

Science & Nature Conference Payment Coupon

Please duplicate as necessary.

All registrations must be placed online. This is for payment purposes only.

Please write "Science & Nature Conference" and your student's name on your check before attaching this payment coupon to receive proper credit.

Name of Student _____

District _____ School _____

Grade: ___(3-4)___(5-6) School Contact _____

Name of Parent/Guardian _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Please send payment coupon and check payable to:

South Central Service Cooperative

Attn: Mary Hillmann

2075 Lookout Drive

North Mankato, MN 56003

Registration Fee (By Oct. 14): \$27. Late Registration Fee (Oct. 15-21): \$37.

Science & Nature Conference

Tuesday, October 25, 2016

Gustavus Adolphus College, St. Peter

Registration Fee (By Oct. 14): \$27. Late Registration Fee (Oct. 15-21): \$37.

Students and Chaperones Must Register Online: www.mnscsc.org.

Click "EVENTS & REGISTRATION"

Students: Select "Science & Nature STUDENT Registration"

Payment options: Online when you register or by check.

Chaperones: Select "Science & Nature CHAPERONE Registration"

Adults attend free. Seating may not be available in all sessions.

The planning form below will help students to list session choices before going **online to register**. If you do not see your session listed online, it is full. Please choose another session. Be sure to keep your e-mail confirmation listing your conference schedule. If you experience a problem with registration or **do not receive a registration confirmation** within 24 hours of registration, please email mhillmann@mnscsc.org. Please note: You may need to check your spam or junk folder for your confirmation email.

Online Registration Planning Form

1st choice session #: _____ Title: _____

2nd choice session #: _____ Title: _____

3rd choice session #: _____ Title: _____

4th choice session #: _____ Title: _____

5th choice session #: _____ Title: _____

*This is not a valid registration.
You must register online.*

SCSC reserves the right to add/change sessions or substitute presenters as necessary.

SCSC SCIENCE & NATURE CONFERENCE

OCTOBER 25, 2016
GUSTAVUS ADOLPHUS COLLEGE, ST. PETER, MN



Science & Nature Conference
Oct. 25, 2016
Grades 3-6

Grade 3-4 Conference Schedule

8 a.m. - 8:50 a.m.	Check-in (<i>Alumni Hall</i>)
9 a.m. - 9:55 a.m.	Session 1: Opening Program
10:05 a.m. - 11 a.m.	Session 2
11 a.m. - 11:30 a.m.	Lunch (<i>Alumni Hall</i>)
11:35 a.m. - 12:30 p.m.	Session 3
12:40 p.m. - 1:35 p.m.	Session 4

Grade 5-6 Conference Schedule

8 a.m. - 8:50 a.m.	Check-in (<i>Alumni Hall</i>)
9 a.m. - 9:55 a.m.	Session 1
10:05 a.m. - 11 a.m.	Session 2
11 a.m. - 11:30 a.m.	Lunch (<i>Alumni Hall</i>)
11:35 a.m. - 12:30 p.m.	Session 3
12:40 p.m. - 1:35 p.m.	Session 4

All students in grades 3-4 will attend an opening session from Mad Science and then proceed to their three selected session. **Students in grades 5-6 will select four sessions** to attend throughout the day (no opening program). Sessions are handicap accessible. Please contact us at mhillmann@mnspsc.org to indicate any special requirements.

Please note: Some sessions may contain latex.

Opening presentation for grades 3-4 Mad Science: Spin, Pop, Boom!

Mystify your mind as we explore chemistry! See a series of experiments that change, smoke, and spurt! Watch liquid change into a rainbow of colors. The Mad Scientist mixes up a gooey, foaming paste, and an eerie, smoking genie - in an ordinary water bottle! See Styrofoam "melt" before your eyes! Finally, a volunteer helps make a vat of Mad Science slime!



Things to Remember:

- **All registrations must be made online.** Register early for the sessions of your choice — sessions will be filled and confirmed on a “first come, first serve” basis.
- Registration deadline: Oct. 14, 2016. Cost: \$27/student.
- Late registration: Oct. 15-21, 2016. Cost: \$37/student. Please note, online registration will close Oct. 21. Walk-in registration may be available on Oct. 25 at the conference with limited session availability.
- Schools/families must provide and register their own chaperones. All adult leaders participate in the conference free of charge. Seating may not be available in all sessions.
- The sessions are located in various buildings on the Gustavus Adolphus Campus. Please dress according to the weather as you will need to travel to different buildings throughout the day.
- Everyone is responsible for bringing their own lunch and beverage. Lunch will not be provided and will not be available for purchase.
- Please write Science & Nature and your student’s name on your check to receive proper credit. Mail it with the payment coupon on this brochure to: South Central Service Cooperative, Attn: Mary Hillmann, 2075 Lookout Drive, North Mankato, MN 56003.
- **No refunds for absence.** Schools may send a replacement. Please notify SCSC of changes in advance if possible. Refunds will be issued for cancellations made by Oct. 20. No refunds will be issued after this date. Refunds for online payments will be charged a processing fee.
- For information on session presenters, directions to Gustavus Adolphus College and/or parking on campus, please visit www.mnspsc.org/science-nature.
- **For registration assistance,** please contact Mary Hillmann: 507-389-2509 or mhillmann@mnspsc.org.
- As a participant in the Science & Nature Conference, you grant SCSC permission to publish your photos and/or name for promotional purposes.
- By registering, you release, absolve, and hold harmless South Central Service Cooperative, its employees, and agents from any damage resulting from injury incurred while participating in the Science & Nature Conference. You understand South Central Service Cooperative assumes no responsibility before, during or after the program.

Sessions for Grades 3-4 (Select three sessions)

1. Cutest Life Science Lab Ever – Bunnies!

Learn science concepts while playing with rabbits. See amazing biodiversity with 10 different breeds, many of which are endangered. You will get into the pens and have hands-on time with the rabbits while we talk about genetics, conservancy and the life cycle.

Caleb, Stephanie and Ross Smith, STEM Bunnies

2. So You Want to be a Zookeeper!

Step into the boots of a zookeeper and find out what is really involved in taking care of animals at a zoo. Meet a live bird, mammal and reptile up close and discover how a zookeeper handles, works with and trains these animals.

Naturalists, Minnesota Zoo Zoomobile

3. Oh Deer: Habitat Components in Minnesota

In this session, students will take on the roles of Minnesota wildlife and habitat components (food, water, shelter) in physical activities to discover how animal populations are affected by the features of their habitats.

Educators, Children's Museum of Southern Minnesota

4. All About Bees

What is happening with bees and other pollinators? Why does it matter? Safely observe a working honey bee colony, try on beekeeping suits, sample honey and learn more about bees, why they are important, what is going on with them and what we can do to help.

Erin Rupp, Pollinate Minnesota

5. Sssensational Snake Art

Snakes and reptiles intrigue us with their colorful patterns and the unique role they play in our environment. Roll up your sleeves and prepare for an experience in learning through art! Paint patterns on twigs that match what we see on snakes, lizards and other reptiles while exploring characteristics of reptiles. Take your snake art home and share what you have learned with others!

Melanie Schmidt, Mankato Area Community Education

6. Mysteries of the Minnesota River Valley

Freshwater lamprey? Mooneye fish? What's your dish? We'll have specimens, artifacts, historical items and stories galore to share about the "secrets" of some of the critters common to, but often unnoticed, in the Minnesota River sandbars and mudflats. Hear about the discovery of a woolly mammoth femur right here in the Minnesota River Valley!

Art and Barb Straub, Retired Educators and Master Naturalists

7. Air Dancers

Think like amusement park engineers and design a device that floats, twirls and dances in a column of air.

Educators, Science Museum of Minnesota

8. The Remarkable Reptiles

Join us for this fast paced, lively program covering all five groups of living reptiles including turtles, lizards and snakes!

James E. Gerholdt, The Remarkable Reptiles

9. Geochemistry of Minnesota

Geochemistry of Minnesota seashells and volcanoes break down into some pretty cool chemistry and rock talk! Go back in time in Minnesota to better understand why the land here looks like it does today. Solve a sandy mystery, get a little messy with "lava" and a bit crazy with calcium carbonate!

Heidi Ferris, Growing Green Hearts, LLC

10. Grossology

Sometimes the most interesting pieces of nature can also be termed "gross!" You'll discover cool things such as how that awful skunk smell is an amazing defense tool and the slime used by slugs is fascinating transportation! Plus, by getting the scoop on poop, you will learn that scat is where it's at! And finally, a grossology course just wouldn't be complete without a little blood and bugs. By the time you're done, we will hopefully have changed your "ewww's" and "aaackk's" to "oooh's" and "aaahh's."

Bree Hanson, Prairie Ecology Bus Center

11. Bots Good: Brush-Bot Fun

America's Fun Science and Dr. Fun present a hands-on, electrical robotics class featuring the Brush-Bot. Assemble unique and individualized Brush-Bots and race them to the finish line! Then take your Brush-Bot home to impress friends and family. A copy of "Tyronne Carter Kid Scientist" will be raffled off in each session!

Tyronne E. Carter, America's Fun Science

12. The Bug Show

Participate in this unique, hands-on program where you can examine an assortment of live and preserved arthropods. Use as many of your senses as you feel comfortable! See some of the weirdest, wackiest bugs ever! Hear funny stories about bugs and learn about the many unique (and comical) ways insects protect themselves. Touch (or at least get a close up look at) live bugs. A special bug snack will be available....if you want to use your sense of taste!

Dr. Bruce Giebink, aka Bruce the Bug Guy, The Bug Zone, LLC

13. Wild About Wolves

From Little Red Riding Hood to the Wolf Reintroduction in Yellowstone, wolves capture our imaginations. Wolves have awed and inspired us and can instill fear, even hatred, in others. Learn about the amazing lives of these creatures through artifacts like a wolf pelt, skull, tracks and more. We're sure to have a "howling" good time!

Alisha Flemming, Prairie Ecology Bus Center

14. Have a Ball!

Observe, predict and problem-solve to build a ball course and maneuver balls through a series of motion challenges. We dare you to not have a ball!

Outreach Educators, Minnesota Children's Museum

15. Seven Bears, Oh My!

Find out about the American black bear and the other six bear species from around the world. Compare yourself to a bear in body, senses and food choices. Learn about hibernation and conservation issues and we will make a bear mask for fun!

Lee Ann Landstrom, Author and Interpretive Naturalist

16. Being a Birdbrain Rocks!

Use your birdbrain and your imagination to design and name a bird. Learn about birds by creating one.

Al Batt, Writer, Speaker, Storyteller and Humorist

17. Nano Nano: The Science of the Small

Come explore the strange and surprising world of science on the nanoscale. Through dramatic demonstrations, tricky challenges and exciting experiments, learn how this very small science can be a very big deal!

Bryan Grosso, The Bakken Museum

18. Phun Physics

Physics demonstrations that inform and wow will show the wonder of the everyday world in the areas of light, sound, heat and energy.

Jessie Petricka and Gustavus Adolphus physics students

19. Super Circuits

Experiment with the components of simple circuits: power, loads and switches. Construct and wire a motor-powered fan to take home!

Educators, The Works Museum

20. Planets and Moons

Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Learn about the planets and how they stack up. Discover how scientists use gravity to slingshot space probes deep into outer space with your take home project, the Gravity Assisted Launcher.

Mad Scientist, Mad Science of Minnesota

Sessions for Grades 5-6 (Select four sessions)

21. Training the Little GPS in Our Heads

Learning how to navigate on maps, whether through forest, park or city, or even malls and airports, teaches us so much more than just how to get from where we are to where we want to go. We learn how to make quick decisions, solve problems, and trust our own knowledge and judgement. The power of these skills and the confidence we gain are useful in all areas of our life. Come and learn through navigation games how to confidently know your way without using electronic tools like a GPS or smart phone. Being able to confidently read and interpret a map further opens up the entire world of Global Information Systems (GIS) and sciences.
Andrea Schneider, I Know My Way, LLC, Orienteering USA

22. So You Want to be a Zookeeper!

Step into the boots of a zookeeper and find out what is really involved in taking care of animals at a zoo. Meet a live bird, mammal and reptile up close and discover how a zookeeper handles, works with and trains these animals.
Naturalists, Minnesota Zoo Zoomobile

23. Life as an Ocean Animal

Explore how whales to seabirds adjust to life in the cold, dark ocean. The law of the ocean is "eat quickly or be eaten." Practice feeding like an ocean animal. Discover how your everyday choices can save more than three million ocean mammals and birds EVERY year!
Melonie Shipman, Travelling Naturalist

24. Stream Flow Fun

Come learn all about how streams move and change. Experience the hands on learning of a stream table to investigate how stream channel and watershed landscape changes affect stream flow. We will also talk about stream pollution and effects of flow and pollutants on stream biology.
Eileen Campbell and Joanne Boettcher, MN Pollution Control Agency

25. Grossology

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Heidi Ferris, Growing Green Hearts, LLC

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Dr. Bruce Giebink, aka Bruce the Bug Guy, The Bug Zone, LLC

29. It's Not Magic, It's Science

Join wacky professor Jerry Wenzel as he demonstrates science concepts in a fun and easy to understand way. You will be amazed at what appears to be magic, but is really science. This will be an unforgettable science learning experience that he guarantees you will be asking for more. Who knows, he may even shrink wrap you!
Jerry Wenzel, Science Magic Programs

30. Bots Good: Brush-Bot Fun

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Alisha Flemming, Prairie Ecology Bus Center

35. Oh Knot

We may not like knots in our kite strings or knots in shoelaces, but some knots are very handy to have! Maybe you'll do a little fishing this winter or some canoeing next spring. Perhaps you'll sit around the campfire or do some camping. There are special knots you can use for all these activities that you won't want to be without! Learn handy knots and dazzle your friends and family with clever rope tying skills! You'll even get a knot kit to take home!
Freya Thurmer, Prairie Ecology Bus Center

36. MSU Mankato Biochemists Present Chemical Clue

Students will work in teams to solve a mock crime using different techniques including fingerprinting, chromatography, fabric and DNA analyses.
Theresa Salerno, James Rife, Rebecca Moen and Minnesota State University, Mankato Biochemistry students

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Mad Scientist, Mad Science of Minnesota