



# The South Dakota Engineer

August 2014

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## SDES

2014-2015

### EXECUTIVE COMMITTEE

#### PRESIDENT

Todd (T.J.) Yerdon, P.E.

#### PRESIDENT-ELECT

Stacy Froelich, P.E.

#### VICE PRESIDENT

Brian Jenner, P.E.

#### SECRETARY-TREASURER

Philip Gundvaldson, P.E.

#### PAST PRESIDENT

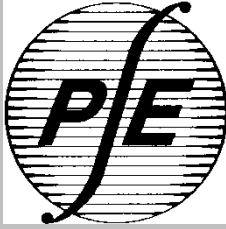
Myron Adam, P.E./L.S.

## President's Message – Todd (T.J.) Yerdon, PE

Hello everyone. We're approaching the end of summer, and the new school year is starting. Along with the schools starting again, many of our Chapters will begin having regular meetings again this fall. I encourage each SDES members to reconnect with their local Chapters and attend their regularly scheduled meetings. At the last SDES Board Meeting, each Chapter reported numerous activities being planned for the coming year. The Black Hills Chapter is busy planning the Fall PDH Conference for October 9<sup>th</sup>, 2014 in Rapid City. This will be a great opportunity for members to acquire a few PDH's and reconnect with other members from across the State for the day. The Central Chapter has scheduled the 2015 Annual Conference for April 8-10<sup>th</sup>, 2015 in Pierre. Both of these events will require volunteers help to make the events successful. I encourage you to get involved with your local Chapter and help out when volunteer support is needed.

During the 4<sup>th</sup> of July week, Gail Boddicker and Ryan Johnson sacrificed their holiday vacation to represent SDES at the NSPE National Conference in Washington DC. Gail attended the executive directors meetings along with some of the general sessions while Ryan represented SDES at the annual House of Delegates (HOD) meeting. During the meetings, Gail gained some useful information regarding free support that NSPE can provide SDES for legislative and regulatory tracking within the State of South Dakota. The SDES Board plans on signing up for these free services to see how effective these services are in the coming year. Ryan reported that the HOD meeting went well. The HOD approved the proposed NSPE strategic plan, and Kodi Church from the Minnesota Society of Professional Engineers was elected as vice president for NSPE. Ryan had the opportunity to have a conversation with Kodi, and she looks forward to attending a future SDES Conference and learning more about our Society while on the NSPE Board of Directors.

In my last President's Message, I reported that the State Mathcounts committee was looking into changes to the annual State competition to help reduce costs for the event. The existing format was a two day event that provided hotel lodging



NSPE  
Leadership Toolbox

Have you remembered to pay your membership dues? If you need an invoice, please go to [www.sdes.org](http://www.sdes.org), where you can pay your dues online or contact Gail Boddicker at 394-6674 or [gail.boddicker@sdsmt.edu](mailto:gail.boddicker@sdsmt.edu) for a copy of your invoice.

As a reminder, if you wish to pay your membership dues by check, please contact Gail for a revised invoice – the invoice that you initially receive has the credit card transaction fees applied. If you pay by check, I will revise your invoice to deduct those charges.

It is a good idea to periodically check your records to be sure your contact information is correct. You can update your information online or contact Gail with the information.

for participants. In order to help reduce costs, the committee decided to change the format to a one day event with no hotel lodging provided. Just like in past years, the 2015 event will be held in Pierre, and the committee will monitor the success of these changes for future events.

The South Dakota Board of Technical Professions has made some proposed revisions to the South Dakota Codified Law regarding certifying, sealing, signing, and dating documents prepared by licensed technical professionals. A link to the proposed changes can be found on the SDES website. Please review the proposed changes, and send any comments you might have to Gail Boddicker prior to September 12<sup>th</sup>.

I look forward to seeing you in Rapid City on October 9<sup>th</sup> for the Fall PDH Conference.

TJ Yerdon, P.E.  
2014-2015 President

## Summer 2014 SDES Draft Board Meeting Minutes

### SOUTH DAKOTA ENGINEERING SOCIETY SUMMER BOARD OF DIRECTORS MEETING MINUTES THURSDAY, JULY 31, 2014

Members and Guests Present: TJ Yerdon, President  
Brian Jenner, Vice President  
Philip Gundvaldson, Secretary-Treasurer  
Myron Adam, Past President  
Andrew Bruels, CE Chapter President  
Jesse Morris, Mathcounts Chair  
Laurie Schultz, Awards Chair  
Gail Boddicker, Executive Director

President Yerdon called the meeting to order at 1:00 p.m. Gundvaldson confirmed a quorum for the meeting.

The IRS is now inquiring whether non-profit tax-exempt entities have adopted a Conflict of Interest Policy to ensure that charitable funds are not being used for anyone's private gain. Hearing no conflicts from the board members in attendance, Yerdon proceeded with the meeting.

#### **Review and Approval of Meeting Agenda**

Yerdon made the following modification to the agenda: Advertising on the state website.

Jenner made a motion to approve the amended agenda, Adam seconded the motion and the motion carried.



## ENGINEERING A STRONGER PROFESSION

NSPE is on a mission of organizational innovation and development to effectively serve the licensed professional engineer and those on the licensure path.

*If you haven't already seen the video and other resources related to the Society's new Statement of Strategic Direction, check out [www.nspe.org](http://www.nspe.org) and the link to "Mission: Engineering a Stronger Profession."*

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### **Minutes of Previous Board Meeting**

Adam made a motion to approve the April 16, 2014, board minutes, Bruel's seconded the motion and the motion passed.

### **President's Report - President TJ Yerdon, PE**

Below are a few items and notes from the last quarter:

- The National/State agreement was completed and filed.
- SDES provided a letter of recommendation for Kodi Church as a VP candidate for NSPE.
- DPC – I've delayed my meeting with the other DPC members until next quarter. I asked Gail to research what NSPE can do for SDES regarding MultiState. Gail will let the board know more about what role MultiState can fill for SDES and what SDES needs to do to receive their services. Once we have a good understanding of what NSPE can provide, I'll set up a meeting with the DPC member to discuss their thoughts on the DPC.
- NSPE National Conference – Gail Boddicker and Ryan Johnson attended the 2014 National Conference. Gail will provide a report from the conference at the board meeting. Ryan attended the NSPE HOD meeting representing SDES. Kodi Church won the VP position, Neil Write won the Member at Large position, and the strategic plan passed unanimously. Thanks to Ryan for filling in this year as the HOD represented.
- Ryan Johnson was able to have a conversation with Kodi Church regarding coordinating a visit to South Dakota. Our board will need to decide if we would like her to visit one of our State events in the coming year.
- Gail worked with me and Phil to develop monthly accounting reports. We'll make adjustments to the reports as we see fit going forward. Hopefully these reports will provide a better snapshot of where our accounts stand and provide Phil a better understanding of monthly transactions for SDES.
- We're still looking for a volunteer for the Awards committee, and a volunteer for the 2015 Candidate Screening Committee.
- Gail was approached regarding advertising within the SDES website. During our 6/24/14 phone call our board discussed not letting an organization advertise on the website for free. At this point we were not interested in allowing advertising on the website.
- North Central Region Conference Calls have been changed to the first Wednesday of the month at 12pm central. All board members are welcome to be part of the call.
- I sat in on the ACEC board conference call with Len Neugebauer regarding the proposed changes to the SDCL regarding signing and sealing of professional documents. Len basically said the proposed changes do not require anyone to change their current practice for signing and sealing documents but provides clarification and flexibility for individuals.

**President-Elect's Report - President-Elect Stacy Froelich, PE**

No report.

**Vice President's Report – Vice President Brian Jenner, PE**

No report.

**ALL REPORTS WILL BE SUBMITTED IN HARD COPY FOR DISTRIBUTION AT THE MEETING AND IN DIGITAL FORM TO BE PUBLISHED IN THE ENGINEER.**

**Goal 1: Promote the competent, ethical, and professional practice of engineering.**

Membership – Gail Boddicker, Executive Director

Boddicker reported that SDES membership is at 455 members; a decrease of 12 members since the April 2014 report; however, it is an increase of 4 members since July 2013.

**Goal 2: Enhance the image and stature of engineering professionals.**

University and Public Relations

No report.

**Goal 3: Provide education, professional development, networking opportunities, and other benefits to engineering professionals and students.**

2014 SDES Annual Conference

Gundvaldson summarized the written report provided by Shannon Schultz for the 2014 annual conference. It was a successful event with 200 attendees and a profit to the chapter of nearly \$7500.

2014 Fall PDH Conference

Bailey provided information detailing the fees associated with the fall conference. There was a motion to approve the budget; Adam amended the motion to approve the budget with the stipulation that students should be invited to attend at no cost and \$10.00 for lunch. The state will absorb the remainder of the difference for a student lunch. The motion was approved. **Action: The BH Chapter should amend their conference information.**

Awards – Laurie Schultz, PE

Schultz asked the board to advise her if they desired to change the format of the award recognition. No action.

Schultz will be stepping down from the Awards Chair position following the 2015 annual conference.

Endowment Promotion – Jason Kjenstad, PE

No report.

### **MATHCOUNTS – Jesse Morris**

Morris reported that the state competition is scheduled for March 14, 2015. Following discussion it was decided that the competition will be held in Pierre in 2015. It was also decided that the event will be a one day event. Registration will begin in the morning, lunch will be provided and the competition will begin following lunch. Since the SDES will be decreasing its expenses associated with the event, Gundvaldson suggested that the rules on the number of students who can advance to the state competition be revised. **Morris will contact the Kings Inn to request information for the facility and food expenses. Once confirmed, Morris will draft a letter for the chapter coordinators that will be distributed to the coaches.**

### **Goal 4: Advocate the interests of engineering professionals and protect the public through an effective government relations program.**

Design Professionals Coalition – Al Berreth, PE, Jeff Hines, PE  
NSPE offers the states the opportunity to utilize the VoterVoice and MultiState programs. These programs allow for the tracking of legislative bills at the state and federal level. The state society staff has access, at no cost, to legislative and regulatory tracking. **Boddicker was approved to register for both VoterVoice and MultiState.** Although there have been past discussions regarding discontinuing affiliation with DPC, the board will see how these programs will benefit SDES. **Yerdon will plan to contact the other DPC entities to discuss the DPC issue.**

Licensure – Brian Jenner, PE

Yerdon brought attention to the information provided by Len Neugebauer, of the SD Board of Technical Professions. The SDBTP have made housekeeping revisions to SDCL 36-18A and the document, “Guidelines for Certifying, Sealing, Signing and Dating Documents Prepared By Licensed Technical Professionals in South Dakota”. Members are asked to provide feedback to Mr. Neugebauer prior to September 12.

SD Local Transportation Assistance Program – Jason Kjenstad, PE  
No report.

### **Goal 5: Align the structure, activities, and governance of the society to optimize support and resources for all programs.**

Strategic Planning Task Force  
No report.

Nominations – Myron Adam, PE/LS  
No action.

Treasurer’s Report – Phil Gundvaldson, PE  
Adam made a motion to accept the financial reports, Bruels seconded the motion

and the motion passed.

### **Chapter Activity Reports**

#### **Black Hills Chapter**

No report.

#### **Central Chapter – Andy Bruels**

Bruels reported that the members have begun planning for the April 8-10, 2015, SDES annual conference. The annual chapter picnic is scheduled for August 15.

#### **Eastern Chapter**

P. Gundvaldson reported that the annual golf outing is scheduled for August 7, the members have begun planning for the spring awards banquet, and the members built a retaining wall for the Habitat for Humanity program.

#### **Old Business**

No Old Business

#### **New Business**

NSPE Representative at State/Chapter Events

The Eastern Chapter invited Kodi Church, NSPE Vice President, to attend their chapter awards banquet in February 2015. **Boddicker will also request that a NSPE representative attend the annual conference.**

North Central Regional Conference Call

The calls are scheduled for the first Wednesday of the month at 12:00 Central Time. **Boddicker will provide the SDES executive committee contact information to the NCR director.**

Advertising on the SDES Website

At times, there are entities that wish to advertise on the SDES website. The board will decide on a request by request basis whether they will approve of the advertising.

Jenner made a motion to adjourn, Gundvaldson seconded the motion and the motion carried. The meeting adjourned at approximately 1:40 p.m.

#### **Future Meeting Schedule**

|                                 |                                  |         |                |
|---------------------------------|----------------------------------|---------|----------------|
| SDES Fall Board Meeting         | October 8, 2014<br>3:00 PM (MT)  | SDSM&T  | Rapid City, SD |
| SDES Fall PDH Conference        | October 9, 2014                  | SDSM&T  | Rapid City, SD |
| SDES Winter Board Meeting       | January 28, 2015<br>1:00 PM (CT) | WebEx   |                |
| SDES Spring Joint Board Meeting | April 8, 2015                    | Ramkota | Pierre, SD     |
| SDES 2015 Annual Conference     | April 8-10, 2015                 | Ramkota | Pierre, SD     |
| NSPE Annual Conference          | July 16-19, 2015                 |         | Seattle, WA    |
| SDES Summer Board Meeting       | TBD                              |         |                |

Respectfully submitted,

Gail Boddicker, Executive Director

The above minutes are in draft form and will be enacted on at the fall meeting.

## Members In The News



We are pleased to announce that several of Clark's employees have joined our management team this January as Associates and Senior Associates. Please join us in congratulating them on this achievement! New Associates include:

Dave Burwitz, PE was promoted to the Senior Associate position, Sioux Falls.

John Desens, PE, was promoted to the Associate position, Aberdeen.

\*\*\*\*\*

For Immediate Release: Monday, June 30, 2014

Contact: Kristi Sandal, Public Information Officer, 605-773-3265

### **South Dakota Transportation Hall of Honor to Induct New Member**

PIERRE, S.D. – Tim Bjorneberg from Pierre has been selected for induction into the South Dakota Transportation Hall of Honor for 2014.

The purpose of the Transportation Hall of Honor is to recognize those who have made a lasting, valuable or unique contribution to South Dakota's air, highway or rail transportation system.

The South Dakota Transportation Hall of Honor dates back to 1972 and now includes 83 inductees.

Tim spent 31 years with the South Dakota Department of Transportation beginning his career in a field office in Yankton in 1980. He later moved to Pierre and held various positions including squad leader, Chief Road Design Engineer and State Highway Engineer. His last six years were spent as the program manager of the office of Project Development before his retirement in 2011.

Tim employed a business mentality to the management of the state's transportation system. He was a champion of technology, policy development and

proper investment at the right location at the right time. He knew the value of each project to the traveling public, but more importantly, he recognized the value of the department's employees.

Tim's expertise and commitment to excellence and quality reached far beyond South Dakota's borders as documented by the numerous local and national committees he participated in. He knew that by working together to develop best practices, states would be able to provide a safe, efficient and effective transportation system.

A banquet to honor Tim will be announced at a later date.

For more information, contact the Department of Transportation at 605-773-3265.

\*\*\*\*\*

### **CETEC Engineering Joins AE2S**

(August 1, 2014) – AE2S (Advanced Engineering and Environmental Services, Inc.) is pleased to announce that the staff of CETEC Engineering Services, Inc. of Rapid City, SD, a leading engineering firm in the region, has joined AE2S. The two firms specialize in environmental and civil engineering services, with a focus on water.

“Both companies share a strong commitment to providing outstanding client services, and a focus on delivering high quality projects,” said Gary Cline, PE, AE2S Chief Development Officer (CDO). “This joining allows us to better meet the needs of clients in South Dakota.”

The CETEC business will operate as AE2S going forward, and will maintain its current office in Rapid City. Clients will still have access to the services CETEC provided, as well as additional services such as instrumentation and controls, financial services, structural and electrical engineering, and more.

“We are excited about what this means for our clients and our business,” said Ted Schultz, PE, CETEC Engineering Manager and Principal. “AE2S shares the same core values that we do. We are excited about our future as we combine the expertise and dedication of CETEC and AE2S, and continue the tradition we've built for technical excellence, innovative solutions, and quality service.”

Since 1996, CETEC has provided professional and experienced civil engineering evaluation, planning, design and construction management services for development and renovation of public and private infrastructure.

#### **About AE2S**

AE2S specializes in water, wastewater, water resources, rural water, civil engineering, surveying, mapping, GIS, structural engineering, electrical



engineering, instrumentation and controls, and financial services. AE2S has offices located in Bismarck, Dickinson, Fargo, Grand Forks, Minot, Watford City, and Williston, ND; Eagan, Maple Grove, and Moorhead, MN; Rapid City, SD; Great Falls and Kalispell, MT; Madison, WI; and Salt Lake City, UT. For more information, visit [www.ae2s.com](http://www.ae2s.com) or AE2S on [LinkedIn](#), [Twitter](#) and [Facebook](#).

SOUTH DAKOTA ENGINEERING SOCIETY  
CONTINUING EDUCATION OPPORTUNITIES

SDES FALL PDH CONFERENCE  
OCTOBER 9, 2014  
SDSM&T CAMPUS, RAPID CITY, SD

SDES 55<sup>TH</sup> ANNUAL CONFERENCE  
APRIL 8-10, 2015  
RAMKOTA HOTEL, PIERRE, SD

## SDES Endowment Fund

***Mission Statement:***

*To provide financial support to various educational programs and various societies related activities as recommended by the South Dakota Engineering Society.*

Thanks to the generous support of SDES members, the SD Endowment Fund assets are over \$30,000. At the April 16, 2014, SDES board meeting, the board voted to distribute the funds that are currently available for distribution. The funds will be granted to the Black Hills, Central Chapter, and Eastern Chapter for scholarship awards.

With your contribution, SDES can continue to increase the number of scholarships we are able to award and thereby demonstrate your commitment to help provide a college education for future engineers. To contribute to the SDES Endowment Fund, go to the SDES website at [www.sdes.org](http://www.sdes.org).



Success through community caring



|  | Beginning<br>1/1/2014 | Activity          | Ending<br>8/14/2014 |
|--|-----------------------|-------------------|---------------------|
| <b>Net Assets</b> <a href="#">Show Details</a>     |                       |                   |                     |
| Net Assets - Available for Distribution            | \$2,441.73            | (\$2,400.00)      | \$41.73             |
| Net Assets - Undistributed<br>Income/Loss          | (\$1,974.83)          | (\$46.44)         | (\$2,021.27)        |
| Net Assets- Unrealized Gain/Loss on<br>investments | \$7,300.43            | \$1,271.37        | \$8,571.80          |
| Net Assets - Non-spendable principal<br>endowment  | \$22,182.25           | \$193.25          | \$22,375.50         |
| <b>Total Net Assets</b>                            | <b>\$29,949.58</b>    | <b>(\$981.82)</b> | <b>\$28,967.76</b>  |

**Purpose of this Fund:** To provide financial support for scholarships and other charitable and nonprofit purposes.



**American Society of Civil Engineers**

Dear ASCE South Dakota Section Members:

An opportunity has arisen for our Section to help an underserved community in our state and we are reaching out to you to gauge your level of interest.

In February, ASCE formed an alliance with the American Water Works Association and Engineers Without Borders – USA to create the [Community Engineering Corps \(CE Corps\)](#). CE Corps' goal is to provide pro-bono engineering services to underserved communities in the United States to help them meet their infrastructure needs and improve community members' quality of life. The CE Corps works only with communities that do not have the financial resources to access engineering services in a traditional fee for service manner.

There is a project in South Dakota that is in need of a project team. The Rosebud Sioux Tribe (located in south central SD; Mission, SD) is asking for assistance on the preliminary engineering of an approximately 10,000 sf community house at the spiritual center of the community lands. The project includes working with an architect to decide community house building systems and materials that incorporates the community's input. ASCE is reaching out to us to see if we'd like to adopt this project.

Here are a few items to consider:

- A project team must have a Professional Engineer licensed in the state in which the project will be constructed who is willing to serve as the Responsible Engineer in Charge (REIC). For this project, we would need someone with a strong structural engineering background.
- Additional project team members are needed to work with and support the REIC. These members should have directly related engineering experience.
- An independent review panel of three experienced professionals, who are not part of the design team, is also needed to ensure the quality of the design.
- The time required to complete this preliminary design work will probably be about 40 hours. If the project team proceeds past the preliminary design phase, there will be additional time involved.

Please respond to this email by Monday, September 15, 2014 letting me know:

- if you are a P.E. licensed in South Dakota with structural engineering experience, interested in being the REIC;
- if you are interested in being part of the project team, as a team member or independent panel reviewer (and if so, what directly related engineering experience you have); and
- if you aren't able to volunteer at this time, but believe this is a worthwhile project that we should pursue.

I look forward to hearing from you! Your responses will determine if we adopt this project. If I receive a positive response, I will schedule a teleconference/meeting for interested individuals to learn more and discuss next steps.

To find out more about CE Corps, you can read the [ASCE News article on the CE Corps](#) or visit the [CE Corps website](#).

Best Regards,

Erin Steever

South Dakota Section President-Elect

[southdakota.ASCE@gmail.com](mailto:southdakota.ASCE@gmail.com)

## SD Board of Technical Professions

The SDBOTP welcomes review and input from interested licensed technical professionals on the following documents:

The SDBOTP has proposed changes to the SDCL 36-18A that will be further discussed at their September 19, 2014, board meeting. They will plan to present

these revisions to SDCL 36-18A at the 2015 legislative session.

They have also developed a new guide document entitled, “Guidelines for Certifying, Sealing, Signing and Dating Documents Prepared By Licensed Technical Professionals in South Dakota”. This guide document is intended to accompany and follow the implementation of the proposed changes to SDCL 36-18A, and to be a non-prescriptive document intended to serve as a flexible guide to licensees on the subject of seals and their use.

Email Gail Boddicker at [gail.boddicker@sdsmt.edu](mailto:gail.boddicker@sdsmt.edu), for a copy of the proposed changes and the guide document. The board requested that comments be sent to Gail Boddicker before September 12; she will forward all comments to the Board.

## NSPE New Strategic Plan

“Since July 2012, NSPE and its members have been engaged in an open process aimed at building a Society dedicated to organizational innovation and development. The foundation of that effort has been the association management book *Race for Relevance*, which outlines the challenges faced by today’s associations and provides a plan for change.

Informed by data collected through extensive surveying and the active engagement of about 100 members from 41 states involved in seven task forces, the NSPE Board of Directors has committed itself to reinvigorating an organization that has been serving professional engineers for 80 years. By following the changes outlined in *Race for Relevance*, NSPE will be renewing its unique and vital role in promoting and protecting the value of the licensed professional engineer.

The NSPE Board is committed to integrating the values, strategies, objectives, and action plan outlined in its new Statement of Strategic Direction into the very fabric of NSPE’s ongoing governance and operations.”

At the July 2014, House of Delegates assembly, the HOD voted in favor of supporting the new strategic plan.

### **Vision**

NSPE is a member-centric, nimble, future-focused and responsive organization, serving as the recognized voice and advocate of licensed Professional Engineers.

### **Mission**

NSPE, in partnership with the State Societies, is the organization of licensed Professional Engineers (PEs) and Engineer Interns (EIs).

NSPE, in partnership with the State Societies,

- Serves as the recognized and authoritative expert in licensure, ethics, and professional practice;

- Promotes licensure and assists individuals in becoming licensed; and
- Protects and enhances the value of licensure and the opportunities for the licensed engineer.

### Values

NSPE values:

1. Protection of the public health, safety, and welfare above all other considerations
2. Ethical and competent practice of engineering
3. Innovation through the creative application of math, science and engineering
4. The PE license as the highest standard of professionalism in engineering
5. Continuous learning for professional growth
6. Growth in the number of licensed Professional Engineers
7. Teamwork, unity, and fellowship of all PEs across all disciplines
8. Commitment to the future of the licensed Professional Engineer

The complete document can be found on the NSPE website at:

<http://www.nspe.org/sites/default/files/resources/pdfs/AboutNSPE/2014-2019-NSPE-Strategic-Plan.pdf>

## Highway Trust Fund Short-Term Patch Enacted Through May 2015

Facing imminent insolvency as Congress prepared to adjourn for a five-week recess, the Senate and House finally reached a short-term agreement to provide \$10.8 billion to fund and reauthorize the Highway Trust Fund through next May. With the Department of Transportation set to begin cutting payments to states the next day, the Senate approved H.R. 5021 on July 31st by a vote of 81-13 bringing to an end a showdown between the two chambers. The Senate had initially passed a different version of the bill that would have extended funding only through December 19th, forcing serious debate about a long-term authorization. This effort ultimately failed as the House would not accept the alternate version. NSPE members played an important role as hundreds of members reached out to their elected officials to underscore the tremendous threat insolvency would pose to the public health, safety and welfare and the hundreds of thousands of jobs that would be put at risk. NSPE appreciates that Congress has avoided a major transportation crisis at this time, but recognizes that short-term patches are not the solution. For infrastructure to thrive, a long-term commitment in the form of a six-year authorization needs to be enacted. NSPE hopes that Congress will take this time to develop a meaningful solution to our mounting infrastructure needs.

Read more about this topic in an article published in the July 2014 edition of *PE*

magazine: The Future of the Highway Trust Fund.

Special thanks to the following firms for their support of the South Dakota Engineering Society:

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