



The Engineering Informer

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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:

January 13, 11:30 AM @ Pizza Ranch on 41st Street
- Jeff Dunn from the City of Sioux Falls will present on the City's water main assessment.

NEW MEMBERS:

- Eric Hanson, SEH

PRESIDENT'S COLUMN

BY RYAN JOHNSON-PE

2014 is done and 2015 is kicking in gear. Time truly fly's by...

Our next monthly meeting will be January 13th from 12:00 to 1:00 at the 41st Street Pizza Ranch. As always, come early for pizza and the opportunity to socialize with your peers. The speaker will be Jeff Dunn, Principal Water Engineer for the City of Sioux Falls. Jeff will present on the City's water main condition assessment project. Jeff recently presented this project at the national AWWA conference.

Thanks to Denise Truckenmiller, from Avera McKennan, who spoke at our last monthly meeting on emotional intelligence. It was good to gain some insight on this topic. I challenge all of you to apply and build on the principles we learned. Greater awareness and application of these principles will only strengthen our organization and our profession.

Please help me in welcoming new member Eric Hanson from SEH (this is not the same Eric Hanson from HR

Green!). Membership is strong and continues to grow. The Black Hills Chapter has 136 members, the Central chapter has 55 members, and the Eastern Chapter has 271 members! As always, keep recruiting.

Lastly, the Eastern Chapter is responsible for hosting the fall (2015) PDH conference. We need one to two volunteers to coordinate this event. The time commitment is minimal and you will have plenty of support from board members and committee chairs. If you are interested or would like more info about the position (how much work/time does it take, are there others helping, etc.) please contact me at rjohnson@siouxfalls.org or 367-8641.

Thank you and good luck in 2015!

Ryan Johnson

TREASURER'S REPORT

BY LANCE WEATHERLY, PE

**IMPORTANT CALENDAR ITEMS****EASTERN CHAPTER MEETINGS:**

- January 13, 11:30 @ Pizza Ranch on 41st Street
- February 10, 11:30 @ Pizza Ranch on 41st Street
- March 10, 11:30 @ Pizza Ranch on 41st Street
- April 14, 11:30 @ Pizza Ranch on 41st Street

E-Week

February 22–28, 2015

Eastern Chapter Awards BanquetFebruary 28, 2015
Holiday Inn City Centre**2015 Annual Conference**April 8, 2015
Ramkota Hotel, Pierre

	Balance as of	1/5/2015	
Previous General Fund Balance	12/8/2014	\$	22,463.20
<u>Expenses:</u>			
speaker lunch - December	\$	(10.69)	
Cherry Creek (Winter Social)	\$	(629.67)	
CTE Academy donation	\$	(1,000.00)	
WebEx (December)	\$	(51.94)	
Total	\$	(1,692.30)	
<u>Deposits:</u>			
Interest (December)	\$	2.71	
Total	\$	2.71	
Total General Fund		\$	20,773.61
Previous Scholarship Fund Balance	12/8/2014	\$	7,845.86
<u>Expenses:</u>			
Total	\$	-	
<u>Deposits:</u>			
Total	\$	-	
Total Scholarship Fund		\$	7,845.86
Total Account Balance		\$	28,619.47

VOLUNTEER OPPORTUNITIES

The Sioux Empire Water Festival will be held March 17 & 18. If anyone is interested in presenting or putting together an exhibit, please contact Alicia Reif, Alicia.Reif@sdstate.edu

The Sioux Falls Women in Science will be held March 11. If anyone is interested in presenting, please contact Karen Heiling, kheiling@sio.midco.net Or if they would like to put an exhibit together contact Lisa Schramm Lisa.Schramm@sdstate.edu

To add a calendar item, please contact Josh Peterson at JPeterson@siouxfalls.org

2014 EASTERN CHAPTER SDES AWARD NOMINATIONS— BRAD LUDENS, PE

Now that the holidays are over, we can reflect on all that we've accomplished in the past year – both personally and professionally. Please take some time to reflect on your accomplishments and those of your peers and consider nominating someone or a special project for one of our annual awards:

- ▶ Engineer of the Year
- ▶ Young Engineer of the Year
- ▶ Project of the Year

The nomination forms for each category have already been sent out via email to the members of the Eastern Chapter by Myron Adam, and are also available from Brad Ludens. **Nominations are due to Brad Ludens by February 6, 2015.** Contact information for Brad is included below.

The Eastern Chapter may submit up to two nominations in each category. The Awards Committee will determine whether one or two nominations will be submitted in each category. There are many engineers and projects all over the Eastern Chapter that deserve recognition this year for a job well done. Don't be afraid to nominate one or more of them!

If you are interested in serving on the Awards Committee, or if you have any other questions, please contact Brad Ludens at 367-8627 or bludens@siouxfalls.org. The Eastern Chapter awards will be announced at the SDES/ASCE banquet on February 28, 2015. The winners will be forwarded to the State Society for consideration for the state level awards.

CELEBRATING E-WEEK IN FEBRUARY—ERIN STEEVER, PE

Free First Fridays – In collaboration with the Kirby Science and Discovery Center (KSDC) at the Washington Pavilion, in Sioux Falls, SD, SDES volunteers will celebrate Leonardo da Vinci with over 300 patrons through their “Engineering with Leo” experience. While most of his inventions never made it off the page he drew them on, we know that he was looking into the future at machines that would make work easier and life better for each of us! An engineer with SDES will walk the audience through their current day experiences in the field as an engineer, while other SDES volunteers will assist KSDC staff with multiple activity stations. Simple machines that make up a bucket-wheel excavator, skateboard, water lift and spring scale (wheel/axel), thread cutter (wedge), tape dispenser and da Vinci's catapult (levers/pulleys) to name a few will be discovered and incorporated into a Guessing Game. This event will take place on February 6, 2015 from 5:00 to 8:00 pm.

STEM Girls – Encouraging middle school girls to pursue STEM careers, our theme this year plays on Disney's latest animation, *Big Hero 6*. We'll be at three underserved middle schools in Sioux Falls, SD to build, test and re-design paper plate “Speed Racers” tying in with the with supersonic fast mag-lev bike that the female industrial technology and mechanical engineering student GoGo Tomago's character develops in the movie. We'll then move on to our main build with Baymax as the inspiration. Baymax is a home health aide robot and SDES volunteers will assist the girls in building a “junk drawer robot” using Popsicle sticks, syringes and pencil erasers to make a Hydraulic Gripper Robot. STEM Girls is part of an after-school program run through the Kirby Science and Discovery Center. SDES develops an engineering themed plan each February, walk the girls through our development as female engineers, and provide a pathway for the students to ask questions and see themselves in engineering career paths. Our Hydraulic Gripper Robot is being provided by the South Dakota State University Extension and 4-H STEM program. Inspiration for the “Speed Racer” is from www.howtoons.com. STEM Girls will take place February 17-19, 2015 from 3:45 to 5:00pm at George McGovern (Tuesday), Whittier (Wednesday), Edison (Thursday) Middle Schools in Sioux Falls, SD.

Volunteers are encouraged to contact Erin Steever at erins@bannerassociates.com or 855-323-6342 to secure a time, and be notified of planning/demonstration meetings held ahead of the events.

HELP US COMPLETE THE LIST OF PAST WINNERS— BRAD LUDENS, PE

A listing of previous award winners that we have on record for the Eastern Chapter (including the old Southeast Chapter and Northeast Chapter) are shown below. If you see any errors or omissions, please contact Brad Ludens at 367-8627 or bludens@siouxfalls.org. We would love to have updated information for this year's Awards Banquet on February 28. Thanks for your help!

Engineer of the Year

Eastern Chapter

2013: Allen Rude
2012: Orlin Jibben
2011: Jeff Christensen
2010: Bruce Card

SE/NE Chapter

2009: Chad Huwe (SE)
2008: James Unruh (SE)
2007: Rich Schwanke* (SE)
2006: Mark Wiederich (SE)
2005: Steve Hoff (SE)
2004: Jon Heck* (SE)
2003: Dennis Wipf / Geoff Heig
2002: Jeff DesLauriers / Seth Hanson
2001: Doug Hoy / Chuck Tiltrum
2000: Kim Heck / Dennis Micko*
1999: Duane Sanders* (NE)
1998: Fred Ritterhaus* (NE)
1997: Fran Brink* (NE)
1996: John Little (NE)
1995: Joe Gillen / Dwayne Rollag
1994: Steve Quincy / Paul Koepsell*
1993: Tom Berkland (SE)
1992: Ralph Lindner (SE)
1991: Duane Genzlinger / Jim Dornbush*
1990: Jon Smith (SE)
1989: Beth Tellekson (SE)
1988: Dale Jans (SE)
1987: Len Neugebauer (SE)
1986: Rex Stockwell* / Ernest Buckley
1985: Tade Gerischer / Junis Storry
1984: Tom Molohan / Al Kurtenbach*
1983: Wilfred Schroeder (SE)
1982: Art DeWitt (SE)
1981: Marvin Heck / Emory Johnson*
1980: Merle Jansen (SE)
1979: Ray Jorgensen (SE)
1978: John Peasley (SE)

* indicates state award winner

Young Engineer of the Year

Eastern Chapter

2013: Wes Phillips*
2012: Adam Norman*
2011: Brett Runge*
2010: Brad Ludens*

SE/NE Chapter

2009: TJ Yerdon (SE)
2008: Phil Gundvaldson* (SE)
2007: Jason Reaves (SE)
2006: Jason Kjenstad* (SE)
2005: Myron Adam (SE)
2004: Chad Hanisch* (SE)
2003: Shannon VerHey (SE)
2002: Mark Cotter* / Doug Wessel
2001: Brent Anderson / Matthew Asche
2000: Jason Klemme / Sam Muntean
1999: Jackie Lanning* (NE)
1998: Steve Hoff / Rick Schlechter*
1997: Beth Kassing (SE)
1996: Doug Jackson / Jay Koch
1995: Kim Heck / Seth Hanson*
1994: Don Weigel (NE)
1993: Jeff Christensen* (SE)
1992: Doug Hoy (SE)
1991: Jon Heck (SE)
1990: Jeff Miller (SE)
1989: Bruce Card (SE)
1988: Ralph Lindner (SE)
1987: Tom Kelly (SE)
1986: Ron Hemmer / Geoff Heig*
1985: Dale Jans / Rick Solonen
1984: Dan Eisenbraun / Daryl Englund*
1983: Dennis Wipf (SE)
1982: Rex Stockwell* / Dave Odens
1981: Dan Norman (SE)
1980: No Award
1979: Mike Bailey (SE)
1978: No Award

* indicates state award winner

Project of the Year

Eastern Chapter

2013: Baltic Bridge Replacement*, HDR and I-90/Cliff Avenue Interchange, McLaurry Engineering
2012: Sioux Falls Water Reclamation Facility Effluent Filter Improvements*, HR Green and River Greenway Improvements Phase 1, Goldsmith Heck
2011: Big Sioux River Skunk Creek Flood Control Project Phase 2C*, USACE and Sioux Falls Central Main, HDR Engineering
2010: 41st Street Bridge Reconstruction* HDR Engineering, Sioux Falls

Southeastern Chapter

2009: Phillips Avenue, 10th St. to 12th St. Stockwell Engineers, Sioux Falls
2008: 57th Street, Cliff Ave. to Sycamore Ave. HDR Engineering, Sioux Falls
2007: Cliff Avenue, Chambers St. to Benson Rd. HR Green/Sayre Associates, Sioux Falls
2006: 12th Street/I-29 Interchange (?) Needs Verification
2005: Louise Avenue, 69th St. to 85th St. Ulteig Engineers, Sioux Falls
2004: Sioux Falls Water Purification Plant* HDR Engineering, Sioux Falls
2003: Russell St./Benson Rd./I-29 Interchange HDR Engineering, Sioux Falls

Northeastern Chapter

2005: Aberdeen Water Supply/Treatment Imp. Banner Associates, Brookings
2002: Newcastle-Vermillion River Bridge Banner Associates, Brookings
2001: Paul Brown Stadium Needs Verification
2000: Veterans Avenue, Sisseton, SD Helms and Associates

* indicates state award winner



FEB.28.2015 EASTERN SDES/ASCE AWARDS BANQUET

Guest Speakers

Sioux Falls Mayor Mike Huether &
Kendra Siemonsma, Project Manager for construction of the
Denny Sanford PREMIER Center

Dinner [Buffet Style]

Chicken Roma and Orange Sesame Glazed Pork Chop/ Green
Beans with Roasted Red Peppers, Smoky Gouda Scalloped
Potatoes/House or Caesar Salad & Fresh Fruit

Entertainment - Illusionist REZA



Name(s): _____

Number of persons attending (Guests encouraged): _____

Member of: ASCE _____ SDES _____ Other _____

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.

Parking: Parking lot in front of the hotel, additional parking in hotel parking ramp accessible from the west side of the parking lot, and N. Phillips Avenue.

Banquet: 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

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

RSVP by Feb.20, 2015

Fellowship of the Loose Screws ●●●

Team 7123

"All The News That's Fit To Print"

January 2015 Volume 2, Issue 7

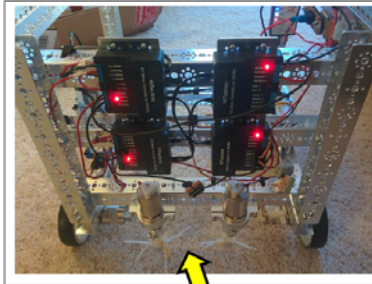
THE FELLOWSHIP PREPARES FOR A ROBOT ADVENTURE



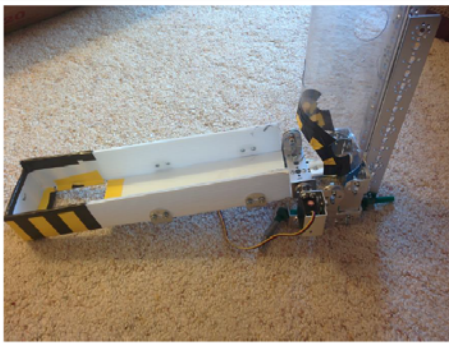
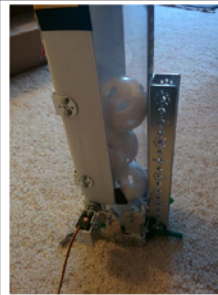
We've just started our marathon build sessions! We updated the wiring in our robot and cleared space to put our lifting mechanism in. There were a few issues with the chute on the Schlorp (what we affectionately call our ball retrieval and containment system (say that 5 times fast) that were causing balls to get jammed, but we got those fixed. Looking forward, we'll start final assembly on the bot and start programming the missions! This is going to be an exciting 3 weeks!

Right: This is the front of our robot. The big black things with red lights and wires sticking out are the motor controllers, which, as their name suggests, control the motors.

Below: The short rolling goal in which we want to put balls.



Above: Notice the DC motors with zip ties zip tied to axles. These will spin, "sucking" the balls into the tube. The balls go into the tube, which is attached to a linear slide. The linear slide will lift the assembly up, a servo will move the big white chute you see below, and the balls will roll out of the duct-tape framed hole, down the chute, out the other hole, and into the rolling goal.



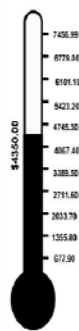
WADO? LINCOLN, NEBRASKA! HERE'S THE ALSO IN LINCOLN,



We are fast approaching our first FTC competition for Cascade Effect! On January 31, we will compete in Lincoln, Nebraska at the Nebraska FTC State Championship. Our second competition will be the FTC Iowa WildCard Tournament in Iowa City on February 21st. As these dates get closer, the race is on to finish the robot and get everything else together. We are looking forward to seeing what other teams have done with their robot and putting our own robot to the test. We will update you on our progress.

In case one was not yet aware, we will be HERE on January 31st.


2014-2015 Fundraising Goal



Only \$3,106.99 from our goal! Thanks to everybody who contributed this year! Special thanks to the South Dakota Engineering Society, Boyce Law Firm, the Huisman Family, Kay Wood, Richard and Shirley Lauer, and John and Carol Mullen.

We are pleased to report that the Fellowship has- if a little late- entered the realm of social media. We now have Twitter and Facebook found at: FTC7123 (Twitter) Fellowship of the Loose Screws (Facebook)





ENGINEERS WITHOUT BORDERS
USA

EWB-SDSU
Box 2219, Crothers Engineering Hall
South Dakota State University
Brookings, SD 57007-0096

Wednesday, December 10, 2014

Greetings & Salutations,

We, the Student Chapter of Engineers Without Borders at South Dakota State University (EWB-SDSU), are writing this letter to introduce our project and ask for your support. EWB-USA is a national non-profit organization that supports community-driven development programs worldwide by collaborating with local partners to design and implement sustainable engineering projects. EWB-USA has 684 projects in 39 countries.


As the first and only EWB chapter in South Dakota, we are excited to keep partnering with Unidad Academica Campesina de Carmen Pampa (UAC-CP) in Bolivia, a Catholic university, established in 1991 to make higher education available to young people who do not have the opportunity due to unequal access to education.

The number of UAC-CP students significantly increased from 53 in 1994 to 700 as of today. The university has expanded to two campuses, Leahy (upper) and Manning (lower) campus. The area surrounding the lower campus has the community with about 200 residents and the high school with about 500 students.

During this expansive growth, the potable water systems have not been adequately considered. The potable water is taken from waterfall and had delivered to the university, community, and high school without any treatment. The students and community members boil water before consumption but have experienced with water-borne illnesses. EWB-SDSU initiated the water improvement project with UAC-CP in 2011 and made 5 trips so far. We successfully implemented the chlorinator for the upper campus in 2012. We are preparing for the 6th trip to install chlorinators for the lower campus, community, and high school.

In 2015, we will work on preliminary design of sand filtration systems and continue educating the UAC-CP students and community members about importance of water treatment.

Table 1 shows an estimate of our travel budget. We hope a group of 6 students along with professional mentor(s) to make a trip to UAC-CP for 10 days for the summer of 2015. It is the chapter's goal to raise enough funds to make the trip possible. Participating in a project like this as students will provide valuable experiences to gain perspective into real-world engineering design issues and to become responsible leaders.



ENGINEERS WITHOUT BORDERS
USA

EWB-SDSU
Box 2219, Crothers Engineering Hall
South Dakota State University
Brookings, SD 57007-0096

Item	Source	
	Fund-raised	Students ⁽²⁾
Air Travel	\$9,000	\$3,000
Visa, Travel Insurance, and Immunization	-	\$2,100
Lodging and Meals at UAC-CP	\$2,000	-
Construction Equipment and Supplies	\$700	-
TOTAL	\$11,700	\$5,100

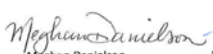
(1) The estimated budget is based on 2014 trip.
(2) Contribution from students who participate in the trip.

We would like to invite you to support our dream in the long-term success and sustainability of the project as we continue our commitment to the health and sanitation needs of UAC-CP. Any contribution is greatly appreciated. This is the link to a money donation, <https://www.sdsufoundation.org/give-now>. Please type "EWB-SDSU" in the "Comments/Special Instruction" box. We also provide organization/business sponsorships as shown in Table 2.


Sponsorship Levels	Amount per year	Benefits
Bronze	\$300	Organization/business name, logo, and sponsorship level on <ul style="list-style-type: none"> • Outreach activity program materials • Acknowledgement section in the presentations
Silver	\$500	Above plus: <ul style="list-style-type: none"> • EWB-SDSU Facebook page
Platinum	\$1,000	Above plus: <ul style="list-style-type: none"> • Pre-event promotion materials • Certificate of appreciation

Your contribution will be beneficial in expanding the worldview of South Dakota's future engineers. You can learn more about our project by visiting our Facebook site, <https://www.facebook.com/SDSUEWB>. If you have any questions, please do not hesitate to contact us. We are happy to give a presentation at your organization/business meetings upon your request. Thank you again and look forward to your participation!


Sincerely,



Meghan Danielson
EWB-SDSU President
Meghan.Danielson@sdsu.edu



Dr. Kyungnan Min
EWB-SDSU Faculty Advisor
kyungnan.min@sdsu.edu
605-688-4918



Eastern Chapter
SOUTH DAKOTA ENGINEERING SOCIETY
Member National Society of Professional Engineers

December 22, 2014

Ms. Meghan Danielson; EWB-SDSU President
Ms. Dr. Kyungnan Min; EWB-SDSU Faculty Advisor
Box 2219, Crothers Engineering Hall
South Dakota State University
Brookings, SD 57007-0096

Dear Ms. Danielson and Ms. Min:

SUBJECT: Engineers Without Borders at SDSU (EWB-SDSU) donation request.


The Eastern Chapter of the South Dakota Engineering Society (SDES) is proud to present EWB-SDSU with a donation of \$1,000 for the continued support of EWB projects.

The SDES is member organization of the National Society of Professional Engineers (NSPE). NSPE is a member-centric, nimble, future-focused and responsive organization, serving as the recognized voice and advocate of licensed Professional Engineers. The state chapter boasts over 460 members with over 270 registered Eastern Chapter members! Similar to EWB, SDES/NSPE encourages membership and representation from all engineering disciplines.

Consider joining the SDES/NSPE to continue growing and strengthening these important organizations! Student memberships are free. Membership applications can be found at the SDES website: <http://sdes.org>.


Good luck with all your future endeavors.

Sincerely,




Ryan Johnson, PE
SDES Eastern Chapter President

Enclosure – SDES Eastern Chapter \$1,000 donation to EWB-SDSU



SOUTH DAKOTA STATE UNIVERSITY FOUNDATION



IMPACT Greatness

Eastern Chapter South Dakota Engineering Society
Patrick Schwabach, PE
P.O. Box 1512
Sioux Falls, SD 57101


Dear Patrick:

Thank you for the recent gift to South Dakota State University.

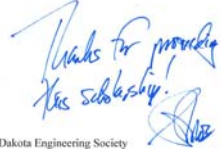
In the midst of this holiday season, we are thankful for the continued generosity of alumni, friends and businesses that have made SDSU a priority in their philanthropic giving. We know that there are so many important causes that deserve support. Thanks for choosing to invest in our university.

We appreciate your support of the state's largest and most-comprehensive institution of higher learning.

Sincerely,



Steve Erpenbach
President and CEO, SDSU Foundation



Thanks for providing this scholarship!

Gift Receipt	
Date of Gift:	12/03/2014
Donor:	Eastern Chapter South Dakota Engineering Society
Method of Payment:	Cash - Check 1593
Designation(s):	Eastern Chapter South Dakota Engineering Scholarship
	\$2,000.00
	Total Received: \$2,000.00

Please retain this receipt for your records.
**No goods or services were received in relation to your gift.*

1400B BUILDING | 411 BIDDAY AVENUE, BOX 571 | BROOKINGS, SD 57007 | PHONE: (605) 697-3071 | TOLL FREE: (800) 747-7771 | WWW.SDSU.EDU/FOUNDATION



2015
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
MILTON F. LUNCH ETHICS CONTEST

INVITATION

All current NSPE individual members through their NSPE state societies and NSPE chapters (including student chapters) are invited to participate in the 2015 NSPE Milton F. Lunch Ethics Contest. Match your wits with experienced professional engineers and engineering students throughout the country!

WHAT IS TO BE DONE?

NSPE's Board of Ethical Review is furnishing you with a *real* FACT situation regarding an engineer who is faced with the ethical question of whether his firm can perform services in connection with a site-development study for a county with which he is associated through his membership on a county industrial development agency. Given the FACTS, you are asked a QUESTION about the ethics of the engineer. Contestants are encouraged to read and discuss the FACTS of the case and answer to the QUESTION. Then contestants are to develop DISCUSSION AND CONCLUSIONS using the format of the NSPE Board of Ethical Review. Contestants are also to give REFERENCES citing only specific sections of the NSPE *Code of Ethics for Engineers*. Other materials should not be cited. (A copy of the NSPE *Code* and a sample BER case (demonstrating the format) are attached for reference. Contestants may also want to check the following Web sites for additional cases decided by the BER: www.nspe.org and www.niec.org).

CONTEST RULES

All entries must be 750 words or less (DISCUSSION and CONCLUSION sections only) and received by **Friday, April 17, 2015**. (List NSPE Code REFERENCES also. However, NSPE Code REFERENCES are not subject to word count). E-mail, fax, or mail entries to:

2015 NSPE Milton F. Lunch Ethics Contest
 NSPE Legal Department
 1420 King Street, Alexandria, VA 22314-2794
 mcannon@nspe.org – E-mail • 703-519-3763 – Fax • 703-684-2840 - Phone
<http://www.nspe.org/Ethics/EthicsResources/MiltonLunch/index.html>

The winning entry will receive an award of \$1,000 (\$500 to the NSPE state society or NSPE chapter, and \$500 divided equally among the authors) provided by NSPE and the NSPE Educational Foundation, a certificate, and recognition in *PE Magazine*. Special recognition may also be offered to the authors of superior essays written by current student members.

JUDGING CRITERIA

The judges will use the following criteria:

- Quality of the entry in form and presentation. (Clarity, composition, expression, etc. are important. Your writing should be a finished piece, ready to "go to press.")
- Demonstration of understanding of the implications concerning ethical or unethical behavior.
- Comprehensive analysis of the case and arguments supporting your conclusions. (This may include new thoughts about engineering ethics and professional practice.)

Good luck, fellow professional engineers and student engineers!

Sincerely,
 DANIEL K. O'BRIEN, P.E., F.NSPE
 Chair, NSPE Board of Ethical Review

Milton F. ("Mill") Lunch, NSPE's general counsel from the 1940s until the 1980s was critical to the establishment of the NSPE Board of Ethical Review and the development of the NSPE Code of Ethics in the 1950s. During his tenure as NSPE general counsel, Mill presented numerous papers and authored influential articles about the importance of licensure, ethics, and professionalism. He passed away in 2001.

**National Society of
 Professional Engineers®**

2015
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
MILTON F. LUNCH ETHICS CONTEST
(Fact Situation)

FACTS

A county Industrial Development Agency (IDA) and the county plan to jointly fund a site-development study for a proposed business/commerce park on two parcels behind the Mid-County Plaza. The county will take the lead on the project and contract with an engineering firm to perform the site-development study. The land is currently owned by XYZ Properties Inc. The IDA-County agreement stipulates that IDA and the county will each contribute \$50,000 for the project.

As project lead, the county is considering a proposal from ABC Engineering to perform services in connection with the project. Engineer A, an IDA board member and part owner of ABC Engineering, believes he has a conflict of interest due to IDA's involvement on the project and the fact that Engineer A's firm, ABC Engineering has previously done development work on the property for XYZ Properties. Engineer A indicates that since the county is the lead agency, he plans to recuse himself from discussions and decisions relating to the study. Engineer A also indicates that if IDA had been the lead agency, he would have resigned from the IDA. The county attorney indicates that since this is a contract between the county and the engineering firm, there is no need for Engineer A to resign.

QUESTION

Was Engineer A's decision to recuse himself from discussions and decisions relating to the jointly funded site-development study ethically sufficient under the circumstances?

NSPE CODE REFERENCES

(To be submitted by the contestant(s). Use NSPE Code of Ethics references only.)

DISCUSSION

(To be submitted by the contestant(s). Use the BER format as used in the attached sample case.)

CONCLUSION

(To be submitted by the contestant(s).)

NOTE: In order to maintain anonymity for purposes of judging, the actual body of the entry should not include any reference to the state society, chapter, member, student, university, or any other individual group(s) who submitted the entry. However, be sure to provide the name(s), address(es), email address(es), phone number(s), and NSPE member number(s) of (1) your NSPE chapter or state society, and (2) each of the individual(s) responsible for submitting the entry, on a separate cover sheet accompanying your entry. Submissions failing to include this information will be returned to submitter(s) and will not be eligible for the contest.

GETTING TO KNOW YOU

Member Bio

City of Sioux Falls
224 W Ninth Street
PO Box 7402
Sioux Falls, SD
Phone: 605-367-8601
Fax: 605-367-4310

BRETT LOVRO, PE

Degree:

Arizona State University, B.S. in Civil Engineering with Concentration on Construction

Favorite Quote:

"Sometimes the road less traveled is less traveled for a reason." - Jerry Seinfeld

A brief history... I was born and raised here in Sioux Falls. After high school I went on to College at Arizona State University where I graduated with a Civil Engineering degree. After school, I began working for a private consulting firm in Phoenix for two years and learned all aspects of putting together a full set of plans. I did a lot of drafting and red-lining work, but it was a very helpful experience for me. In 2008, I was fortunate enough to be hired for my current position as a Civil Engineer in the Drainage Department for the City of Sioux Falls. In 2010 I was able to pass my PE exam and obtain my license. I am very grateful that I do not have to go through that again. I have been married to my wife, Nicole, for almost six years now and we have been blessed with two great kids, Noa (it is a girl) and the newest addition Wilder who was a Halloween baby for us this year. We spend a lot of time at the Missouri River with family and friends during the summers, and the rest of the year we are waiting for the next summer (and golfing season) to begin.



A LITTLE BIT MORE ABOUT OUR MEMBER OF THE MONTH:

Family: Wife - Nicole, Daughter - Noa (2), Son - Wilder (2 months)

Hometown: Sioux Falls, SD

Job title and years with firm: Civil Engineer, 7 years.

Favorite Room in Your House: Basement living room. It took us five years to finally complete the basement, so now I have been enjoying every minute of it. You can find me in this room every Sunday during Football season, and Monday nights, and Thursday nights, some Saturdays...

Normal Breakfast: Diet Coke, sometimes two of them.

Last CD Purchased: Probably an Elmo CD for my daughter. It has since been "lost."

Last DVD Purchased: Once again, an Elmo DVD for my daughter to use on long car rides. It is either that or we can listen to "Happy" 85 times in a row.

Hobbies: I try to golf, play tennis, watch football, and spend time with family.

What do you collect? Nothing really, if I try to collect something my wife will end up throwing it away.

Best Personality Trait: Good sense of humor, I think anyways.

Pets: A Yellow Lab mix - Brody

Pet peeves: People who keep their bright headlights on at all times on the highway. Even worse, the ones who turn them down briefly, but cannot wait until they are past you to turn them back on.

Favorite beverage: Diet Coke by day, Bud Light by night.

Favorite TV Show: Either Archer or Vikings. Quite different from each other, but both are great.

Favorite Season: Summer, without a doubt.

People may not know... I can probably count on one hand the number of books that I have read in my life. I am a "I'll wait until they make it into

a movie" kind of a guy.

What made you want to be an engineer? When flying to Phoenix to look at ASU, an older man next to me started talking about college and careers. I told him what I liked to do in school and he spent the next hour or more talking about how I should be an Environmental Engineer. After that, I looked into the different Engineering disciplines and decided to closely follow his advice. Thanks random guy on a plane.

What do you like best about being an engineer? I love problem solving, especially when there are multiple ways to solve problems. It is fun to come up with different concepts and then move forward whichever design benefits everybody the most.

Describe a significant event in your professional life. Getting hired by the City of Sioux Falls was very significant. It was my opportunity to move back to Sioux Falls and be closer to my family and my wife's family. We have to deal with the cold weather, but it is all worth it in the end.

Describe a significant event in your personal life. Having both of my kids. It is amazing how much your life and priorities change after having children, and now I wouldn't want to imagine my life without them.

Describe an achievement from the past year you are proud of. Finally finished my basement last year from start to finish!

What are you looking forward to in the next year? A drought...

I hate it when... it snows. Shoveling is one of my least favorite things to do.

Where is your favorite place and why? Coronado, San Diego. I have spent some Christmas vacations down there and have loved it every time. The weather is always nice, the ocean and beach are right there, and it never gets old seeing large naval ships cruising through the bay.

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<http://www.sdes.org/>

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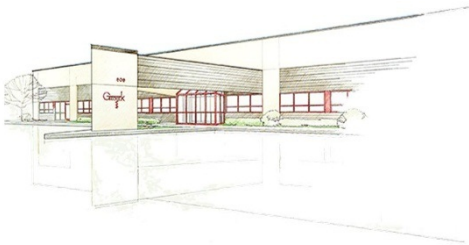
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