

**It's time for the 38th annual Minnesota
Earth Science Teachers'
Association conference!**

Friday, February 7, 2025



Get to know your fellow Earth science teachers from across the state at the Minnesota Earth Science Teachers' Association Annual Conference.

Concurrent breakout sessions feature master Earth science educators and noted geoscience professionals. Classroom resources will be provided to all attendees.

This conference supports the teaching of the MN Earth and Space science benchmarks articulated in the MN Academic Standards in Science.

5:00 pm Thursday, February 6

Saint Anthony Falls Lab Tour
2 SE 3rd Ave, Minneapolis
Tour the lab to learn about current research and experiments.

*\$10 fee as noted on the registration form.
Reserve and pay in advance.*

Dinner

*(Local restaurant at your expense.)
The location will be decided at a later date and will be noted in the conference confirmation letter you will receive in January.*

Friday, February 7

MESTA Conference

8:00am-3:35pm

District 287 Conference Center
1820 North Xenium Lane, Plymouth

Minnesota Earth Science
Teachers' Association (MESTA)
3149 Alexander Lane
Mound, MN 55364

HOTEL ACCOMMODATIONS

These hotels are near the conference facility. Call for prices and to make your own arrangements:

Comfort Inn Plymouth: (763) 559-1222

Crown Plaza Minneapolis: (763) 559-6600

Ramada Plymouth: (763) 553-1600

CLOCK HOURS AND TDE

Re-licensure clock hours are available at this conference. Consider connecting your professional development/TDE goals to teaching techniques and knowledge gained at this conference.

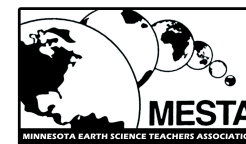
FOR MORE INFORMATION

Conference event information:

Stephanie Erickson (eric0453@umn.edu)

Conference registration questions:

Jess Strom (jessica.strom@orono.k12.mn.us)



Minnesota Earth Science Teachers' Association
3149 Alexander Lane
Mound, MN 55364

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

REGISTRATION FORM

Registration is non-refundable.
Please print.

NAME: _____

EMAIL: _____

SCHOOL: _____

PREFERRED ADDRESS: _____

CITY, STATE, ZIP _____

PREFERRED PHONE: _____

REGISTRATION OPTIONS

- \$130 Basic Conference Registration
 \$80 Pre-service Teacher / Full Time College Student

CONFERENCE REGISTRATION INCLUDING MnSTA MEMBERSHIP

- \$155 Basic Conference Registration
 \$145 First Year Teacher / Retired Teacher
 \$90 Pre-service Teacher / Full Time College Student

COMPLIMENTARY BREAKFAST AND LUNCH

Note any dietary restrictions below. We will try to accommodate, if possible.

OPTIONAL THURSDAY EVENING EVENT

- Add \$10 if you will be attending this event.

TOTAL AMOUNT _____

To register by mail with a check (payable to MESTA send this form to

Jess Strom at 3149 Alexander Lane, Mound, MN 55364.

To register online with a credit card, go to
<http://www.mnearthscience.org/>

KEYNOTE SPEAKER

Belinda Jensen, Chief Meteorologist, KARE-11 News, KARE-11 Saturday Anchor, and Author

MESTA is excited to welcome meteorologist Belinda Jensen as our keynote speaker. Ms. Jensen, a recipient of the AMS Seal of Approval for broadcast meteorology, has been a meteorologist at KARE-11 since 1993 and was promoted to Chief Meteorologist in 2005. Before moving to Minnesota, she worked at the National Weather Service office in Salt Lake City, Utah and produced and co-anchored a sunrise news program.

Ms. Jensen has been visiting classrooms and educating children about the weather for more than twenty-five years. As a child, she was fascinated by science. Today, she is passionate about inspiring children with the wonders of weather as the author of the Bel the Weather Girl series of children's books that introduce children to key weather phenomena. To learn more about her books, follow the link below.

<https://lernerbooks.com/series/10429-bel-the-weather-girl>

THURSDAY EVENING EVENT

Take a tour of the St. Anthony Falls Laboratory (SAFL) at the University of Minnesota.

SAFL was built as a hydraulic research laboratory from 1936-1938. For over 80 years, SAFL has evolved its research program to include overall fluid mechanics research versus just hydraulics to solve real-world problems. With its unique position on the historic Minneapolis waterfront, the St. Anthony Falls Laboratory (SAFL) garners a lot of attention from the local community and visitors to the area. Many people ask what makes SAFL unique. Participants will be able to see for themselves!

View a tour preview at <https://cse.umn.edu/safl/public>

CONCURRENT SESSIONS

Behind The Scenes Meteorology

Laura Lockwood, Meteorologist and Director of Operations, Weatherology

Weather is intertwined with the earth sciences, social sciences, and many others fields of study and career paths. Meteorologists in the education, government, and private sectors help us to understand the weather and aid us in being better prepared for not only everyday life, but the unexpected as well. We will hear about some of the main concepts and fundamentals of the field, including where to find valuable resources for teaching.

Gold Rushes and Minnesota State Geologists

Dr. Kent Kirkby, University of Minnesota

Although Minnesota has a particularly diverse bedrock geology, gold rushes are not a common theme in Minnesota history, yet two of the first three Minnesota State Geologists played pivotal but disparate roles in the gold rushes that altered our state and nation's history. In both cases, the reports of gold in economic quantities were grossly overstated but played out in separate ways. It is a lesson we need to remember in a world where resource exploitation is exponentially expanding and often occurs on the lands of highly vulnerable communities.

The Care and Keeping of a High School Earth Science Teacher: How To Make It All Work!

Anna Karsten, Earth science teacher, Lincoln HS

Converting to a new way of teaching with a new curriculum can seem overwhelming. This session shares a personal philosophy of teaching using the 5E model and some units to use as you incorporate the new science standards. This session will include examples of units with ready-to-teach lessons and ways to modify them for your personal style.

Splendid Sands

Kate Clover, Geoscience Educator

Sands, the grains you casually walk on at the beach or on a desert, vary greatly around the world. They are story tellers that chronicle regional geology and marine ecosystems. Here, we will discuss sands and have time to use microscopes to examine the grains in sand samples. We'll be identifying some rocks, minerals and the skeletons of marine creatures. Expect to learn about sands from the shores of Lake Superior, garnet-rich heavy mineral sands and the biogenic organisms in sands from Puerto Rico.