

April 2022  
Newsletter

# South Dakota Engineering Society

## Black Hills Chapter

### PRESIDENT'S MESSAGE

Hello SDES members! Spring is in the air, or at least it is at this moment. Our scholarship endowment fund is sitting at just under \$60k, and is one fundraiser away from self-sustaining. Thank you to the members who attended and helped judge during the joint ASCE-NSPE meeting in March.

Women in Science hosted separate conferences for 7th and 8th grade girls in Rapid City last month. These conferences introduce girls to a wide variety of STEM careers and professionals. Thank you to our members who volunteered at the SDES and RESPEC booths, demonstrating soil stabilizing methods. The Chapter donated \$1000 from our accounts, which helps WIS with their E-Week outreach events. Youth in Science will be hosting a similar conference in Spearfish on May 11th at BHSU. Please reach out if you would like to donate, volunteer, or host a booth for that event.

I'd like to welcome Erik Walega to the Black Hills Chapter Board as our incoming Vice President. Thanks for joining the board! Finally, please join us on April 28th for a tour of the VRC facility.

Sincerely,

Rachel Caesar

### 2021-2022 BLACK HILLS CHAPTER SDES OFFICERS

President: Rachel Caesar (Rachel.Caesar@hdrinc.com)  
 Past President: Doug Noyes (douglaspnoyes@gmail.com)  
 President Elect: Joe Noble (Joe.Noble@AE2S.com)  
 Vice President: Zach Keeney (zkeeney@imgengineering.com)  
 Secretary/Treas: Dana Foreman (dana.foreman@kljeng.com)  
 State Director: Stacia Slowey (stacia.slowey@hdrinc.com)

### COMMITTEE CHAIRS

Awards/Recognition: Anne Winckel  
 MATHCOUNTS: Ericka Amborn  
 University Relations: Matt Hanley  
 Public Relations: Amy Hasvold  
 Scholarship & Endowment: Kyle Hansen  
 Newsletter Editor: Zach Keeney

### TREASURER'S REPORT (As of April 1st, 2022)

#### Account

Endowment: \$54,538.83

#### Scholarship/Donation Schedule

Year	Item	Amount
2022	Youth in Science	\$500.00
2022	Scholarship	\$2,500.00
<b>TOTAL</b>		<b>\$3,000.00</b>

# Rapid City Women in Science Conference

On March 15<sup>th</sup> & 16<sup>th</sup> SDES hosted a booth at the Rapid City Women in Science Conference. We shared a mechanically stabilized earth demonstration with interested future engineers and answered questions about careers in engineering. Thank you to those who volunteered!

1



Two students stepping into the SDES demonstration. One box has been filled with sand. In the second box sand had been placed in several layers. Window screen (mechanically stabilizing device) had been placed between each layer.

2



The students are asked to predict the outcome of the demonstration. The boxes are opened and the students weight load the sand.

3



The demonstration shows that the bearing capacity of the sand has been increased by utilizing engineering practices. Students are provided examples of projects that have benefited from a mechanically stabilizing device.



## MATHCOUNTS

A big thank you to Ericka Amborn for taking over the role of the MATHCOUNTS Co-ordinator. For any questions regarding MATHCOUNTS or if you are interested in volunteering at an event please contact Ericka at [EAmborn@ARA.com](mailto:EAmborn@ARA.com).

## OUTREACH OPPORTUNITIES

The Women in Science (WIS) group at Black Hills State University would love to have you as an exhibitor at the 4<sup>th</sup> annual Women in Science Conference! This free, one-day conference is presented to local 7<sup>th</sup> and 8<sup>th</sup> grade girls. The conference is scheduled for **WEDNESDAY MAY 11th, 2022, 9:30 AM – 2:30 PM**, at Black Hills State University in Spearfish, SD.

The conference was developed to inspire young women to pursue math and science courses in high school and consider a career in a science, technology, engineering or mathematics field. Interest in the conference has increased with more schools wanting to attend. This year we have *doubled the number of attendees to almost 800!*

The conference includes a keynote speaker followed by sessions of individual presentations by local professional women in STEM careers. In addition, the exhibit hall is a popular and fun feature of the conference and allows the girls to explore local professions and businesses.

*These students are at a great age for dynamic, engaging activities. An interactive display, a demonstration, or an eye-catching exhibit are great ways to engage them!*

Each exhibitor will have a six-foot long table and two chairs. Access to water and electricity can also be provided upon request. Other requirements for your booth or exhibit can be accommodated as needed. Groups of students will rotate through the exhibit hall throughout the day (from 9:30 AM - 2:30 PM). **Lunch will be provided to all exhibitors. Half-day exhibitors are welcome, too!**

If you are interested in hosting a booth/table at the exhibit hall, please contact us at [bethany.reman@bhsu.edu](mailto:bethany.reman@bhsu.edu) to reserve exhibit space. **WE WOULD LOVE TO HAVE YOU!** If you have any questions about being an exhibitor, please send us your query. Or, if you would rather be a presenter, let us know.

Feel free to pass along this invitation to another organization or individual that you think may be interested in this opportunity to contribute to the education and growth of these young women in our community.

We look forward to seeing you and/or your organization represented at the WIS conference!

Thank you!

Beth Reman, MSc, Biology/Chemistry Instructor  
WIS Conference Exhibits Coordinator—Spearfish  
[bethany.reman@bhsu.edu](mailto:bethany.reman@bhsu.edu)  
605-645-1405

Katrina H. Jensen, PhD, Associate Professor of Chemistry  
Director of the WIS Conference  
Black Hills State University  
Phone: 605-642-6247  
[Katrina.Jensen@bhsu.edu](mailto:Katrina.Jensen@bhsu.edu)

## WELCOME NEW MEMBERS!

The Black Hills Chapter would like to recognize the following new members:

- Christian Heinrich
- Daniel Egan
- Trey Smith
- Kaleb Hedman
- Hunter Kiewel
- Nicholas Johnson

The Black Hills Chapter would also like to recognize the following new STUDENT members:

- Ariana Floyd-Reading
- Elijah Reitzel
- Spencer Lund
- Tierney Robinson
- Kristin Guerin
- Cooper Powers

If you know an engineer not currently a member encourage them to JOIN! For more information about becoming a member contact Nancy Hoines at [sdengineeringsociety@gmail.com](mailto:sdengineeringsociety@gmail.com).

## BLACK HILLS CHAPTER NEWSLETTER SPONSORS

Contributions from local consultants, contractors, suppliers, government agencies, and other related companies provide vital funding for our scholarships, MATHCOUNTS program, and other worthy activities. Newsletter sponsors go from September to May. Please consider the minimal donation of \$10 per month or \$75 for nine months to show your support for the local SDES chapter and get the exposure of your advertisement in the newsletters throughout the next year. Ads may be business card size (up to 2 3/4" H x 3 1/2" W), B&W or color, your choice. If you and/or your company are interested in becoming a Sponsor, please contact Zach Keeney for payment information and send an electronic version of your ad to [zkeeney@fmgengineering.com](mailto:zkeeney@fmgengineering.com). If you do not have an electronic version, we will be able to scan it.

**A BIG THANK YOU to all our Sponsors!**

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