

## SWE Officers

2010-2011

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Hello Everyone,

Thanks to everyone who attended the February meeting at the Machine Shed in Davenport. We had a great turnout and a wonderful speaker in Ginny Wilson-Peters. She talked about understanding our own leadership style and developing our personal mission statement, and the steps she has taken to discover hers. Thank you to Sunny Hubner for setting up the meeting!

This month's meeting involves a technical speaker, B. Andrew Price from Stanley Consultants, who will talk about sustainable design, including where the design and construction industry is headed. I look forward to learning about this topic and hope to see you at Stanley Consultants in Muscatine on the 23<sup>rd</sup> -more details on page 2!

There are a few volunteer opportunities coming up. Our section is hosting a Girl Scout outreach event on April 10<sup>th</sup> at St. Ambrose. We are putting on six activities for them and anyone who would like to help out should contact Donna Jones. The QCESC is hosting a 'Buoyancy Battle' at the Putnam Museum in conjunction with the Titanic display for families on April 2 and are looking for people to help plan the event and participate on that day. Please contact Brenda Frye to help out.

Lastly, if you would like to become more involved with SWE in any way, there are several cabinet positions available. Please contact me directly if you have any questions or would like to put your name on the ballot. The ballot will be finalized in April and next year's cabinet announced in May.

Stay Classy SWE,

*Megan*

Megan Mathias  
President

# March SWE Meeting Sustainable Design

Where is the Industry leading us? Will you follow or be left behind?

B. Andrew Price  
P.E., LEED AP BD+C

Mr. Price is a professional engineer and has spent most of his career researching, designing, and advocating energy efficient HVAC systems and building controls. He is currently serving as Region VI Student Activities RVC and is a voting member and research subcommittee chair of ASHRAE TC 2.08 Impact of Buildings on the Environment. He serves as a Project Principal for Stanley Consultants.

**Technical Topic:** The environmental impact of the building design, construction, and operations industry is enormous. Development frequently alters land from natural, biologically diverse habitats to hardscape that is impervious and void of biodiversity. Buildings in the United States are responsible for 39% of CO2 emissions, 40% of energy consumption, 13% water consumption, and 15% of GDP per year, making green building a source of significant environmental opportunity. This presentation gives an overview of where the building industry is heading in regards to energy consumption and design practices. ASHRAE Standard 189.1-2009, ASHRAE Standard 90.1-2010, and USGBC LEED-2009 will be discussed.

Date: Wednesday, March 23, 2011

Time: 6pm

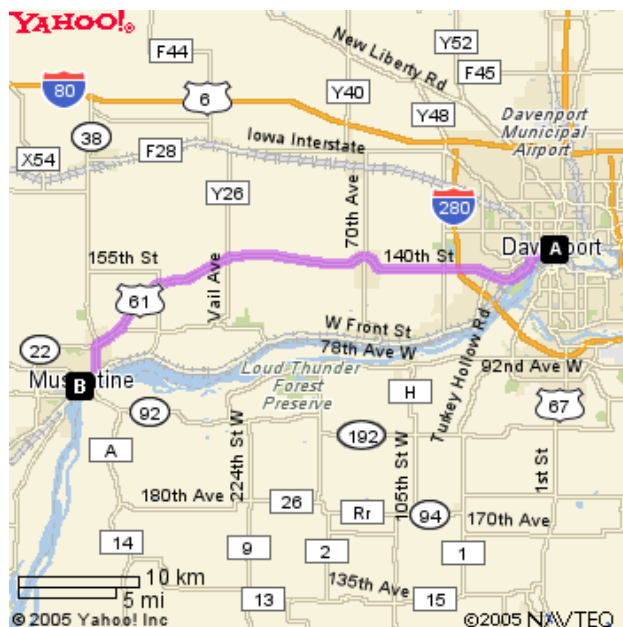
Catering by: Sweet Basil

Cost: \$10/person

Menu: Beef Stroganoff with Pasta, Garden Salads, Mini Croissants & Mini Dessert Buffet

RSVP: Nancy Shell at [shellnancy@stanleygroup.com](mailto:shellnancy@stanleygroup.com) by 5pm on Monday, March 21, 2011

Location: Stanley Consultants Auditorium, 225 Iowa Avenue, Muscatine, IA 52761



## Upcoming Events!

### Girl Scout Badge Workshop!

Our Section is sponsoring the Making It Matter workshop on April 10, 2011, which is a great engineering opportunity allowing girls to earn the Making it Matter badge in a single afternoon. It will be held at the Rogalski Center, 518 W. Locust St., Davenport, IA. Volunteers are needed to assist with the activities. If you know scout leaders that wish to register their girls, send an E-mail to [donna.m.jones@usace.army.mil](mailto:donna.m.jones@usace.army.mil) to reserve slots for the workshop. Once they have received confirmation of slots, they can mail the registration form & non-refundable registration fee NLT March 25, 2011 to: SWE, P.O. Box 235, Bettendorf, IA 52722. Registration fees are \$8/girl, \$4/adult - limited to 75 girls. Registration the day of the event starts at 12:30. Workshop/activities start at 1 pm and will conclude around 4:30 pm. The Making it Matter Badge is a Junior level badge.

Contact Donna Jones if you would like to help plan the event or lead an activity!

If you wish, we will be conducting dry runs for the activities on March 26, 2011 between 9am and noon at the conference room at the offices of Jacob and Hefner. Please notify Angel Jacobs and Donna Jones if you plan to attend.

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**The regional SECME Mousetrap Racecar Competition** for Iowa and Illinois will be held on April 9, 2011 at Williams Intermediate School in Davenport.

Judges are needed for the categories of Team Interview, Technical Reports, Technical Drawing, and Construction and Operation. Fourteen judges are needed for this event to run smoothly and within the time frame allotted.

The competition will begin promptly at 8:45 a.m. and conclude no later than 12:30 or 1:00 depending on the number of teams that register. Judges will need to arrive at Williams Intermediate by 8:00 for training in the category they will be judging.

If you are interested in judging this event, please contact Kimberly Gasaway no later than Friday, March 25.

Kimberly Gasaway

Science Curriculum and Instructional Specialist, PreK-12, Davenport Community School District

563-336-3822 office

[gasawayk@davenportschools.org](mailto:gasawayk@davenportschools.org)

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Volunteers needed for the 4/2/11 **Buoyancy Challenge**.

- ONE set (maybe 5?) of interactive classroom experiments demonstrating various aspects of buoyancy for those who elect to participate in a experiential-based (trial and error) attempt to create a boat that can hold the greatest amount of weight from a standardized set of (unknown materials) - 30-45 minutes. This would be followed by the actual "Challenge" of creating and testing said craft in a predetermined time period (TBD).
- ONE classroom session to demonstrate these aspects in a more formal lecture setting, demonstrate the practical application of buoyancy in Engineering problems and how to figure these things out. This will be followed by a similar challenge at a higher level that will require building a craft and meeting a predetermined "freeboard" goal with a stated load, in a predetermined time frame.

The elapsed time of the activity is not expected to exceed 2 hours. Volunteers should not expect to be tied up for more than 4 hours. We'd prefer for this activity to either be completed by or started after lunch. If interested in volunteering, please contact Brenda Frye [FryeB@honcompany.com](mailto:FryeB@honcompany.com)

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### Fundraiser! Flower Bulb Sales

Don't forget to bring your flower bulb sales forms & money to the March meeting or return to Angel Jacobs by no later than April 1<sup>st</sup>!

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### Muscatine Science Fair

The Muscatine Chapter of Iowa Engineering Society (IES) is looking for help with its' upcoming Muscatine Science Fair. The IES Science Fair is tentatively scheduled for the afternoon of Friday, March 25th, 2010 in the Muscatine Mall. If you or ANYONE you know could help judge, please let the IES Science Fair Chairperson, Ben Niedergeses, know at [niedergesesben@stanleygroup.com](mailto:niedergesesben@stanleygroup.com), or by phone at (563) 264-6277.

If you have any questions on SWE members volunteering or for further updates, contact Nancy at [shellnancy@stanleygroup.com](mailto:shellnancy@stanleygroup.com).

### **Iowa SWE Conference**

Iowa SWE Conference – Saturday, April 9  
 The Hotel at Kirkwood Center in Cedar Rapids, IA  
 9am – 4:30pm

The East Central Iowa SWE section is planning an all-Iowa SWE conference that will include the Quad Cities/Muscatine, East Central Iowa, Cedar Valley, and Heart of Iowa Sections, as well as local collegiate sections. They have great workshop sessions planned, keynote speaker Gayle Roberts from Stanley Consultants, and a technical tour of green technology within the Kirkwood Hotel and conference center. The cost is \$30 for the registration which includes breakfast, lunch, all of the speakers and sessions, and a t-shirt. Registration is due by March 28.

### **Follow-up Notes!**

#### **IIE Engineering Trivia Night!**

The SWE team placed first! Congratulations to the SWE TEAM!

#### **Engineer’s Week (February 20-26, 2011)**

Several SWE members attended the Banquet Thursday, February 24<sup>th</sup>-with speaker & all engineering societies. Here are some photos from the event. Brenda Frye handed out a scholarship & SWE had a display at the event.

**At right, Quad City/Muscatine SWE members who attended the Region H Conference.**



<b>SWE 2010-2011 Meeting Schedule*</b>			
<b>Date</b>	<b>Topic</b>	<b>Planner</b>	<b>Location</b>
Wednesday, March 23, 2011	LEED Speaker-Andrew Price	Nancy Shell	Muscatine
Tuesday, April 26, 2011	Genesis Robotics Tour	Donna Jones	Davenport
TBD Date near end of May	Family Night @ QC River Bandits	Renee Mance	Davenport
*Depending on facility availability meeting topics may change.			

### **Help Plan a Meeting!**

Know of a great meeting place? Want to help plan a meeting? Please consider volunteering to help plan a meeting. There are several meetings that are in need of a meeting place and someone to coordinate them. If interested in being involved, contact Megan Mathias at [MathiasMeganC@JohnDeere.com](mailto:MathiasMeganC@JohnDeere.com). Thanks!!

**We are currently taking nominations for the 2011-2012 SWE Cabinet.  
Please consider volunteering for a position!  
Ballot will be finalized in March, new cabinet announced in May.**

SWE Cabinet Positions:

***President's Duties***

1. Leadership of the section
2. Prepare agendas for monthly section meetings
3. Prepare agendas for monthly cabinet conference calls
4. Attend and facilitate section meetings
5. Assume all other executive duties not otherwise delegated
6. Coordinate all activities and execute the business and policies of the section between meetings

Estimated time commitment ~ 12 hrs/month

***Vice President's Duties***

1. Organize the planning of monthly meetings (Note: This does not mean you have to plan every meeting. We will continue to use volunteers to plan each meeting.)
2. Perform all duties of the President in her absence
3. Attend monthly section meetings and cabinet conference calls
4. Take on the Presidential Role the following year

Estimated time commitment ~ 4 hrs/month

***Secretary's Duties***

1. Record and distribute meeting minutes to section cabinet
2. Publish and distribute the monthly newsletter
3. Attend monthly section meetings and cabinet conference calls

Estimated time commitment ~ 6 hrs/month

***Treasurer's Duties***

1. Prepare, maintain, and report on the financial position of the section
2. Maintain the membership spreadsheet for the section
3. Attend monthly section meetings and monthly cabinet conference calls

Estimated time commitment ~ 4 hrs/month

***Section Representative's Duties***

1. Report to the section on the business matters received through correspondence from national and the region
2. Represent our section at the Council of Representatives (2 meetings per year, 1 at the Region Conference and 1 at the National Convention)
3. Attend monthly section meetings and monthly cabinet conference calls
4. Participate in regional conference calls (approx. once a quarter)
5. File quarterly section reports with the Region Director to send to the Board of Directors

Estimated time commitment ~ 5 hrs/month

***Quad Cities Engineering and Science Council Representative***

1. Represent SWE at Quad Cities Engineering and Science Council monthly meetings
2. Attend monthly section meetings and monthly cabinet conference calls

Estimated time commitment ~ 4 hrs/month

***Outreach Committee Chair***

1. Lead outreach committee
2. Coordinate outreach events
3. Attend monthly section meetings and monthly cabinet conference calls

Estimated time commitment ~ 3 hrs/month

***Webmaster***

1. Update and maintain the section's web page
2. Attend monthly section meetings and monthly cabinet conference calls

Estimated time commitment ~ 3 hrs/month

# Project Lead The Way Trivia Night Fundraiser



Sponsored by the Project Lead The Way Advisory Council

**Saturday, March 12, 2011**  
**St. Ambrose Rogalski Center**

518 W. Locust, Davenport  
(Enter off of Lombard Street)

**Doors Open/Beverages Served: 6 p.m.**  
**Questions Start: 7 p.m. (10 rounds of 10)**  
**\$10/Person (maximum of 8 per table)**

Feel free to bring your own food.  
Pizza orders can be placed up until 6:30 p. m.  
We ask that you refrain from bringing beverages.

**To reserve a table contact:**

Kay Pethoud: (563) 336-5030  
pethoudk@davenportschools.org  
Pay at the event (checks payable to PLTW)

**Support a worthy cause and have fun doing it!**  
**Tell all your friends!**

**Raffle**



**Silent Auction**

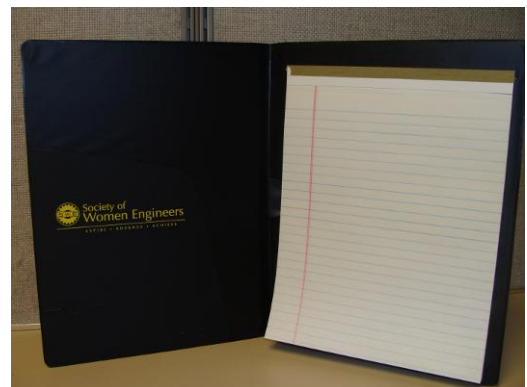
PLTW is a nationally recognized engineering program offered at Davenport Central, North and West H.S. Students learn about a wide variety of engineering-related careers. Proceeds from the fundraiser will directly benefit students, supplementing such activities as robotics competitions, engineering clubs, and PLTW Summer Camp.

## Membership info:

You can join SWE on the web. Go to <http://www.swe.org/membership>. Follow the easy instructions from there to join or renew your membership. Forms can either be printed or you can join online. The Online Application for new members will take you approximately 20 minutes to fill out. Keep in mind that many companies will pay dues for professional organizations, so be sure to ask!

Once you are a SWE member, you will then be able to log into the member directory to update your registration and search for other SWE member contact information. You will be helping not only yourself, the regional organization and the national organization, but you will also be helping our section. Twenty percent of the funds comes back to our section.

## SWE Portfolios for Sale:



Cost is \$10 each; they are available at meetings and through Angel Jacobs  
[ajacobs@jacobandhefner.com](mailto:ajacobs@jacobandhefner.com)