

ASCE

American Society
of Civil Engineers



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ASCE Illinois Section

News

Vol. 41, No. 7
September 2000

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Geotechnical Failures and Lessons Learned: Reflections on Our 2000 Geotechnical Lecture Series

The Geotechnical Lecture Series (formerly called the Soil Mechanics Lecture Series) was established in 1964 to educate the engineering community and keep them informed of recent developments in geotechnical engineering. This year's lectures focused on "Geotechnical Failures and Lessons Learned." It was a well attended five-night program where noted speakers shared their experiences from past geotechnical projects, particularly those involving lessons learned from past performance or failure.

The first session speaker was David Daniel, Professor and Department Head of the Department of Civil and Environmental Engineering at the University of Illinois, who spoke on the value of adequate soils testing, skilled construction observation, and the importance in understanding fundamental soil behavior. It was an excellent talk that reminded many of us that clay liner design is not a simple task and working with geocomposite liner systems requires testing for each and every application. We also heard from Mr. Walter Kovalick, Director, Technology Innovation Office of the U.S. Environmental Protection Agency. Mr. Kovalick's talk gave us information on how to access dozens of new soil and groundwater treatment technologies.

The second session was very well attended when Clyde N. Baker, Jr. of STS Consultants, Ltd. spoke on "High Rise Foundation Design and Construction from Chicago to Kuala Lumpur." The focus of his talk was not specifically about high-rise building failures, but to share his thoughts on foundation predicted behavior versus actual performance. His comment: "the better that we can predict how the ground is going to deform under load, the better job we can do in the interests of our clients in developing cost effective foundation designs." It was made clear that Peck's observational method of monitoring structural performance is needed to provide feedback to the design and construction professionals.

Two individuals from California presented the third lecture session: they spoke on dam safety. Steve

Verigin, Chief of Division of Safety of Dams, State of California spoke on the value and life benefits of the State of California administration on dam safety programs since 1929, due to the 1928 failure of St. Francis Dam. Mr. Verigin spoke on two subsequent dam failures, namely Baldwin Hills and Lower San Fernando Dam, plus several ongoing projects to improve embankment safety of existing structures. Les Harder, Chief, Division of Engineering, California Department of Water Resources gave an interesting talk on the California Aqueduct Project. It was interesting how a 660-mile long earthen structure continues to need geotechnical improvements and rehabilitation. Entropy is very real and the condition of water retaining structures can deteriorate with time. For individuals interested in dam safety and embankment dam engineering these were very interesting and well presented papers.

Our fourth session was given by T. William Lambe, Emeritus Professor of Civil Engineering, Massachusetts Institute of Technology. He spoke on "Failures of Earth Structures." Dr. Lambe has reviewed more than 80 failures of earthen structures. He indicated that pore water pressure increases caused more than 75 percent of the failures. He stated that the level of engineering effort attributes directly to the probability of failure. During a lively question and answer session, Dr. Lambe challenged the profession to raise the current standard of practice, commit more energy to training future geotechnical engineers and focus on sound soil mechanics principles and testing.

The final session was given by J. P. Giroud, of GeoSyntec Consultants. He presented his paper on "Lessons Learned from Failures with Geosynthetics." The first line of his paper says it all: "Geo-technical engineers who do not learn from mistakes made by others will learn from their own mistakes." Dozens of case studies were presented.

In preparing this article, I thought it appropriate to comment on the current strength and health of our
(continued on page 6)

President's Notes

John O'Holleran



The month of September brings the start of the school year. It is also a time when we start our 2000/2001 student outreach programs. These programs are intended to educate and stimulate students of all ages as we introduce them to the role and accomplishments of civil engineers in their communities. If we are to save our "best and brightest" from a career as an attorney, we must reach them while they are young and innocent.

The success of the programs is dependent on your personal commitment to participation in these programs. There are numerous opportunities to speak or work with students in your communities.

Participation in career days, visiting local classrooms, speaking at school assemblies or volunteering in Big Brother/Sister type programs all offer excellent opportunities to make a difference in a young person's life. It is not hard; you just have to decide to get involved.

ASCE offers a number of excellent programs to help you get involved in student outreach during the year. These programs reach out to students at all levels with age appropriate activities and information. Summaries of some of these programs follow:

Building Big - In conjunction with the ASCE 150th Anniversary celebration, the Society is sponsoring a five program series to be aired in October on the nationwide PBS network. This program is targeted for middle school age students. It explores five types of civil engineering projects; dams, tunnels, skyscrapers, bridges and domes. We are in need of assistance in getting information out to the students on this series.

Engineering Design Contest - This program is a bridge design competition for high school age students. The program utilizes the "West Point Bridge Design" software to design a bridge to meet specified criteria. Mentors and judges are needed for this program.

Future Cities - This 7th and 8th grade competition introduces the student to the interdependent relationship of infrastructure support and urban vitality in their communities. Students design a city utilizing the "SIM CITY" software. During the competition, student teams write essays on specific topics, build models of a representative section of their city and make pre-

sentations describing their design and innovative concepts of their city. Mentors and judges are needed to support this program.

There are also outstanding programs sponsored by a number of sister societies. These programs, including **Math Counts**, **Essay Competition** and the **Poster Competition**, all need your support and participation. If you have a child in middle or high school, I encourage you to take advantage of these programs to involve your child as well as yourself in these rewarding experiences.

One last program I would like to plug is the **Youth Motivation Program**. This program recruits people from all walks of life to spend a morning with freshman and sophomore high school students in the Chicago Public School system. The program, a partnership of the school district and the city businesses, attempts to reduce the crippling dropout rate within the Chicago Public School system by encouraging students to complete their high school education. From personal experience, I can assure you that the morning you spend with the students may change their lives, but it will definitely change yours.

The opportunities and needs are in front of us. The desire to give back to our communities represents the best our profession has to offer. All we need is for you to step up and help. Please feel free to call me (312-930-9119) or e-mail me (ASCE@HNTB.COM) with your interest.

ASCE Illinois Section News

ILLINOIS SECTION NEWSLETTER

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

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Submittal deadline for the October Newsletter is September 11, 2000

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Section Activities

Younger Member Group

SEPTEMBER Planning Meeting Annual Planning Meeting for '00-'01 Calendar Year

It's that time of year again, the leaves are changing, football is in the air, students are returning to school, and the Younger Member Group is planning its upcoming year of events. So, if you are an active member or want to get involved in YMG mark down this date. We need to hear everyone's ideas to make the upcoming year just as successful as past years. Please contact Jennifer Crain by September 13th if you plan on attending. If you are unable to attend but have ideas for future events, please do not hesitate to let Jennifer know. YMG is YOUR group and YMG's success is directly affected by YOUR participation!

Date: Thursday, September 14, 2000
Time: 5:30 pm
Place: Teng & Associates
205 N. Michigan Avenue
36th Floor
Cost: Free Food!!!!
RSVP: Jennifer Crain at (312) 616-7413

OCTOBER Event

Illinois Section Annual Awards
Dinner Meeting

Urban Planning & Development Group

Concerned about 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.

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

Date: Thursday, September 21, 2000
Time: 7:30 a.m.
Place: Denny's Restaurant
Oakbrook Terrace, IL

Structural Group

PRESENTS:

THE SEOUL-INCHON LOCK PROJECT

Mr. Mark Calvino, S.E., P.E.

Mr. Mark Calvino, S.E., P.E., of Harza Engineering Company, will be presenting on the Seoul-Inchon Lock Project in Seoul, Korea. The project consisted of constructing an 18-km-long, 100-m-wide navigation and flood control channel with a draft of 7 meters between the Han River and the West Sea. Part of the project required the construction of three locks on the Inchon end of the canal, and two locks on the Seoul end of the canal.

Mr. Calvino's discussion will focus on the structural design of the gate bays, the U-frame monoliths, and the lock foundations. All gate bays are concrete gravity structures founded on pipe piles driven to competent rock. The chamber of the Inchon Lock was constructed of concrete U-frame monoliths, also founded on pipe piles driven to competent rock. Also, Mr. Calvino will discuss the structural design challenges of the sector gates. The reversing head condition caused the sector gates to be the largest sector gates in the world. Please join us for this opportunity to discuss the unique structural challenges this lock design presents.

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

Place: Como Inn
546 N. Milwaukee, Chicago
Cost: \$30 / Students \$15
RSVP: Barb Pries at (312) 263-1606
by Friday, September 8, 2000

Geotechnical Group

The next Group meeting will be held on September 12, 2000. Prof. Rodrigo Salgado of Purdue University will speak on "Shear Strength and Stiffness of Silty Sands".

Time: 5:30 p.m. Social
6:30 p.m. Dinner
7:30 p.m. Presentation

Place: Como Inn
546 N. Milwaukee, Chicago
Cost: \$30 with reservations
\$35 at the door
\$20 Education/Government
Employees with reservations
\$15 for students with
reservations
RSVP: Barb Pries at (312) 263-1606
by Thursday, September 8, 2000

Environmental Engineering & Water Resources Group

The Executive Committee of EE&WR meets the second Tuesday of every month. We always welcome new people and creative ideas. If you would like to be active in planning activities related to environmental or water resources engineering and would like more information contact Rob Covey at (312) 346-5000.

The next regular business meeting will be held on Tuesday, September 12, at the offices of Christopher B. Burke Engineering, Ltd. 4 persons attended the August business meeting where future seminars and social events were discussed. The HEC HMS class, which was scheduled for July 26-28, unfortunately had to be cancelled due to low enrollment. The FEQ short course is set for September 26-29 at the IDOT District One facility in Schaumburg. Delbert Franz of Linsley, Kraeger and Associates will once again be the instructor. The registration fee has been set at \$800 for the four-day introductory class. Contact Rob Covey at (312) 346-5000 for more information regarding the Introductory FEQ Class. There is also an advanced FEQ class being planned for October. Contact Erik Gil at (847)

ADVANCED FEQ CLASS

The EE & WR Group is sponsoring an Advanced FEQ Class to present a number of recent additions to the hydraulic model which is used by DuPage County for floodplain mapping and project evaluation. A registration form will be sent in the October Newsletter, however, participants are encouraged to register early (see contact below) since class size will be limited.
Time: November 6 - 8, 2000
Location: Rosemont, Illinois
Cost: \$650 per person
Contact: Erik Gil at 847-823-0500
Email: egil@cbbel.com

823-0500 for more information regarding the Advanced FEQ Class.

Also, nominations for officers for the 2000-2001 Executive Committee are being accepted at this time. Votes will be cast at the September Group meeting for all positions of the Executive Committee.

September Business Meeting:

Date: September 12, 2000
Time: 5:30 p.m.
Place: Christopher B. Burke
Engineering, Ltd.
9575 W. Higgins Road
Rosemont, IL

For more information contact Robert Covey at (312) 346-5000

Urban Wetlands: Protecting and Enhancing the Resource

The Society of Wetland Scientists will hold its 22nd Annual Conference May 27 through June 1, 2001 at the historic Congress Hotel in Chicago, Illinois. Urban Wetlands will be the theme with an interdisciplinary approach at this conference co-hosted by the Environmental Engineering and Water Resources Group of the American Society of Civil Engineers. The conference will include plenary sessions, concurrent technical sessions, field trips, and more. The banquet will be held at the world-class John G. Shedd Aquarium and Oceanarium. For more information our web site is www.sws.org/chicago. For specific questions contact Jeff Mengler at jeffrey_mengler@fws.gov or 847-381-2253 x226 or Mike Miller at miller@isgs.uiuc.edu or 217-333-7093.

Board of Directors 2001

President

Dave Kendall has 29 years of experience in transportation, airport, and municipal related engineering. His experience includes the planning and design of highways and streets, runways and taxiways, drainage and flood control projects, water distribution and sanitary sewer systems rehabilitation for state, toll highway, local government and private sector projects. Although not native to Illinois, he has worked his entire career in the Chicago metropolitan area where he has been employed in both public and private sector.

Mr. Kendall is a Project Manager and Senior Engineer at Earth Tech, Inc. He has recently been involved in the planning and design of airport improvements, as well as storm and sanitary sewer projects. He holds a Bachelor of Science in Civil Engineering from Wayne State University in Michigan and is a registered professional engineer in Illinois. He has served the ASCE as President-Elect, Treasurer and Editor of the Newsletter for the Illinois Section and is a member of the American Public Works Association.

Mr. Kendall is married, has two children and lives in Glen Ellyn, IL. His oldest daughter will be starting her freshman year in the Science Program at the University of Wisconsin-Madison, this September.

President-Elect

Cleighton D. Smith, P.E. is a Senior Project Manager for Dewberry & Davis LLC, Forest Park, Illinois. He has over twenty years of experience in water resources engineering, including flood insurance studies, flood control projects, floodproofing, dam safety analyses, and stormwater management.

He has been active in the Illinois Section of ASCE for many years. He served as Chair of the Associate Member Forum (currently known as the Younger Member Group) in 1983, Chair of EE&WR in 1992, Director from 1993 to 1994, Chair of Minority Student Committee from 1990 to 1995, Chair of Student Chapter Committee from 1996 to 1998, and Secretary from 1998 to 2000. Cleighton is also active in the Illinois Association of Floodplain and Stormwater Management, having served as Chair from 1997 to 1999. He received their Distinguished Service Award in March 1999.

Cleighton received his BSCE (with Distinction) from Clarkson University in 1977 and earned a Masters in Water Resources from Clarkson in 1979. He

received the Woodstock Award (an achievement award for young alumni) from Clarkson in 1997. He worked for Harza Engineering Company from 1978 to 1995, and Christopher B. Burke Engineering from 1995 to 1998. He opened the Chicago regional office of Dewberry & Davis LLC (headquartered in Fairfax, VA) in July 1998. He is a registered professional engineer in Illinois, Indiana, and New Jersey.

Secretary

Donald G. Wittmer is a Project Manager with HNTB Corporation in Chicago. He holds a Bachelor of Science in Civil Engineering from the University of Iowa. He is a registered professional engineer in Illinois, North Dakota and South Dakota.

Mr. Wittmer has over ten years experience in transportation engineering in the following areas: parking facility planning and design, local road and interstate feasibility studies, interchange and intersection design studies, roadway widening and resurfacing projects, traffic signal analysis and design and construction management. Significant projects include the Interstate 190 Collector Distributor Roadway Study, 127th Street / Cicero Avenue at I-294, Fox Valley Freeway Study, Division Street and I-355 South Extension.

Mr. Wittmer has been a member of ASCE since 1987 and has served as Chair / Vice Chair / Treasurer of the Younger Member Group. He has served as ASCE's representative on the Illinois Engineers Week committee and the DuPage Area Engineers Week committee. He currently serves as a Director on the Board and as the ASCE Illinois Section newsletter editor and communications chair. He was the ASCE Committee Zone III Younger Member Council chair for 1996-1997 and is currently one of the ASCE Corresponding Members to the Committee on Young Members at the national ASCE level. He also is a Trustee with the Western Society of Engineers.

Treasurer

John J. Zimmermann is a registered professional engineer in Illinois and 12 other states. He holds a Bachelor of Science Degree in Civil Engineering from Marquette University. He has participated in Illinois Section activities since 1991 in the Urban Planning and Development Group, serving as Chair in 1996. He has served as Chair of the Finance Committee from 1996 to 1998.

Mr. Zimmermann is President of Terra

Resources, Ltd. in Park Ridge, Illinois. He oversees the infrastructure development for his clients in the telecommunications industry to whom Terra Resources provides civil, structural and electrical engineering services. His company also provides land development engineering services for residential, commercial and industrial developments.

Prior to starting Terra Resources, Mr. Zimmermann was a project manager at CE Design, Ltd., in Rolling Meadows where he was responsible for managing land development, municipal and public works projects. Mr. Zimmermann and his wife Marcelaine have two daughters and reside in Park Ridge.

Director to 2001

Eric Loucks is a registered professional engineer in Illinois and Wisconsin and has been working in northeastern Illinois on stormwater and flood control projects for the past eleven years. He has a PhD in Civil Engineering from the University of Wisconsin Madison. Eric currently works for Camp Dresser and McKee Inc. in Chicago and has previously worked for Donohue & Associates and Rust Environment & Infrastructure. Much of Eric's work has been in the area of computer modeling of hydrologic and hydraulic systems. Ongoing projects include the Watercourse System Management Plan for the Milwaukee Metropolitan Sewerage District which includes development of HSPF hydrologic models for four major watersheds covering nearly 300 square miles. Eric has participated in the development of five FEQ-based watershed plans for DuPage County and has attempted to spread the use of FEQ technology by employing the model on projects in Iowa, Wisconsin, Indiana and Arizona.

Eric has been active in Illinois Section activities since 1988. He is a past chair of EE&WR and has organized more than twenty seminars, dinner meetings and conferences. Eric played a major role in organizing the recent joint meeting of Water Resources Planning and Management and Environmental Engineering Divisions hosted in Chicago by EE&WR, the Illinois Section and MWRDGC.

Director to 2002

Daniel Burke is a registered professional engineer in Illinois and is the Head of the House Design / Project Management Group at the Chicago Department of Transportation's Bureau of Bridges and Transit. He holds a Bachelor and Masters of Science in

Civil Engineering from the University of Illinois at Urbana Champaign.

Mr. Burke has eight years experience as a Design Engineer and Construction Manager of City of Chicago infrastructure rehabilitation and maintenance projects. He has served in a design and/or construction management role on the following projects: the rehabilitations of the Roosevelt Road, Lake St., Washington St., Grand Ave, Adams St., and Monroe St. Bascule Bridges over the Chicago River; the reconstruction of the North Avenue Pedway under Lake Shore Drive, and the proposed Conrail Bikeway Bridge over the Little Calumet River. Mr. Burke is currently charged with overseeing the programming and design for the Bureau of Bridges and Transit intermediate rehabilitation and maintenance program.

Mr. Burke has been an ASCE member since 1994 and has been actively involved with the Illinois Section Structural Group since 1995. He has served as chair of the Structural Group for the 1999-2000 term.

Director to 2002

Joe Johnson is a registered professional engineer in Illinois and a Partner with Harza Engineering Company. He holds a Master's

Degree in Civil Engineering from the University of California, Davis and a Bachelor's Degree in Civil Engineering from the University of Notre Dame.

Since joining Harza in 1985, Mr. Johnson has been responsible for a broad range of engineering assignments related to water supply, wastewater management and stormwater management for clients in the United States and overseas. While his experience includes a mix of project planning and design, Mr. Johnson's areas of particular experience include master planning, water demand forecasting, and hydraulic network analysis. He is currently serving as Harza's Project Manager for an overall assessment of water demands in northeastern Illinois, design of flood control improvements in Batavia, Illinois, and development of a flood mitigation plan for the City of Rye, New York.

Mr. Johnson has been a member of ASCE since 1985 and has served as coordinator for ASCE/Channel 11 Pledge Nights and as committee chair for both the Student Affairs and Minority Affairs Committees. Since 1996 he has directed the Minority Affairs Committee's support of a summer engineering program for high school students at the

University of Notre Dame, as well as the Illinois Section ASCE Golf Outing.

Director to 2002

Daniel L. Lynch is a registered professional engineer in Illinois and Indiana and holds a Bachelor of Science in Civil Engineering from Purdue University. He is Head of the Municipal Engineering Section at Christopher B. Burke Engineering, Ltd., in Rosemont.

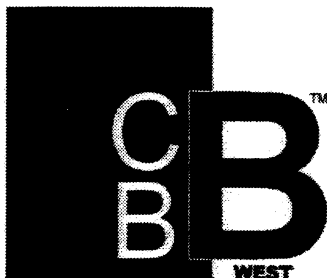
He has 11 years of experience in municipal engineering including roadway design, water distribution system planning and design, stormwater management planning and design, and development review. Mr. Lynch serves as the consulting municipal engineer for over 10 communities.

Mr. Lynch has been a member of ASCE since 1987 and has served as Treasurer, Vice Chairman, and Chairman of the Urban Planning and Development Group. In that capacity he has hosted a number of seminars for professionals and students. He has also served as Chairman of the Illinois Section's Awards Committee.

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Illinois Section News & Secretary Report

AUGUST 2000

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 Section activities or membership needs is welcome and can be sent to the Section office address noted in 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 Group activities are as follows:

■ Group Reports

▲ The Structural Group reported organizational meetings of the 2001 Lecture Series Committee on July 5 and August 2 at the offices of Edwards & Kelcey. The group will hold a dinner meeting on September 13 at the Como Inn. Topic and speaker to be announced. Finally, the 2001 Lecture Series Committee will hold another organizational meeting on September 6 at the offices of Edwards & Kelcey.

▲ The Geotechnical Group had no report.

▲ The Environmental Engineering and Water Resources Group reported the HEC/HMS scheduled for July 26, 27, 28 has been cancelled due to low registrations. An FEQ introductory course is being planned for September 26 - 29. The next monthly meeting will be held on September 12 at the offices of Christopher B. Burke Engineering, Ltd.

▲ The Urban Planning & Development Group had their group planning meeting on July 20 at Denny's in Oakbrook Terrace. The group is planning a dinner meeting for a Wednesday in October or November. Preliminary work on a permitting workshop for the spring of 2001 will begin in August. The group will hold their next monthly planning meeting on August 17 at Denny's in Oakbrook Terrace.

▲ The Younger Member Group had no report.

▲ The Transportation Group had no report.

■ Additional Section Business

▲ Discussion during the presentation of the monthly treasurer's report led to a consensus on the need to look at our cash flow.

▲ Communications Committee Chair Wittmer reported the September newsletter deadline is Friday, August 11.

▲ President-Elect Kendall reported that the President-Elect Dinner will be held on September 7 at the Union League Club in Chicago.

▲ 150th Anniversary Committee Chair Vincent discussed the need to get moving on efforts related to the "Building Big" PBS documentary on civil engineering scheduled to air in October.

▲ Mike Goodkind has volunteered to be Chair of the 2006 Conference.

—By Cleighton Smith, Secretary

Geotechnical Failures and Lessons Learned: Reflections on Our 2000 Geotechnical Lecture Series

(continued from page 1)

profession. We continue to learn and move our practice forward due to the innovation of the construction industry and our clients desire to save money. Performance monitoring and geotechnical instrumentation are now standard tools on many jobs. Furthermore, geotechnical engineers are often members of design and construction development teams, where subsurface design input is value added. However, we should not forget the words of Karl Terzaghi: "engineering is a noble sport... but occasional blundering is a part of the game. Let it be your ambition to be the first one to discover and announce your blunders... Once you begin to feel tempted to deny your blunders in the face of reasonable evidence you have ceased to be a good sport. You are already a crank or grouch." This quote was taken from Richard E. Goodman's book titled, Karl Terzaghi, the Engineer as Artist (ASCE, 1999).

The Geotechnical Group invites members of the ASCE Illinois Section and their respective companies to add a copy of the proceedings from this past lecture series to their library. A modest fee of \$25 is requested and copies can be obtained by contacting Gary Pearson at 630-924-3152 or Barb Pries at the ASCE office at 312-263-1606. The next lecture series will be during the winter of 2002. Thank you all for your support.

William H. Walton, P.E., S.E.
Vice-Chair, Geotechnical Group

The Civil and Architectural Engineering Department at Illinois Institute of Technology is pleased to announce the release of "The Engineering Science of Structures, A special Volume honoring Dr. Sidney A. Guralnick," in celebration of his seventieth birthday.

This book, which was edited by Dr. Jay Shen, Associate Professor of Structural Engineering at IIT, contains papers written by former students, research collaborators and colleagues.

The research included in this book reflects a variety of topics and mirrors the diversity of subjects that Professor Guralnick has investigated during his long and distinguished academic career. From his earliest papers, to his most recent ones, Dr. Guralnick has sought to break new ground. This activity has resulted in numerous awards of recognition from several organizations.

If you would like a copy of this book, please send a check for \$50, which includes shipping and handling to: Department of Civil and Architectural Engineering, Illinois Institute of Technology, 3201 South Dearborn Street-Room 228, Chicago, Illinois 60616.

TENG

Teng & Associates, Inc., a rapidly growing, Chicago based 400+ person Engineering and Architectural firm with offices in Dallas, St. Louis, Los Angeles, Orlando, Richmond, VA, and Milwaukee, WI is accepting applications for the following positions for the Chicago office:

STRUCTURAL ENGINEERS

We are seeking structural Engineers who have 8 years of experience in transportation and bridge projects. MSCE Degree and SE License preferred. We are also seeking candidates with 2 to 15 years of experience on DOT and/or building structure projects. MSCE Degree is preferred.

CIVIL ENGINEERS

We are seeking Civil Engineers with 3 to 6 years of experience in preliminary engineering, roadway design, and contract plan preparation. Knowledge and understanding of the use of software including GEOPAK, MicroStation, and/or AutoCad is highly desirable. Candidates should possess a Bachelor of Science degree in Civil Engineering and EIT certification.

TRAFFIC ENGINEERS

We are seeking Traffic Engineers with 3 to 6 years of experience in traffic data collection, traffic capacity analysis, planning and impact studies, intersection design studies, and traffic signal designs. Knowledge and understanding of the use of transportation related software including HCS, Synchro, CORSIM, Passer II & III, TEAPAC, and/or other traffic engineering software is highly desirable. A Bachelor of Science degree in Civil/Traffic Engineering is required along with EIT certification.

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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 Master's degree in Structural Engineering and have 7 to 10 years experience in designing institutional, industrial, and commercial buildings. A Professional registration is preferred.

STRUCTURAL ENGINEER-BRIDGE

Milwaukee, WI. The ideal candidate will possess a Master's degree in Structural Engineering and have a minimum of 5 years practical experience in structural design and inspection of bridges. A Professional Registration is required.

CIVIL ENGINEER

Chicago, IL. The ideal candidate will possess a Bachelor's degree in Civil Engineering and have at least 1 to 2 years experience in plan sheet preparation, pipe sizing, site development, grading and drainage and roadway design. Experience with Microstation is a plus.

CIVIL ENGINEER

Chicago, IL. The ideal candidate will possess a Bachelor's degree and 3-5 years experience in the design of municipal public works projects, including storm water management facilities. Familiarity with IDOT standards and requirements is also essential. A PE is preferred.

TRANSPORTATION PROJECT MANAGER

Madison WI. The ideal candidate will possess a degree in Civil Engineering and 5 years of practical experience and familiarity with WISDOT standards and requirements.

SENIOR STRUCTURAL ENGINEER

Chicago, IL. The ideal candidate will possess a Master's degree in Structural Engineering and have at least 4-7 years experience of practical experience in structural design. Experience in design of bridges is preferred.

SENIOR STRUCTURAL ENGINEER

Chicago, IL, Madison, Milwaukee, and Green Bay, WI. The ideal candidate will possess construction engineering experience. A Bachelor's degree is preferred and 2 years experience on WISDOT/IDOT projects and knowledge of Field Manager Software is desired.

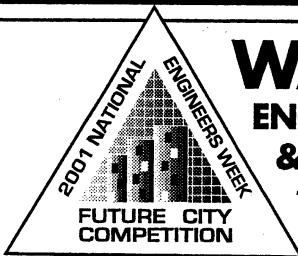
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EOE



WANTED: ENGINEER MENTORS & JUDGES

The Chicagoland Engineers Week Committee is once again sponsoring the 2001 Future City Competition being held in at least eighteen cities nationwide. This annual competition is held for 7th and 8th grade students to foster interest in engineering, math

This is a great opportunity to influence and encourage the engineers of the future.

and science through hands-on computer modeling, essay writing, oral presentation and model building of the students "Cities of the Future". Schools from Chicago and the suburbs annually participate in this event.

VOLUNTEERS are needed to help plan the competition, be an engineer mentor to a school or be a judge for the competition in January. Planners are needed to work with the schools, help sign up volunteers and help with mailings and press releases. Engineer mentors will work with the students in an advisory role. They will visit their school 4-8 times throughout the competition, answer questions and guide the students. Judges are needed for two Saturdays in January to score the students work. Information sessions will be held to assist the engineer mentors and judges in their responsibilities and to answer questions.

Please call Don Wittmer at (312) 930-9119 or email him at dwwittmer@hntb.com to sign up or to get more information.

Calendar of Events

2000

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|-------------|--|
| Sept. 12 | EE&WR Executive Committee Meeting |
| Sept. 12 | Geotechnical Group Monthly Dinner Meeting |
| Sept. 13 | Structural Group Monthly Dinner Meeting |
| Sept. 14 | ASCE YMG Planning Meeting |
| Sept. 14-15 | Parking Structure Restoration I - ASCE Continuing Education Course |
| Sept. 18-19 | Intro to Basins - ASCE Continuing Education Course |
| Sept. 21 | UP&D Group Monthly Meeting |
| Sept. 26-29 | FEQ Short Course sponsored by the EE&WR Group |
| Oct. 2-3 | Stormwater Utilities - ASCE Continuing Education Course |
| Oct. 18 | Illinois Section 84th Annual Dinner Meeting |
| Oct. 18-21 | ASCE National Conference, Seattle, WA |
| Oct. 19-20 | Deep Foundations - ASCE Continuing Education Course |
| Nov. 6-8 | Advanced FEQ Class sponsored by the EE&WR Group |

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