



ASCE

ILLINOIS SECTION

NEWSLETTER

Vol. 38 No. 10

American Society of Civil Engineers

October 1997

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ILLINOIS SECTION NEWSLETTER

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

Editor — Dave Kendall

Rust Environment and Infrastructure
3121 Butterfield Rd., Oak Brook, IL 60521
(630) 574-2568 FAX: (630) 574-2007
email: dave_kendall@ccmail.rustei.com

Assistant Editor — Bob Israel

Louis Jones Enterprises, Inc.
1 IBM Plaza, Suite 3501, Chicago, IL 60611
(312) 923-0022 FAX: (312) 923-0138

Copy Editor — Maggie Kohls

Tishman Construction Corp.
321 N. Clark St., Chicago, IL 60610
(312) 930-2080 FAX: (312) 321-1816

News Coordinator — Bob Camillone

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

Pres. Allen Staron (312) 902-7100
Pres.-Elect Chris Burke (847) 823-0500
Sec. Richard Walther (847) 272-7400
Treas. John O'Holleran (312) 930-9119

Send changes 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/>

**Submission deadline
for the Novem Newsletter
is Oct. 15, 1997**

Reliability & Economy: Technology Focus for Competition & Globalization

The above is the theme for the 60th Annual Meeting of the American Power Conference, which will be held April 14-16, 1998, at the Chicago Marriott Downtown. The conference will have seven major session tracks, with supporting presentations and activities. In addition, the theme is connective and reaches all disciplines and sectors of civil engineering and its affiliates.

Reliability and Economy are the key requisites as Industry positions itself for Competition and Globalization. American Power Conference focuses on the enabling Technology. Sponsorship by a nonprofit University and Integrated broad coverage from fuels through distribution provide a unique forum. The Meeting has a unique Midwest representation but is national and international in scope. Over 2100 engineers and managers are expected to attend. Representative expected sessions include many new thrusts under the leadership of the current Organizing Committee and Division Chairpersons.

The ASCE Energy Division is proud to contribute to this major national meeting and is one of several organizations, including ASME, ANS, IEEE, and AACE, supporting this conference. The APC includes plenary sessions, 80 technical sessions, an extensive exhibition hall, banquets, and other special events sponsored by ASCE and other engineering organizations. We are sure you will find the meeting to be stimulating and informative.

The ASCE Energy Division expects to organize sessions on

topics of critical importance to civil engineers working in the energy area. We invite you to participate! Abstracts in the theme areas of the conference have been solicited including:

Environmental & Clean air, Generation-Fuel Options & Equipment; Information & Control Systems; Access and Power Marketing; Nuclear Operations & Options; Systems Planning & Operation; Transmission & Distribution

American Power Conference emphasizes how technology can successfully enable business to deal with deregulation in the U.S. and with privatization worldwide. As such, the Conference is a meeting of managers and engineers who need and provide a broad perspective. The multi-society sponsorship concept ensures a balanced treatment of common benefit to industry. Special breakfast seminars and field trips are provided in addition to the regular sessions. A separate track of regular sessions deals with education and training. Representatives from 250 utilities and suppliers have been invited.

The meeting starts Tuesday morning with an Opening Session of Industry Outlooks (April 14, 1998). For 1998, Tom Kuhn, President of Edison Electric Institute, will give the leading keynote address. Bill Hogan of Harvard University, Kennedy School of Government, perhaps the most recognized authority on deregulation today, will join him. A senior executive of an independent power producer will also make a presentation. The Exhibition

(Continued on Page 5)

Specialty Conferences To Meet in Chicago

Mark June 7, 1998 on your 1998 calendars. That's when we'll kick off two important national ASCE conferences at the Hyatt Regency Chicago, 151 East Wacker Drive. The 25th annual conference on Water Resources Planning and Management and the 1998 conference on Environmental Engineering will be held in Chicago during the second week of next June. Both ASCE divisions meet annually to socialize, hold technical committee meetings, and present technical papers that outline recent advances and achievements in civil engineering. Conference activities actually begin on June 6 with social events that include a golf outing and a baseball game.

The EE Division holds its first round of technical committee meetings, followed by the ice breaker reception which signals the traditional start of the conference. The reception features commercial and

industrial exhibits along with the usual refreshments. The technical program begins on Monday, June 8 with a Plenary Session on coordination of Federal Environmental Regulations featuring high ranking officials from the Corps and US EPA, with comments by Professor Neil S. Grigg, a leading expert on regulatory issues. The conference highlight is the Monday night dinner at the Shedd Aquarium, where the meal will be served in the rotunda around the coral reef exhibit. Technical presentations will be given in fourteen simultaneous sessions Monday afternoon, Tuesday and Wednesday. Nearly 400 presentations are scheduled.

Attendance at the conference is open to anyone. As an alternative to full registration, you can register for individual days and purchase tickets for individual social events. Complete registration information will appear in the December Newsletter.

Civil & Structural Engineers

TranSystems Corporation, a dynamic national transportation engineering consultant, has exciting opportunities available in our Schaumburg office for highly motivated civil and structural engineering with planning, design and/or construction experience in highway and railroad facilities. Qualified applicants must have 2 to 8 years experience, professional or engineer intern registration, working knowledge of MicroStation and GeoPak, and excellent verbal and written communication skills.

The positions offer excellent career growth opportunities, attractive work environment, and excellent compensation and benefit package.

Qualified applicants should mail, fax or e-mail resumé to:

TranSystem Corporation
1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173
FAX: (847) 605-9610
E-MAIL: jcaccia@transystem.com

M.S. in operations and technology management

This graduate program, designed to advance the careers of experienced working engineers and other technical professionals, applies business and management concepts directly to the areas of operations, manufacturing, TQM, logistics, R&D, new product development, and MIS.

The curriculum is cross-functional — integrating the many areas necessary for effective management in technology-driven organizations. Small interactive classes emphasize strategy, people skills, economic analysis, team building, project management, initiating change, and an integrated approach to problem-solving.

The program consists of 12 courses offered on Saturdays, over an 18 month period, in Great Lakes, Illinois. Applications now being accepted for the next entering class.

Courses offered include:

- *Integrated Management of Products, Processes, & Innovation*
- *Individual Effectiveness*
- *Leadership & the Management of Change*
- *Strategic Management & Entrepreneurship*
- *Human & Technology Resource Management*
- *Organizational Behavior & Design*
- *Economic Analysis & Business Planning*
- *Logistics & Supply Chain Management*
- *Modeling & Simulation for Business Decisions*
- *Managerial Accounting*
- *Probability & Statistics for Business Decisions*
- *Financial Management & Control*

For additional information, contact Professor Joel Goldhar, 312-906-6526.

Stuart School of Business
Illinois Institute of Technology

565 West Adams Street, Chicago, Illinois 60661-3691

PRESIDENT'S NOTES

Fall in Chicago brings change from hot summer days to the cold snowy nights. For ASCE, Fall also marks a change from the old to the new; incoming officers replace the current leadership on both the local section and national level.

It will be at the Illinois Section's Annual Dinner meeting later this month that my tenure as Section president will officially end. It has sincerely been an honor to represent the Illinois Section as its President. I thank all of you that helped to make the past year interesting and exciting. Special thanks to the Illinois Section Board of Direction and all group and committee chairs; your dedication and commitment have made my job extremely easy.

The Illinois Section has achieved a number of significant accomplishments during the past year. Among those accomplishments that you can be proud of are a wide array of technical programs and seminars available locally to our members, a renewed relationship with the engineering schools of the area universities, and a continued commitment to minority students exploring engineering as a career. The Illinois Section also instituted its own web page to better communicate with our members and to link us to ASCE National and other sections and branches. In looking to the next millennium, the Illinois Section has begun exploring the possibility of being the host city for the 2005 ASCE Annual Convention.

Work still remains to be done in the areas of membership and public information/involvement. ASCE is the only national voice for all civil engineers, regardless of technical specialty or discipline. It makes sense for all civil engineers to reap the benefits through active membership in both the national and local organizations. Active participation by ASCE members will move us to enter into the debate on public policy and to take the lead in shaping the future for infrastructure and the environment. Civil engineers must be included as valued stakeholders in



public policy decisions; our blend of knowledge, problem definition, and analytical solutions are needed now, more than ever.

The past year has permitted me to meet many civil engineers of many different specialties and interests. It has been enlightening to see the extent of civil engineering beyond my own experience in transportation engineering and to look at the all the impacts our profession has on the constructed environment. Thank you for the opportunity to reacquaint me with what makes civil engineering a great profession. I will always value my time as President of the Illinois Section.

Allen Staron

Highway Design Engineer

Clark Dietz, Inc. is a well-respected consulting engineering/architecture firm with offices in Chicago, Champaign, Kenosha, and Indianapolis. Our quality reputation has resulted in growth which creates this opportunity in our Chicago office.

We are searching for an individual with an BSCE, P.E. registration, and a minimum of 6-8 years of roadway design experience for Clients such as IDOT, CDOT, ISTHA, and municipalities. Communications skills are very important. This will be a project manager level position

Our West Loop downtown location is convenient to all Metra and CTA lines. We offer not only a competitive salary, but an outstanding benefit program that includes a 401(k) program, profit sharing, performance bonuses, and potential company ownership.

If this opportunity fits your goals, please send your resume in confidence to: Kenneth E. Nelson, P.E., Clark Dietz, Inc., 216 South Jefferson Street, Suite 303, Chicago, IL 60661

EOE M/F/D/V



The ASCE Transportation Group and the Illinois Department of Transportation are co-sponsoring:
"AASHTO Roadside Design Guide" short course



October 29-30, 1997

Location: Illinois Department of Transportation
201 West Center Court (Classroom - Lower Level)
Schaumburg, IL 60196

Description: This two-day course provides an overview of the 1996 AASHTO "Roadside Design Guide," a metric document which supersedes the 1988 "Roadside Design Guide." Particular emphasis is placed on the new and expanded material and its relationship to current highway agency policies and practices. **Each participant will receive a copy of the 1996 AASHTO "Roadside Design Guide" as the course text.** 1.2 Continuing Education Units will be granted to each participant. A calculator and a metric engineering scale should be brought to class.

Registration and Fees: The \$295.00 registration fee includes class text, lunches, and refreshments. Due to the anticipated high interest in the course, it is advised to respond promptly. Class size will be limited to 40 participants. Registration will not be confirmed until payment is received with a completed registration form. **Registration must be received by October 10, 1997.** Refunds will be given for cancellations received by October 15, 1997. For further information, contact: Mike Dever at (773) 399-0112.

Instructors: **Dennis Lee**, FHWA, Regional Safety and Geometric Design Engineer. Mr. Lee has been with the FHWA for 29 years. He currently provides technical and program assistance for FHWA. He has been an instructor of the "Roadside Design Guide" course since 1992.
Nicholas Artimovich, FHWA, Highway Engineer, Federal Aid and Design Division. Mr. Artimovich has been with FHWA for 22 years. His current emphasis is related to roadside safety and design, with a specialty in breakaway hardware such as sign supports, luminaire supports, and mailboxes. He has instructed this course since 1989.

Name(s): _____
Title(s): _____
Organization: _____
Street Address: _____
City: _____ State: _____ Zip: _____
Phone Number: _____ Fax Number: _____

Registration Fee: \$295.00, Course Dates: October 29-30, 1997
PLEASE MAKE CHECKS PAYABLE TO: ASCE/Transportation Group

Please mail check and registration form to: Michael Dever
Graef, Anhalt, Schloemer, & Assoc.
ASCE-IDOT "AASHTO Roadside Design Guide" short course
8501 W. Higgins Rd., Ste. 280
Chicago, IL 60631

SECTION ACTIVITIES

Transportation Group

The Transportation Group is co-sponsoring with IDOT a short course on the new *AASHTO Design Guide*. Here's your chance to get up-to-date on this critical element of safe roadway design, using AASHTO's new 1996 metric version of the manual. The two-day course will be held on October 29-30, 1997, at IDOT's office in Schaumburg. The fee is \$295. Contact Michael Dever at (773) 399-0112 for further details. Please call early as class size is limited.

Younger Member Group

October Meeting

The Younger Member Group will not hold a meeting this month but encourage members to attend the Illinois Section Annual Dinner being held on Wednesday, October 22nd. We will resume our meetings in November.

About our Group

The Younger Member Group is geared towards civil engineers aged 35 and under. Featured speakers at our meetings come from all areas of civil engineering. The group prides itself on offering diverse meetings once a month, offering social and networking opportunities and introducing younger engineers to other Illinois Section ASCE technical groups. We welcome everyone to our meetings and activities, regardless of age or position.

Volunteers Needed For Future City Competition

The Illinois Section of ASCE and Fluor Daniel are once again co-sponsors for the Future City Competition, which is being held in 14 cities nationally. This annual competition is held for 7th and 8th grade students to foster interest in engineering, math and science through hands-on computer modeling, essay writing, oral presentation and model building of the students' "Future City." Schools from the city and suburbs participate.

Volunteers are needed to help with the competition in January. Planners are needed to work with the schools, 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 4-6 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 for more information.

Technology Focus for Competition & Globalization

(Continued from Page 1)

will then open with a ribbon cutting. The technical sessions will follow. Examples include "Renewable Energy", "Structural Design", "Ash Utilization", "Water Resources", "Permitting", "Internet Applications for Transmission Access", "Integration of Information and Control Systems", "Nuclear Power's Survival of Deregulation" and many more. The meeting will close at Noon on Thursday. Also featured are ASME and IEEE Luncheons, a Nuclear Evening Forum, and a Reception and Banquet.

An Advisory Board including CEOs from the region; and Organizing Committee with local utility and AE representation; and an Industry-Program Committee with members worldwide guide this event. Civil Engineering, Cost Engineering, Electrical, Mechanical, Information and Controls, and Nuclear Divisions are represented on the Industry-Program Committee.

Sponsored Students and Faculty

Over 100 university students and faculty will attend to learn about industry needs and career opportunities. To sponsor or become sponsored contact Prof. VC Ramesh, ECE Dept., IIT, Chicago, IL 60616. Phone: (312) 567-3765, (-8976, FAX).

For American Power Conference information, contact Robert W. Porter, APC Director, IIT, Chicago, IL 60616, Phone (312) 567-3202 (-3892, FAX). E-mail apc@iit.edu. See also the Conference Web site at <http://apc.iit.edu>. Abstracts can also be submitted via the Web site.

Bob Camillone
Management Group
Energy Section

SECTION ACTIVITIES

UP&D Group

Accessibility Seminar

If you are involved in the funding, design, permitting or construction of residential, commercial, industrial or public works projects, you won't want to miss our upcoming Accessibility Seminar. Various experts will discuss the engineering and architectural requirements of ADA, Fair Housing and the Illinois Accessibility Code. A must for developers, architects and engineers alike! The seminar will be held on **Thursday, November 6, 1997** at the Ambassador Banquet Hall in Elmhurst, Illinois. For more details, contact Andy Sikich at (847) 696-4060 or look for the registration form in this month's newsletter. Register soon, as space is limited.

Group Meetings

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 Dan Lynch at (847) 823-0500.

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 16, 1997
Time: 7:30 a.m.
Place: Denny's Restaurant
Oakbrook Terrace

Geotechnical Group

Geotechnical Group meetings are held every second Tuesday of the month, September through May.

Time: 5:30 p.m. Social
6:30 p.m. Dinner
7:00 p.m. Presentations
Place: Como Inn
546 N. Milwaukee, Chicago
Cost: \$25 with reservations;
\$30 at the door;
\$10 for students with reservations; and

\$15 for faculty with reservations

RSVP: Ms. Pat Moser at (630) 717-4263 by noon on the Tuesday preceding the meeting.

October Meeting

The October Meeting will be a joint meeting with the Structural Engineering Group of the Illinois Section ASCE. The meeting will be held at the Como Inn on Tuesday, October 14, 1997. Lucien P. Weber from ISPC, Luxembourg, will discuss "High Strength Steel for H-Piles," and relate his experience with these piles from their use in Europe.

Management Group

For information on the Management Group and its activities, contact Karen Steingraber at (312) 467-0123 or Mark Schultz at (312) 782-8150.

Administrative Committee

All members are encouraged to attend the first 1997-98 fiscal year meeting.

Date: Thursday, October 16, 1997
Time: 5:15 p.m.
Place: Collins Engineers, Inc.
211 W. Wacker Dr., 8th Floor
Chicago, IL

IEEE-ASCE Suburban Dinner Meeting

Please refer to page 5 of September ASCE Illinois section Newsletter for the details on "Airplane Integrated Systems Reliability" by David Metsche of Northrop Grumman Corporation.

Date: Thursday, October 9, 1997
Time: 6:00 P.M. Start
Place: Wyndam Garden Hotel

Special Interest Education

In addition to the American Power Conference, Management recommends the following seminars/conferences in the Chicago area which have correlation to our topical themes and interest sectors: "Defensive Design Techniques" - 10/16/97; contact ASCE National at (800) 548-2723.

"Construction Claims" - 10/27-28/97; contact Julie Cooper, Saddle Island Institute (617) 720-9545.

"Planning and Improving Warehouse Operations" - 11/5-6/97, contact Warehouse Industry Council at (800) 882-8684.

Structural Group

October Dinner Meeting

"High Strength Steel for Piling"
A joint dinner meeting with the Geotechnical Group is planned. The guest speaker will be discussing high strength steel in piling applications. See the Geotechnical Group announcements for further information.

November Dinner Meeting

"Steel Structures and Critical Material Properties, k-Area"
Recent incidents of brittle crack initiation at the "k" distance of commonly used wide flange beam and column sections suggest that there is an inherent problem with some aspects of current steel production methods. Mr. R.H.R. Tide of Wiss, Janney, Elstner Associates, will explain how final cold straightening of these continuously cast shapes alters material properties in the k-Area and introduces unacceptable brittleness. Mr. Tide will discuss this phenomenon and explain its ramifications.

Date: November 18, 1997
Time: 5:15 PM Social
6:00 PM Dinner
7:00 PM Program
Place: Como Inn
546 N. Milwaukee Ave.,
Chicago
Cost: \$25.00
RSVP: Barb Pries by Friday,
November 14

EE&WR Group

EE&WR Group meets second Tuesday of every month. Next meeting is:

Date: October 14, 1997
Time: 5:30 p.m.
Place: Lobby Conference Room
111 N. Canal St.
Chicago
Info: David Moughton, (312)
353-6400 x3115

(Section Activities continued on Page 5)