

# ASCE

American Society  
of Civil Engineers



## INSIDE:

**President's  
Notes**  
2

**Geotechnical  
Group Awards  
Two Scholarships**  
5

**Message from  
ASCE Region 3  
Director**  
6

**Geotechnical  
Group Monthly  
Meetings**  
7

**Section Activities**  
8

**News & Secretary  
Report**  
11

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ASCE Illinois Section

# News

Vol. 50, No. 5  
May/June 2009

## Progress on New CTA Cars

by Walter Keevil, CTA Chief Rail Equipment Engineer and Art Peterson, Senior Engineering Manager, Parsons Brinckerhoff (PB), Inc.

### Background

It's been over a decade since the Chicago Transit Authority (CTA) received an order of new rail cars. CTA's last car order was delivered in advance of the late 1993 opening of the Orange Line (linking the Loop to Midway Airport and southwest side neighborhoods).

In mid-2003 CTA and PB Americas, Inc. took the first steps in the procurement of a new family of CTA cars by developing a strategic plan for the implementation of AC propulsion. AC propulsion has been used on other rail systems around the world, but had not yet been tested on the CTA.

The strategic plan considered the physical plant of the CTA – signals, substations, power distribution system and communications systems to ensure that the new cars/technology would be compatible with the CTA system. Potential impacts on the existing fleet of cars were also considered.

It's been over  
a decade since the  
Chicago Transit Authority  
(CTA) received an order  
of new rail cars.



Car assembly and testing take place in two separate facilities in Plattsburgh, NY. A Canadian Pacific locomotive pushes the first two prototype cars into the Bombardier test facility on January 27, 2009. All photos by Don King.

The conclusion was that the technology would be compatible and so we continued into the development of technical specifications for the procurement of the AC cars.

The draft specifications were sent out for industry review, after which the final specifications were developed. The procurement took the form of a request for proposals, and following evaluation of the proposals (three were received) and best and final offer negotiations, Bombardier Transport

(continued on page 4)

## President's Notes

Robert Gorski, P.E., M. ASCE



What an unbelievably busy time of the year especially as President of the Illinois Section. Since the April newsletter the Section has:

- Participated in the Washington DC Fly-In. It is so vital that engineers engage our legislature and participate in public policy. We

met with Senators and Representatives and their Staff, discussing the National Report Card on Infrastructure, and reauthorization of the FAA, Dam and Surface Transportation Bills. Special thanks to the folks who attended with me: **Colleen Quinn, Lou Arrigoni, Bryan Luke, Dipal Vimawala, Don Wittmer, and Bill Hanson.** We also attended the "Illinois Coffee" hosted by Senators Durbin and Burris and their guest Representative Jackson Jr.

- Hosted the President Elect/Student Awards Dinner with **Blaine Leonard.** The executive board spent the day together prior to the dinner, sharing our activities with him and receiving his feedback and ideas. The dinner had an excellent turn out of members, past presidents, and student chapter presidents (IIT, NU, and UIC). Best of all, the Technical Groups awarded nearly \$20,000 worth of undergraduate and graduate scholarships to students from all three schools. President Elect **Chris King,** the technical groups and board members put on a great program. Special thanks to our sponsors **CBBEL, HDR, and Robinson.**
- We moved the Illinois Section office to a more economical location...

### Illinois Section – American Society of Civil Engineers

444 North Michigan Avenue  
12th Floor #429  
Chicago, IL 60611  
Phone: (312) 283-5351  
Fax: (312) 283-5005

- The executive board met at the old office and went through over 60 years worth of files; the memorabilia (pictures and newsletters) will be scanned and placed on the website

The executive board met at the old office and went through over 60 years worth of files; the memorabilia (pictures and newsletters) will be scanned and placed on the website and will continue to be stored with the other vital documents.

and will continue to be stored with the other vital documents.

- Participated in the IDOT Career Day at McCormick Place.
- Members provided testimony at the Capital Bill hearings hosted by State Representatives. I attended the last hearing on April 16th and was joined by **Don Wittmer, Owen Keenan, and Heather Gaffney.** After the testimonies I shared copies of the ASCE Infrastructure Report Card with the Representatives.
- Committed to supporting the Chicago Architecture Foundation in celebrating the Burnham Plan 100 Year Anniversary by participating in their exhibition.
- Committed to supporting the Metropolitan Planning Council.
- Committed to supporting Science Chicago by participating in an outreach program at the Museum of Science and Industry which targets students 13 years of age and older.

### ASCE Illinois Section

# News

#### ILLINOIS SECTION NEWSLETTER

Mailed to all ASCE-IS dues-paying members  
American Society of Civil Engineers  
Illinois Section – Region 3

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Please update your information at  
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call 1-800-548-2723

Web Site: <http://www.isasce.org>

#### ASCE National Information

Phone: 1-800-548-ASCE  
Web Site: [www.asce.org](http://www.asce.org)

**Submission deadline for the  
Newsletter is the 10th of the month.**

- Attended the National Association of County Engineers Conference in Peoria. This organization includes the Illinois Association of County Engineers which supported the ASCE Annual Conference in 2006, is a reviewing partner in the Illinois Infrastructure Report Card, and will be joining us in Springfield during our General Assembly Visit. Illinois Section ASCE/IACE members included: **Marty Buehler** (Lake), **Chuck Tokarski** (DuPage), **Fran Klaas** (Kendall), **Rupert Graham** (Cook), **Joe Korpalski** (McHenry), **Bruce Gould** (Will), **Joseph A. Vanderwerff, Sr** (Winnebago), **William Lorence** (DeKalb), and **Carl Schoedel** (Kane).
- Committed to supporting as a sponsor the 2009 Annual Conference in Kansas City, which is being led by Past Illinois Section President **Glenn Schirmer**.
- Streamlined the ASCE award applications making it easier for members to nominate individuals and projects, special thanks to **Thera Baldauf** who leads the Awards Committee. Applications are due in July, so please consider making a nomination.

Here is my monthly Key Issues update:

#### **Local Government Relations.**

We have a large group of folks from the Section and other ASCE members from across the State along with ASCE members of American Public Works Association (APWA) and the Illinois Association of County Engineers (IACE). We have over 20 members confirmed to attend and over 17 Legislators have RSVP'ed to a

attend the reception. We will be sharing copies of the ASCE National Infrastructure Report Card and asking the General Assembly to pass a Capital Bill. Special thanks go out to the Committee members **Lou Arrigoni, Bryan Luke, and Dipal Vimawala**. Additional thanks go out to Illinois Section members **Mike Millette** (APWA), and **Carl Schoedel** (IACE).

The Committee continues to make progress with DRAFTS grades for Roads, Aviation, Water, Bridges, Dams and Levees, Water, Wastewater, Transit, and Navigable Waterways.

#### **Illinois Infrastructure Report Card.**

The Committee continues to make progress with DRAFTS grades for Roads, Aviation, Water, Bridges, Dams and Levees, Water, Wastewater, Transit, and Navigable Waterways. These will be shared with the various stakeholders we are working with and peer reviewed by the Past Presidents.

#### **Engaging Young Students.**

**Pat Lach** led a group from ASCE on April 1 for the Illinois Department of Transportation Career Day Chicago where the Illinois Section was sponsor. This was the first IDOT Career Day event held in the area. The purpose of the event was to introduce over 600 Chicago Public High School students to the Transportation/Engineering

industry. Our table was very popular; we had the students construct an 18 inch tall "tower" from paper, string, and tape that could hold a tennis ball. The tower was then introduced to a wind load from a fan. The winning group built a tower over 30 inches tall! We had a tremendous time learning with the kids and talking about engineering. Special thanks to **Ken Maschke, Jerod Cebulski, Matt Miller, Charles Frangos, Bob Johnson, Zaida Morillo, and Jameelah Muhammad**.



The purpose of the event was to introduce over 600 Chicago Public High School students to the Transportation/Engineering industry.

Are you LinkedIn to the Illinois Section Group? This is a tremendous way to network with other Illinois Section Professionals <http://www.linkedin.com/groups?gid=44968>

Have a question? Want to get involved? Please contact me at 773-515-1207 or [Robert.gorski@hdrinc.com](mailto:Robert.gorski@hdrinc.com)

## Progress on New CTA Cars

(continued from page 1)

North America (BTNA) was selected as the Contractor, with the Notice to Proceed issued in late July 2006.

PB has continued to support CTA during the design and construction phases, including providing the Authority's On-Site Manager at the BTNA assembly facility in Plattsburgh, New York.

During the summer of 2009, CTA will receive the first of ten prototype cars from this new order of cars.

During the summer of 2009, CTA will receive the first of ten prototype cars from this new order of cars. This paper summarizes some of the new features on these cars and the process that will be followed to introduce them into service.

### New Technologies/Features

While outwardly similar to the previous cars, CTA's new 5000 series cars will incorporate several new technologies and other advanced-design features. For example, CTA will lead the industry in adoption of some features including advanced train diagnostic systems that will use internet over Ethernet protocol.

In addition, the cars will make extensive use of microprocessor technology and will include an advanced in-cab information display and diagnostic system that will make it easier for the train operator to deal with equipment problems and unusual occurrences.

CTA will use WiFi technology to download train performance and defect data as a train enters a storage yard to aid maintenance personnel in planning their repair work.

CCTV for after-the-fact retrieval of incident data is not a new feature, but the new cars will be equipped with mobile access routers (MARs) that will allow specially-equipped CTA and emergency services vehicles to download video from the train for observation while an incident is in progress; this will also aid responders to an incident.

### On-Board Environment

CTA conducted trials with cars incorporating aisle-facing seats to maximize the number of standing passengers a rapid transit car can accommodate to assess customer acceptance. The AC cars will apply the lessons-learned from these trials and will have all aisle-facing seats (sometimes called "bowling alley seating").



Photoluminescent strips placed in the flooring will aid in way-finding during an evacuation when car lighting is not available.

### About AC Propulsion

There will be no change to CTA's traditional method of traction power distribution – it will continue to use substations located along the rail lines to provide the 600 Vdc to power the trains.

On board the new cars, inverter packages will convert the DC to variable voltage, variable frequency AC, which is then supplied to the traction motors to propel the cars.



A cab view shows the controller the train operator uses to control acceleration and braking of the train, as well as the "Train Operator Touch Screen" (or TOTS) to the upper right of the view, which the operator will use to monitor train operation and for trouble-shooting.

By going to AC traction motors, CTA will eliminate moving parts in the motors and reduce maintenance. AC propulsion will also allow the new trains to put energy back in the traction power distribution system to reduce peak power demand. This feature is known as "regenerative braking."

In addition, adoption of AC propulsion will allow CTA to incorporate a more sophisticated wheel slip-slide system. The controls for the new cars will also provide for smoother acceleration and braking than was possible with the old technology.

## Next Steps

Once CTA, PB and BTNA engineers have thoroughly tested the prototype cars, they will be released for service throughout the CTA system. Eight of the 10 cars will operate on all CTA rail routes and will run through typical demanding Chicago summers and winters to ensure that they can

deliver reliable service under all conditions. The in-service testing will take at least nine months and at the successful conclusion of that test period, CTA will begin receiving the order of 396 production cars.

The other pair of prototypes will be sent to CTA's Training Center to begin

the process of training operations and maintenance employees on the new technology.

Options on the contract are in place to provide up to 300 more cars and it is hoped that funding can be secured to exercise these options. **ASCE**

# Geotechnical Group Awards Two Scholarships

Gary F. Goodheart, P.E., Patrick Engineering, Inc.

The Annual ASCE Illinois Section President-Elect/Student Scholarships Dinner was held at Maggiano's Little Italy restaurant in downtown Chicago on Monday, April 13. The Geotechnical Group awarded two \$2500 scholarships to graduate students pursuing degrees and careers in geotechnical engineering.



The Geotechnical Group awarded two \$2500 scholarships to graduate students pursuing degrees and careers in geotechnical engineering.

The first recipient was Ken Darko. Ken is a Ph.D. student of Dr. Krishna Reddy in the Department of Civil and Materials Engineering at the

University of Illinois at Chicago. Ken is from Ghana, and received his Bachelor's Degree in Civil Engineering in 2001 from Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. Ken plans to complete his degree and graduate from UIC in 2010. His research is focused on *Remediation of Contaminants in Soil Using Nano Scale Iron Particles*.


The second recipient was Michael Minton. Mike will be pursuing his Masters Degree in Geotechnical Engineering from the Missouri University of Science and Technology

(formerly the University of Missouri - Rolla) through the Distance Degree Program. Mike is originally from Indiana, and received his Bachelor's Degree in Civil Engineering from Purdue University in 2001. Mike attended the award dinner with his wife Laura. Mike currently works for Terracon Consultants in Naperville and will continue his employment there as he pursues his Masters Degree.

The Geotechnical Group extends congratulations to both Ken and Mike and best wishes in their careers. **ASCE**

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# ASCE Region 3 Governor-At-Large Nomination Announcement

 n or about August 15, 2009 the ASCE Region 3 Board of Governors will be reviewing applications for the position of Region 3 Governor-at-Large. There will be 1 vacancy to be filled in the fall of 2009 with ELECTION BY THE R-3 BOARD OF GOVERNORS occurring hopefully at the August 15th meeting. The vacancy will occur in the following position: The Governor #1 position, Governor-at-Large representing all the members of the Region.

Please visit [www.isasce.org](http://www.isasce.org) to view the notice of vacancy form letter, the Region 3 Bylaws, the Region 3 Rules of Policy and Procedure, a sample time commitment notice, and a Governor Commitment Letter.

Also note that the Board of Governors strongly encourages members of under-represented groups who meet the minimum qualifications for the position to pursue this position. **ASCE**

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The vacancy will occur in the following position:  
The Governor #1 position, Governor-at-Large representing all the members of the Region.

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## Message from ASCE Region 3 Director

To all,

*All of you recognize that the economy is in difficult times and that also applies to ASCE. Many members are asking if ASCE is also addressing the financial challenges. The answer is yes. Because year to date revenues are running below budgeted levels and because our reserves are down about 20% due to the stock market fluctuations the ASCE Board of Direction today voted to approve \$3 Mil. of expenditure reductions for the current budget in an effort to finish the 2009 fiscal year at the end of September at a break even point. Many of these actions are things that will not be closely seen by the average member but the cuts are occurring. For example, 21 staff vacancies and 8 more authorized new positions are not being filled. That means more than 1 in 10 normally authorized positions at ASCE are vacant. Another major area of savings is occurring in the publications area. For example, almost \$250K of expenditures planned to move existing paper publications into an electronic format is being halted for the rest of this year. The bottom line is that ASCE is fully cognizant of the economic issues and is working to address them to ensure your dues money is only going for the most important of member services.*

Respectfully submitted,

Tom Walther, P.E., F. ASCE  
Region 3 Director

# Geotechnical Group Monthly Meetings

Gary F. Goodheart, P.E., Patrick Engineering, Inc.

The ASCE Illinois Section Manual of Operations is posted on the section web site. The manual lists the purpose of the Geotechnical Group is to:

- provide programs of interest to Geotechnical Engineers, and an opportunity to meet colleagues working in the progression;
- encourage graduate work in Geotechnical Engineering by awarding scholarships;
- promote the practice of Geotechnical Engineering to the public; and
- coordinate and cooperate with other organizations associated

with the Geotechnical Engineering profession for the benefit of Geotechnical Engineers and to promote the practice of Geotechnical Engineering to the public.

To accomplish these purposes in part and throughout the year, the Geotechnical Group holds monthly dinner meetings. Meetings this year have generally been at Costas Greektown on the second Wednesday of the month, and have included a wide variety of excellent programs:

## December

Speaking on behalf of Engineers Without Borders and Engineering

Ministries International, Rod Beadle (ASCE Member) talked about volunteer work and geotechnical engineering challenges in developing countries.

## January

Joint meeting with North Central Section of the Association of Environmental and Engineering Geologists (AEG). Dr. David Rogers, Professor at Missouri University of Science & Technology, presented an outstanding talk to over 60 engineers and geologists: *William Sooy Smith, Karl Terzaghi, And Ralph Peck: The Origins Of American Foundation Engineering In Chicago.*

(continued on page 12)

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Watearth Presents:

## Advanced Low Impact Design for Sustainable Stormwater Management

*"This was by far the best seminar I have ever attended. The course was very well organized and provided excellent information."*

CHRISTY GABLER, NORTH COAST  
ENGINEERING, PALO ROBLES, CALIFORNIA

**Enhance your expertise in Low Impact Development (LID), including innovative green stormwater techniques, sustainable stormwater management, and the lesser-known Low Impact Hydrologic Concepts.**

- ➔ Gain practical and technical experience through hands-on workshops, case studies, and evaluating complex real life examples
- ➔ Enhance ability to analyze LID and select the best models
- ➔ Learn about techniques for residential, roadway, industrial, and commercial sites
- ➔ Learn strategies to boost the efficiency of LID and/or detention
- ➔ Maximize tools available for stormwater quality treatment and wet weather flows
- ➔ Discover lesser-known LID concepts for reducing peak flows and runoff volume
- ➔ Gain exposure to leading-edge LID techniques used regionally and beyond
- ➔ Learn to interpret, understand, and implement the latest LID research

### Early Bird Specials

Register and pay 30 days prior to program date and **save \$200**

First 10 registrants at each location get a  
**free Rainwater Collection Seminar DVD** (a \$95 value!)

**Chicago: July 23-24, 2009**

**Sacramento: August 27-28, 2009 • Seattle: July 9-10, 2009**

**For more information or to register: email [watearth@watearth.com](mailto:watearth@watearth.com) or call 832-444-0663**

## Section Activities

M A Y / J U N E 2 0 0 9

### Transportation Group

#### Executive Committee Meeting

**Date:** Tuesday, May 5  
**Time:** 5:30 pm to 6:30 pm  
**Place:** CH2M HILL  
8501 W. Higgins Rd., Suite 300  
Chicago, IL 60631  
312-876-9500  
**RSVP:** Srikanth Panguluri at  
[Srikanth.Panguluri@ch2m.com](mailto:Srikanth.Panguluri@ch2m.com)

#### Technical Program

**Topic:** IDOT Engineering Agreements Workshop  
**Date:** Tuesday, May 12  
**Time:** 9:00 am to 4:00 pm  
**Place:** University League Club of Chicago  
Chicago, IL  
**Cost:** \$120 General, \$100 Public Sector Employees  
**PDH:** 6.0 Professional Development Hours will be earned by attendance  
**Registration:**  
<http://www.isasce.org/web/technical/transportation.html>

### Environmental Engineering & Water Resources Group

#### Monthly Group Meeting

**Date:** Tuesday, May 12  
**Time:** 5:30 pm  
**Place:** MWH  
175 W. Jackson Blvd., Suite 1900  
Chicago, IL 60604  
(Use elevator banks on Van Buren side of building)

#### Monthly Group Meeting

**Date:** Tuesday, June 9  
**Time:** 5:30 pm  
**Place:** MWH  
175 W. Jackson Blvd., Suite 1900  
Chicago, IL 60604  
(Use elevator banks on Van Buren side of building)

#### RECARGA 1-Day Workshop Save the Date

**Date:** Friday, July 17, 2009  
**Place:** DuPage County Government Center,  
Wheaton, IL  
**Details:** Details to follow

### Geotechnical Group

#### Monthly Dinner Meeting

**Topic:** Green Piles  
**Speaker:** Thomas Wysocky –  
Thatcher Engineering  
**Date:** Wednesday, May 13  
**Time:** 5:30 pm to 8:30 pm  
**Place:** Costa's (Greektown)  
340 S. Halsted  
Chicago, IL 60661  
**Cost:** \$40 Members with reservations  
\$30 Education/Government  
Employees with reservations  
\$20 Students with reservations  
**PDH:** 1.0 Professional Development  
Hours will be earned by attendance.  
**RSVP:** Please RSVP by to Fran Miller by  
May 9, 2009 at [fmiller@geopier.com](mailto:fmiller@geopier.com)  
or 630-665-8585

### Structural Group

#### Monthly Dinner Meeting

**Topic:** Steel Solution Center FAQ's  
**Speakers:** Kurt Gustafson, S.E., P.E., F. ASCE  
– Director of Technical Assistance,  
American Institute of Steel  
Construction (AISC)  
**Date:** Wednesday, May 13  
**Time:** 5:30 pm  
**Place:** Pazzo's  
311 S. Wacker Dr.  
Chicago, IL 60606  
**Parking:** Self-service parking is available  
south of the building for \$10  
**Cost:** \$40 (\$20 for students) – RSVP on  
or before Friday, May 8, 2009  
\$45 – without / late RSVP  
Please make checks payable to  
ASCE Structural Group

**PDH:** 1.0 Professional Development  
Hours will be earned by attendance  
**RSVP:** Please RSVP by May 8th  
to Victor E. Van Santen at  
[victor.vansanten@hdrinc.com](mailto:victor.vansanten@hdrinc.com)  
or 773-380-7966

#### Monthly Dinner Meeting

**Topic:** Load Testing and Reinforcement of  
a 1920's Vintage Reinforced  
Concrete Building  
**Speakers:** Brian R. Greve, P.E., S.E. – Senior  
Associate, Wiss, Janney, Elstner  
Associates, Inc.  
Adam Allan, P.E. – Midwest  
Regional Director, Fibwrap  
Construction, Inc.  
**Date:** Wednesday, June 17  
**Time:** 5:30 pm  
**Place:** Pazzo's  
311 S. Wacker Dr.  
Chicago, IL 60606

**Parking:** Self-service parking is available  
south of the building for \$10  
**Cost:** \$40 (\$20 for students) – RSVP on  
or before Friday, June 12, 2009  
\$45 – without / late RSVP  
Please make checks payable to  
ASCE Structural Group

**PDH:** 1.0 Professional Development  
Hours will be earned by attendance  
**RSVP:** Please RSVP by June 12th to  
Victor E. Van Santen at  
[victor.vansanten@hdrinc.com](mailto:victor.vansanten@hdrinc.com)  
or 773-380-7966

### Urban Planning & Development Group

#### Monthly Meeting

**Date:** Thursday, May 14  
**Time:** 6:00 pm  
**Place:** Chandler's Chophouse  
401 N. Roselle Rd.  
Schaumburg, IL 60194  
847-885-9009

**Group Outing**

**Details:** Kane County Cougars vs. Timber Rattlers  
**Date:** Friday, June 19  
**Time:** Gates open at 5:30 pm, First pitch at 6:30 pm  
**Place:** Kane County Cougars Stadium  
 Families are welcome  
**Cost:** \$25 including ticket, parking, and dinner  
**RSVP:** Please RSVP by June 1st with Sheri Kosmos at [sheri.kosmos@woolpert.com](mailto:sheri.kosmos@woolpert.com)

**Date:** Wednesday, May 27  
**Time:** 5:30 pm to 7:00 pm  
**Place:** TBD (Downtown Chicago)  
**RSVP:** Ryan Doerrer at 815-744-4200 or [ryan.doerrer@strand.com](mailto:ryan.doerrer@strand.com)  
**Note:** This event topic has not yet been confirmed. Be sure to watch for updates in the YMG email announcements. Contact Shawn Murphy at [sjmurphy@hntb.com](mailto:sjmurphy@hntb.com) to be added to the YMG email list.

**Getting There:** Short walk from almost anywhere in the loop. Accessible from Madison/Wabash CTA stops, Lake or Monroe Red Line stops, and Washington Blue Line stop. Also accessible by many buses.

**Specials:** Free games of bags (cornhole) set up. Free live music until 7 pm, Jameson drinks \$2 off, \$10 32 oz domestic draft beer.

**Additional Info:** Come join us for some fun in the sun! If anyone has trouble finding the group, you can reach Jason Meter on his cell at 919-389-8982. In case of rain, we'll move the outing across the street to Gage Restaurant and Tavern: 24 S. Michigan Ave, Chicago, IL, 60603. Gage is located on the west side of Michigan Ave. between Madison St. and Monroe St.

**Younger Member Group**

**Social Outing**

**Date:** Thursday, May 14  
**Time:** 5:30 pm to ??  
**Place:** Rock Bottom  
 1 W. Grand Ave.  
 Chicago, IL 60654

**Getting There:** Short distance from the loop. Just a few steps from the Red Line Grand stop, also accessible by many buses.

**Additional Info:** Weather Permitting, look for us on the rooftop beer garden. In case of bad weather, look for us around the bar area downstairs. If anyone has trouble finding the group, you can reach Jason Meter on his cell at 919-389-8982

**Green Building Tour**

**Details:** YMG will be taking a guided tour at the Chicago Center for Green Technology. The tour will highlight environmental concerns and renewable energy sources. The Chicago Green Tech campus was renovated using all new Green Technology. Chicago Green Tech is only the third building in the United States to be designed using the highest standards of green technology available. Spouses, significant others, and friends are welcome.

**Date:** Saturday, May 30  
**Time:** 10:30 am to 11:30 am  
**Place:** The U.S. Green Building Council – Chicago Chapter  
 Chicago Center for Green Technology  
 445 N. Sacramento Blvd.  
 Chicago, IL 60612

**Cost:** Free  
**RSVP:** Kurt Mester at 815-744-4200 or [kurt.mester@strand.com](mailto:kurt.mester@strand.com)

**June Outreach Event**

**Info:** YMG is putting together a team for the 16th Annual Chicago Cares Serve-a-thon! Register to join us and create brighter future for more than 30,000 Chicago students. In just one day, Serve-a-thon volunteers build, paint, plant, clean and organize to revitalize the buildings where Chicago's students learn, play and grow. To learn more about this event, go to the Chicago Cares website: [www.chicagocares.org](http://www.chicagocares.org). This is also where you can sign up for the ASCE YMG team. Just click on the Serve-a-thon icon and then "Register". Then you can choose to join an existing team, and type in "ASCE YMG" as the team name to find our team and join.

**Date:** Saturday, June 13  
**Time:** 8:00 am to 3:00 pm  
**Place:** Grant Park  
**Cost:** \$30  
**RSVP:** Carrie Westhoff at 312-291-6571 or [cwesthoff@deichicago.com](mailto:cwesthoff@deichicago.com)

*(continued on page 10)*

**Monthly Dinner Meeting**

**Topic:** Chicago's bid for the 2016 Olympics. You will hear about what the City has been doing to prepare for the Olympics, what challenges are present that have been and still need to be addressed, and why Chicago is an ideal location for the 2016 Olympics.  
**Speaker:** Member of the Chicago Olympic Committee

**Social Outing**

**Date:** Thursday, June 11  
**Time:** 5:30 pm to ??  
**Place:** Park Grill – Outside Millenium  
 11 N. Michigan Ave.  
 Chicago, IL 60602

## Section Activities

(continued from page 9)

### Younger Member Group

#### Golf Outing

**Details:** It's time to dust off your clubs and join us for the Younger Member Group Golf Outing.

**Format:** 18 hole Scramble (foursomes)

**Date:** Saturday, June 27, 2009

**Time:** Consecutive Tee Times starting at 10:42 AM (Plan to arrive at least 30 minutes prior to your tee time)

**Place:** Village Greens of Woodridge  
1575 W. 75th St.  
Woodridge, IL 60517

**Cost:** \$75 per person – includes golf with cart, hot dog lunch and drink tickets, \$15 for golf club rental.

**RSVP:** RSVP by Friday June 12th to Lize Challis at [lchallis@eea-ltd.com](mailto:lchallis@eea-ltd.com) or Jason Meter [Jason.Meter@hdrinc.com](mailto:Jason.Meter@hdrinc.com)

**Sponsorships:** Sponsorships are available.

### Transportation Group

#### Monthly Luncheon

**Topic:** CN / EJ&E Merger

**Speakers:** Jim Kvedaras – Canadian National Railroad

**Date:** Thursday, May 28

**Time:** 11:30 am to 1:30 pm

**Place:** Maggiano's  
516 N. Clark  
Chicago, IL

**Cost:** \$40 members with preregistration  
\$50 non-members and pay at door  
\$15 students

**PDH:** 0.5 Professional Development Hours will be earned by attendance

**RSVP:** Please contact John Green at 630-795-7298 or [jgreen@patrickengineer.com](mailto:jgreen@patrickengineer.com)

### Engineers Without Borders

#### Fundraising Event

**Details:** See Flyer in newsletter and online at [www.isasce.org](http://www.isasce.org)

**Date:** Friday, June 12

**Time:** 6:00 pm to 9:00 pm

**Place:** Hermann Hall Ballroom  
3241 S. Federal St.  
Chicago, IL

### Transportation Group & ITE

#### Monthly Luncheon

**Topic:** Go to 2040 Planning Process

**Speakers:** Bob Dean - CMAP

**Date:** Thursday, June 25

**Time:** 11:30 am to 1:30 pm

**Place:** Maggiano's  
1847 Freedom Drive  
Naperville, IL

**Cost:** \$40 members and non-members  
\$15 public sector employees  
\$12 students

**PDH:** 0.5 Professional Development Hours will be earned by attendance

**RSVP:** Please contact Josh Harris at [jharris@civiltechinc.com](mailto:jharris@civiltechinc.com)



**Save the Date!**  
**ASCE Younger Member Group Golf Outing**

**Date:** Saturday, June 27 2009  
**Time:** 10:00 AM  
**Location:** Village Greens of Woodridge

**\$150 Hole Sponsorships are now available**  
For details, contact Lizé Challis ([lchallis@eea-ltd.com](mailto:lchallis@eea-ltd.com)) or Jason Meter ([Jason.Meter@hdrinc.com](mailto:Jason.Meter@hdrinc.com))

The image features a close-up of a golf club head and a white golf ball with the ASCE logo on a green grassy field. The text is overlaid on the image in a white, sans-serif font.

## UPCOMING EVENTS

### ASCE Illinois Section

93rd Annual Dinner

Wednesday, October 14, 2009

In an effort to inform Illinois Section members of the discussions at the monthly Board meetings, the Section Secretary contributes this monthly article to the newsletter. Any questions or comments on the Board activities are welcome by contacting Bill Cussen, at [Bill-c@haegerengineering.com](mailto:Bill-c@haegerengineering.com).

### ■ *Treasurer's Report*

▲ Treasurer Olson distributed the Treasurer's Monthly Report and Income Statement. The section remains in a healthy financial position. Revenues from National came in this month. Expenditures approved at the last meeting to the local student chapters in the amount of \$4,500 and to the Chicago Architecture Foundation for \$2,500 sponsorship in the 'Chicago Model City' exhibit are reflected.

### ■ *New Business*

▲ The section approved a \$1000 sponsorship to the national conference which will be located in Kansas City. The incoming president and president elect for the IL section will be in attendance.

▲ Student members from IIT gave a presentation on the EWB project co-sponsored in Haiti by the IL Section.

### ■ *Group Report*

▲ All Groups presented a written report outlining previous and current month's activities.

### ■ *Standing Committee Reports*

▲ **Nominating Committee:** Is investigating nominations for next year's board. If any members are interested in being more involved with ASCE please contact Kay Whitlock and CBBEL, 847-823-0500.

▲ **Report Card Committee:** Pre-drafts are being shared with our peer review committee.

▲ **Minority Affairs Committee:** The 2nd Business Partner Symposium is under planning. Volunteers are needed.

### ■ *Old Business*

▲ Sponsorships are still available for the President Elect Dinner. Sign-ups are going slow, likely a reflection of the economy.

▲ An overview was given on the Washington DC fly-in. The section will budget funds on an on-going basis to send the current president and members of the legislative committee.

▲ The IDOT Career fair at McCormick place was a great success and the volunteers from ASCE had one of the more dynamic booths.

The next board meeting is scheduled for Monday, May 4, 2009, 5:30pm at MWH Americas, Inc., 175 West Jackson Blvd, 19th Floor.

*By Bill Cussen, PE, Secretary*  
[bill-c@haegerengineering.com](mailto:bill-c@haegerengineering.com)

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## Geotechnical Group Meetings

(continued from page 7)

**February** - Jeffrey T. Kubes, Attorney at Law, spoke about The Ethics Of The Practice - Keeping Your License Intact.

**March** - Burak Tanyu, Geosyntec Consultants (ASCE Member), spoke on Effective Use of Back Analyses for Landslide Assessment and Rehabilitation (case history of a massive landslide in Pennsylvania).

**April** – Joe Petrich and Sabri Motan, Ph.D, Sargent & Lundy (ASCE Members),

presented an overview of the Qurayyah Project, a 15-unit, simple cycle gas turbine (GT) power plant being constructed on the eastern coast of Saudi Arabia.

**May** – The Geotechnical Group will close the year with a presentation by Thomas Wysocky, Thatcher Engineering (ASCE Member), a long-time Chicago area deep foundation contractor. Tom will speak about the use of “green piles” and his 50 years of deep foundation construction experience.

Starting in the fall 2009, the Geotechnical Group will alternate meetings between the western suburbs and downtown Chicago. The Geotechnical Group welcomes all ASCE members and practicing Geotechnical Engineers to attend our monthly meetings and we invite you to get involved (as an officer, a speaker, or just to network with others in the profession)! Check the monthly newsletter for location, time and program information. **ASCE**

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# Calendar

**2 0 0 9**

May 5	Transportation Group – Executive Committee Meeting	May 30	Younger Member Group – Green Building Tour
May 12	Transportation Group – Technical Seminar	June 9	Environmental Engineering & Water Resources Group – Monthly Group Meeting
May 12	Environmental Engineering & Water Resources Group – Monthly Group Meeting	June 11	Younger Member Group – Social Outing
May 13	Geotechnical Group – Monthly Dinner Meeting	June 12	Engineers Without Borders – Fundraising Event
May 13	Structural Group – Monthly Dinner Meeting	June 13	Younger Member Group – June Outreach Event
May 14	Urban Planning and Development Group – Monthly Dinner Meeting	June 17	Structural Group – Monthly Dinner Meeting
May 14	Younger Member Group – Social Outing	June 19	Urban Planning & Development Group – Group Outing
May 21	ASCE Illinois Section – 15th Annual Golf Outing	June 25	Transportation Group & ITE – Monthly Luncheon Meeting
May 26	Engineers Without Borders – Monthly Chapter Meeting	June 27	Younger Member Group – Golf Outing
May 27	Younger Member Group – Monthly Dinner Meeting	July 17	Environmental Engineering & Water Resources Group – RECARGA Workshop
May 28	Transportation Group – Monthly Luncheon Meeting	Oct. 14	ASCE Illinois Section – 93rd Annual Dinner

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PLEASE VISIT [ISASCE.ORG](http://ISASCE.ORG) FOR MORE  
INFORMATION REGARDING ILLINOIS SECTION  
ACTIVITIES AND EVENTS

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# The Environmental Engineering and Water Resources Technical Group

## Designing Bio-Infiltration BMPs with RECARGA

The Environmental Engineering and Water Resources Technical Group of the Illinois Section of ASCE is pleased to present a full day training class: "Designing Bio-Infiltration BMPs with RECARGA." The training class will feature presentations from Linda Severson (one of the RECARGA Model developers), regulatory agencies involved with the current 404 permit process, and local design consultants.

The full day training class will provide each participant insight into:

- The evolving regulatory requirement to address infiltration in the USACE 404 permit process
- The design of infiltration BMPs in Low Impact Developments with local design examples
- Using RECARGA to design infiltration BMPs
- Comparing pre-development and post-development infiltration rates

**Date & Time :**        **July 17, 2009**  
                                      **8:00 pm – 4:00 pm**

**Location:**        DuPage County Government Center (Jack T. Knuepfer Admin Bldg)  
                                 Auditorium (First Floor)  
                                 421 N. County Farm Road  
                                 Wheaton, IL 60187

Each attendee will receive a certificate for 8 PDHs as part of the seminar. Registration includes meals (breakfast & lunch) and flash drive with electronic copy of all presentation material. For more information, please contact Matthew Bardol at [Matt.Bardol@CGL-LTD.COM](mailto:Matt.Bardol@CGL-LTD.COM) or at 630-438-6273.

### **Registration Form**

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Registration is required by close of business on **Friday, June 26th, 2009.**

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

**ASCE Member / Government Employee** (\$140) Please provide ASCE #: \_\_\_\_\_.

**Non-ASCE Member** (\$150)

Amount Enclosed: \$ \_\_\_\_\_

Send completed form and check made payable to "EE&WR" to:

EE&WR c/o Cowhey Gudmundson Leder, Ltd, Attn: Matthew R. Bardol, 300 Park Blvd, Suite 205, Itasca, IL 60143. Phone: (630) 438-6273 Fax: (630) 250-9644