## The Engineering Informer February 7, 2018

#### MEMBERS OF THE

### NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

SDES EASTERN CHAPTER NEWSLETTER

PO BOX 1512 SIOUX FALLS, SD 57101 | WWW.SDES.ORG

### **INSIDE THIS ISSUE**

TREASURER'S REPORT	2
CALENDAR/UPCOMING EVENT	S 3
EWEEK OUTREACH EVENT	4
SUPER 2ND SATURDAY FLYER	R 5
EWEEK VOLUNTEER EVENTS	6
ENG AWARDS BANQUET	7
FIRST TECH CHALLENGE TEAM	8 N
NEW MEMBER HIGHLIGHT	9
WEBEX LOGIN	10
ADVERTISEMENTS	11-14

**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 8 of this newsletter.

### **IMPORTANT NEWS**

#### **NEXT MEETING:**

February 13th at 11:30AM at Pizza Ranch on 41st Street

### **NEW MEMBERS:**

Lori Faber-Woodward Karin Lang Freddy Moran Jacob Morris Lance Nolz Shawn Vanhove

## PRESIDENT'S COLUMN

BY JON WIEGAND—PE, PTOE

Welcome to February! While the shortest month in terms of days, it usually seems to feel like the longest as winter hangs on and work deadlines tend to converge as we get ready for the summer. However, to maybe help break up the last few weeks of winter, there are a number of SDES items coming up that we would like to remind you of:

- E-Week February 18-24, 2018
- Super 2<sup>nd</sup> Saturdays at Washington Pavilion – February 10, 2018, from 10 a.m. to 2 p.m.
- MATHCOUNTS February 22, 2018, at 2:00 p.m.; Southeast Technical Institute
- Serving breakfast at The Banquet – February 21, 2018
- Annual SDES Awards Banquet February 24, 2018, at the Holiday Inn City Centre; Casino Night
- 2018 Annual Conference April 4-6, 2018, at the Holiday Inn City Centre

If you are interested in volunteering for any of these events, please see the respective ad in the newsletter and contact the respective chairperson. We will also be discussing these events one more time at the upcoming chapter meeting. There have been a number of new members since our last meeting. Please welcome the following to SDES:

- Lori Faber-Woodward
- Karin Lang
- Freddy Moran
- Jacob Morris
- Lance Nolz
- Shawn Vanhove

Our next meeting is Tuesday, February 13, 2018 at the 41<sup>st</sup> Street Pizza Ranch. The meeting starts at 11:30 with lunch and the business meeting starts at 12 noon. Becky Baker with KLJ will be presenting on environmental requirements for engineering projects. As a reminder, if you are unable to attend in person but would like to participate in the meetings, please login through WebEx. Login instructions are provided within each newsletter.

And before closing, I would like to thank DJ Buthe for presenting last month on the Minnehaha County Bridge System. It was great to hear the success they are having with a proactive approach to maintaining their bridge system.

See everyone on Tuesday, February 13, at Pizza Ranch.

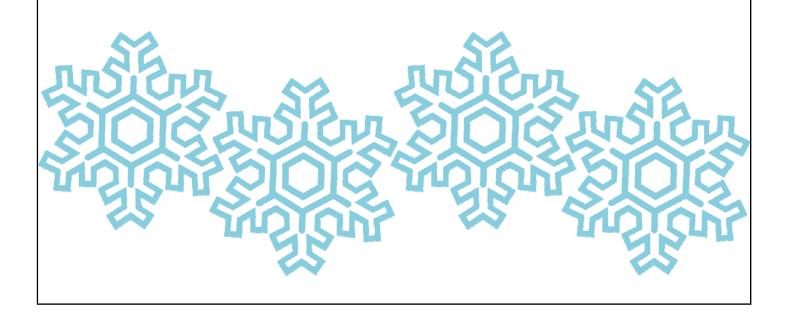
-Jon



## **TREASURER'S REPORT**

BY JOSH PETERSON, PE

Previous General Fund Balance 01/04/2018:			\$ 24,701.37
<u>Deposits:</u> Interest Deposit	\$	2.72	
Total:	Ψ	2.12	\$ 2.72
Expenses:			
Total:			\$ -
Total General Fund Balance:		·	\$ 24,704.09
Previous Scholarship Fund Balance 01/04/2018: <u>Deposits:</u>			\$ 6,980.15
Total:			\$ -
Expenses:			
Total:			\$ 
Total Scholarship Fund Balance:			\$ 6,980.15
Total Account Balance 02/07/2018:			\$ 31,684.24



## **IMPORTANT CALENDAR EVENTS**

### EASTERN CHAPTER

MEETINGS: February 13th at 11:30 am at Pizza Ranch on 41st Street

### OTHER EVENTS

 Saturday, February 10—Volunteer and/or Attend the E-Week Outreach event at Kirby Science Center

• Wednesday, February 21—Volunteer to serve at the Banquet (meal ministry)

• Thursday, February 22— Volunteer at Mathcounts

Saturday February 24—Engineering Awards Banquet

• Wednesday April 4 to Friday April 6— SDES Annual Conference in Sioux Falls

February 2018						
Su	Μ	Tu	W	Th	Fri	Sa
				1	2	3
4	5	6	7	8	9	10
					16	
18	19	20	21	22	23	24
25	26	27	28			

**Upcoming Chapter Meetings** 

<u>March</u>: City of Sioux Falls, Sioux Falls MPO, and SDDOT Project Update, Shannon Ausen and Travis Dressen

> <u>April</u>: no meeting, Annual Conference April 4-6

<u>May</u>: FHWA Topics, Kirk Fredrichs and Mark Hoines, FHWA South Dakota Division

TO ADD A CALENDAR ITEM PLEASE CONTACT ABBY NELSON @ ABBY.NELSON@HDRINC.COM

### E-WEEK OUTREACH: KIRBY SCIENCE DISCOVERY CENTER ERIN STEEVER, PE

SDES is again teaming with the Kirby Science Discovery Center (KSDC) in February to celebrate National Engineers Week (E-Week).



On February 10th between 10am and 2pm, volunteers will provide an engaging demonstration and activities to introduce engineering principals to 450 patrons expected to attend the special E-Week Super Second Saturday event.

The demonstration will showcase engineering through popular Disney Pixar (R) film clips. Three engineer-themed activities will provide hand's on learning to coincide with the demonstration.

- Station 1 includes a discovery of the effects of friction on a road, think of Mater driving over that first pavement project from Lightning McQueen.
- Station 2 will move into aviation with paper airplanes following footage from the movie Planes.
- Station 3 will reach patrons at a more challenging level by bringing in the KSDC's tornado booth to build and test structures to resist tornadoes. The Dream Big film will be brought back to The Wells Fargo Cinedome, again showcasing engineering. A portion of the film featuring the Shanghai Tower's unique twist of 120 degrees for minimizing wind loads on the 2,073 ft tower will help introduce the impact of wind on tall structures for the tornado activity.

We still have a few volunteer slots available. If you are interested in becoming involved, please contact Erin Steever at <u>erins@bannerassociates.com</u>. We also encourage all members to bring their families, friends, and neighbors out to this fun event. Standard admission applies to all except the event volunteers (find out more at <u>https://www.washingtonpavilion.org/plan-your-visit/rates</u>).

# Sponsored by: Super 2nd Saturday - February 10, 2018 verizon

The Art of Engineering

### Join us each 2nd Saturday as science and art come to life through hands-on activities, science demonstrations and gallery tours!

Regular Kirby Science Discovery Center and Visual Arts Center daily admission rates apply. Members are FREE.

### ART AND SCIENCE ACTIVITIES:

EVENT	LOCATION		
Tornado Engineering	3rd floor, Kirby Science Discovery Center		
Paper Airplanes	3rd floor, Avera Stage Science		
Rad Ramps	3rd floor, Avera Stage Science		
Accordion Book Engineering	Raven Children's Studio, Visual Arts Center		
Avera Stage Science Workshop	3rd floor, Avera Stage Science		
"Engineering with Disney" presente	d by South Dakota Engineering Society		
STEAM Maker Lab	2nd floor, Jacks Imagination Lab		
Creation Art Studio Paper Strip Engineering	Raven Children's Studio, Visual Arts Center		
	Tornado Engineering Paper Airplanes Rad Ramps Accordion Book Engineering Avera Stage Science Workshop "Engineering with Disney" presente STEAM Maker Lab Creation Art Studio		

### WELLS FARGO CINEDOME:

11 a.m.	Amazon Adventure		
12 p.m.	Dream Big		
1 p.m.	Mysteries of China		
2 p.m.	Dream Big		
3 p.m.	Journey to Space		
4 p.m.	Mysteries of China		
Sponsored by:	NSPE-SD EASTERN CHAPTER		

Admission to the CineDome is included with your daily Science Center admission.





### PAGE 5

### **VOLUNTEER OPPORTUNITIES FOR ENGINEERS WEEK** KURT PEPPEL, PE, AND KRISTA MAY, PE





## Save the Date

When: Wednesday, February 21, 2017 Who: 5-6 volunteers at 5:30am 20 volunteers 6:30-8:30am Where: The Banquet

Volunteer Sign-up sheet will be available at February's lunch meeting.

Free will donation to cover the cost of the meal will be taken at February's meeting.

Contact Kurt Peppel at <u>kpeppel@siouxfalls.org</u> with questions.

## **MATHCOUNTS**°

## Save the Date

When: Thursday, February 22, 2017 from 1:30pm – 6:30pm
Where: Southeast Technical Institute, Sullivan Health/Science Center, Room HC 257
Who: Six middle schools from SE South Dakota

Volunteers needed to help with the registration table, hand out tests, watch for cheating, grade tests, and keep time. Volunteer Sign-up sheet will be available at February's lunch meeting. Contact Krista May at <u>kristam@infrastructuredg.com</u> or 605.929.0267



## FEBRUARY 24, 2018 EASTERN SDES/ASCE AWARDS BANQUET

### Holiday Inn Sioux Falls City Centre 100 W 8th Street, Sioux Falls, SD 57104

Join friends and colleagues at this year's SDES/ASCE awards banquet! Arrive early for social hour, hors d'oeuvres and review project displays while enjoying views from the Starlite Ballroom.

Dinner (buffet style) featuring Bacon Wrapped Gouda Chicken and Slow Simmered Pot Roast, Roasted Baby Red Potatoes, Caesar Salad, Roasted Vegetables and Fresh Fruit.

Recognition of this year's SDES and ASCE award winners will be followed by a Casino Night, presented by the Sioux Falls Jaycees. Tables will include Black Jack, Craps, Texas Hold 'Em, Roulette and more. The event is designed to be fun for all skill levels!

Members' guests are welcomed and encouraged to attend.



### SCHEDULE

SOCIAL [5:30-6:30] DINNER [6:30-7:30] PROGRAM & AWARDS ENTERTAINMENT [8:00-9:30]

Directions: From I-90: Take Exit 400 (I-229) and travel south 4 miles to Exit 6 (10th Street). Turn Right (West) on 10th Street and travel 2.5 miles to Phillips Ave. Turn Right (North) on Phillips Ave and go to 8th Street. Proceed thru the intersection and turn left and arrival at the hotel.

<u>Parking</u>: Parking lot in front of the hotel, additional parking in hotel parking ramp accessible from the west side of the parking lot, and N. Philips Avenue.

<u>Banquet:</u> The banquet will be held in the Starlite Ballroom on the top floor of the Holiday Inn.

### RSVP & SEND PREPAYMENT TO:

JSA Consulting Engineers Attn: Myron Adam

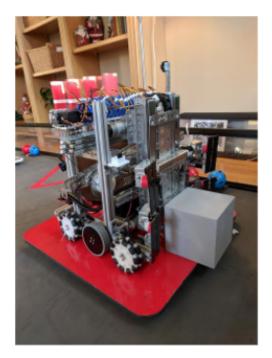
6810 S. Lyncrest Ave, Suite 101 Sioux Falls, SD 57108 Myron@jsaengineers.biz

> Cost: \$25/person [Make checks payable to Eastern Chapter SDES]

## FIRST TECH CHALLENGE TEAM UPDATE SPONSORED BY SDES

Greetings, from *FIRST* Tech Challenge team, Fellowship of the Loose Screws! We are a high school level group of kids who build and program a 40 pound robot. Kids can do amazing things, including becoming engineers, and thousands around the world are doing just that- even right here in Sioux Falls, South Dakota. Through the series of robotics programs by *FIRST*, (For Inspiration and Recognition of Science and Technology) younger kids are building with LEGOs, and older kids with power tools, 3D printed parts, and machined aluminum, navigated by gyroscopic, ultrasonic, and camera vision sensors- all the while learning skills that will help them succeed in a multitude of fields. *FIRST* builds the innovators of tomorrow, and if you would like to check out what some of these young engineers are up to, swing by the *FIRST* LEGO League South Dakota State Championship on January 27th at Augustana University. Any interest in helping or meeting the Fellowship, get in contact with us at <u>fellowshiploosescrews@gmail.com</u>.

Get involved in the future- we certainly have!



Here is a photo of our robot, Legoless.

Message brought to you by *FIRST* Tech Challenge team 7123, The Fellowship of the Loose Screws fellowshipoftheloosescrews.com

## **NEW MEMBER HIGHLIGHT**

## Karin Lang

Sayre Associates, Inc 216 S. Duluth Ave karinl@sayreassociates.com (605) 332-7211

### College: SDSU

**Major:** Civil Engineering & Mathematics

Favorite Quote: "So you're telling me there's a chance" -Lloyd from Dumb & Dumber

Family: Husband- Jeff and Daughter - Hailey

Hometown: Hartford, SD

My Normal Breakfast: Cereal

Last CD Purchased: Who purchases CDs anymore? :)

Last DVD Purchased: Guardians of the Galaxy, Vol. 2

**Hobbies:** Reading, Playing with my dog, being a Kleenex for my daughter.

Pets: Chocolate Lab, Bailey

Pet peeves: Slow Walking in Stores.

Favorite TV Show: Friends

**People may not know about me..** I'm left handed. It's true!

What made you want to be an engineer? My love of math.

What do you like best about being an engineer? There are no 2 projects that are exactly alike.

**Describe an achievement from the past year you are proud of.** The birth of my daughter.

Favorite Place to Visit and Why: Disney World! I'm a kid at heart.

### A little more about me....

I am a born and raised, East River, South Dakotan. From an early age, I knew I was going to attend SDSU, I just didn't know it was going to be for 6 years! While there, I received a bachelors in Civil Engineering and Mathematics and then decided to become even nerdier and get my masters in Mathematics. While in college I met my husband and through our years together we have welcomed a dog Bailey (5) and a daughter Hailey (1) into our lives. My special accomplishments include only snoozing my alarm once and being known as the lady that always has candy in her office. I have a great career that started and continues at Sayre Associates.

### PAGE 10

mation and other business, contact:

Rapid City, SD 57709

Gail.Boddicker@sdsmt.edu

605-394-6674

SDES

Gail Boddicker, Executive Director

2017-2018 OFFICERS AND CHAIRPERSONS		Webex Login Instructions1. Navigate your internet browser to:2. <a href="https://sdes-eastern.webex.com">https://sdes-eastern.webex.com</a>		
Officers		<ol> <li>Select the meeting date from the cal- endar in the "Browse Meetings" Win-</li> </ol>		
President	Jon Wiegand, PE	dow.		
President Elect	Lance Weatherly, PE	<ol> <li>Click the "Register" link by the monthly meeting.</li> </ol>		
Vice President	Krista May, PE	5. Fill in your first name, last name, email address and hit the "Register		
Secretary/Treasurer	Josh Peterson, PE	Now" button at the bottom.		
Chapter Director(2nd term)	Joshua VandenBos, PE	6. A registration email will be sent with all the information to log into the		
Chapter Director(1st term)	Aaron Norman, PE	meeting.		
State Director	Ben Scholtz, PE			
Past President	Kurt Peppel, PE			
Com	nittees			
Nominating Committee	Lee Kaffar, BA			
Mathcounts	Krista May, PE			
Scholarship	Lance Mayer, PE			
Events Coordinators				
E-Week	Erin Steever, PE			
Free First Fridays	Erin Steever, PE	For any and all newsletter articles, addi-		
Winter Social	Gabe Laber, PE	tions, edits, corrections, and important dates contact:		
Golf Outing	Gabe Laber, PE	Abby Nelson, PE		
Awards	Wes Philips, PE	HDR 6300 S. Old Village Place, Suite 100		
Audio/Visual IT	Chad Stensland, PE	Sioux Falls, SD 57108-2102		
Newsletter	Abby Nelson, PE	605-977-7753 Abby.Nelson@hdrinc.com		
Membership List	Myron Adam, PE	,		
		For all State Society membership infor-		

### **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.

#### PAGE 11



Fax: 605/339-9175 Cellular: 605/351-3339 E-mail: tom@h-wcontracting.com

TRANSPORTATION + WATER + GOVERNMENTAL SERVICES LAND DEVELOPMENT + ENVIRONMENTAL + CONSTRUCTION



To advertise in the Engineering Informer, please contact Abby Nelson at: Abby.Nelson@hdrinc.com, or 605-977-7753. The cost for a standard business card-size advertisement for one year is \$75. Thank you to all of you who continue to generously support the Eastern Chapter of SDES.



To advertise in the Engineering Informer, please contact Abby Nelson at: Abby.Nelson@hdrinc.com, or 605-977-7753. The cost for a standard business card-size advertisement for one year is \$75. Thank you to all of you who continue to generously support the Eastern Chapter of SDES.

### Associates Vibration Monitoring, Construction Administration, Melaury Engineering, Inc. Civil Engineering & Land Surveying Professional Engineers & Surveyors Call us to discuss your project needs! Elk Point 605.356.2308 Parkston 605.928.7676 Sioux Falls 605.271.8998 Wayne 402.833.1830 800.499.2308 www.sayreassociates.com • Phone: (605) 332-7211 LASTING PRECAST SOLUTIONS BIERSCHBAC FOR AMERICA'S INFRASTRUCTURE **IPMENT & SUPP** Geogrids, Geotextile Fabrics, Gabions, Erosion Control, Geocell. We have a Solution for your Problem. Sioux Falls, SD. Devils Lake, ND Lake View, IA Hancock, MN Cannon Falls, MN Courtland, MN | Moorhead, MN ..... Let Us Help You Toda www.hancockconcrete.com Sioux Falls 605-332-4466 Rapid City 605-348-6440 CITY OF SIOUX FALLS **PUBLIC WORKS** Durable. Dependable. Delivered. Call CEMCAST today and let us put our concrete expertise to work for you. Providing a Better Quality of Life for You! Engineers Supporting the SDES Eastern Chapter: Ken Allender, Shannon Ausen, Andy Berg, Nick Borns, Tallon Cazer, Dennis Clark, Mark Cotter, Jeff DesLauriers, Kerry Ellis, Rod Harms, Heath Hoftiezer, Chad Huwe, Ryan Johnson, Dena Knutson, Brad Ludens, Jacob Maras, Reinforced Concrete Pipe · Concrete Manholes Troy Miller, John Osman, Kurt Peppel, Mark Perry, Josh Peterson, Wes Philips, Dustin Posten, Tim Stefanich, Joe Stonesifer, Curt Struck, Josh 26088 466th Avenue Hartford, S.D., 57033 Phone 605 528 3530 Fax 605 528 3531 VandenBos, Shannon VerHey, Lance Weatherly, Raed Yousef

ASSE Credentials: 6005, 6020, 6030, 6035, 6040, MGPHO CMGV

Larry Schutt

larry@hcttechs.com

HEALTHCARE COMPLIANCE TESTING

402.616.9887 P.O. Box 996 Elkhorn NE 68022

### PAGE