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# ASCE

## Southeast Michigan Branch

*The Official Newsletter of the American Society of Civil Engineers SE Michigan Branch April 2006*

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Dear ASCE Southeast Michigan Branch members:

Greetings from your Southeast Michigan Branch of the American Society of Civil Engineers. Spring is here, and our annual meeting is just around the corner!!

### Chapter News

On March 9, about 50 ASCE members met at Nikki's in Detroit to hear a presentation on dynamic pile testing methods. The presentation was interesting and provided our geotechnical engineering members with updated information on this developing test method.

On March 23, 2006, the NEW MDOT Director Mr. Kirk Steudle gave an overview of the "SAFETEA-LU" legislation and what affect it will have on future MDOT projects. The event was well attended, and allowed our members to get up-front and personal contact with the new director.

A tour and program on the South Lyon WWTP was held on April 4. Attendees toured the plant and then met at the South Lyon Hotel for a presentation on this very innovative project.

### Branch Awards

On April 7, the executive committee met to review and judge the submittals for the various chapter awards. The competition was extremely tight, and the choices difficult, but the final winners were:

Outstanding Civil Engineering Achievement: MDOT and Wilcox Engineering for I-94 Reconstruction between the Rouge River and Wyoming. This \$50 million project included several unique innovations including the in-place reconstruction and raising of a railroad bridge, saving the owner \$10 million.

Quality of Life: DWSD and NTH Consultants (together with Spalding Dedecker and others) for the emergency design and reconstruction of the Romeo Arm Interceptor, which collapsed on August 22, 2004, jeopardizing sewer service over a 55 square mile area of Macomb County. This 24/7 emergency project involved the design and construction of a 100 cfs on-line pumping station and bypass within 30 days of the tunnel collapse, together with the tunnel repair and restoration of the site within 10 months.

Civil Engineer of the Year: Tom Maxwell is an associate with HRC in Bloomfield Hills, and has been extremely active in the ASCE Southeast Michigan Branch for the last 15 years. He is the current secretary for the Michigan Section of ASCE.

Young Civil Engineer of the Year: Brian Volpe with Ruby Associates is a 1999 graduate of LTU, current project manager and has managed a number of notable structural engineering projects including the innovative erection sequence for the award winning I-94/Telegraph bridge.

### Upcoming Meetings

We are pleased to present several great upcoming ASCE Southeast Michigan Branch events and related programs:

On April 26, the geotechnical committee will present a presentation of the innovative commercial development of "Fairlane Green", which was build over an industrial landfill in Dearborn Michigan. See the attached flyer for details.

On May 3, the Environmental Committee will also present a tour and lunch program on the state-of-the-art Conner Creek CSO Control Facility in Detroit. See the attached flyer for details.

The Annual Meeting will be May 6, 2006 at the Renaissance Club in Detroit. Mark your calendars and make your reservations now! Flyer is attached.

Mark your calendar for the famous CYM golf outing at Greystone Golf Course, Romeo, MI on June 22, 2006!!!! Flyer attached.

### CYM Corner

The Committee on Younger Members (CYM) has been growing in numbers. There were 15 young engineers in attendance at our last meeting! With more young engineers showing interest in ASCE we are able to become more involved as an organization by hosting professional and social events and

giving back to our communities. There are a number of ways in which CYM works to accomplish these things through programs like adopt-a-highway and habitat for humanity. Some of our recent and upcoming events are demonstrated below.

The annual Student Night was held this year on February 22<sup>nd</sup> and was a great success. The evening included exhibits from various engineering firms, a wonderful presentation by Dr. Thomas Wolff on the performance of New Orleans Levees during hurricane Katrina and a competitive game of engineering Jeopardy. Congratulations to Wayne State University for winning the Jeopardy game and to Wendy Rodriguez of Wayne State University who was awarded the annual Student Scholarship worth \$1000!

CYM has recently created and Outreach Program aimed to spark interest in engineering with elementary level children. The first program took place last fall with the Grosse Pointe area cub scouts and helped them earn their engineering badges while having fun and learning about engineering. The program included some introductions about what engineers do and lead into the lesson about bridge basics. The scouts were able to design their own suspension bridge, build it out of two chairs, a piece of cardboard, 2 long ropes and 10 thin strings, then load it to failure. The program went very well and the scouts had a lot of fun. CYM is planning another Outreach Program this spring with more information to come!

CYM will be doing some spring-cleaning on August 29<sup>th</sup> on 12 Mile Road for the adopt-a-highway program. Our stretch of 12 Mile Road is between Novi Road and Haggerty Road in Novi. We will be meeting at the Ruby Tuesday restaurant lot on the southwest corner of 12 Mile Road and Haggerty Road at 9:00AM. All are invited to come by and lend a hand!

On August 4<sup>th</sup>, CYM is planning a Tigers Game social outing against the Cleveland Indians. The outing will include a pre-game social meeting at a restaurant near the stadium and is open for all ASCE members to enjoy a Friday night at the ballpark. More information will be forthcoming!

If you are interested in more about what CYM does or are thinking about getting involved yourself, check out the website at

<http://www.ascsesoutheast.org/cym/cym.htm>.

Submitted by Jacob Rushlow, CYM President

### **Board Meetings**

Board meetings are held monthly and are tentatively scheduled for the first Thursday of each month. The next meeting (our last for the year) will be held in the afternoon, 4pm on May 11, at the Blarney Stone Pub on Woodward in Berkley. All members are welcome to attend the Board meeting. Come join us!!

### **Branch Mailing**

**Remember, starting this fall the Branch has design distributing the monthly mailing.** Please continue to update you email address with the current President-Elect ([fklingler@nthconsultants.com](mailto:fklingler@nthconsultants.com)) if it should change, and visit our website: ([www.ascsesoutheast.org](http://www.ascsesoutheast.org)). The southeast Branch of American Society of civil engineers publishes the Southeast Branch Newsletter almost monthly. Contact Fritz Klingler, editor, for info, suggestions or comments at [fklingler@nthconsultants.com](mailto:fklingler@nthconsultants.com).

### **Dates to Remember**

Next SE Michigan Branch Board Meeting; last of the year (Blarney Stone pub in Berkley @4:00 pm)	May 11, 2006
Fairlane Green Development	April 26, 2006
Conner Creek CSO Facility	May 3, 2006
Southeastern Branch Annual Meeting	May 6, 2006
Tri-Centennial Park Program (tentative)	June 20, 2006 (Tentative)
CYM golf Outgoing – Greystone Golf Course, Romeo	June 22, 2006
CYM Event – Tigers vs. Cleveland Indians	August 4, 2006 (Friday)
Michigan Section Annual Meeting	September 2006 (TBD)



ASCE SOUTHEASTERN BRANCH GEOTECHNICAL COMMITTEE  
Presents:

**FAIRLANE GREEN DEVELOPMENT**  
**Former Allen Park Clay Mine Landfill**

**PRESIDENT**

Jerry Luttman, P.E.  
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248-569-5564 (fax)  
luttman@pbworld.com

**PRESIDENT-ELECT**

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**IMM. PAST-PRESIDENT**

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**Technical Activities**

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586-569-5000  
586-569-0119 (fax)  
jvandecreek@hrc-engr.com

**Branch Website**

<http://www.ascesoutheast.org>

The "groundbreaking" development of a retail shopping center at the site of the former Ford Allen Park Clay Mine Landfill will be presented. As part of the presentation, the very innovative site improvements incorporated to allow the use of conventional strip/isolated footings will be discussed. The use of surcharging and lightweight fill (geofoam) to mitigate settlement concerns will be detailed. The presentation will also include a discussion of other design features that have been incorporated to allow building on a former landfill site including methane gas management and waste intrusions. Mark Tomy, P.E., (Fordland's Real State Development Manager) and Ibraheem Alshunnar, P.E. (NTH's Project Manager) will facilitate the presentation and following discussions.

Date: Wednesday, April 26, 2006

Dinner & Program: PizzaPapalis Dearborn  
22022 Michigan Ave.  
Dearborn, MI

Agenda: 5:30 pm - Cash Bar  
6:15 pm - Dinner  
7:00 pm - Program  
8:10 pm - Program Conclusion

Cost: \$15 per person for dinner - Register by April 14, 2006

Please make reservations before April 14, 2006, by calling Lashanette Howell at 313-237-3914 and sending your check to:

NTH Consultants  
Attention: Jason Edberg  
480 Ford Field (Gate G)  
2000 Brush Street  
Detroit, Michigan 48226

Make Check Payable to ASCE Southeastern Branch and indicate on the check the date and title of the program you will be attending.

If you have questions, please contact Jason Edberg at (313) 237-3941.



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**THE ENVIRONMENTAL COMMITTEE PRESENTS:**

**THE CONNER CREEK CSO FACILITY**

This tour will visit DWSD's 30-million-gallon combined sewer overflow (CSO) treatment facility at Conner Creek. This facility is sized for a peak design flow of 13,262 cubic feet per second (8,600 mgd) and provides: screening, skimming, settling, and disinfection with 5 minutes of contact time at peak flow of CSO prior to discharge to Conner Creek, a tributary of the Detroit River. This facility, which will improve water quality in Conner Creek, is unique in that it is capable of treating the largest CSO discharge in Michigan at the largest retention basin in Michigan. The Conner Creek CSO Control Facility was placed into operation in July 2005. Visitors will be able to view the facility and weather permitting the interior of the retention basin.

**Presenters:** Mirza Rabbaig, DWSD  
and Khamis Al-Omari, Hazen & Sawyer

**Const. Cost:** \$186.5 Million

**Owner:** Detroit Water and Sewerage Department  
**Engineer:** Hazen and Sawyer  
**Contractor:** Walsh Construction Company

**Date:** **Wednesday, May 3, 2006**

<b>Place:</b>	<u>Site Tour</u> Conner Creek CSO 11900 Freud Detroit, MI 48214	<u>Lunch</u> Sinbad's 100 St. Clair Detroit, MI 48214 313-822-8000
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<b>Agenda:</b>	10:00 a.m.	Site Tour of CSO Facility <i>(Please bring a hard hat and boots.)</i>
	12:00 noon	Meet at restaurant; presentation

**Cost:** \$17.00 per person

Please mail checks payable to:  
ASCE Southeastern Branch  
c/o Spalding DeDecker Associates, Inc.  
Attn: Ketan Dave  
220 W. Congress , Suite #400  
Detroit, MI 48226

**R.S.V.P. By:** **April 26, 2006**

<b>Contacts:</b>	Ketan Dave	or	Sally Duffy
	Ph: (313) 967-4700		Ph: 248-454-6583
	Email: kdave@spaldingdedecker.com		Email: sduffy@hrc-engr.com



## ASCE Southeastern Michigan Branch 2006 Annual Meeting

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#### Branch Website

<http://www.ascsesoutheast.org>

**Date:** Saturday, May 6, 2006

**Place:** Renaissance Club  
200 Renaissance Center  
Suite 3600  
Detroit, Michigan 48243  
T (313) 259-4700  
[www.therenaissanceclub.com](http://www.therenaissanceclub.com)

<b>Program:</b>	5:30 p.m. to 6:30 p.m.	Welcome Reception (Cash bar will be available throughout the evening)
	6:30 p.m. to 7:30 p.m.	Dinner
	7:30 p.m. to 8:30 p.m.	Program includes: - Tom Trice, Past President, APWA <i>Katrina Disaster Recovery</i>  - ASCE SE Branch Awards Presentation - 2006-2007 Board of Directors Induction
	8:30 p.m. to 9:30 p.m.	Afterglow
<b>Cost:</b>	Reception & Dinner	\$65 Per Person
	Students ½ Price	\$32 Per Person

Please complete the attached reservation form enclosed with this flyer indicating persons attending and **return the form by April 28, 2006**. Checks should be made payable to ASCE Southeastern Michigan Branch and noted "Annual Dinner".

#### Please mail checks to:

ASCE Southeastern Branch  
c/o Orchard, Hiltz & McCliment, Inc.  
34000 Plymouth Road  
Livonia, MI 48307

If you have any questions, please contact Kent at:  
Phone: (734) 522-6711  
Fax: (734) 522-6427  
Email: [early@ohm-eng.com](mailto:early@ohm-eng.com)

Attention: Kent Early, PE

#### Directions to the Renaissance Club

The Renaissance Club is located on the 36<sup>th</sup> floor of Tower 200 of the Renaissance Center in the heart of downtown Detroit. The Club has unparalleled views of the Detroit and Windsor skyline as well as Lake St. Clair, Belle Isle and the Detroit River.

Parking is available at the Marriott Hotel valet as well as in the self-park Port Atwater garage on Beaubien. See map on the back of this flyer.

**ASCE Southeastern Michigan Branch - 2006 Annual Meeting**  
**Saturday, May 6, 2006**  
**Registration Form**

Please indicate the type and number of dinner selections for persons attending the 2006 Annual Meeting:

Choose one (1) dinner entrée for each person attending:

- \_\_\_\_\_ 1. New York Sirloin Strip
- \_\_\_\_\_ 2. Grilled North Atlantic Salmon
- \_\_\_\_\_ 3. Chargrilled Chicken with Shiitake Mushrooms
- \_\_\_\_\_ 4. Vegetarian – Spinach Ravioli

Persons Attending

(\$65 / Person or \$32 / Student):

Company Name:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (Guest)

Donation Amount: \_\_\_\_\_

Total Enclosed: \_\_\_\_\_

Please return this response no later than April 28, 2006 to:

Attn: Kent Early, PE  
Orchard, Hiltz & McCiment, Inc.  
34000 Plymouth Road  
Livonia, MI 48150

Phone: 734-522-6711  
Fax: 734-522-6427  
[early@ohm-eng.com](mailto:early@ohm-eng.com)

***The Renaissance Club***  
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