

ASCE

American Society
of Civil Engineers



News

ASCE Illinois Section

Vol. 44, No. 1
January 2003

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PE Authority Goes Beyond Nuts and Bolts

The technical training of engineers is readily acknowledged. Founded in the core principles of science and math, and honed to manage the physical environment to serve the community, the education of civil engineering is largely a technical

endeavor. It is also recognized that the academic education seldom provides directly applicable solutions to the problems encountered in a professional setting, and frequently may not provide all the scientific theory or back-

ground to address the technical issues engineers routinely face. Therefore, a significant element of an engineering education resides in the process and approach to problem solving. The hallmark of an engineer in any discipline is a detached, objective analysis of causes, relationships, sensitivities, influences, constraints, and criteria, and a methodical sequence of actions to arrive at an endpoint. Application of this mindset to physical problems has proven to be a very effective way to build and manage the physical element of our society.

The Professional Engineering Practice Act of Illinois (PE Act) recognizes the duty and the role of civil engineers in maintaining not only the safety and public health of the community, but also the responsible use of resources in design and construction of infrastructure systems. The PE Act requires a PE certification, signifying that technical submissions (defined as design, drawings, and specifications) prepared to detail materials, workmanship, and equipment for a construction project, were prepared by or

under direct supervision and control of the PE. That is, the PE Act fully recognizes the technical expertise of the engineer and requires that a certified professional prepare the construction submissions where public safety is concerned. This is consistent with the

PE exam (NCEES Principles and Practice Exam), which evaluates the technical competence of an engineer. The philosophy appears to be that construction of the physical structures of our society are sufficiently important to require

It is apparent that PEs rank high with the rulemakers and that engineers are recognized both for their technical expertise and also for their critical analysis and methodical approach to problem solving . . . To maintain this deserved level of respect, all design professionals need to apply the highest standard, both technical and analytical, to documents prepared under their supervision.

that certifiably qualified individuals perform the design.

In contrast to the PE Act and to the PE Exam, many government programs, particularly in the environmental arena require a PE certification for documents that frequently do not involve engineering activities in the typical sense. The PE signature requirements in the environmental field have broadened the scope and role of the PE beyond that of the design engineer. Investigation reports, risk assessments, remediation work plans, closure plans, and Spill Control and Countermeasure Plans all require PE certifications under federal or state regulations. Moreover, the standard of responsible charge differs slightly in the various programs; for example, Illinois EPA's Leaking Underground Storage Tank (LUST) program requires only that a PE has prepared or reviewed the technical report. This situation presents a conflict, because in certain areas, such as risk assessment or geological

(continued on page 8)

President's Notes

John Zimmermann

The Illinois Section Board approved this year's budget at the December meeting and I couldn't be happier. Yes, the Section is running a budget surplus, but that's not the only source of my pleasure. Here's why, the Section's executive board is made up of the treasurer, secretary, president-elect, president and immediate past-president. Members enter the executive board by being voted into the two-year positions of Treasurer or Secretary. History shows us that once a treasurer or secretary is named they're a cinch to be President of the Section. If you are a cinch to be President,



There is a programmed savings plan (in the budget), treated as an expense, which will actually send \$5,000 into the Section's savings account. The Budget is stable and the Section spends less than it takes in.

you're on the hook to write articles for 10 newsletters. So, like the many presidents before me; when I see the approved budget I see more than income and expenses. I see Newsletter number 3 of 10.

A quick scan of the budget will show a modest surplus of under a thousand dollars. However, there is a programmed savings plan, treated as an expense, in place which will actually send another \$5000.00 into the Section's savings account. I'll get to that in a minute. By and large, the budget is stable and the Section spends less than it takes in. I

know I speak for the Board when I give you the Section members a word of thanks for graciously accepting the dues increase that has been phased in over the last year. If you didn't notice the increase, please disregard this paragraph. We were running out of fingers to plug the dam with and were unable to provide the active funding source for the student community that we have in the past. We are getting back on track in that regard.

As mentioned above, you'll see that there is a \$5,000.00 expense for the 150th Anniversary
(continued on page 4)

ASCE Illinois Section News

ILLINOIS SECTION NEWSLETTER

Mailed to all ASCE-IS dues-paying members
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Illinois Section - Zone III - District 8

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Newsletter is January 10, 2003**

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National Engineers Week Student Competitions

National Engineers Week is fast approaching and many student contests and competitions are in full swing. These include the Future City Competition, MATHCOUNTS and the Bridge Building Contest. These various competitions are open for students ranging from 6th grade through high school and are intended to create an interest in math, science and engineering. In order for them to function, volunteers are needed to perform a variety of different roles. This takes people just like you to lend a hand to help develop the engineers of the future.

The National Engineers Week, Future City Competition is in its 11th year and is being held in 31 cities nationwide. This competition fosters interest in engineering, math and science through hands-on, real world application. Students use Sim City 3000™ software to design their city, build a scale model of a portion of their futuristic city, write a 500-word essay on a specific engineering topic, work as a team of 3 students, a teacher and an engineer mentor and apply their knowledge to real world situations.

The school's begin in September and compete at the regional competition on January 25, 2003 and the winner of the regional competes in Washington D.C. at the national competition on February 17-19, 2003.

Judges are needed to help with the regional competition. They are asked to attend a training session and a pre competition judging of posters and essays on the morning of Saturday, January 18, 2003. The judges are also asked to judge at the regional competition at U.I.C. on Saturday, January 25, 2003. This day involves judging the student's models and presentations. Please email Aruch Poonsapaya at aruchp@sbcglobal.net or Don Wittmer at dwittmer@hntb.com if you can help out with either or both days.

For the past twenty-seven years, thousands of high school students have competed in the Bridge Building Contest. The students design, build and test their bridge to destruction. The contest rules are changed from year to year. This is mainly done to prevent a winning design from being used over and over again. Each year the students design new bridges to be the most efficient. Efficiency is defined as the weight a bridge supports without failing divided by its own weight. These bridges which weigh no more than 25 grams and span 300 millimeters can hold up to 100 kilograms. This gives them efficiency of up to 4,000. The bridges are judged on their efficiency. The complete rules for both the regional and international contests are available on the contest web page at www.iit.edu/~hsbridge/.

The twenty-eighth annual Chicago Regional bridge Building Contest will be held February 11, 2003 at the Illinois Institute of Technology in Chicago. The International Bridge Building Contest will be held April 26, 2003 in Chicago, IL. Engineers, particularly structural engineers, may be needed to help judge the Chicago regional contest. The judge's witness the students' testing of their bridges, talk with them about how their bridges failed and what can be done to improve them. Those interested can contact George Krupa by email at gekrupa@aol.com.

The MATHCOUNTS program is a nationwide combined effort of the education, business, government and technological communities to promote math excellence among junior high school students. The Chicago Chapter of ISPE implements the program for schools within our boundaries, which number over 700. The winners from the Chicago competition will go to the state competition at Oakton Community College in Des Plaines on Saturday, March 8, 2003. Winners from state go to the National Competition in Washington D.C.

Volunteers are needed to help with the judging at U.I.C. Circle Campus on Saturday, February 8, 2003. Call Laura McGovern at (630) 990-0302 x 225 if you can help out.

Please try to find the time to volunteer with one or all of these valuable competitions. It is only with your help that the activities can be successful.



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President's Notes *(continued from page 2)*

Fund. I consider this the 150th Anniversary/2004 Zone Management Conference/2006 National Convention savings account. Over the next four years our Section will be sponsoring the aforementioned non-recurring events and activities. These events require advance planning with our budget.

In honor of ASCE's 150th Anniversary, the Illinois Section is publishing a book that is a collaboration of the 'Who's Who' of Chicago area civil engineers and civil engineering achievements. I'm not aware of another Section or Branch that has taken on such an ambitious project. The Section needs to sell about half of the first edition printing of 2000 copies in order to break even. We've budgeted the money as a failsafe in the event that we don't sell that many copies. We are asking both the public and private sector to purchase as many copies as they can muster. They certainly would make a fine gift to a client and would look great on coffee tables everywhere! We also hope that most individual members consider buying two copies so that they can donate a copy to their local library. Committee Chair John Vincent, Don Wittmer, Dave Kendall, Melcy Curth Pond, Cleighton Smith and publisher Ken Keifer deserve special accolades for their tireless and often-thankless efforts they have put forward to get this book published.

In early 2004, the Illinois Section will play host to the annual Zone III Management conference. Every year ASCE headquarters conducts these conferences to educate incoming officers of the Zone's Sections and Branches on the workings of ASCE. All who have attended this conference speak highly of its benefits. Typically, the Illinois Section sends the three incoming Directors and two members of the Younger Member Group. In 2004, we won't incur significant expenses to have our people attend, but we do have to budget for expenses as the host Section. Rob Covey and the Planning Committee are investigating what those expense responsibilities with headquarters.

In 2006, Chicago will be the host city for the Annual ASCE Convention. If you've ever been to the Annual meeting you know it's a sprawling event with seminars, meals and banquets galore. All these events require sponsorship from local companies and organizations. The host Section typically sponsors a specific function as well as the entire convention. The planning committee is also investigating the cost of this event as well but we anticipate costs of up to \$25,000.00.

Between the good work of our Section Treasurer, Thomas Burke; some solid book sales and the continued generosity of our members; we will have a solid fiscal-future ahead of us.

Lastly, the snippets below are provided for your review and consideration:

▲ You should attend the Younger Member Group's upcoming seminar on continuing education. Continuing Education is a reality now and this seminar will give you insight into the minimum standards required for compliance.

▲ Congratulations to Alvord, Burdick and Howson, LLC and the Ciorba Group who celebrated Centennial and 75-year anniversaries respectively in 2002. Many of us are concerned about how impending war and a strained economy will affect our businesses. These two companies have thrived through World Wars, the Great Depression and multiple recessions. Clearly, they are doing the right things every day.

▲ Finally, with all of her successes on Wacker Drive, I keep seeing Denise Casalino's name in the newspaper. Thanks for trying to make us engineers look 'cool', Denise. I'm looking into a Yoga program myself.

Illinois Section - ASCE

2003 BUDGET

From October 1 - September 30

	2002 Actual	2003 Budget
REVENUES		
Section Dues	\$ 49,062.00	\$ 48,000.00
Society Allotment	\$ 11,170.25	\$ 10,000.00
Public Affairs Grant	\$ 2,640.00	\$ 3,800.00
Interest Income - Checking	\$ -	\$ -
Interest Income - Savings	\$ 1,283.22	\$ 1,200.00
Contributions - Min. Prog.	\$ 2,124.00	\$ -
Contributions - Misc.	\$ 6,608.17	\$ 1,000.00
Ad Income - M. Dir.	\$ -	\$ -
Ad Income - Web Site	\$ -	\$ -
Ad Income - Newsletter	\$ 6,593.00	\$ 6,000.00
Annual Meeting	\$ 18,820.00	\$ 25,000.00
Dinner Meeting	\$ 4,165.00	\$ 7,000.00
Luncheon Meeting	\$ 4,880.00	\$ -
Educational Conference	\$ -	\$ -
Golf Outing	\$ 1,210.00	\$ 6,000.00
Miscellaneous Income	\$ 169.99	\$ -
Annual Conference 2006	\$ -	\$ -
Total Revenues	\$ 108,725.63	\$ 108,000.00
EXPENSES		
Public Affairs Grant	\$ -	\$ -
Annual Meeting	\$ 18,716.00	\$ 22,000.00
Evening Meetings	\$ 4,248.66	\$ 7,000.00
Luncheons	\$ 5,964.53	\$ -
ASCE Conferences	\$ 1,875.99	\$ 2,000.00
Educational Conferences	\$ 392.88	\$ 500.00
Bank Charges	\$ 0.05	\$ -
Awards - Misc.	\$ 348.17	\$ 350.00
Groups - Misc.	\$ -	\$ -
General - Misc.	\$ 26.00	\$ -
Engineer's Week	\$ 1,000.00	\$ 1,000.00
Future City's Competition	\$ 1,000.00	\$ 1,000.00
Minority Program	\$ 4,661.00	\$ 2,000.00
Stationary/Off. Supplies	\$ 1,454.96	\$ 3,000.00
Printing and Reproduction	\$ 190.51	\$ 200.00
Maintenance	\$ -	\$ 25.00
Postage	\$ -	\$ 50.00
Telephone	\$ 1,120.20	\$ 1,100.00
Web Site Maintenance	\$ 371.27	\$ 360.00
Newsletter	\$ 31,723.29	\$ 32,000.00
Membership Directory	\$ -	\$ -
Student Activities	\$ 3,000.00	\$ 3,000.00
Travel Expenses	\$ -	\$ 1,000.00
ASCE Council (IEC & IECA)	\$ 305.00	\$ 325.00
ASCE Foundation	\$ 2,500.00	\$ 2,500.00
Secretarial Services	\$ 12,480.00	\$ 14,140.00
Rent	\$ 4,800.00	\$ 4,800.00
Golf Outing	\$ 4,600.00	\$ 4,000.00
150th Anniversary	\$ 2,721.89	\$ 5,000.00
Total Expenses	\$ 103,500.40	\$ 107,350.00
NET INCOME	\$ 5,225.23	\$ 650.00

Section Activities

Geotechnical Group

For information regarding the Geotechnical Group please contact Dhooli Raj, Chair at DRaj@Casefoundation.com or 630-924-3146.

Structural Group

PRESENTS:

An Innovative Approach for the Repair of Terra Cotta Façades

by Mr. Kolbjorn Saether, S.E., P.E., Kolbjorn Saether & Associates

Mr. Saether has developed a new approach to the repair of deteriorated terra cotta façades that involves the injection of closed-cell polyurethane foam into the cells of the terra cotta pieces. Mr. Saether will present the mechanics of the repair method and discuss a marble façade repair project in which he used a similar technique.

Date: Wednesday, January 22, 2003

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

Place: Como Restaurant
695 North Milwaukee Ave.
Chicago, Illinois

Cost: \$35 / \$20 Students

RSVP: Barb Pries at (312) 263-1606 or Mike O'Connor at moconnor@benesch.com by Friday, January 17, 2003

Environmental Engineering & Water Resources Group

January Monthly Group Meeting

Date: Tuesday, January 14, 2003

Time: 5:30 p.m.

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

For information regarding the EE&WR Group please contact Andrew Deitchman, Chair at adeitchman@eeiweb.com or (630) 446-9350.

Transportation Group

The IL-ASCE Transportation Group is sponsoring the ITS Telecommunications Overview with IDOT District One hosting the course. This course is part of the core Intelligent Transportation Systems (ITS) curriculum

established by the ITS Professional Capacity Building (PCB) program. The target audience is public and private sector transportation professionals (project planners, engineers, managers and senior technicians) involved in ITS transportation planning and ITS deployment, such as MPO's transit agencies, municipalities, State Highway Agencies, FHWA Division and Resource Center Offices, FTA personnel, and systems integrators. For reservations contact Robert Gorski, Programs Chair at robert_gorski@urscorp.com or 312-697-7255.

Location: IDOT Division of Highways/District 1
201 West Center Court
Schaumburg, IL

Date: Friday January 17, 2003

Time: 8:00 to 5:00

Also, you are invited to join the Transportation Group Executive Committee. Our meetings are held on the second Wednesday of every month beginning at 5:30, the January 8, 2003 meeting will be at Alfred Benesch & Co, 205 N. Michigan Ave, Chicago. For information regarding the Transportation Group please contact Pete Johnston, Chair at 773-399-0112 or Peter.Johnston@GASAI.com

Urban Planning & Development Group

Group meetings are generally held every third Thursday of the month. For information regarding the UP&D Group please contact Glenn Clayton, Chair at gclayton@il-concretepipe.org or 630-357-9327.

Younger Member Group

January Dinner Meeting

Topic: Proposed Continuing Education requirements for Illinois Professional Engineers

Speaker: Michael Goodkind, Alfred Benesch

Place: HNTB
111 N. Canal
1st floor conference room
Chicago, Illinois

Date: January 28, 2003

Time: 5:30 pm

Cost: \$12.00/\$6.00 Students

Please contact Jack Franke, Chair at jefranke@haywardbaker.com or 847-484-8112 for reservations or more information. If you would like to receive monthly e-mails from the Younger Member Group, please e-mail Brian Willham at bwillham@hdrinc.com

Minority Group

The Minority Affairs Committee is open to all members interested in supporting minorities in the civil engineering profession. Annual activities include awarding scholarships to minority high school students for a 3-week summer engineering camp at the University of Notre Dame and supporting the golf outing to raise funds. Activities slated for the future include holding an MBE/DBE/WBE workshop session and distributing an engineering camp alumni survey. We look forward to new members and new ideas. Meetings are generally scheduled for the first Wednesday of the month.

Next Meetings: January 8, February 5, 2003, time and place TBA. Contact: Tim Scully Granzeier/ARCADIS 312-263-6703.

ANNOUNCEMENT

At the Illinois Section Meeting on December 2, 2002, President John Zimmermann presented a certificate from ASCE National that reads "Certificate of Recognition to Alfred Benesch & Co. for Encouragement and Exemplary Support of Younger Member Involvement in ASCE Activities" to Lisa Harbert, IL-ASCE Director to 2004 and Alfred Benesch & Co Employee. On behalf of the American Society of Civil Engineers, the Committee on Younger Members would like to acknowledge Alfred Benesch & Co. as a recipient of the 2002 Employer Recognition Award from the Committee on Younger Members.



Chuck Tokarski, County Engineer, Division of Transportation Du Page County and IL-ASCE member speaking at the Transportation Group Luncheon at the Chicago Athletic Association on November 21, 2002.

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Illinois Section News & Secretary Report

D E C E M B E R 2 0 0 2

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

■ Treasurer's Report

▲ The November General Ledger Trial Balance, Income Statement and Aged Receivables was discussed and approved. President Zimmermann and the board noted that some of the aged receivable is over 90 days. The proposed budget for the fiscal year 2002-2003 was presented and approved. The Section Dues line item increased to \$48,000 due to the increase in Section membership fee from \$20 to \$30. The actual income and expense from last year was used to set this year's budget. We have shown a net income of \$650 for this year. The 150th Anniversary expense of \$5000 is included in the budget.

■ 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's November meeting was on "the design and use of open cell sheeting bulkheads". The December and January meetings will be on the MWRDGC Reservoir component of the TARP project and the design and installation of tiebacks at the World Trade Center site respectively.

▲ The Structural Group's November meeting was on "Structural Strengthening of the Millennium Parking Garage". A Holiday Party is scheduled for December and January meeting will be on Terracotta Repair. Planning meetings are being held for the 2003 Lecture Series.

▲ The Environmental Engineering and Water Resources Group had a Group meeting on November 12 at Christopher B. Burke's office in Rosemont. A holiday Party is scheduled for December. The group will host an XP-SWMM hydrologic and hydraulic modeling course in the Spring 2003.

▲ The Urban Planning & Development Group held their Group meeting on November 21 at Denny's in Oak Brook Terrace. Discussion topics at the November meeting were MWRDGC Open Forum, participation in the Future City Competition and Group Scholarship.

▲ The Transportation Group's November meeting was on "Current and future transportation projects in DuPage County". A Holiday Party is scheduled for December 17 and on December 18 is a luncheon program and the Speaker is Representative Mark S. Kirk, U.S. House of Representatives, member of the U.S. House Transportation and Infrastructure Committee. There will be a Technical Seminar in January.

▲ The Younger Member Group's November meeting was on "the design and redesign of the Music and Dance Theater of Chicago. Annual Holiday Party is scheduled for December 17 with Transportation Group.

■ Committee Reports

▲ Communications Committee Chair Gorski reported that the deadline for the January newsletter is December 10. EE & WR Group will present the feature article and the N.E.W. Volunteering will be the secondary article. For a more useful and informative IL-ASCE Website a meeting with Pfang Multimedia is arranged and will recommend the board to prioritize.

■ Old Business

▲ President-Elect Wittmer reported that all the articles for the Book are almost completed. The Book will be published by January, hopefully. The 150th Anniversary committee has also discussed having an awards / recognition dinner in January, next year to honor the projects and individuals.

▲ President-Elect Wittmer reported that the FY 2001-2002 Annual Report for the Illinois Section is submitted to National ASCE.

▲ Past President Smith has submitted the 2003 State Public Affairs Grant Application (SPAG) to ASCE headquarters. A total of \$8,000 was requested. \$2,500 is "conventional" grant-intended for enhancing our pub-

lic and government relations and \$5,500 is "merit" grant-intended for a variety of purposes (\$1,000 for Engineer's week, \$1,500 for Future City, and \$3,000 for Minority Affairs).

■ New Business

▲ The Board has discussion on Continuing Education Certificates and President Zimmermann recommended all the groups should look into the details for issuing the Certificates for the technical subjects presented in the meetings. Director Harbert reported that the Younger Member Group has arranged a meeting on "the proposed continuing education requirements for professional engineers in Illinois". It will be held on January 28 at HNTB, 111 N. Canal, 1st floor conference room. The speaker will be Michael Goodkind from Benesch. The cost will be \$12/\$6 students.

▲ The Chicagoland Engineer's week is scheduled for February 16-22, 2003. The Section sponsors the event every year and President-Elect Wittmer proposed a donation of \$500. The board has approved \$500 financial support for the educational programs and scholarly competitions.

▲ The 19th Annual DuPage Area Engineer's Week Expo is scheduled for February 22, 2003. The board has approved \$250 financial support.

▲ The ASCE, Committee on Younger Members presented the "certificate of Recognition to Alfred Benesch & Co. for Encouragement and Exemplary Support of Younger Member Involvement in ASCE Activities".

▲ The Chicago High School for Agricultural Science sent a brochure for "Job shadow Day", February 3-7, 2003. Companies are requested to sponsor the "Work Based Learning" for young students.

—By Abdul M. Khan, Secretary

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ASCE Illinois Section News

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PE Authority Goes Beyond Nuts and Bolts

(continued from page 1)

interpretation, the engineer, still practicing in his/her area of competence, may not be the primary author, and may have less expertise than the toxicologist or geologist providing the evaluation. In this case, the certifying engineer serves as a focus of liability more than an assurance that a product is technically sound. While Professional Geologists (PGs) have some certification authority, other professional registrations (i.e. Certified Hazardous Materials Manager [CHMM], Qualified Environmental Professional [QEP]) generally do not have legal authority for document submissions.

Based on this, it is apparent that PEs rank high with the rulemakers and that engineers are recognized both for their technical expertise and also for their critical analysis and methodical approach to problem solving. This status has been achieved through a long tradition of civil engineering, the ethical practice of design professionals, an examination process developed to assure a consistently high level of expertise, and the solid reputation of civil engineers over the years. To maintain this deserved level of respect, all design professionals need to apply the highest standard, both technical and analytical, to documents prepared under their supervision.

—Tim Scully Granzeier, PE

Calendar of Events

2003

Jan. 6	Illinois Section Board Meeting
Jan. 7	SEAOI SEPAC Dinner Meeting
Jan. 8	Transportation Group Executive Committee Meeting
Jan. 14	EE&WR Monthly Group Meeting
Jan. 17	ITS Telecommunications Overview – Sponsored by the Transportation Group
Jan. 22	Structural Group Dinner
Jan. 25	Future City Competition – Regional Finals at UIC
Jan. 29	WSE Luncheon - Lewis Cita from Abbott Lab at the Union League, 312-913-1730
Jan. 30	SEAOI Trade Show 2003, Palmer House, 312-372-4198
Feb. 3	Illinois Section Board Meeting
Feb. 4	SEAOI Dinner Meeting
Feb. 12	Transportation Group Executive Committee Meeting
Feb. 19	Transportation Group Technical Program with Gerald R Hanas, GM, NICTD
Feb. 16-22	NATIONAL ENGINEERS WEEK

ITS Telecommunications Overview

Sponsored By The IL-ASCE Transportation Group

When: Friday, January 17, 2003
8:30 AM – 5:00 PM

Where: IDOT Division of
Highways/District 1
201 West Center Court
Schaumburg, IL

PROGRAM DESCRIPTION:

The IL-ASCE Transportation Group is sponsoring the ITS Telecommunications Overview with IDOT District One hosting the course. This course is part of the core Intelligent Transportation Systems (ITS) curriculum established by the ITS Professional Capacity Building (PCB) program. The target audience is public and private sector transportation professionals (project planners, engineers, managers and senior technicians) involved in ITS transportation planning and ITS deployment, such as transit agencies, municipalities, State Highway Agencies, FHWA Division and Resource Center Offices, FTA personnel, and systems integrators. This recently updated National Highway Institute course will provide a broad introduction to telecommunications technologies, the associated issues and practical lessons-learned in the application for such technologies of ITS. The course will earn participants 0.6 CEU.

INSTRUCTOR: LEE AFFLERBACH, P.E.

Mr. Afflerbach is a telecommunications systems engineer with over 30 years of experience serving local government clients. Mr. Afflerbach's expertise is in the field of broadband coaxial and fiber optic technology. He has been responsible for the design, testing, and planning of numerous cable and fiber optic networks for municipal government, public sector, and non-profit clients including universities. EDUCATION Bachelor of Science, Electrical Engineering, Drexel University, 1966. PROFESSIONAL AFFILIATIONS Licensed Professional Engineer: District of Columbia, States of Maryland and Washington.

Space is limited to 30 persons, so please register early. The registration fee is \$400 per person and the deadline is January 10, 2002. Please fill out the registration form below and mail with check payable to "ASCE". For further information, contact Robert Gorski at 312-697-7255 or robert_gorski@urscorp.com.

Mail check and completed form to: Robert Gorski, URS Corporation 122 S. Michigan Ave., Suite 1920, Chicago, IL 60603-6137

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Phone: _____