

SDSTA

South Dakota Science Teaching Association

Winter Issue | Date: December 26, 2022

SDSTA Members,

I hope you are enjoying your Christmas break and have been able to step away from the classroom for a few days, are rested and are ready for the new year! 2022 has been a busy year with many opportunities for growth in science education across the state. I have enjoyed planning for the upcoming conference and know that we have some great things lined up for February. The 2022 SD STEM Ed Joint Professional Development Conference held in Huron at the Crossroads Hotel and Huron Events Center, February 2nd, 3rd, and 4th is titled "My Students Still Need Me." The conference will feature Keynote Speaker Stephen Pruitt who is sure to keep you engaged during his banquet speech: "Battling Ignorance: 4 Words That Can Change the World."

The schedule is full of great sessions than span from early elementary to post-secondary with topics that reach elementary, science, mathematics, and CTE teachers, as well as administrators. The Schedule-at-a-Glance (SAAG) is on our website and ready for your viewing. The program will be there soon. Keep an eye out for an email when that is available.

Conference prices jump on January 16th, plus you will no longer be able to register online, so be sure to register soon! A limited number of complimentary books (Crosscutting Concepts: Strengthening Science and Engineering Learning edited by Jeffrey Nordine and Okhee Lee) are available to those who register early. Also, don't forget to grab a banquet ticket to

enjoy the fun Friday evening we have planned with awards, recognitions, and our keynote speaker. If you miss these dates, onsite registration is available but a banquet ticket cannot be guaranteed.

Although this is not an election year, two new positions have been added: Socials Officer and Web Manager. We will take nominations for these positions and vote science leaders into these offices on Friday, February 3rd. If you're not interested in an elected position, there are still ways for you to be involved. Join us for the SDSTA board meeting following the final session on Friday at 4:30 in room Dakota E, at the Huron Events Center. If you have any questions about these positions, please email me! 😊

Now, if you have not done so already, go to our website and get registered! If you would like to submit something to be included in the March newsletter, please email the information to Julie Olson, kernelmom@gmail.com, and/or Michelle Bartels, michelle.bartels@k12.sd.us by March 12th.

Ashley Armstrong
SDSTA President





SD STEM Ed

SD STEM Ed Conference

My Students Still Need Me

February 2, 3, & 4, 2023

MEET YOU AT THE **CROSSROADS EVENT CENTER, HURON, SOUTH DAKOTA!**

JOIN EDUCATORS FROM AROUND THE STATE TO COLLABORATE AND LEARN ABOUT SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS!

FEBRUARY 2ND

Thursday 7:00 - 9:00 PM - Conference Kick Off

Prairie B Science - Science Showcase

SDSTA President Ashley Armstrong & Ally Bowers

Bring an activity to share with colleagues that relates to your science classroom. Share your lesson by bringing copies to share or a link on social media (or send to officers@SDSTA.org to post to their web). Pizza will be provided for those who attend!

FEBRUARY 3RD

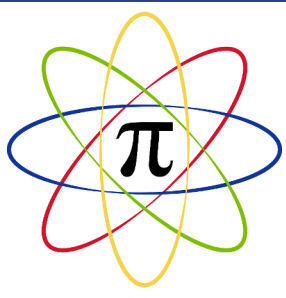
Friday 8:00 AM - 8:00 PM

- Exhibitors - get tickets for prize drawings and find the secret exhibitor
- Over 50 sessions to choose from
- Lunch Included!
- Business meeting from 4:30 to 5:30
- **SOCIAL HOUR** sponsored by Chet Riddle & Imagine Learning
- Banquet (\$30 for a ticket)

FEBRUARY 4TH

Saturday 8:00 AM - 4:15 PM

- Exhibitors - get tickets for prize drawings and find the secret exhibitor
- Over 65 sessions to choose from
- Lunch Included!



31st Annual
SD STEM Ed
Conference
2023

MY STUDENTS STILL NEED ME!

Join educators from around the state to collaborate and learn about Science, Technology, Engineering, and Mathematics!

February 2nd, 3rd, & 4th

CROSSROADS HOTEL &
HURON EVENT CENTER
Huron, SD

<https://bit.ly/SDSTEMEdRegistration>



Keynote Speaker
Dr. Stephen Pruitt

Battling Ignorance:
4 Words That Can
Change the World

Plan to attend the 2023 SD STEM Ed Conference Banquet Supper where Dr. Stephen Pruitt will include his keynote titled: "Battling Ignorance: 4 Words That Can Change the World."

Educators want to change the world. Educators are the ones that can. Join Dr. Pruitt, former science teacher and science/policy leader for a funny, yet current look at the role of teachers in changing the world. Dr. Pruitt will share his experiences, both personal and professional, to remind us of the power of teachers in his life and as we recover from COVID.

Dr. Pruitt has long been a member of NSTA and has worked for national importance of science education and support of teachers. His humorous storytelling and somewhat unique look at the world will engage you and inspire you as we all continue the fight against ignorance.

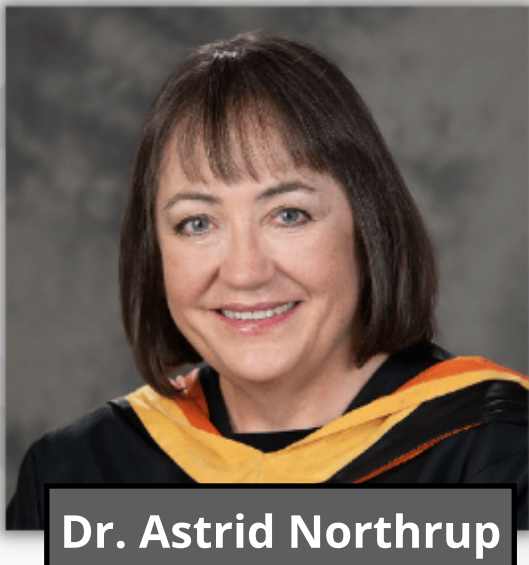
Don't forget to purchase your banquet ticket!

SD STEM Ed Conference Banquet

Friday February 3rd
6:30 - 9:00

SDCTM Awards SDSTA Awards

SD Presidential Awards

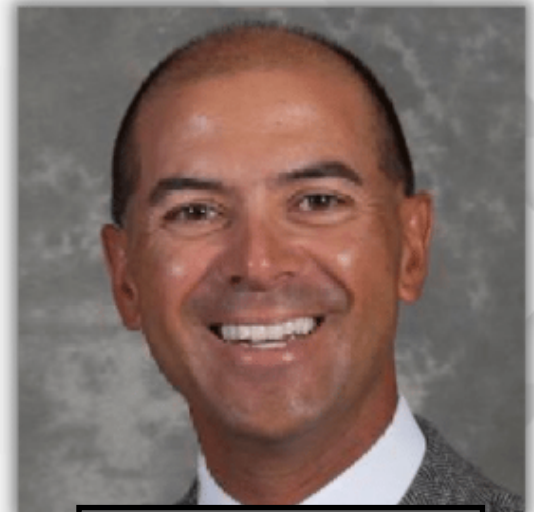


Dr. Astrid Northrup

Dr. Astrid Northrup will join the 2023 SD STEM Ed Conference as a science featured speaker.

Dr. Northrup obtained her B.S. and M.S. in petroleum engineering, working in the petroleum industry for several years before completing her Ph.D. in science education. She found her home as Professor of Engineering Science and Mathematics at Northwest College in Powell, WY. She serves on the Wyoming Professional Teaching Standards Board, on the Wyoming NASA Space Grant Board of Directors, and as Regional Coordinator for MathCounts. She is a published author on topics of women in engineering and K-12 computer science initiatives. Plan to attend her exciting conference sessions that will help you bring engineering into your classroom.

Dr. Robert Stack will join the 2023 SD STEM Ed Conference as a Mathematics featured speaker. Rob Stack is a Professor of Mathematics and Chair of the Mathematical and Natural Sciences Department at Chadron State College in Chadron, Nebraska. Rob has taught classes at the college level for the past 28 years. Before that he taught junior high and high school in Marion, SD and Rosenberg, TX. Rob is a past president of the Nebraska Association of Teachers of Mathematics, and was the recipient of the 2004 Teaching Excellence Award for the Nebraska State College System. He graduated with a B.S. in Mathematics Ed., an M.A. in Mathematics, and an Ed.D. in Curriculum and Instruction, all from the University of South Dakota. Rob grew up in Tabor, South Dakota, and, while attending USD, met his wife Jill. They have been married for 25 years, have a perfect number of children, and the first prime of grandchildren.



Dr. Robert Stack



Sharon Rendon

Sharon Rendon will join the 2023 SD STEM Ed Conference as a mathematics featured speaker.

Sharon Rendon is the Director of Professional Learning for CPM Educational Program. She currently lives in South Dakota. During her teaching career she has taught both MS and HS courses, along with college courses for practicing teachers. In addition, she has served as a math coordinator for a large district and serves on the board of directors for NCSM, Leadership in Math Education.

Officer Submissions

Puck.JS and Phyphox - Dr. Larry Browning, SDSTA Science Liaison

The Puck.JS v2 is a sensor package that easily connects to your or a student's phone. With minimum effort and time students can use their phones to collect data from these small, lightweight, and affordable sensors that measure acceleration and rotation, light intensity, magnetic field, temperature, and voltage. They easily tie into the Phyphox app which is free and open source. This solves the problem of using expensive phones or tablets to take data directly as well as being compact and easy to secure to dynamics carts, spinning platforms, near magnets, anywhere you could place a stack of six half-dollar coins (but weighs less).

If you are interested in exploring this technology, you can watch the video of Phyphox integrated with the Puck.JS at <https://youtu.be/oYdanx3xPGw>



The code on the left will integrate the Puck.JS into Phyphox if you already have Phyphox on your phone or tablet. You can download Phyphox for free from wherever you find your apps.

If you are interested in purchasing Puck.JS, a list of distributors is available at: <http://www.espruino.com/Order#puckjs> (see QR code on right). I personally have had success at the Adafruit site: <https://www.adafruit.com/product/3372>.



I will have some Puck.JS devices for us to explore at the STEM conference on Saturday, Feb. 4, 2023, at 9 AM in Prairie A of the Huron Convention Center. With tax, shipping, and handling they cost about \$50 each and I do not get a commission. I just love to collect data – and help you and your students collect data too.

2023 Knowles Teaching Fellowship - Alison Bowers, SDSTA President Elect

Here is an opportunity that can help support your new high school science and math teachers to enhance their practice.

Over the course of the five-year [Fellowship](#), Knowles Teaching Fellows receive access to a wide range of benefits, including more than **\$50,000 in financial support**, coaching and mentoring from experienced teachers and teacher educators, and membership in a national community of more than 450 math and science educators.

Applications for 2023 Knowles Teaching Fellowships are due by 11:59 pm PST on January 8, 2023. Eligible teachers are encouraged to [apply](#).



If you are interested in learning more, [schedule a meeting](#) with Ebony Freeman, Marketing and Communications Manager.



Member Submissions

SD AAPT HS Photo Contest - James Stearns, SDSTA Historian

Photo Contest Details

The contest is open to high school students in grades 9-12 (or equivalent international grade level). **Students must print out, sign, and return the Contest Rules and Entry Agreement, HTML version or WORD version, when submitting their entry. Failure to submit this form will invalidate the contest entry.** (Photo, description, & entry agreement may be emailed to James@SDSTA.org.) Entries are limited to 6 per teacher per school each year. Photo and description must be the student's original work.

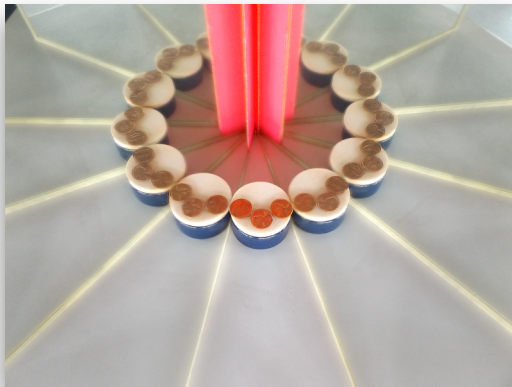
Categories

Photos may be in one of two categories described below, and will be judged on the quality of the photo and the accuracy of the physics in the explanation that accompanies the photograph. Students may submit an entry in one (not both) of two categories:

- **Natural** — any situation that you saw occurring and photographed
- **Contrived** — a situation where the objects were manipulated to produce the phenomenon photographed



The Halo



Reflections

Prizes

SD-AAPT will award cash prizes & certificates. (Usually given to the top three places only.)

Judging

The photos entered will be displayed and judged during the annual Winter Meeting at the SD STEM Ed Conference (or Joint Science & Math Conference) in Huron in February. If more than 100 entries are received, a group of volunteer physics teachers will determine the 100 best entries to be displayed & judged in Huron. Failure to abide by all rules will result in disqualification.

Deadline

This year's entry deadline has been extended to **January 20th.**

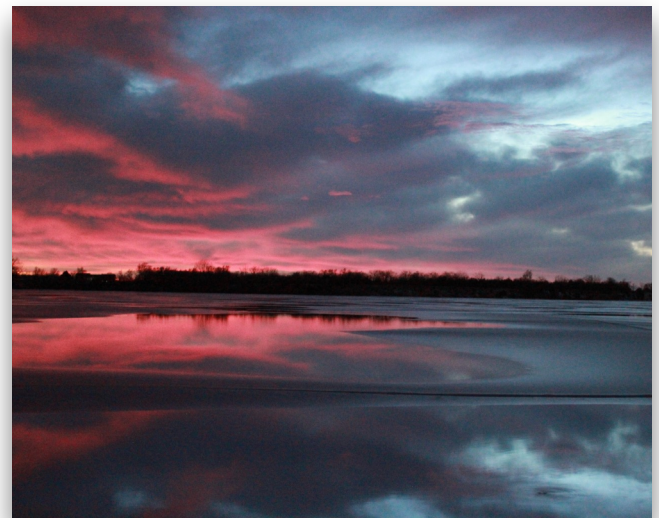
Send submissions to:

James Stearns
15 North Fifth Street
Groton, SD 57445-2024

Questions

Please email James Stearns at James@SDSTA.org

<https://sdsta.k12.sd.us/SDAAPT/sdaapt.doc> OR <https://sdsta.k12.sd.us/SDAAPT/PhotoContest.htm>



Red Sunsets

Student Opportunities

Davis-Bahcall Scholars Program

Here is an amazing opportunity for high school seniors. This is a wonderful, once-in-a-lifetime, all-expense-paid opportunity that connects science-curious students with peers and mentors while exploring the modern world of STEM research.

Scholars will spend four weeks exploring leading national and international laboratories and universities in the Black Hills and Midwest, Chicago, and Italy. The group will also visit national monuments and landmarks of cultural significance during their time together - with all expenses covered by the program.

To involve students from all over the state in this program, help cast a wide net and attract a diverse collection of STEM-passionate students to apply for this fantastic learning and travel experience. For more information and links to apply for the Davis-Bahcall Scholar Program, please visit: <https://www.sanfordlab.org/dbs>.

The adventures of previous Davis-Bahcall Scholars are chronicled on the Davis-Bahcall Scholars Facebook page. Check it out to see the adventure and learning that are possible for students across South Dakota.

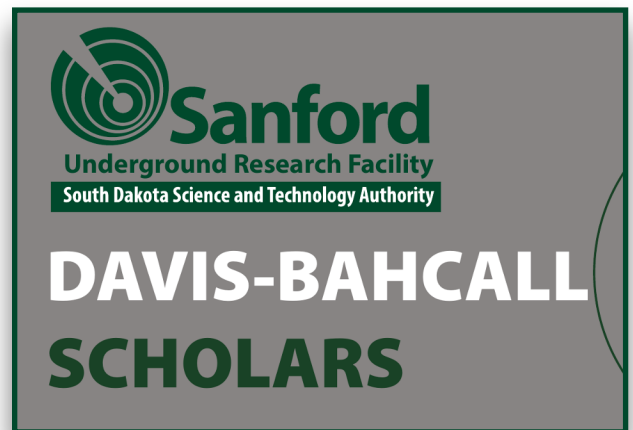
In 2023, the program will run from Sunday, June 11th through Sunday, July 9th. Application deadline is January 20, 2023.

Please encourage your science-curious students to apply!

If you have any questions contact:

Nicol Reiner
Education and Outreach Director
Sanford Underground Research Facility
Black Hills State University

(605) 571-2319
Nicol.Reiner@bhsu.edu



SD Science Olympiad

South Dakota Science Olympiad is a program devoted to

- improving the quality of science education,
- increasing student interest in science, and
- providing recognition for outstanding achievement.



Science Olympiad, as the name implies, is the Olympics for science-based events. Team competition is patterned after track tournaments with challenging and motivational events ranging from earth science through physics. Events range from hands-on labs to student-built machines, and from outdoor events to paper-and-pencil tests.

There is also a balance between events requiring scientific knowledge and understanding, and others requiring process and application skills. There are some events which require an individual from one team to compete against other individuals from other schools, whereas most Events require teamwork, group planning, and cooperation. BUT MOST OF ALL: The emphasis is on Learning, Participation, Interaction, having Fun and Team Spirit!

Student Opportunities



K-12 STUDENTS! SUBMIT AN ENTRY AND YOU COULD



ATTEND A VIRTUAL
EVENT WITH NASA



WIN A TRIP
TO NASA



WIN A NASA
PRIZE PACK

EVERYONE
WHO
SUBMITS!

Sign up for the challenge (it's free!), learn about nuclear "batteries" that power space exploration, and dream up a new space mission.

<https://rps.nasa.gov/power-to-explore>

(TEACHERS CAN SIGN UP AN ENTIRE CLASS!)



IN SUPPORT OF NASA'S RADIOISOTOPE
POWER SYSTEMS PROGRAM



Grants - **APPLY NOW** - Time is running out!

Kelly Lane Earth and Space Science Grant

\$10,000 total for two awards:

For SD science and math teachers only- Science and math teachers at public, private, or tribal schools in South Dakota may now apply for the **17th annual (2023) “Kelly Lane Earth and Space Science Grant”** provided by the NASA South Dakota Space Grant Consortium. **Up to two \$5,000 grants** will be awarded to selected teachers. The award seeks to improve STEM education in the state through the support of innovative programs in precollege education. Preference will be given to applications focusing on topics pertaining to space science, earth science, and/or the use of geospatial technology. Applications must be received by **January 5, 2023**. Details at:

<http://sdspacegrant.sdsmt.edu/KellyLaneTeacherGrant.htm>

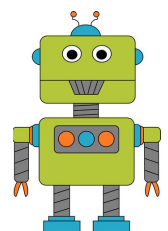


Daniel Swets Robotics Materials Award

\$13,000 total:

For SD science and math teachers and informal educators- The NASA South Dakota Space Grant Consortium invites applications for the **12th annual (2023) “Daniel Swets Robotics Materials Award”**. The award is open to South Dakota teachers/educators who either: A) have taken robotics training or plan to take robotics training and want to begin new robotics programs and teams, or B) have sustained robotics programs/curriculum in their classrooms or at their schools and are in need of additional support due to growth in the number of student participants or aging robotics materials. Applications must be received by **January 5, 2023**. Details at:


<http://sdspacegrant.sdsmt.edu/DanSwetsRoboticsAward.htm>



Opportunities

Call for Outstanding Biology Teacher Nominations

Congratulations to the 2022 SD Outstanding Biology Teacher Jenna Sinner from Webster Area School District. Nominations for the 2023 awardee are now open.

 To nominate a teacher for the 2023 award, email the nominees contact information to the OBTA Director jeff.peterson@k12.sd.us. Please write 2023 OBTA Nomination in the subject line and include your email signature.

Criteria for Selection

1. Candidates must presently be teaching Biology/Life science (includes middle school) and must have devoted a significant portion of his/her career to the teaching of biology/life science.
2. Candidates from public, private, and parochial schools are eligible.
3. A minimum of three years of teaching experience is mandatory before applying for the OBTA award.
4. Candidates need not be members of NABT.



* Unsuccessful candidates may be re-nominated from year to year.


* Candidates may receive the award more than once, after 10 years.

Application Process and Award

The nominee will receive an email notification with application details including a deadline of March 31. In April, all completed applications are reviewed by a selection committee. Upon notification the awardee will receive an invite to the 2022 NABT national conference, a TBD stipend sponsored by Sanford Health, and recognition at the local, state, and national levels!

Apply for the Grosvenor Teacher Fellowship

Your students deserve inspired teachers. That's why the National Geographic Society has partnered again with Lindblad Expeditions to send educators out into the field around the world to learn, create, connect, and explore!

 **The [Grosvenor Teacher Fellowship](#) is a professional development opportunity for pre-K-12 educators.** Exemplary educators will be selected to host aboard Lindblad Expeditions' voyages for a life-changing, field-based experience. Fellows will transfer their onboard experience into new ways to bring geographic awareness into their learning environments and communities.

[Submit your application today](#) and share your teaching and leadership abilities and how this experience will positively impact you, your students, and your teaching environment.

Grosvenor Teacher Fellows are an integral part of the National Geographic community, working to further young people's understanding of the planet and empower them to generate solutions for a healthier and more sustainable future. They help ensure that the next generation is armed with geographic knowledge and global awareness.



Opportunities

Professional Learning Opportunities

The Education & Outreach team at Sanford Underground Research Facility offers a range of face-to-face, virtual, and online opportunities designed to help you expand your practical skills AND build your capacity to develop and facilitate three dimensional science learning experiences for your students.

We look forward to seeing you at the SD STEM Ed conference in Huron this February. Stop by our table to say hi, or join one of our sessions!

If you can't make it to Huron this year, check out our summer opportunities below.



Summer 2023



June 12-16

CORE Principles of Science Engagement and Learning (f2f)

This workshop is specifically designed for teachers who possess a fundamental understanding of the three dimensions of science teaching and learning. During this workshop you will build your capacity to support and sustain three-dimensional science experiences in your classroom.

June 26-30

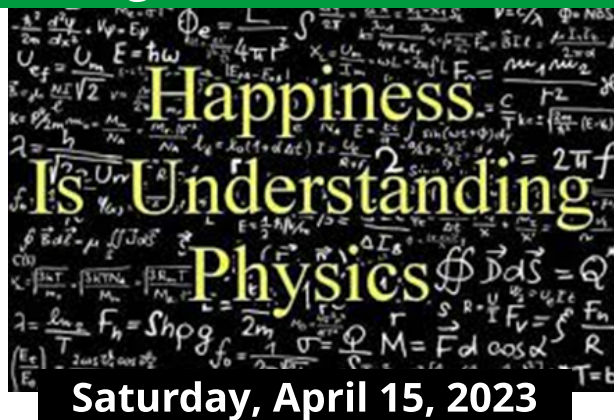
Implementing Three Dimensional Science Instruction (virtual)

This workshop is designed for any teacher wishing to grow their understanding of the three dimensions of science teaching and learning. During this workshop you will build your capacity to implement three-dimensional science experiences in your classroom.

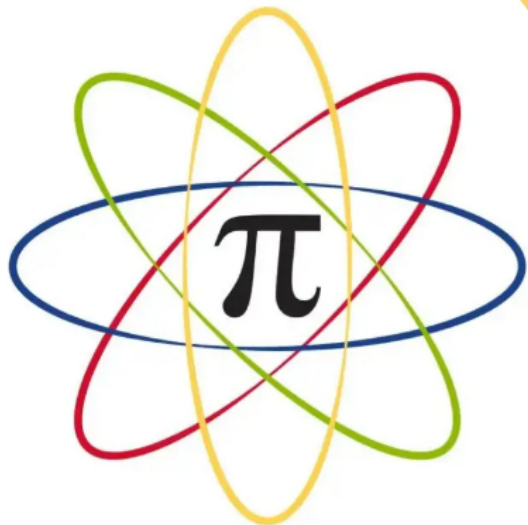


Multi-Section AAPT meeting

If you teach physics or are interested in teaching physics, please mark your calendars for Saturday, April 15, 2023 from 10 AM to noon Central Time. This will be the third Zoom meeting with Minnesota, Kansas, Nebraska, and South Dakota physics teachers to discuss topics of interest. Please let us know if there is something of particular interest to you. Plans are in progress to invite quest presenters and please let us know if there is someone whose insights and experiences would be valuable to you. Possible topics include effective demonstrations and activities, physics of drones, coding in the classroom, and others. Contact Larry.Browning@sdstate.edu with your ideas. The Zoom link for the meeting is: <https://sdstate.zoom.us/j/99186725955>



31st Annual SD STEM Ed Conference



February 2nd, 3rd, & 4th
2023

MY STUDENTS STILL NEED ME

A conference dedicated to professional learning and collaboration.

- ✓ Thursday Night Sharing Sessions
- ✓ Science Sessions
- ✓ Math Sessions
- ✓ Technology Sessions
- ✓ FREE LUNCH both days!

For more information and to register go to:
<http://bit.ly/SDSTEMEd>

Location: Crossroads Event Center, Huron, SD

Sanford PROMISE - <https://research.sanfordhealth.org/sanford-promise>

Sanford PROMISE provides STEM education and outreach for Sanford Research. We're working to inspire the next generation of scientists, problem solvers, and thinkers. **Check out our new Equipment Lending Library Catalog and our new lesson plans.**



Stay up to date by subscribing to our newsletter.

promise.sanfordhealth.org | @SanfordPROMISE

Opportunities

ACS-Hach Professional Development Grant

The grant supports high school chemistry teachers as they identify and pursue opportunities that advance their professional development and enhance the teaching and learning of chemistry in their classrooms. Applicants must teach in a U.S. or U.S. territory school. Teachers can request up to \$1,500. (Deadline **January 21**) Grants may be used for

- Conference or workshop registration fees
- Travel expenses
- Tuition and educational expenses for new/upcoming courses
- Books and online instructional resources
- Substitute teacher pay



Ambitious Science Teaching Book Study

The Interstate Science Collaborative continues moving forward with professional learning opportunities. We will continue with the same great format and facilitators from across the country! Join us during Spring 2023 for a deep dive into *Ambitious Science Teaching*. Consider inviting a colleague to join you!

Who:

K-12 science classroom teachers, support staff, and informal educators (Previous participants are welcome to join to continue reflecting and implementing!)

What:

Ambitious Science Teaching Deep Dive (up to 20 contact hours/continuing education credits)

When:

January 24 through March 28, every Tuesday evening 5-6pm MT/6-7pm CT/7-8pm ET

Where:

Via Zoom with some full group time and plenty of guided small group discussion to share with each other

Why:

We believe in the Core Practices explored within *Ambitious Science Teaching*. Your facilitators have had success offering professional learning the past several years and desire to bring our states together once again for meaningful collaboration!

How: [Ambitious Science Teaching Book Study Registration Link](#)

Materials: Participants are responsible for providing their own copy of *Ambitious Science Teaching* Windschitl, M., Thompson, J., & Braaten, M. (2020) and can be purchased via these two links: **one** OR **two**

For additional information, please contact Jen Fowler at drrangerjen@gmail.com

National Geographic's Free Online Courses

Classes are open to teachers worldwide, and in many of them, learners can earn graduate credits through National Geographic's university partnerships. Classes will run during January 18–March 8 on these topics:

- Connecting the Geo-Inquiry Process to Your Teaching Practice
- Teaching Students to ASK Their Own Geo-Inquiry Questions
- Collecting Data to Explore Plastic Pollution in Our Communities
- Mapping as a Visualization and Communication Tool in Your Classroom
- Teaching Global Climate Change in Your Classroom



These courses are easy to navigate, fit into your schedules, provide interactions, and a wealth of resources.

Opportunities

OUTSTANDING PHYSICAL SCIENCE TEACHER AWARD

The South Dakota Science Teaching Association announces the 45th presentation of the Outstanding Physical Science Teacher Award in the state of South Dakota sponsored by Neiman Enterprises and Rushmore Forest Products, Inc. and coordinated by the South Dakota State University Physics Department. The recipient of this award receives a plaque and a cash award to support their efforts to teach physical sciences with equipment or perhaps help to attend a conference or workshop. This year the award will go to a teacher at a school in a larger population area. Next year a teacher in a smaller population area will be recognized. You are encouraged to submit nominations for this year regardless of your school's size as nominations are saved and reviewed for several years.

Teachers in the areas of physical science, physics, chemistry, meteorology, and astronomy including grades 7-12, are eligible for the award.

To **apply**, a nominee must submit:

- An application form,
- An educational philosophy statement,
- At least four recommendation forms (more if you wish) from:
 - A supervisor (principal or superintendent)
 - A colleague (another teacher but does not have to be teaching in the physical sciences)
 - Two former students

The required forms are available from the SDSU Physics Department (www.sdstate.edu/physics) by e-mailing Sally.Krueger@sdstate.edu. It is important that the information on these forms be as detailed as possible to adequately evaluate each application/nomination.

The forms should be returned by Friday, January 6, 2023 either by email to Larry.Browning@sdstate.edu or mailed to:

Dr. Larry Browning
Department of Physics, Box 2222
South Dakota State University
Brookings, SD 57007

This award recognizes those teachers who are doing or who have done an outstanding job in their profession. If you have any questions, please call 688-5428.

The recipient for the 2023 Outstanding Physical Science Teacher Award will be announced in the at the SD STEM Education Conference in Huron, SD on February 2nd, 3rd, and 4th, 2023 and published in the SDSTA Newsletter.

ASM Materials Summer Camp - Teachers

This week-long, hands-on lab experience shows educators how to use applied engineering techniques in their classroom. Educators work hands-on with metals, ceramics, polymers, and composites, and develop a greater appreciation for the importance of these materials in modern life. The camp is free for attendees, and participants are eligible to receive four Continuing Education Units and can opt for two graduate-level credits. Camps are offered across the United States, in Canada, and virtually.



Consider starting the new year by bringing the Sanford Underground Research Facility into your school or classroom. The Education and Outreach staff have developed an array of original K-12 education resources— including school presentations, phenomena-based curriculum units, and field trip experiences that showcase SURF and its experiments.



Opportunities For K-12 Classrooms

School Presentations

Invite an EO team member to visit with your students about the cutting-edge research happening at the Sanford Underground Research Facility and all that goes into supporting this work. Each presentation provides opportunities for students to connect personally with a presenter who can answer their questions and share real-life experiences.

For topics and additional details

<https://sanfordlab.org/educators/school-presentations>

Curriculum Units

Each curriculum module is aligned with South Dakota's K-12 Science Standards and provides students with engaging learning opportunities that will get students thinking (and talking) about science at a deeper level than ever before. You request the unit, we ship it; you facilitate the unit in your own classroom, then ship it back. We've included (almost) all the materials necessary.

There are fully digital options as well.

For additional details, or to request a module

<https://sanfordlab.org/educators/curriculum-modules>

Field Trips

Bring your students to SURF where they can experience STEM principles in action. We offer a variety of tours, presentations, and hands-on activities for students. While physical opportunities to visit the lab are limited; technology makes it possible to take ANY classroom on a virtual tour of the Sanford Underground Research Facility!

For additional details

<https://sanfordlab.org/educators/field-trips>

Education & Outreach Sanford Underground Research Facility

630 E. Summit Street, Lead SD 57754

For questions or more information, please contact SURFeducation@bhsu.edu

Opportunities



Since 2002, the Transatlantic Outreach Program (TOP) has offered fully funded professional development study tours to Germany for social studies and STEM educators from the United States and Canada.

The purpose of the TOP study tours is to offer educators a multi-faceted understanding of important issues in contemporary Germany and the European Union and to equip them with information, resources, and networks that they can use in their instruction to increase their students' global competency. If you want to take part in meaningful professional development and have an adventurous international experience with other passionate and inquisitive educators, apply for the 2023 TOP study tour by **February 6th, 2023**.

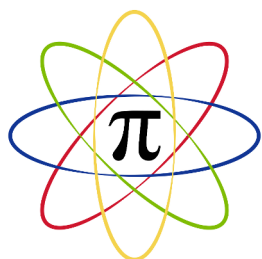


On-demand PD courses from the RSC

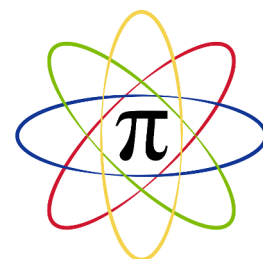
Concept-focused sessions that build confidence in every topic

We are offering all our on-demand PD courses completely free of charge until the end of August 2023, so you can update your subject knowledge and develop new pedagogical strategies at no cost and at a time that's convenient to you.

[Enhance your teaching practice](#)



Don't Forget!
SD STEM Ed Conference 2022
February 3rd, 4th, & 5th



Resources

Green Guardians Environmental Literacy Curriculum

Green Guardians, a California-based educational technology company, has developed an environmental literacy curriculum for grades K–5. The curriculum consists of a series of multimedia lessons and games exploring topics such as pollution, climate change, sustainability, energy, watersheds, waste management, and environmental justice. The lessons use a story base to engage students in learning about their environment, and through inquiry and problem-solving, devise solutions to the problems they study.



green guardians

PROFESSIONAL LEARNING with Flinn Scientific

2023 Webinars:

[Planning Hands-On Science Made Easy](#)

Webinar Date: Tuesday, January 17, @ 4:00 PM CT

[Avoiding Cognitive Overload in AP Classrooms](#)

Webinar Date: Tuesday, February 7, 2023 @ 4:00 PM CT

[Maintaining Momentum After Spring Break](#)

Webinar Date: Tuesday, March 7, 2023 @ 4:00 PM CT


Visit Flinn's [Professional Learning page](#) for more.




Gizmos

Districts that use the State Assessment system have access to Gizmos.

A special account called TE-Science is needed within the State Assessment system to link you to Gizmos.


The directions to access Gizmos: 


After having your TE-Science account set-up, create an account in Gizmos to link to the TE-Science account in the State Assessment system. Gizmos is under "Assessments and Resources", toward the bottom, at the following link: 

Tuva

Districts that use the State Assessment system have access to TUVA.

A special account called TE-Science is needed within the State Assessment system to link you to TUVA.

The directions to access TUVA: 

After having your TE-Science account set-up, create an account in TUVA to link to the TE-Science account in the State Assessment system. TUVA is under "Assessments and Resources", toward the bottom, at the following link: 

Links to the Gizmos and Tuva virtual workshops are:

- [Tuva Workshop video](#)
- [Tuva Slide Deck](#)
- [Gizmos](#)
 - [Passcode: SY@i7%bE](#)



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UPCOMING EVENTS

January 5

Applications DUE

See page 6.

January 15

Pre-Registration Ends

for the SD STEM Ed Conference

February 2-4, 2023

SD STEM Ed Conference

Huron, SD

March 12

Newsletter Submissions due

Any member may submit lessons, ideas, links...

The SDSTA Newsletter is published four times a year and is e-mailed to 67 paid members. The membership year in SDSTA starts with the February conference and ends the thirty-first of January. Dues are due at each conference for member discount rates. SDSTA members may give a one year free membership to their student teachers by submitting the student teacher's name & address. One paid conference registration may be given to the SDSTA member that has made a submission to the newsletter (or given a presentation at the conference) and has referred at least three new members. Members may also earn a 10% finder's fee for any science related ads placed in the newsletter. Our rates are \$50 per page (or 3 to 4 quarter pages).



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