left and right shoulders to the greatest extent possible
- Disconnecting the roadway's storm sewer drainage system from the CTA's undertrack crossings to eliminate upstream flooding
- Providing Accident Investigation Sites to better manage traffic incidents
- Minimizing the number and area of any permanent right-of-way takes
- Providing a more uniform and higher level of roadway and ramp lighting through the use of high mast lighting towers
- Incorporating more current and complete traffic surveillance and monitoring systems
- Replacing the existing "finger joints" on portions of the Dan Ryan viaduct roadways north of 31st Street Constructing the improvements while maintaining the maximum possible number of open traffic lanes and maintaining ramp access movements to and from the local communities
- Recognition of required approaches to improve clear zone runoff areas for increased safety
- Reconstructing the barrier wall along the length of the CTA tracks to a higher level to avoid/eliminate vehicles vaulting over the lower wall and entering the CTA track area
- Extensive coordination with the Chicago Department of Transportation, other involved

City agencies and interested parties to incorporate various hardscape and landscape aesthetic features into the contract provisions

A major feature of the reconstruction focuses on the Dan Ryan/Chicago Skyway Interchange in the central portion of the project. Here I-90 splits off from I-94 and turns southeastwardly to Indiana, while I-94 continues in a southerly direction to its split south of 95th Street. The proposed work will allow southbound Dan Ryan traffic on both the local and express lanes to exit to the Skyway. Likewise, while accessing the northbound Dan Ryan from the Skyway, a driver will be able to enter either the local or express lanes. The interchange area along the Dan Ryan will be "spread" to provide the lateral width for the additional interchange access ramps, and, as expected, numerous retaining walls will be required.

South of the Skyway Interchange, from 67th Street to 95th Street, a fifth lane will be added in both the northbound and southbound Dan Ryan directions to better match the number of lanes at both the north terminus at the Skyway Interchange and the south terminus at the Bishop Ford/I-57 Interchange.

The project's construction will commence this fall and continue with advance contracts through the end of the 2004 construction season. These contracts will prepare the facility for the major mainline and ramp reconstruction contracts that will occur simultaneously along the entire route in 2005 and 2006. The Project Design Team will be completing a current total of 26 sets of contract documents that will be advertised and awarded in stages. This incremental approach will provide for more reasonably sized dollar-value of contracts, and result in more competitive contractor's bids. It will also allow for a more orderly and efficient approach to the maintenance of traffic, which has always been a major consideration in the planning and design of this Interstate's total reconstruction.

The total construction cost is estimated to be in the range of \$420 - \$480 million. While recognizing the State's current economic conditions, projecting the availability of construction funding and the unknown future levels of Federal participation, IDOT has nonetheless directed that this facility's planning and design will continue unabated, with the goal of completing the total reconstruction of this Interstate by the end of the 2006 construction season, as originally planned.

Therefore, residents in the project area, commercial establishments, businesses and industries, and the region's motorists in general can now all look forward to that time when this major Interstate link is brought up to the standards of the other major expressways in the Chicago metropolitan area.

—By: *Dean A. Kiesling, ASCE Illinois Section Transportation Group (and Project Director at TY Lin)*

DESIGN MANAGER McHenry County Highway Department

The Design Manager will direct and coordinate daily operational activities of the design section of the McHenry County Highway Department which is responsible for the management of the department's highway preliminary engineering and engineering design projects, highway permitting group and planning liaison. The individual is part of the McHenry County Highway Department's management team. The focus of the position is project management for preliminary engineering, design and contract plan preparation of consultant contracts for the department and coordinating work with other team members and adjacent projects. Assignments usually include serving as liaison with outside consultants including review and coordination; preparing proposals and negotiate contracts; provide technical leadership and oversight of project performance; performing project status meetings including presentations; supervise development of plans and profile drawings, specifications, and estimates to ensure that projects are being completed to County and IDOT standards; and monitor schedule and perform invoicing and budgeting activities.

The applicant shall be familiar with Illinois Department of Transportation Specifications and Procedures. The Design Manager continually interacts with members of the public, elected officials, civic organizations, and staff of various government entities.

Requires: a Bachelor's Degree in Civil Engineering; at least 5 years experience in civil and highway engineering and construction of public improvement projects with emphasis in roads and drainage; and an Illinois Professional Engineering Registration or ability to obtain within 6 months of hire. Preference for experience with: Local government(s); roadway design, management of road building projects/multiple projects. Salary range \$47,956 - \$73,013, negotiable depending on qualifications, with starting salary anticipated mid-range (or higher). **To apply:** submit application/resumes with references to Department of Human Resources, 2200 N. Seminary Avenue, Woodstock, IL 60098, Phone 815/334-4220, Fax 815/338-3991. **Position will remain open until filled.**



John P. Kos, District 1 Engineer, Illinois Department of Transportation speaking at the IL-ASCE Transportation Group Luncheon on March 19, 2003

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.

■ Treasurer's Report

▲ The March General Ledger Trial Balance, Income Statement and Aged Receivables were discussed and approved.

The section received ASCE State Public Affairs Grant. Director Harbert and Urban Planning & Development Chair Clayton will have a meeting with Treasurer Burke regarding the distribution of the grant.

■ 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:

▲ Geotechnical Group's March meeting was on "Development of Waterloo Impermeable Sheetpile Wall System and Case Histories". The topic for April dinner meeting is "Unique Applications of Soil Mixing and Jet Grouting Techniques" and the speaker will be Dennis Boehm of Hayward Baker, Houston, Texas. The 2003 Lecture Series is scheduled on May 2nd at UIC Campus and the topic will be "Geotechnical Performance Monitoring". The Lecture Series information is in the April newsletter.

▲ Structural Group's Biennial Lecture Series (three sessions) were held on March 4, 18 and April 1, 2003, at Harold Washington Library. The last session on "Aesthetics" will be on April 15th. The Lifetime Achievement Award is scheduled in May and the recipient is Dr. Zdenek Bazant of Northwestern University. The Structural Group Student Scholarship winner is Eduardo Prieto from University of Illinois at Chicago and the award will be given at President Elect/Student Awards Dinner on April 23rd.

▲ Environmental Engineering & Water Resources Group's meeting was held in March and scheduled for April and May at Christopher B. Burke Engineering, Ltd. The group will host an XP-SWMM hydrologic & hydraulic modeling course scheduled for April 14 through 16, 2003. The EE & WR Group

Student Scholarship winners are Erin Jordan for the undergraduate award and Kristin Searcy for the graduate award; both winners are from Northwestern University. The awards will be given at President Elect/Student Awards Dinner. The group is going to volunteer to participate in the clean up of the Chicago River, "The Chicago River Rescue Day," May 10th.

▲ Urban Planning & Development Group's meeting was held in March and the discussion topics were President-Elect/Student Awards Dinner, student scholarship awards and section golf outing. Two awards will be given at President Elect/Student Awards Dinner. The group officers also had another meeting to discuss the MWRDGC Seminar scheduled in June. The group is scheduled to meet in April at Denny's Restaurant, Oakbrook Terrace.

▲ Transportation Group's March meeting was held at Graef, Anhalt, Schloemer & Associates and a luncheon program was at Chicago Athletic Association and there were 75 attendees. The speaker for the March lun-

cheon program was John Kos, District Engineer, Illinois Department of Transportation, District 1. The potential speakers for the future luncheon programs will be Jack Hartman, Executive Director, Illinois State Toll Highway Authority, and Luann Hamilton, Director of Transportation Planning (CDOT). The speaker for the September luncheon program will be Timothy Martin, Secretary, Illinois Department of Transportation. The group is scheduled to meet in April and two scholarship recipients, an undergraduate and a graduate student, will be selected and the awards will be given at President Elect/Student Awards Dinner.

▲ Younger Member Group's March meeting was on "Lake Shore Drive Project" and the speaker was Bob Hildebranski of Harbour Engineering. The group had 8 volunteers who participated in the WTTW Channel 11 Telethon on March 5th at WTTW Studios. The topic for the April meeting is "Soilcrete Solutions" to be held at HDR and the topic

(continued on page 6)

Steel Bridge Design Using AASHTO LRFD Bridge Design Specification (2002 Interim)

Including a session on Economical Steel Bridge Design

A seminar sponsored by: National Steel Bridge Alliance (NSBA), National Bridge Research Organization (NaBRO)

Date: May 22 and 23, 2003, **Registration Fee:** \$375.00 for Consultants, \$199.00 for State Department of Transportation Engineers

Location: Florentine Room, Congress Plaza Hotel, 520 S Michigan Ave., Chicago, IL

Course Content: Background to Probability and Reliability aspects of AASHTO LRFD code, Load models for strength and fatigue limit states, Distribution factors for various load conditions and limit states, Strength capacity of steel plate girders, Definition of compact, non-compact and slender sections, Positive section with compact interior support, Positive section with non-compact interior support, Compact negative sections, Non-Compact negative sections, Fatigue and fracture limit state, Service limit state, Constructability design provisions, Design for shear and combined shear and moment, Tips for economical way of using high performance steel in steel bridge designs, Steel bridges behaving simple for dead load and continuous for live loads, Design of a three span continuous steel bridge system, Cost effective details for steel bridges

Instructor: Dr. Atorod Azizinamini, P.E. is the Director of the National Bridge Research Organization (NaBRO) and Professor of Civil Engineering at the University of Nebraska-Lincoln (UNL). He has taught courses on design of steel bridges using AASHTO LRFD and on bridge substructure design. Dr. Azizi is active in steel bridge research and frequently makes presentations on design issues related to steel bridges at national and international conferences.

**For registration information please call 402-472-3462
Advanced registrations is required**

News and Secretary Report *(continued from page 5)*

for May is "Chicago River Architectural Tour" to be held at Navy Pier.

■ Committee Reports

▲ Communications Committee Chair Gorski's report was outlining the newsletter and website. The Transportation Group will be contributing for the feature article and Geotechnical Group for the secondary article. The May newsletter deadline is April 11th. Director Harbert and Chair Gorski discussed the ASCE Best Practices which detailed the content and format of the website. Director Harbert will post on the website the past months newsletter as soon as the current one has been mailed. Also, the electronic format of the newsletter is under consideration. The

The Important Role of the Engineer—Both Here and Abroad *(continued from page 2)*

war off the main highways between Kuwait City and Baghdad and temporarily fixing those routes as they go, allowing unimpeded travel for the supply lines. The US Navy has teamed up with dolphins, yes dolphins, to clear the marine mines from the Iraqi Port City of Umm Qasr. The ugly scar that mines leave well after the war is over will not be left here.

The unique engineering successes in Iraq are, and will continue to be, well documented. This recognition is well deserved. On a smaller scale, we here in Illinois have much to be proud of. The Annual Achievement Awards bestowed by the Illinois Section every October at our annual meeting give us a rare opportunity to celebrate our profession and the members who engage in its practice. In order for others to recognize our accomplishments, we must be willing to promote those accomplishments ourselves. Each year at about this time the Illinois Section asks our membership to actively participate in the nomination of the potential candidates in this process.

There are a total of ten Awards given out each year, five for individual engineering achievement, one for journalism, two awards for outstanding engineering achievement for large and small projects and two awards for organizations that make special efforts to enhance the profession. This is an excellent opportunity to showcase our accomplishments. Please take the time and effort to look for possible nominees. Nomination forms can be found at the Illinois Section Website at <http://www.isasce.org/>.

archived newsletters (5+ years worth) in pdf format will be obtained from the publisher and the board has approved the cost of \$1500.

■ Old Business

▲ President-Elect Wittmer talked about the President-Elect/Student Awards Dinner scheduled on Wednesday, April 23rd at Maggiano's Little Italy Restaurant, Chicago. The next National ASCE President, Ms. Patricia Galloway, will be the speaker. Also, area college students will be presented Student of the Year awards and the Section technical groups will be presenting their annual college scholarships to the award winners. President-Elect Wittmer requested board members to invite IL-ASCE members and attend the dinner. The April newsletter and website have more information regarding this event.

▲ President-Elect Wittmer and Communication Chair Gorski spoke about participating in the third annual ASCE Leadership Training in Government Relations sponsored jointly with NSPE on March 11 - 12, 2003. The workshop took place in Washington DC with 75+ representatives from across the country. Kay Whitlock represented the Illinois Section in 2002 and provided them valuable insight into the event. The first day involved reviewing the legislation issues they were to discuss with the representatives (Reauthorization of TEA-21 and the Clean Water Infrastructure Financing Act of 2003, H.R. 20 and S. 170). On March 12th after breakfast on the hill and a presentation by Representative Jim Oberstar (D-MN) they went to visit the following elected officials:

Representative Danny Davis (D-IL)
Representative Judy Biggert (R-IL)
Representative William Lipinski (D-IL)
Representative Jerry Costello (D-IL)
Senator Peter Fitzgerald (R-IL)
Senator Richard Durbin (D-IL)

During these meetings they discussed the impending legislation and stressed the impor-

tance and needs of the infrastructure to the public. In preparation for their visits the following leaders provided assistance:

Gary Clark - IDNR Division Manager
John Kos - IDOT District 1 Engineer
Wally Kos - CCHD Superintendent
Chuck Tokarski - DuPage County DOT Engineer

A conclusion of the meetings was that efforts are needed at a State of Illinois level on these same issues.

▲ President Zimmermann pushed the Ninth Annual Golf Outing scheduled for Thursday, May 29th at Gleneagles County Club, Lemont, Illinois and encouraged everyone to make the event successful by supporting the Outing. He requests all technical groups send invitations and reach the minority firms. A flier was also distributed with the April newsletter.

▲ Director Harbert stated that the ASCE 2004 Zone III Management Conference will be on February 13 & 14, 2004 at Hilton Chicago, 720 South Michigan Avenue.

▲ The Awards committee Chair, Director Olson, said that the revised nomination forms for the IL-ASCE Awards can be found at the Section website, www.isasce.org

■ New Business

Illinois Institute of Technology - ASCE Student Chapter Chair Raheem and representatives talked about AISC Student Steel Bridge Competition to be held on May 3rd at the University of Evansville in Indiana and the first annual IIT-ASCE Student Chapter Dinner on April 26th at Reza's Restaurant, Chicago. They submitted the funding request to the board for an amount of \$3390. They said, "We have several activities planned that promote the Civil Engineering profession". The board discussed the funding request and approved \$1500 to the IIT-Student Chapter.

—By Abdul M. Khan, Secretary

WANTED - WANTED - WANTED - WANTED - WANTED - WANTED

Logs, Sample Sets and Testing Data WANTED for Geologic Mapping

The Illinois State Geological Survey is looking for good boring records, cores, and sample sets for parts of northeastern Illinois especially Lake, McHenry and Kane Counties. Will also perform downhole geophysical logging for holes extending to bedrock in mapping areas. Boring logs in electronic form are welcome from anywhere in Illinois. For maps showing available geologic maps and where detailed mapping is in progress, contact Chris Stohr at the ISGS, cstohr@uiuc.edu or 217/244-2186.

MWRDGC Sewer Permitting Seminar

Co-Sponsored By

Metropolitan Water Reclamation District of Greater Chicago and ASCE
Illinois Section Urban Planning & Development Group

When: Thursday, June 19, 2003
Registration and Continental Breakfast 7:45 AM
Program: 8:30 AM – 4:30 PM

Where: The Carlisle Banquet Facility
435 E. Butterfield Road, Lombard, Illinois

Program Description:

Most developments or redevelopments involve the construction of sanitary services or sewers. In the greater Chicagoland area within the boundaries of the MWRDGC, a permit is required for sewer construction.

What is a MWRD permit? When is a permit needed? What is required and how do you obtain one? This seminar will provide you the answers. It will review the MWRD's Sewer Permit Ordinance and the sewer permit application process including preparation of a permit application, the required plans, the MWRD storm water detention requirements and the steps of designing detention facilities according to MWRD standards.

Because this seminar will address recent and future ordinance changes, it is recommended for engineers about to submit their first permit application as well as the seasoned engineer familiar with the MWRD sewer permit process. It is also recommended for supervisory engineers / project managers.

Space is limited, so please register early. The registration fee for this day long seminar is \$125 per person, which includes a continental breakfast, luncheon, and seminar materials. The registration deadline is June 13, 2003. Please fill out the registration form below and mail with check payable to "ASCE-UP&DG".

For further information, contact Glenn Clayton at 630-673-0140 or icpamd@aol.com.

MWRDGC Sewer Permitting Seminar June 19, 2003

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Phone: _____

E-mail: _____

**Mail check payable to ASCE-UP&DG and completed form to:
Illinois Concrete Pipe Association, 5 S. 710 Steeple Run
Drive, Naperville, Illinois 60540**



We're the dreamers, the designers, the doers. We're engineers and planners, architects and scientists, analysts, marketers and more. We bring many cultures, personalities and talents to the URS global team. We offer employees a competitive package that provides full benefits for the entire family. As an added bonus, you're eligible immediately for health care benefits, participation in the Employee Stock Purchase Plan and enrollment in the Company's flexible spending accounts as soon as you're hired. If you have the qualifications and are interested in earning a competitive salary (commensurate with experience), then mail, fax (847-228-1328) or e-mail your resume to Debra Kram (debra_kram@urscorp.com), URS Corporation, One Continental Towers, 1701 Golf Road, Suite 1000, Rolling Meadows, IL 60008-4243.

URS Corporation supports the Illinois Section of ASCE and is seeking the following professionals for its Chicago or Rolling Meadows, Illinois offices:

1. Project Civil – Bridge Engineer (Civil Design Engineering)
2. Civil-Highway Engineer (Civil Design Engineering)
3. Senior Civil Engineer (Railroad – Transportation)
4. Third Year Co-op/Intern (Transportation)
5. Senior Electrical Engineer (Transportation)
6. Project Resident Engineer (Transportation)
7. Graduate Environmental Scientist (Risk Assessment/Toxicology)
8. Graduate Geologist (Industrial – located in Gary, IN)
9. Senior Geologist (Industrial – located in Gary, IN)
10. Project Environmental Engineer (Remediation)
11. Senior Environmental Engineer (Environmental Management)
12. Graduate Environmental Engineer (Environmental Management)
13. Graduate Civil Engineer (Urban Design/Site Engineering)
14. Principal Water Resources Engineer ((Environmental Management)
15. Project Civil Engineer ((Urban Design/Site Engineering)
16. Senior Architect/Designer (Urban Design/Site Engineering)
17. First Year Co-op/Intern (Urban Design/Site Engineering)
18. Inspector/Field Tech (Industrial – located in Gary, IN)
19. Administrative Assistant Trainee (Geotechnical Eng – in Gary, IN)

Please visit www.urscorp.com for more information regarding the above positions and others. Positions are available across the country for engineers, planners, architects, and scientists at all levels, as well as a variety of other career opportunities. EOE, M/F/D/V.

Libertyville Geneva

Civil and Water resources consulting firm is seeking qualified Civil and Water Resources Engineers for positions in Libertyville and Geneva.

Civil/water resources engineers are sought to design stormwater, stream protection and flood control facilities and to perform hydrologic and hydraulic analyses.

The position requires a minimum of 3 years of experience including the use of commonly accepted hydrologic and hydraulic modeling software, local, state and federal permitting, and solid understanding of hydrologic and hydraulic principles. Solid writing skills, AutoCAD or MicroStation familiarity, site development experience, construction observation experience, and P.E. are also preferred.

The position offers a low-key work environment, flexible hours and an excellent benefits package including medical and 401k. Salary is negotiable depending upon experience.

Send Resumes to: Hey and Associates, Inc.
Attn: Human Resources
28045 North Ashley Circle
Suite 101
Libertyville, IL 60048

OR Fax to: (847) 918-0892

OR E-mail to: Libertyville@heyassoc.com

Section Activities

Geotechnical Group

2003 Lecture Series

Topic: Geotechnical Performance Monitoring

Date: Friday, May 2, 2003

Time: 8:00 am to 4:00 pm

Location: UIC Campus, South Halsted, Chicago

No Monthly meeting in May 2003.

For information regarding the Geotechnical Group please contact Group Chair Dhooli Raj, Case Foundation, 1325 W Lake Street, Roselle, IL 60172, (630) 529-2911, draj@casefoundation.com

Environmental Engineering & Water Resources Group

Monthly Group Meeting

Date: Tuesday, May 13, 2003

Time: 5:30 p.m.

Place: Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road
Rosemont, Illinois

Volunteer Work

The Chicago River Rescue Day is May 10, 2003. EE&WR is going to volunteer as a group to participate in the clean up of the Chicago River.

For information regarding the EE&WR Group please contact Group Chair Andrew Deitchman, P.E., Engineering Enterprises, Inc., 52 Wheeler Road, Sugar Grove, IL 60554, 630-466-9350, ADeitchman@eeiweb.com

Minority Affairs Group

The Minority Affairs Committee is open to all members interested in supporting minorities in the civil engineering profession. We have awarded scholarships to minority high school students for a 3-week summer engineering camp at the University of Notre Dame. Activities slated for the future include holding an MBE/WBE workshop session and distributing an engineering camp alumni survey. We look forward to new members and new ideas.

Next Meeting: Monday May 12, 2003

Place: ARCADIS
35 East Wacker Drive
Suite 1000
Chicago, IL 60601

Contact: Tim Scully Granzeier/
ARCADIS
312-263-6703

Structural Group

2003 Lifetime Achievement Award— Dr. Zdenek Bazant of Northwestern University

The ASCE Illinois Section Structural Group is proud to announce that Dr. Zdenek Bazant is the recipient of its 2003 Lifetime Achievement Award. This award is presented to an individual who has achieved Fellow membership status in ASCE and who has been committed throughout his or her career to the advancement of the structural engineering profession.

Please join his family, friends, and colleagues in honoring Dr. Bazant with this prestigious Lifetime Achievement Award.

Dates: Wednesday, May 14, 2003

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

Place: Como Restaurant
695 North Milwaukee Avenue
Chicago, Illinois

Cost: \$35.00 / \$20.00 (Student)
RSVP: Barb Pries at (312) 263-1606
by Friday, May 9, 2003

For information regarding the Structural Group please contact Group Chair Michael O'Connor, P.E., Alfred Benesch & Company, 205 N. Michigan Ave., Suite 2400, Chicago, IL 60601, (312) 565-0450, moconnor@benesch.com

Transportation Group

The IL-ASCE Transportation Group would like to invite anyone interested to our monthly luncheons held the third Wednesday of each month. You are also invited to join the Transportation Group Executive Committee, this group is the steering committee of the IL-ASCE Transportation Group and consists of the following officer/committee positions: Chair, Vice-Chair, Secretary, Treasurer, Program Chair, Younger Member/Student Scholarships, and Fund Raising/Finance. We discuss current transportation issues and promote transportation engineering by sponsoring luncheons/dinners, technical short courses, \$1500 undergraduate/graduate scholarships, and engage ASCE Student Chapters by participating in Engineering Week/Future City Competition. We typically meet the second Wednesday of each month at 5:30pm.

Monthly Group Executive Committee Meeting

Date: Wednesday, May 14, 2003

Time: 5:30 pm

Location: URS Corporation

122 S. Michigan Ave, Suite 1920
Chicago, IL

For information regarding the Transportation Group please contact Group Chair Peter Johnston, P.E., Graef Anhalt Schloemer & Assoc, 8501 W Higgins Rd., Suite 280, Chicago, IL 60631, (773) 399-0112, Peter.Johnston@GASAL.com

Urban Planning & Development Group

Monthly Group Meeting

The Urban Planning and Development Group meets monthly in the morning of the 3rd Thursday of the month. The Group meets at the Oakbrook Denny's Restaurant at the northwest corner of Meyers Road and 22nd Street. The Group next meets at 7:30 am on May 15, 2003. The Group is preparing a June 19, 2003 seminar on MWRD Permitting. It is also preparing Fall '03 and Spring '04 seminars. The Urban Planning and Development Group are examining other ways to provide tools and information to the membership.

For questions about the Urban Planning and Development Group activities, contact its Chairman, Glenn Clayton, Illinois Concrete Pipe Assoc., 5 South 710 Steeple Run Dr, Naperville, IL 60540, (630) 357-9327, icpamd@aol.com or the Group Secretary, Stan Walczynski, at 630/ 513-7918 or swalczynski@lightfirst.com.

Younger Member Group

Monthly Group Meeting

Join us for an architectural cruise! On Shoreline's Architecture Cruise, you'll learn how Chicago architects pioneered many revolutionary building techniques, including the balloon frame and the modern skyscraper. You'll see over 40 buildings on our tour as we travel for 60 minutes along the river. This is a great chance to socialize with friends, family, and co-workers. Those that are interested can join up for lunch after the tour. Detailed parking information, etc. will be provided for those that decide to go on the tour.

Date: May 17, 2003 (Rain or Shine)

Time: 11:00 AM - 12:30 PM

Location: Navy Pier, Chicago, IL

Cost: \$16 per person (Need payment by May 7th to confirm your spot) (Make checks payable to: ASCE YMG)

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T&DI Creates Land Use Committee, Calls for Corresponding Members

ASCE's Transportation & Development Institute (T&DI) has established a Land Use Committee and is seeking volunteers to serve as corresponding members of the group. The chairman of the committee is Frank L. Kudrna, the chief executive officer of Kudrna & Associates, Ltd., in Chicago.

The committee's goals and functions are still being developed, and the new members will aid in that development, Kudrna says. Among its general responsibilities, he says, will be "developing program-related, publication-related, and, in some cases, policy-related activities" in the areas of land use.

"We expect to be a strong, active committee," Kudrna says. "We'd like to have a large group and hopefully get a cadre of good volunteers."

The T&DI has provided the committee with a statement of purpose that comprises seven charges. They are:

- Promote the civil engineer's leading role in land use and transportation planning;
- Enhance the civil engineer's analytical and design capabilities by fostering education and research in land use matters;
- Promote coordinated planning and programming in carrying out public works and private development projects;
- Emphasize environmental, cultural, social, economic, aesthetic, and visual design factors in planning, design, and development techniques;
- Disseminate information pertaining to state-of-the-art technology that can be applied to land use;
- Promote advances by civil engineering in the field of housing;
- Work with other technical divisions of the Society with demonstrated concerns in the areas of land use planning and development.

The new group, one of five committees within the institute's Planning & Development Council, will be guided by a control group consisting of Kudrna and two other members. They are Yupo Chan, a professor in the systems engineering department at the University of Arkansas at Little Rock, and Jeffrey May, the highway and transit planning coordinator for the Denver Regional Council of Governments.

"We tried to have a control group representing three areas of practice: business, education, and government," Kudrna says. He is hoping for the same type of diversity among the corresponding members, he adds, "and we'd also like some regional diversity."

The T&DI is ASCE's newest institute. Established on October 1, 2002, it is charged with expanding the knowledge base of transportation and land development to address the challenges of accommodating the daily transportation and urban planning needs of America's growing population.

Its goal is to promote sound engineering and planning practices that reflect the ideals of sustainability, environmental sensitivity, livability, and security.

When the T&DI was created, Kudrna says, several existing ASCE committees with functions related to land use matters were merged into a single specialized committee, which he now heads. "The institute board has created the structure," he says. "We hope to work jointly with the institute board and the Planning and Development Council to shape the committee over the next year. Clearly, we're the urban planning faction of ASCE, but clearly we're also in the transportation business in this new institute, so we're in effect bringing those two factions together."

Kudrna, whose firm provides consulting engineering services to industrial, commercial, and institutional clients, has held positions on numerous commissions, legislative task forces, and government panels. He is the current chairman of the Illinois Delegation of the Great Lakes Commission.

He holds a bachelor's degree in engineering from Chicago Technical College and master's and doctoral degrees in city and regional planning from the Illinois Institute of Technology. He founded his firm in 1986 after working for the Illinois Department of Transportation, the Metropolitan Water Reclamation District of Greater Chicago, and Epstein Civil Engineering Company, in Chicago. He is a Fellow of ASCE.

Those interested in participating in the Land Use Committee should send expressions of their interest, including a biography, to Frank Kudrna, Kudrna & Associates, Ltd., 203 North Cass Avenue, Westmont, IL 60559.

Alternatively, the material may be e-mailed to fkudrna@kudrna.com.

Save the Date!

**Understanding Dam Modifications in Northeast Illinois
June 3, 2003**

Elgin Community College, Elgin, Illinois

Questions about your city's dam? Looking for unbiased information about potential dam modification options? Don't miss this one-day seminar, offered by ASCE and the Kane County Department of Environmental Management. Elected Officials, Municipal & Parks Staff, City Planners, and Public Works Directors will all benefit from this seminar.

Look for the full agenda and registration flyer soon.
Questions? Contact Thomas Burke at 847-823-0500
or see <http://www.co.kane.il.us/kcstorm/index.htm>.

Note: June 4, 2003 will be a one-day workshop entitled "River Restoration: Practices and Concepts - Overcoming Obstacles to Dam Retirement" sponsored by IL-IN Sea Grant College Program and Chicago Wilderness member organizations. For more information, contact Thomas Burke at 847-823-0500.

ASCE Illinois Section News

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Calendar of Events

2003

May 2	Geotechnical Lecture Series
May 5	Illinois Section Board Meeting
May 10	EEWR Volunteer Chicago River Rescue
May 12	Minority Affairs Committee (MAC) Meeting
May 13	Environmental Engineering and Water Resources Group Meeting
May 14	Transportation Group Executive Committee Meeting
May 14	Structural Group Lifetime Achievement Award Presentations
May 15	Urban Planning and Development Group Meeting
May 17	Younger Member Group Architectural Cruise
May 23	Steel Bridge Seminar Using AASHTO LRFD Bridge Design
May 29	ILLINOIS SECTION GOLF OUTING AT GLENEAGLES CC
June 2	Illinois Section Board
June 3	Understanding Dam Modifications in NE Illinois
June 4	River Restoration Workshop

June 10	Environmental Engineering and Water Resources Group Meeting
June 11	Transportation Group Executive Committee Meeting
June 15	Younger Member Group Meeting
June 18	Transportation Group Luncheon Program
June 19	MWRDGC Sewer Permitting Seminar
June 21	Younger Member Group Golf Outing

PLEASE VISIT ISASCE.ORG FOR MORE INFORMATION REGARDING ILLINOIS SECTION ACTIVITIES AND EVENTS

Visit www.isasce.org for job postings.

Section Activities *(continued from page 8)*

For questions and reservations, please contact Heidi Schneider at (773) 380-7946 or Heidi.Schneider@hdrinc.com

For information regarding the YMG Group please contact Group Chair Jack Franke, P.E., Hayward Baker, 1477 Barclay Blvd, Buffalo Grove, IL 60089, (847) 484-8112, jefranke@haywardbaker.com If you would like to receive monthly e-mails from the Younger Member Group, please e-mail Brian Willham at bwillham@hdrinc.com