

# ASCE

American Society  
of Civil Engineers



## INSIDE:

### President's Notes

3

### The Chicago Shoreline Storm Damage Reduction Project

4

### News & Secretary Report

5

### Section Activities

6

### Developmental Roundtable

7

### Calendar of Events

8

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

Call the editor,  
Don Wittmer,  
at (312) 930-9119  
for details.

## ASCE Illinois Section

# News

Vol. 40, No. 8  
October 1999

## NPDES Phase II Overview

In the United States, it has been estimated that up to 70% of all water quality impairment comes from nonpoint source pollution. Eutrophication, siltation, as well as water and sediment contamination are some of the most common effects of nonpoint source pollution. The difficulty in identifying, monitoring, and preventing nonpoint source pollution makes it one of the most difficult environmental policy problems. For the past several years, the USEPA has met with all interested parties to arrive at new requirements for managing nonpoint source pollution. On October 29, 1999, the final regulations are due out on the Clean Water Act (CWA) National Pollution Discharge Elimination System (NPDES) Phase II.

### COVERAGE

A permit is *automatically required* for all owners and operators of small municipal, separate storm sewer systems (MS4) located within an "urbanized area". The Census Bureau has identified 405 "urbanized areas" in the United States, and the definition of "urbanized area" can be found on their home page at

[www.census.gov](http://www.census.gov). A regulated MS4 within an "urbanized area" must apply for coverage within 39 months from the date of final regulation, however only the portion of a county within an "urbanized area" would be regulated. It is assumed that in the state of Illinois the NPDES Permitting Authority will be the Illinois EPA.

Additionally, MS4s outside of "urbanized areas" with a population of at least 10,000 *and* a population density of at least 1,000 per square mile will be *evaluated* to determine if they will require a permit. This evaluation will be based on potential growth, impairment of local waters, proximity to "urbanized areas", and contribution to an exceedance of water quality standards.

Owners and operators of MS4s outside of an "urbanized area" with a population of less than 10,000 or a density of less than 1,000 persons per square mile may be designated to require a permit if they have existing or potential significant water quality impacts by the NPDES permitting authority.

*(continued on page 2)*

## Congratulations to Illinois Section Members

*The people listed at right will become Life Members of ASCE in the year 2000. They will be honored at the Illinois Section Annual Dinner Meeting on October 14, 1999.*

Joseph J. Anichini  
Rimas J. Banys  
Wesley J. Brazas  
Peter Conroy  
Dr. W. G. Corley  
Sham Dabadghao  
Ramchandra M. Dabadghav  
Barbara G. Fox  
Eugene P. Holland  
Leonard L. Holt

Jain S. Jain  
Algirdas P. Keblinskas  
Roy P. Keslin  
Salahud D. Khan  
Albert M. Kinsey  
William J. Lauck  
Robert E. Lenzini  
P. Rao V. Manam

Robert H. Meyer  
William Mirza  
Michel L. Mikail  
James J. O'Malley  
Joseph R. Pivnicka  
Tegrul M. Sekili  
Timothy T. Tang  
John A. Westcott  
Mike H. Yang

# NPDES Phase II Overview

(continued from page 1)

## IMPLEMENTATION

Unless the MS4 can apply for a waiver, it must submit a general or individual permit to the permitting authority. However, rather than obtaining their own permit, a MS4s requirements may also be fully or partially satisfied in any combination of the following four alternatives:

- A. through inclusion in an adjoining municipalities existing storm water program by way of an NPDES permit modification,
- B. Through an agreement with another governmental or other entity that is already implementing one of the minimum control measures in the same jurisdiction,

- C. If, in the permit, the permitting authority recognizes existing responsibilities among governmental entities for the minimum control measures, or
- D. If, in the permit, the permitting authority incorporates by reference a qualifying local, State or Tribal storm water management program that address one or more of the minimum control measures.

An owner or operator of an MS4 that is unable to satisfy their requirements with the above four alternatives must develop a local Storm Water Management Plan that includes Best Management Practices (BMPs) and measurable goals to reduce the discharge of pollutants from the MS4 to the maximum extent possible (MEP). The storm water plan must include the following six minimum control measures:

1. Public Education and Outreach on Stormwater Impacts.
2. Public Involvement and Participation.
3. Elicit Discharge Detection and Elimination.

4. Construction Site Storm Water Runoff Control.
5. Post Construction Storm Water Management in New Developments and Redevelopment.
6. Pollution Prevention/Good Housekeeping for Municipal Operations.

Whatever the program, the NPDES Permitting Authority will be requiring that the goals to be obtained in the above six minimum control measures are measurable. The EPA expects to provide additional guidance soon on the development of BMPs measurable goals. Other requirements of the Storm Water Management Program are as follows:

1. Evaluation - The program must be evaluated for compliance and application toward achieving measurable goals.
2. Record Keeping - Records must be kept for 3 years.

(continued on page 8)

## ASCE Illinois Section News

### ILLINOIS SECTION NEWSLETTER

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

#### Editor - Don Wittmer

HNTB Corporation  
111 N. Canal Suite 880, Chicago, IL 60606  
(312) 930-9119  
email: dwittmer@hntb.com

#### Assistant Editor - Lisa Harbert

Ciorba Group, Inc.  
5507 N. Cumberland Ave., Chicago, IL 60656  
(773) 775-4009

#### Copy Editor - R. Cliff Galitz

Patrick Engineering Inc.  
4985 Varsity Drive, Lisle, IL 60532  
(630) 434-7060 Ext. 1251

#### News Coordinator - Bob Camillone

EnerTronics Engineering Corp.  
9245 Calumet Ave., Munster, IN 46321  
(219) 836-2120 FAX: (219) 836-1129

Pres. John O'Holleran . . . . .(312) 930-9119  
Sec. Cleighton Smith . . . . .(708) 366-7083  
Treas. Dave Kendall . . . . .(630) 574-2568

Send change of address notices to the Secretary, Illinois Section ASCE, 203 N. Wabash, Room 1000, Chicago, IL 60601; or call (312) 263-1606, Fax: (312) 372-5673, or email at: isasce@popmail.mcs.net

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

#### ASCE National Information

Phone: 1-800-548-ASCE  
Web Site: [www.asce.org](http://www.asce.org)  
Zone III Administrator  
Curtis Nunley x6198

**Submission deadline for the Nov.  
Newsletter is Oct. 11, 1999**

## TRANSPORTATION ENGINEERS

### American Consulting Engineers, a progressive

transportation consulting engineering firm, is seeking qualified Transportation Engineers with 2-10 years experience in roadway design.

Applicants must possess a minimum of a B.S. in Civil Engineering.

Typical projects include various highway study and design projects for IDOT, ISTHA and surrounding Counties. Opportunities are available for various levels of experience from Project Engineer to Project Manager.

E.I.T. and P.E. registration is preferable. Salary will be commensurate with experience.

Please send a cover letter and resume via mail, Fax or e-mail to:

American Consulting Engineers, L.L.C.  
5005 Newport Drive, Suite 207  
Rolling Meadows, IL 60008-3838

Phone: 847-255-8500  
Fax: 847-255-8555  
Email: [aceil@ace-plc.com](mailto:aceil@ace-plc.com)



I was recently asked to review two chapters of an ASCE manual on the design process. The manual, originally published in the 1980's, is undergoing an update and is intended to continue as a resource in defining and understanding the process for the development of contract plans.



As I reviewed the manual I could not help but notice that

the critical issues in the success of the design process remain unchanged. Although technology has had a significant impact on our industry, the need for project planning, scope definition, technical resources, communication, schedule and budget control remains a constant in project design development.

My review did, however, remind me that the most significant changes in the project development process are not the result of technology but rather the changes in the role and relationship between the owner and the designer. The complexity of project funding and monitoring has increased the owner's impact on the process and accelerated new project implementation approaches. The result is a significant change in how the civil engineer approaches projects.

As civil engineers that work in the public sector can attest, the funding process has reshaped the organizational makeup of the project control structure of most public agencies. The influence of the auditor and attorney in the design process has significantly increased over the years. This increase is the result of the desire for more scrutiny and monitoring of the project funding in order to avoid the misappropriation (or perception of misappropriation) of public funds. Although this control is desirable and appropriate, we must recognize the need to keep this process in perspective and not let this oversight run the whole program. As we continue to allow non-technical professionals to control the process of civil engineering design we allow the diversion of attention from the project goals. The result is often a loss of schedule control and suppression of innovative design. When this happens we all lose.

Another significant change is the trend by owners to pursue design/build as a means of cost effective project delivery. Although this approach can expedite the project implementation process, it can also reduce the owner's control over the design and construction of their project. Owners must understand that the design/build process shifts the contractual relationship of the designer from the owner to the builder. Thus, it is important that the owner has the expertise within his/her management team to clearly define the project goals and objectives. Failure to do this can result in reduced project benefits, long term serviceability issues and potential increased costs.

The design and construction of civil engineering projects is a complex process

requiring the management of funding, risk, safety, design and construction. As a result, these projects require the expertise of a large number of technical and non-technical professionals. We should always remember, however, that the ultimate goal of these projects is to improve the service of our community's infrastructure. As such, it is imperative that the civil engineer maintains control of this process and not be relegated to a support role. To do otherwise would seriously jeopardize the long-term effectiveness of our public infrastructure services. This is an unacceptable option.

### Reaching You Through TV

In an effort to serve our current and future students better, the Civil and Architectural Engineering Department at IIT is pleased to announce new television reception sites. In addition to our viewing sites at the IIT Rice Campus-Wheaton; Moffet Campus-Summit-Argo; Oakton Community College-Skokie; William Rainey Harper College-Palatine; new sites have been added at the College of Lake County, Grayslake; Moraine Valley Community College, Palos Hills; Morton College, Cicero; Mundelein High School, Mundelein; Prairie State College Matteson Area Center, Matteson; Schaumburg Township District Library, Schaumburg; and South Suburban College University and College Center, Oak Forrest.

As a result of this new initiative, a certificate program can be completed utilizing our remote classrooms. As part of an ongoing effort, the Civil and Architectural Engineering Department will be adding additional classes to its IITV line-up. Look for these new classes, which will make it even easier to pursue your Certificate or Master of Civil Engineering degree part-time.

Since 1976, IIT has offered distance learning programs and courses via microwave through the William F. Finkl Interactive Instruction Television Network, known as IITV. Today there are over 1600 IITV enrollments each year in upper-division under-graduate and graduate courses.

An easy, part-time on-line application is available at [www.iit.edu.admission/grad/application](http://www.iit.edu.admission/grad/application) or by contacting Katy Burns, Coordinator of Graduate Admissions at 312.567.3542 or via e-mail at [burnsk@iit.edu](mailto:burnsk@iit.edu).

## The Chicago Shoreline Storm Damage Reduction Project

John T. Fornek from the U.S. Army Corps of Engineers, Geotechnical Branch, Chicago District will speak on "The Chicago Shoreline Storm Damage Reduction Project" at the Geotechnical Group meeting on November 9, 1999. See the Geotechnical Group announcement for the meeting location and other details.

Many of the protection structures of Chicago's Lake Michigan shoreline were constructed nearly 70 years ago. Lake Michigan storms, combined with timber rot occurring within the zone of fluctuating water levels, have caused functional failure of the existing timber pile and stone revetments. The majority of structural failures have occurred within the last 30 years, with the rate of failures increasing in recent years. Damage includes collapse of step-stone and stone promenades, erosion of backshore areas by wave overtopping, and occasional closure of Lake Shore Drive due to flooding and ice. Left unprotected, large

areas of the lakefront would erode at an estimated rate of 20 feet per year, jeopardizing public lakefront facilities and property valued at more than \$5 billion.

The Chicago Storm Damage Reduction and Shoreline Erosion Protection Project consists of repairing approximately 10 miles of damaged shoreline protection structures between Montrose Harbor on the north to 57th Street on the south. The project will be constructed in several sections. Each section will consist of a sheetpile retaining wall supporting a reinforced concrete promenade approximately 25 feet wide, and a series of stepstones or concrete stairs rising to the existing backshore ground elevation.

Total project costs are estimated to be \$300,000,000. Construction is currently scheduled for completion in 2005.

### IN MEMORIAM

#### Wayne C. Teng

Wayne C. Teng, founder of the Chicago engineering and architecture firm of Teng & Associates, Inc. and author of the textbook, *Foundation Design*, died August 9 in Chicago of complications after a fall at his Michigan vacation home. He was 78.

He received two degrees from the University of Illinois at Urbana-Champaign: a Master of Science degree in Civil Engineering in 1946 and a Doctorate in Civil Engineering in 1949. He also taught at the Illinois Institute of Technology and at the University of Illinois' Chicago campus.

In 1959, Dr. Teng and his wife Eleanor co-founded Teng & Associates, Inc., the Chicago planning, architecture and engineering firm where he served as Chief Executive Officer until 1995.



McCormick School of Engineering and Applied Science, Northwestern University

## MASTER OF PROJECT MANAGEMENT

Construction • Environmental • Infrastructure

# Open House

Wednesday, October 27, 1999, 5-9 PM Hardin Hall  
Rebecca Crown Center, 633 Clark Street, Evanston Campus

The **Master of Project Management (MPM)** program is designed to prepare technically qualified individuals for responsible management roles in the construction and operation of major engineering projects. It is based on a multidisciplinary approach to combine the essential components of civil engineering design with the functional concepts of business management and behavioral science to develop a versatile and technically oriented individual capable of directing complex engineering projects.

The 12-course program consists of six core courses (finance, accounting, human resources management, project scheduling, total quality management, and engineering law) and six specialization courses within the areas of construction, environmental, or infrastructure management. The program is sufficiently flexible to accommodate both full-time and part-time students (most courses offered in the late afternoon or evening), and the course selections in each specialty area can be chosen to address the needs of each individual student.

To receive additional information regarding this program, visit our WWW site at <http://www.civil.nwu.edu/MPM/>

or phone **Professor Raymond J. Krizek** at (847) 491-4040

or send an E-mail to [mpm@nwu.edu](mailto:mpm@nwu.edu)

or send an inquiry to:

**Director, MPM Program**  
Department of Civil Engineering  
Northwestern University  
Evanston, IL 60208-3109





LAKE COUNTY STORMWATER MANAGEMENT COMMISSION

## **JOB ANNOUNCEMENT**

### **WATERSHED ENGINEER**

Salary \$53,000 +/- DOQ. Bachelors degree in Civil Engineering or related. P.E. desirable. Provides a high level of engineering knowledge and skills to support the regulatory and watershed planning components of a comprehensive countywide stormwater management program. Minimum one year of hydrology, hydraulics, and/or water quality modeling and possession of a Professional Engineer Intern (EIT) certificate. Experience desired in site development design or regulations, GIS, H and H modeling expertise a plus, best management practices and/or other stormwater-related engineering activities. Excellent benefits package and a progressive leading edge work environment. Mail resumes with references to Michael Warner, P.E., Principal Engineer, Lake County Stormwater Management Commission, 333-B Peterson Road, Libertyville, IL 60048, or fax to (847) 918-9826, or email to [lscmc@ix.netcom.com](mailto:lscmc@ix.netcom.com). Position open until November 8, 1999. An equal opportunity employer.

# Illinois Section News & Secretary Report

S E P T E M B E R 1 9 9 9

In an effort to better inform ASCE Illinois Section Members of Board Meeting discussions and Section activities, the Section Secretary will be contributing this monthly article to the newsletter. Any feedback on the Section activities or membership needs is welcome and can be sent to the Section office address noted on the Newsletter's editorial section on page 2.

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 future Group activities are as follows:

## ■ Group Reports

▲ The Structural Group is holding their September Dinner Meeting on September 15 at 6:00 pm at the Como Inn. Their featured speakers, Messrs. Arun Shirole and Mike Beacham of National Steel Bridge Alliance, will speak on "Building Bridges to the Future." No October meeting is planned due to the October Annual Dinner Meeting.

▲ The Environmental Engineering and Water Resources Group had their August 10 monthly group meeting at the offices of Christopher B. Burke Engineering Ltd. They discussed the September newsletter secondary article (on NPDES Phase II), as well as seminars for the fall. The HSPF class is set for October 27-29. Their next monthly group meeting is planned for September 14 at the offices of Christopher B. Burke Engineering Ltd.

▲ The Urban Planning & Development Group had their group meeting on August 19 at Denny's in Oakbrook Terrace. The group continued preparations for the Roundtable Development Seminar scheduled for November 18, 1999. Their next group meeting will be September 16 at Denny's in Oakbrook Terrace.

▲ The Younger Member Group had 25 attendees for their Cubs game on August 23. The group is holding a planning meeting on September 16 at the offices of Alfred Benesch.

▲ The Geotechnical Group had no report.

▲ The speaker for the Transportation Group's September meeting is IDOT Division of Highways Director, Mr. Jim Slifer, on September 22 at the Union League Club. The group is also planning a short course in AASHTO Railroad Highway Grade Crossing Improvements for October 5-6, 1999 at IDOT District One in Schaumburg. Speakers are Mr. Howy Richards of Texas A&M and Dr. John Tidwell of University of Tennessee.

## ■ Additional Section Business

▲ The Awards committee presented their recommendations to the Board. The board approved the recommendations to be presented at the Annual Dinner on October 14.

▲ The Communications Committee reported that they are considering submitting the newsletter for a National newsletter award.

▲ The Minority Affairs committee reported that six students attended the Notre Dame summer program. They appear to have sufficient funds such that no contributions would be required from the technical groups. President O'Holleran noted that they should have a final accounting at the next board meeting.

▲ The Annual Dinner plans are going well. The Section is inviting representatives from the Central Illinois, Wisconsin and Duluth Sections, who will be here for a District 8 meeting earlier in the day.

▲ The Transportation Group's changes in By-Laws were approved.

▲ An invitation was made for Section members to consider attending the Annual Convention in Charlotte, NC.

▲ Input was requested from the technical groups for the Annual Report (due at the end of November).

—By Cleighton Smith, Secretary

## Growth Advancement Opportunity

We are an international, Chicago-based, architecture engineering and construction firm with a 77 year history of completing landmark projects in the United States and around the world. We have immediate need for top engineering professional in a number of disciplines including:

### Senior Civil Engineer

with 5+ years experience in Site Development to include; permitting, site layout/design, stormwater detention, underground utilities and earthwork. Auto CAD experience required. Professional engineers license a plus.

### Structural Bridge Engineer

with 5+ years experience working on department of transportation bridge and structure projects. This position offers exceptional opportunity for professional growth and development.

For confidential consideration please fax resume with salary history to:

**Sharon Krohn**  
c/o A. Epstein & Sons  
600 West Fulton Street  
Chicago, Illinois 60661  
Telephone (312) 454-9100 ext. 9167  
Fax (312) 559-1217

## Section Activities

### Younger Member Group

#### October Meeting

The Younger Member Group will not hold a meeting this month, but encourages all members to attend the Illinois Section Annual Awards Dinner Meeting on Thursday, October 14th. We will resume our meetings in November, so watch this space and/or check the Illinois Section web page for dates and details.

#### About Our Group

We strive to provide the opportunity for younger civil engineers to become involved with the ASCE-Illinois Section for the first time and act as a bridge between student membership and membership in the other technical groups. YMG offers younger members a chance to interface with their peers on a professional level and cultivate contacts within the civil engineering profession. The YMG typically hosts five technical dinner meetings throughout the year (January, March, April, May & November) and one non-technical, professional development meeting in February. In addition to the formal meetings, YMG hosts informal functions such as tours, golf outings, canoe trips, baseball outings and a December holiday party each year. The planning meeting for the following years activities is held in September. The YMG also participates in many charitable activities such as Habitat for Humanity, Future Cities mentors & judges, blood drives, and fund raising for various organizations. One meeting/activity is planned per month plus various field trips and charitable functions. The technical meetings are typically held the third Thursday of every month. Please contact the Younger Member Group chair for any other additional information.

November Meeting: TBA

### Urban Planning & Development Group

Concerned about important issues confronting the civil engineering profession? Visit our next meeting to discuss these items with fellow civil engineers involved in government, private practice, construction, consulting, and other disciplines. Please contact Jeff Gutowsky at (847) 895-3640.

Group meetings are held every third Thursday of the month. The back room at Denny's Restaurant has been reserved for the Group. Our next scheduled meeting is:

**Date:** October 21, 1999  
**Time:** 7:30 a.m.  
**Place:** Denny's Restaurant  
17 West 660 22nd Street  
Oakbrook Terrace, Illinois  
(630) 932-1888

#### Upcoming Events

"Career Day" sponsored by the Urban Planning and Development Group is scheduled for Friday, October 15, 1999 from 1:00 p.m. to 5:00 p.m. at the Illinois Institute of Technology. For more information, please contact Mr. Suheil Nammari at (708) 895-0400.

### Structural Group

The Structural Group would like to announce the officers for 1999-2000:

**Past Chair:** Jim Szczej  
**Chair:** Dan Burke  
**Vice Chair:** Tim Dickson  
**Secretary:** Bill Brantley  
**Treasurer:** Steve Karlowski

There will be no October dinner meeting in lieu of the Illinois Section Annual Dinner meeting.

### Transportation Group

The Transportation Group does not have a meeting scheduled for October, but encourages its members to attend the Illinois Section Annual Awards Dinner Meeting on Thursday, October 14, 1999.

### Geotechnical Group

There will be no meeting during the month of October. All members are encouraged to attend the ASCE Annual Dinner meeting on October 14, 1999. The next Group meeting will be held on November 9, 1999. Mr. John T. Fornek from the U.S. Army Corps of Engineers, Geotechnical Branch, Chicago District will speak on "The Chicago Shoreline Storm Damage Reduction Project".

**Time:** 5:30 pm Social  
6:30 pm Dinner  
7:30 pm Presentation

**Place:** Como Inn  
546 N. Milwaukee, Chicago

**Cost:** \$30 with reservations  
\$35 at the door  
\$20 Education/Government  
Employees with reservations  
\$15 students with reservations

**RSVP:** Barb Pries at (312) 263-1606  
by Thursday, November 4, 1999.

### Environmental Engineering & Water Resources Group

The Executive Committee of EE&WR meets the second Tuesday of every month. We always welcome new faces and ideas. If you would like to be active in planning activities related to environmental or water resources engineering and would like more information contact Thomas Burke. We are in the process of organizing two future dinner seminars and two courses. The two seminars are NPDES Phase II and Digital Floodplain Mapping. The courses are Hydrologic Simulation Program - Fortran (HSPF) and Advanced FEQ. The National ASCE website is advertising several courses of interest to EE&WR. The courses and dates are: Intro to HEC-HMS (11/1), Intro to HEC-RAS (11/2), National Flood Insurance Program (11/3), and NPDES Storm Water Permit Compliance (11/8-9). For further information on these courses please look on the ASCE website. For further information about EE&WR seminars and courses please contact Thomas Burke.

Next Regular Meeting:

**Date:** November 9, 1999  
**Time:** 5:30 p.m.  
**Place:** Christopher B. Burke  
Engineering, Ltd.  
9575 W. Higgins Rd., Suite 600  
Rosemont, Illinois  
**Info:** Thomas Burke (847) 823-0500

# DEVELOPMENT ROUNDTABLE

Sponsored By

## The Urban Planning and Development Group of the American Society of Civil Engineers

Please join us November 18, 1999 to discuss the local development process in the six county Chicagoland area. Representatives from the DuPage County Department of Environmental Concerns, Illinois Department of Transportation, Lake County Stormwater Management Commission, the Village of Vernon Hills, the Village of Schaumburg, CE Design, Ltd. and a host of other developers, engineers, municipal planners and public works officials will participate in the program. The program consists of four 50-minute sessions covering topics in Planning, Engineering and Permitting, Construction and Maintenance. Panelists will answer questions from a pre-developed list and discuss the pro's and con's of that topic. Audience members will be encouraged to ask questions of their own as well as provide answers. Discussion topics will be insightful and engaging for all who participate in the developmental process. Please complete the application form as soon as possible as seating is limited.

**DATE:** November 18, 1999 from 8:00 am to 12:00 p.m.  
with lunch following the program.

**LOCATION:** The Ambassador Banquet Hall, located just north of downtown Elmhurst at the corner of North Avenue (IL Route 64) and York Road.

The registration fee for the seminar is \$55.00 for all attendees, \$75.00 if you are staying for lunch. Continental breakfast will be served. For more information, contact Jeff Gutowsky at W-T Engineering, Inc. at 847/895-3640. Please detach the registration form below and return with check payable to "ASCE-UP&DG".

Enclose a CHECK PAYABLE TO ASCE-UP&DG. One form per person please. Space is limited; early response is encouraged. The registration deadline is November 10, 1999.

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

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

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

City/State/Zip: \_\_\_\_\_

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

Mail check and completed form to:  
Jeff Gutowsky  
c/o W-T Engineering, Inc.  
39 E. Scully Drive  
Schaumburg, IL 60193

*Graef, Anhalt, Schloemer & Associates, Inc. has been providing quality engineering services to our clients since 1961. We recognize the best professional approach to service is to hire technically competent, innovative, creative and highly motivated individuals; this attitude asserts that our staff is key to our success.*

### STRUCTURAL ENGINEER

Chicago, IL. The ideal candidate will possess a Masters degree in Structural Engineering and have 2 to 5 years experience of practical experience in structural design. Experience in design of bridges, is preferred.

### STRUCTURAL ENGINEER

Chicago, IL. The ideal candidate will possess a Masters degree in Structural Engineering. Work experience designing institutional, industrial, and commercial buildings a plus.

### STRUCTURAL-ENGINEER

Madison, WI. The ideal candidate will possess a Masters degree in Structural Engineering and have at least 5 years experience in designing institutional, industrial, and commercial buildings.

### STRUCTURAL TECHNICIAN

Milwaukee, WI. The ideal candidate will possess 1-5 years experience in the preparation of structural plans and details for buildings and other engineering projects utilizing Intergraph Microstation

### TRANSPORTATION PROJECT MANAGER

Milwaukee, WI. The ideal candidate will possess a degree in Civil Engineering and 15 to 20 years of practical experience and familiarity with WISDOT standards and requirements

### PROJECT MANAGER

Chicago, IL or Milwaukee, WI. The ideal candidate will possess a Bachelor's degree in Civil Engineering and have at least 5-7 years experience in site development, grading and drainage. A professional registration is required. Experience with Microstation and GEOPAK software is a plus.

*Graef, Anhalt, Schloemer offers a complete benefit package including 401(k), profit sharing, and an ESOP, tuition reimbursement and performance bonuses, as well as a team atmosphere dedicated to open communication and excellence.*



**GRAEF  
ANHALT  
SCHLOEMER**  
and Associates Inc.

Graef, Anhalt, Schloemer  
& Associates, Inc.

One Honey Creek Corporate Center  
125 South 84th Street, Suite 401  
Milwaukee, Wisconsin 53214  
Fax (414)259-0037  
www.gasai.com  
EOE

## NPDES Phase II Overview

(continued from page 1)

- Reporting - An annual report to the NPDES Permitting Authority for first permit term. After that, reports must be submitted in years 2 and 4 unless more frequent reporting is required.

Functionally, NPDES Phase II should be very similar to Phase I but will apply to significantly more projects and affect smaller firms and municipalities that might not have the resources of larger developers, industries, and municipalities. As stated before, a municipality may rely on a counties requirements in meeting their goals, however each individual operator still remains for compliance unless a legally binding intergovernmental agreement is formulated.

The overall program effectiveness will be reevaluated by the EPA ten years after the effective date. During that time, the EPA has suggested that no additional requirements beyond the minimum control measures be imposed without further agreement of the owner and operator.

## Calendar of Events

### 1999

Oct. 4	Illinois Section Board Meeting
Oct. 5-6	AASHTO Railroad-Highway Grade Crossing Improvement Program
Oct. 11	November Newsletter Deadline
<b>Oct. 14</b>	<b>Illinois Section Annual Dinner Meeting</b>
Oct. 15	UP&D Group Career Day at IIT
Oct. 17-20	ASCE Annual Convention, Charlotte, N.C.
Oct. 21	Urban Planning & Development Group Meeting
Nov. 1	Intro to HEC-HMS, Chicago, IL - ASCE Continuing Education Program
Nov. 2	Intro to HEC-RAS, Chicago, IL - ASCE Continuing Education Program
Nov. 3	National Flood Insurance Program, Chicago, IL - ASCE Continuing Education Program
Nov. 8-9	NPDES Storm Water Permit Compliance, Chicago, IL - ASCE Continuing Education Program
Nov. 8 to Mar. 27	SEAOI's Education Committee is planning to present the 1999-2000 Structural Engineers Refresher Course at a downtown Chicago location. The course provides an in-depth review of structural engineering principles and applications. The course is available by calling the SEAOI office: 312/372-4198.
Nov. 9	EE&WR Executive Committee Meeting
Nov. 9	Geotechnical Group Meeting
Nov. 12	Wharf Rehabilitation, Chicago, IL - ASCE Continuing Education Program
Nov. 18	UP&D Group Seminar

### 2000

Feb. 4-6	Zone III Leadership Conference, Younger Member Council and Student Workshop, Denver Colorado
----------	----------------------------------------------------------------------------------------------

**Remember!**  
ASCE Annual Dinner Meeting  
Thursday, Oct. 14, 1999  
Call Barb Pries for Reservations:  
(312) 263-1606

203 N. Wabash, Room 1000  
Chicago, Illinois 60601

**NEWS**  
ASCE Illinois Section

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