EASTERN CHAPTER NEWSLETTER



NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

MARCH 7, 2014

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PO BOX 1512 SIOUX FALLS, SD 57101

The Engineering Informer

INSIDE THIS ISSUE: TREASURER'S 2 REPORT CALENDAR 2 ITEMS AWARDS 3 WINNERS E-WEEK 4 MATHCOUNTS 6 MEMBER BIO 7 **WEBEX LOGIN** 8 8 **ADVERTISMENTS** 9

WebEx: this month's presentation will be broadcast on WebEx so please plan on tuning in on the web if you can't be here in person! See the instructions on how to use WebEx on page 6 of this newsletter.

IMPORTANT NEWS

NEXT MEETING:

March 11th, 11:30 AM @ Pizza Ranch on 41st Street

- Galyn Huber with the City of Sioux Falls will be discussing snow removal and snow gates.

NEW MEMBERS:

- Tanya Miller, Banner Associates
- Troy Miller, City of Sioux Falls
- Eric Hanson, HR Green

PRESIDENT'S COLUMN BY PHIL GUNDVALDSON-PE

Hello chapter members. Our chapter has had a very busy February. A big thank you to Erin Steever for heading up the planning of E-Week activities and the Annual Eastern Chapter Awards Banquet. It sounds like the kids had a great time exploring engineering and hearing about what we do as engineers. I also want to say "Thank You" to all other members of our society who volunteered their time and illustrated their commitment to our chapter and the engineering profession.

I enjoyed catching up with many of you at the Awards Banquet. Congratulations to this year's award winners:

- Young Engineer of the Year Wes Philips with the City of Sioux Falls
- Engineer of the Year Allen Rude with Cretex Concrete Products

The Outstanding Engineering Achievement Award was awarded to both the Baltic Bridge Replacement completed by HDR Engineering in cooperation with Minnehaha County and the I-90 & Cliff Avenue Interchange Reconstruction Project completed by McLaury Engineering, Inc. and the South Dakota Department of Transportation. Two great projects whose economic impact cannot be overstated.

Good luck to all our chapter winners as they complete for the state awards at the annual conference in April. I foresee an Eastern Chapter sweep at the state level...

Please join me in welcoming the following new members to our society:

- Tanya Miller with Banner Associates, Inc.
- Troy Miller with the City of Sioux Falls
- Eric Hanson with HR Green, Inc.

The Mathcounts competition was held on February 20th. Please take the time to read through the article regarding the competition found later in this newsletter.

Here are the details for the month ahead for our society:

The next monthly meeting is Tuesday, March 11th at the 41st street Pizza Ranch at 11:30. City of Sioux Falls Street Superintendent Galyn Huber will be discussing snow removal and the future of snow gates. Perhaps this will educate us before we head to the polls in April to decide the future of snow gates within the City? Thanks to Shannon Ausen with the City of Sioux Falls for her presentation last month on upcoming design and construction projects for the City of Sioux Falls and South Dakota Department of Transportation. The March meeting will be available live via WebEx.

The 2014 Annual Conference will be held April 16th - 18th at the Downtown Holiday Inn City Centre. In addition to having the conference at a new venue, we have also lined up very interesting and exciting topics. The registration forms have been sent out and you can register online at www.sdes.org.

Thanks everyone and I look forward to seeing you at the Pizza Ranch!

Phil Gundvaldson

TREASURER'S REPORT

BY LANCE WEATHERLY, PE

Balance as of 2/28/2014			
Previous General Fund Balance 2/1/2014		\$	19,613.34
Expenses: C.J. Callaways (Conf. Planning Meal) Scheels (Banquet Gift Card) speaker lunch Petty cash banquet Washington Pavilion - Alliance for Science donation CTE Academy donation	\$ (5 \$ (1	•	
Total		\$	(2,304.89)
<u>Deposits:</u> Petty cash Banquet Banquet revenue Banquet revenue	•	200.00 300.00 50.00	
Total		\$	1,050.00
Total General Fund		\$	18,358.45
Previous Scholarship Fund Balance 2/1/2014 Expenses:		\$	9,799.23
<u>Lxpenses.</u>			
Total		\$	-
<u>Deposits:</u>			
Total		\$	-
Total Scholarship Fund		\$	9,799.23
Total Account Balance		\$	28,157.68



IMPORTANT Calendar Items

EASTERN CHAPTER MEETINGS:

- March 11, 11:30 @ Pizza Ranch on 41st Street
- April 8, 11:30 @ Pizza Ranch on 41st Street

SDES Annual Conference

April 16–18, 2014 Downtown Holiday Inn City Centre, Sioux Falls

EASTERN CHAPTER AWARDS-BRAD LUDENS, PE

Outstanding Engineering Achievement

I-90/Cliff Avenue Interchange Reconstruction McLaury Engineering/SDDOT (joint recipients)



Young Engineer of the Year Wes Philips, PE, City of Sioux Falls



Baltic Bridge Replacement HDR Engineering



Engineer of the Year

Allen Rude, PE, Cretex Concrete Products (retired)



Scholarship Winners

Cody Reed, Elk Point-Jefferson High School Jacob Reeves, Avon High School Thomas Punt, Stickney High School



E-WEEK 2014 CELEBRATED THROUGHOUT THE MONTH OF FEBRUARY—ERIN STEEVER, PE

SDES teamed up with the Kirby Science and Discovery Center (KSDC) to once again celebrate engineering in 2014. The goal of E-week for SDES is to increase awareness to the field of engineering to students and to the general public, as well as to acknowledge the local presence of engineers and engineering projects in South Dakota.

Free First Friday's at the KSDC and Washington Pavilion was held on Friday, February 7th from 5pm to 8pm. Five volunteers from SDES and several KSDC staff helped those in attendance celebrate and discover engineering through hands-on experiments, teamwork challenges, and engaging demonstrations. The demonstration covered a bunch of engineering disciplines and ended with the guest engineer (me) asking the crowd to think about where their water comes from and exploring the Sioux Fall and Lewis & Clark Regional Water System's 3 Million Gallon water tower at 85th Street in Sioux Falls. The crowd was shown pictures from construction, and given the opportunity to try on a hard hat, safety vest, and a safety harness. Six activity stations were set up in the area that had the kids and their parents exploring roller coaster design, bridges, and soundproofing to name a few. In the lobby, the First Tech Challenge's *Fellowship of the Loose Screws* Robotics Team had their practice ring and robot set up and moving for people to see, and Sioux Falls New Technology High School students were there to display their Art Electric Projects. The students designed and constructed their own works of art incorporating light sources, switches and batteries.



SDES Donation to achieve Alliance for Science Status



Demonstration by Kirby Science Center covering several different engineering disciplines



First Tech Challenge Robotics Team Field and Robot



A guest trying on a hard hat and safety vest after the demonstration



Glue is the Clue Bridge Activity



Tumbling Tower Activity

Thank you to the Washington Pavilion and KSDC staff, the Fellowship of the Loose Screws (Robotics Team), and the SDES volunteers Krista May, Kent Johnson, Kari Drake, Lee Kaffer for a fun engineering evening of activities and discovery! In all, 388 adults and 496 youth attended for a total of 884 free admissions to the Kirby Science & Discovery Center for Free First Fridays in February.

E-WEEK (CONTINUED)







Soundproof Package Activity

Make it Loud Activity

Thrill Seekers Activity about Rollercoasters

The <u>Annual Awards Banquet</u>, a joint banquet with SDES and ASCE was attended by 46 members and award recipients on Saturday, February 22, 2013. Tickets were only \$25/person, with the associations and the Pavilion covering the remaining cost. Three SDES Scholarship recipients and their families were also in attendance. Door prizes were given out and included a \$50 gift certificate to Scheels from SDES, a \$50 gift certificate to Shell Gas from ASCE, and 3 tickets to the Toulouse-Lautrec Art Exhibit in the Visual Arts Center (exhibit from Moulin Rouge era, if you remember the 2001 film). Please consider attending the Awards Banquet in the future. It is not limited to those up for nominations or on the agenda; all SDES and ASCE members are welcome to this annual banquet to celebrate engineering. It is a great networking event and an enjoyable night out among your peers.

Additionally the Nominated Engineering Projects of the Year display boards were set up in the main floor lobby of the Washington Pavilion during e-week to bring awareness to the general public of some fascinating local engineering projects. Patrons are allowed to vote on their favorite project after taking a closer look at the displays, and were able to include any questions or request for more information about engineering on the ballot. This year's "People's Choice" award goes out to *The Baltic Bridge Project* (Engineer: HDR, Owner: Minnehaha County), however second place was only one vote away and goes out to *Interstate 90 & Cliff Avenue Interchange Project* (Engineer: McLaury Engineering, Inc., Owner: SD DOT). Congratulations to these projects and their engineers for submitting nominations!

90 & Cliff Avenue Interchange Project: Isometric View of Design Contours



The Baltic Bridge Project: Bridge Substructure Construction



STEM Girls was held at Axtel Park, Whittier, and Edison Middle Schools the week after E-Week on February 25, 26 and 27th. Eight SDES members volunteered to help facilitate these sessions. We decided to broaden their horizons into the world of civil and traffic engineering this year by comparing and testing sign posts and breakaway sign posts, exploring just how big road signs and center striping actually are, and how banking a curve improves travel on a road using Hotwheel tracks. We presented 24 middle school girls with these activities to introduce them to the opportunities that higher education in engineering and STEM related fields could provide them, and show them some cool things engineers work with every day. I want to thank Michelle Carter, Kristen Gundvaldson, Jessica Erickson, Kari Drake, Matt Pajl, Brittni Yates, and Ben Scholtz for your assistance in planning and facilitating this year's STEM Girls event! I also want to thank the KSDC for providing us with this opportunity.

MATHCOUNTS A SUCCESS-PHIL GUNDVALDSON, PE

On behalf of the South Dakota Engineering Society, I want to thank all those who volunteered and contributed financially to this year's program. Your contribution helped ensure another successful program on the local level. This year's competition was held on February 20, 2014 at First United Methodist Church. In total, over 90 people competed, coached, and assisted with this year's competition. All participants enjoyed un-healthy snacks throughout the competition and 90 people managed to polish off 35 large pizzas for dinner. Great job everyone!

Again this year, the first place team was Patrick Henry Middle School and the second place team was Edison Middle School, both of Sioux Falls. The top 2 teams and top 2 individuals from the local competition will compete in the state competition to be held in Pierre on March 8th. There they will compete against the top students from 3 other chapters in the state. The top 4 individuals at the state competition will then compete in the national contest.

Thanks to the following businesses for their financial contribution to this year's competition:

Bartlett & West, Inc. Clark Engineering Corp.

Geotek Engineering & Testing Services, Inc.

HDR Engineering, Inc.

Infrastructure Design Group, Inc. JSA Consulting Engineers, Inc.

West Plains Engineering, Inc.

Sioux Falls Construction

BX Civil & Construction, Inc. Eisenbraun and Associates HD Waterworks Supply

HR Green, Inc. Jans Corporation KMS Engineering

Stockwell Engineers, Inc.

Thanks to the following volunteers for helping with this year's competition:

Andy Berg Beth Kassing
Brent Schiller Chad Huwe
Dan Hanson Jesse Morris
John Peasley Jonathon Wiegand
Krista May Kurt Peppel
Lance Weatherly Myron Adam
Ray Pierson Shannon Schultz

Stacy DuChene Jay Smith, Augustana College Mathematics Department

Thank you again for supporting the MATHCOUNTS program in South Dakota. Your help is greatly appreciated.



GETTING TO KNOW YOU

Member Bio

DGR Engineering 2909 E 57th St Suite 101 Sioux Falls SD 57106 Phone: 605-339-4157 Fax: 605-339-4175

JESSE MORRIS

Degree:

SDSM&T—Civil Engineering

Favorite Quote:

"When you come to a fork in the road, take it."

A brief history... I grew up in Rapid City with 2 older sisters and 1 older brother. I was very active with soccer and cross country and graduated from Stevens High School in 2006. Growing up, my father owned an underground utility construction company and I always found an inter-

est in the design and construction of public infrastructure. Spending summers installing water, sewer, and storm sewer systems turned out to be great experience. I was cheap and figured I would take advantage of free rent so I lived at home and attended SDSM&T. After deciding to move to Sioux Falls once I graduated to get out of Rapid City, but still be within a weekend drive away, I worked for Geotek doing environmental work for a short time before starting at DGR Engineering.



A LITTLE BIT MORE ABOUT OUR MEMBER OF THE MONTH:

Hometown: Rapid City

Job title and years with firm: Design Engineer, 2 years.

Normal Breakfast: Fruit and a glass of water.

Last CD Purchased: A navigation disk for my car.

Last DVD Purchased: Pitch Perfect... for a friend.

Hobbies: Golf, running, sports, hunting & fishing.

What do you collect? I try not to, but I usually end up with a bunch of extra golf clubs at the end of the season. I swear it's not the Indian... it's the arrow.

Best Personality Trait: Patience.

Pet Peeves: Neighbors who do not care about their house or yard appearance.

Favorite beverage: Something refreshing after a long day at work

Favorite season: Any season NOT named Winter 2014 **People may not know...** I drove a 1968 Chevy RWD pickup with no heat from when I was 14 to 21. That was awesome in the winters.

What made you want to be an engineer? I always had a facination with how things work and math was my favorite

subject in school.

What do you like best about being an engineer? New challenges everyday and being able to work on a wide variety of projects.

Describe a significant event in your professional life. Working part time for a local civil engineering firm my last year during college. I always wanted to be a poject manager for a construction company and never imagined being in the engineering industry but that job motivated me to become an engineer.

Describe a significant event in your personal life. Purchasing my first home last spring. It was a good feeling knowing all the hard work is starting to pay off.

What are you looking forward to in the next year? Hopefully, being able to pass the PE exam next spring and become a licensed engineer.

I hate it when... I don't keep things organized.

Where is your favorite place and why? Lambeau Field going to a Packers-Vikings game at last fall. Growing up a huge fan, it has been something I have always wanted to experience. Ending in a tie wasn't the result I was hoping for, but I can't wait to go back.

We are on the web

http://www.sdes.org/

2013-2014 OFFICERS AND CHAIRPERSONS

President Phil Gundvaldson, PE

President Elect Ryan Johnson, PE

Vice President Ray Pierson, PE

Secretary/Treasurer Lance Weatherly, PE

Chapter Director(2nd term) Travis Clark, PE
Chapter Director(1st term) Brett Runge, PE

State Director Kristen Gundvaldson, PE

Past President Jeffery Hines, PE

Chapter Nominations Jeffery Hines, PE

Membership Jason Kjenstad, PE

Mathcounts Phil Gundvaldson, PE

Scholarship Chris Jibben, PE

Public Relations Chad Hanisch, PE

E-Week Erin Steever, PE

Events Coordinators Gabe Laber, PE

Erin Steever, PE

Awards Brad Ludens, PE

Audio/Visual IT Chad Stensland, PE

Newsletter Joshua Peterson, PE

Membership List Myron Adam, PE

SDES MISSION STATEMENT

SDES is the state society of engineers from all disciplines that promotes the ethical and competent practice of engineering, advocates licensure, enhances the image of its members, and advocates legislation and public policy for the betterment of human welfare and the profession.

For any and all newsletter articles, additions, edits, corrections, and important dates,

CONTACT:

JOSHUA PETERSON, PE CITY OF SIOUX FALLS, PUBLIC WORKS 224 W NINTH STREET PO BOX 7402 SIOUX FALLS, SD 57117-7402 605-367-8616 jpeterson@siouxfalls.org

Webex Login Instructions

- 1. Navigate your internet browser to:
- 2. https://sdes-eastern.webex.com
- 3. Select the meeting date from the calendar in the "Browse Meetings" Window.
- 4. Click the "Register" link by the monthly meeting.
- 5. Fill in your first name, last name, email address and hit the "Register Now" button at the bottom.
- A registration email will be sent with all the information to log into the meeting.



For all State Society membership information and other business, contact:

Gail Boddicker, Executive Director SDES Rapid City, SD 57709 605-394-6674 Gail.Boddicker@sdsmt.edu

PDH Documentation

Sign-in sheets for Eastern Chapter meetings are posted on the SDES website for members to use for PDH documentation. Go to www.sdes.org to download sign-in sheets.







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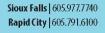
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Engineers Supporting SDES Eastern Chapter: Shannon Ausen, Andy Berg, Tom Berkland, Mark Cotter, Jeff DesLauriers, Jeff Dunn, Kerry Ellis, Rod Harms, Heath Hoftiezer, Chad Huwe, Ryan Johnson, Dena Knutson, Brett Lovro, Brad Ludens, Jacob Maras, John Osman, Kurt Peppel, Mark Perry, Josh Peterson, Wes Philips, Nick Ritter, Tim Stefanich, Curt Struck, Josh VandenBos, Shannon VerHey, Robbie Veurink, Lance Weatherly



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Thank you to all of you who continue to generously support the Eastern Chapter of SDES.