



PUBLIC AWARENESS COMMITTEE

October 19, 2018

Fuddruckers (NE 494 & France)

11:00 am - 12:30 pm

In attendance:

Chuck Schwartz		Cara Gheren		Tim Olson		Wayne Houle	
April Crockett		Chadd Larson		Kevin Kielb		Chris Sagsveen	
Beverly Farraher		Jeannine Briol		Lee Mann			
Bob Moberg		Jesse Struve		Russ Matthys			
Lane Christianson		Jennifer Olejar		Bill Bowman			

Minutes taken by: _____

1. Introductions
2. Executive Committee Update
3. APWA Fall Conference Post Mortem
 - a. New Volunteers / Fundraising / Next Year
4. Volunteers and Equipment Needs for Interchange
 - a. Science Rocks – January 3, 2019 – St. Cloud University – 5th and 6th Graders
 - b. Creativity Festival – January 8 and 9, 2019 – U of MN – 3rd – 5th Graders
 - c. Science Fest – January 11, 2019 – St. Johns University – 5th and 6th Graders
 - i. Jeremy Mathiasen, Stantec
5. Civil Engineering Day – March 30, 2019
 - a. Confirm sponsorship
 - b. MN Street Superintendents Association
 - c. Check-in Desk Volunteers
 - d. Booth Volunteers
6. Raise Our Grade Minnesota (Infrastructure Advocacy Campaign)
7. Internships to Promote Public Works
8. Committee Goals
 - a. Advocate for public works safety
 - b. Enable a viable workforce
 - c. Facilitate public advocacy/funding

9. Committee Liaisons

- a. Committee and/or Initiative Updates
- b. Government Affairs Committee – Chuck Schwartz
- c. Communications – Cara Gheren
- d. Conference Planning – April Crockett
- e. Diversity - Kevin Kielb & Cara Gheren
- f. Education & Training – Bob Moberg
- g. Environment – Chadd Larson
- h. History – Wayne Houle
- i. Mn2050 - April Crockett & Russ Matthys
- j. Membership – Jennifer Olejar
- k. Outstate – Kevin Kielb

10. 2019 Meeting Schedule, PAC Meeting

- a. Location
- b. Dates

11. Adjourn

Science **ROCKS!**

Hands-on Science & Nature Conference



January 3, 2018 | For 5th & 6th Grade Students

SPONSORED BY

Resource®
Training & Solutions
A Minnesota Service Cooperative

HOSTED BY

ST. CLOUD STATE UNIVERSITY™

Science Rocks!

Hands-on Science & Nature Conference



January 3, 2018

St. Cloud State University

8:00 a.m. – 2:30 p.m.

For 5th & 6th Grade Students

AUDIENCE

Science Rocks! is for students in grades 5–6. It will feature four group sessions on a variety of topics.

COST

Member: \$27/student, Non-member: \$31/student.
Registration fee includes: Four individual sessions, morning snack, portfolio, pencil and handouts. Adult registration fee is \$12 for members and \$14 for non-members.

TIME

This conference will be held from 9:00 am – 2:30 p.m. There is a detailed agenda on page 3 of this brochure.

EARLY DEPARTURE

Early departure information was collected on the Intent to Participate form and confirmed in the allocated numbers email that went out the first week of November. If something has changed with the information you provided, please contact Deb Thomes at dthomes@resourcetraining.com. If you need to depart within 30 minutes of the beginning of the fourth session starting you may not be assigned a fourth session.

REGISTRATION

Registration deadline is Friday, December 1, 2017.

SESSIONS

A list of sessions and presenters can be found in this brochure on pages 4 and 5. Students should choose one keynote and three additional sessions. **Due to space limitations, we cannot guarantee that students will be assigned to all sessions requested.** However, we will do our best to satisfy as many requests as possible. Adults may attend sessions on a space-available basis. We retain the right to limit the number of students per district attending a specific session. Most sessions will be repeated four times.

ADULT/CHILD RATIO

We suggest no more than one adult per 10 students attend the conference. Every student must have a designated chaperone. Students registering individually must have a chaperone.

SUPPLIES

All materials needed (paper, pencils, etc.) will be provided. We ask that students **do not** bring backpacks or other unnecessary things to the conference.

LUNCH

Participants should bring their own lunch and beverage. No refrigeration is available.

CONFIRMATION

Once registration for your school has been received, we will send an email to confirm receipt of your registration.

Master lists of students' session assignments for each supervising adult (chaperone), and directional maps to the SCSU campus will be mailed to the school contact person prior to the conference.

Based upon the Intent to Participate form, your district will be billed for the number of students allocated to your school or district. **If you do not attend, you are still responsible for payment.**

STUDENTS WITH SPECIAL NEEDS

Resource Training & Solutions, in accordance with the Americans with Disabilities Act (ADA), is dedicated to making conference activities accessible to all students. If a student has significant challenges, please contact Sandra Cordie or Deb Thomes for help in selecting appropriate classes and making needed accommodations by December 1, 2017.

WEATHER

Weather-related cancellation will be announced on the day of the conference by 6:00 a.m. on: WJON-AM (1240), KBEK-FM (95.5) and KARE 11-TV Ch. 11.

QUESTIONS

Sandra Cordie, Director of K-12 Educational Programs
(844) 335-3276 x 319
scordie@resourcetraining.com

Deb Thomes, Educational Programs Manager
(844) 335-3276 x 330
dthomes@resourcetraining.com



Conference Agenda

8:00–8:45	45 min	Registration & Travel to Session 1
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9:05–10:05	60 min	Session 1
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11:15–11:35	20 min	Travel to Campsites/Lunch
11:35–11:45	10 min	Travel Time
11:45–12:45	60 min	Session 3
12:45–12:55	10 min	Travel Time
12:55–1:55	60 min	Session 4
1:55–2:30	35 min	Travel to Campsite / Evaluation / Regroup / Depart

Students' sessions will be listed on their individual assignment sheets in their portfolios.



Thank you for being an important part of Science Rocks!

Please remind students that this is a day to explore and learn about different areas of science and nature that they may or may not know something about already. It is a day to recognize their inquisitive abilities, to be inspired and to help them become even more skilled as scientists and naturalists. Chemists, conservationists, astronomers, dieticians and doctors will share their knowledge in a wide variety of sessions.

SESSION INFORMATION

LARGE GROUP SESSION:

SESSION A - Robotics and the Technology Generation with the Hillbilly Scientist (Curt Strutz)
Many factors are coming together that will accelerate scientific and technological development. The students of today will radically change our world within one generation. This presentation is dedicated to opening students' minds to their possible future with interactive demonstrations of several different types of robots and video of the latest advanced robotic breakthroughs.

CHOOSE 3 SMALL GROUP SESSIONS:

SESSION B - How to Tell an Agate from an Amethyst with Mike DeLuca

Rocks and minerals are not just for geologists and mineralogists any longer! This hands-on session will teach students how to identify rock and minerals using an applied principle of testing specimens in various ways. All basic rock types and minerals will be covered. Students will have the opportunity to take home specimens to keep.

SESSION C - The Next Great North American Total Solar Eclipse with Todd Vaccaro

On August 21, 2017, many people across the United States saw a total eclipse of the sun. The event was called "The Great American Total Solar Eclipse," an event that had not been seen in America for 38 years. What are eclipses and how can you see it? This show will help you understand, prepare for, and view the next rare celestial event, which will occur on April 8, 2024, over Mexico, the United States, and Canada!

SESSION D - JELL-O Road

with Dan Landrus

We drive, bike, and walk on roads and trails everyday ... but what does it really take to design and build one? Learn what goes into building a road by using engineering skills to create a stable surface over a bed of Jell-O. Groups will use different media to create their own drivable surface, which will be tested to determine which group created the strongest and most stable road.

SESSION E - Buzzed and Drugged by Water Pollution with Adam Hjelm

Can pollution in our lakes and streams leave you dizzy and breathless? Students explore the effects of alcohol and caffeine on simple freshwater invertebrates in order to understand how water pollution can affect us all.

SESSION F - Strawberries Have DNA

with Christopher Kvaal

Students will learn some fun facts about DNA and do an experiment that could be done in their kitchen with their family. There will be plenty of DNA fun facts.

SESSION G - Fur, Fangs and Femurs

with William Cook

If the howl of a wolf sends shivers down your back, come and learn about wildlife biology and natural history. See and touch actual zoological specimens to explore adaptations of mammals and birds. You will identify through investigation how animal bodies are intended for habitats and their way of life.

SESSION H - Insect Safari

with Cameron Kalkbrenner

There are over 50 species of mosquitoes that live in Minnesota. WOW! That is amazing. There are about 200 million insects for each person on the planet. WOW! That is amazing. Creepy, crawly, and crucial: insects are among the most abundant ... and necessary ... critters on the planet. In this session, we will sing songs, play games, and do a variety of hands-on activities to learn about these amazing creatures.

SESSION J - Waking Up the Pendulum Snake

with Kevin Haglin

We will configure several pendula having different lengths and different periods with specific choices for snakelike collective behavior. Then we will release the pendulum snake and watch it move.

SESSION K - You Light Up my Life! Bioluminescent Bacteria and Anglerfish

with Melanie Melendrez-Vallard

The angry looking deep-sea anglerfish has a right to be cranky. It is quite possibly the ugliest animal on the planet, and it lives in the lonely, lightless bottom of the sea. And yet ... even the anglerfish has tiny friends that help light up its life. Come learn about the power of communication in the depths of the cold dark ocean where the anglerfish lights its own path.

SESSION L - Tree-tectives

with Kory Klebe

Why do trees hate tests? Because they get stumped by the questions. Trees surround us but what do you really know about them? Through games and hands-on activities we will learn about trees inside and out: how they work and what they are good for. An added bonus of this class is all the other great tree jokes you will leaf with.

SESSION M - How Many Fish Are in My Lake?

with Mark Pelham

In the land of 10,000 lakes, fish are important to people and other creatures that rely on them as source of food. Discover how the DNR monitors fish populations and estimates how many fish are in a lake. Come learn about Minnesota fish and what a DNR fish biologist really does for our lakes, streams, and the critters that live in them.

SESSION N - On Your Knees

with Maureen Tubbiola

We will dissect actual knees from a meat market. We'll talk about how a knee is supposed to work, and figure out what might go wrong when they stop working.

SESSION P - A Swarm of Bees

with Mike Mauer

You can become a beekeeper! Learn what it takes to start your own hives, keep the bees healthy, and help them survive a cold Minnesota winter. A single hive can produce more than 100 pounds of honey!

SESSION Q - Filter Builter

with Sarah Jo Boser

Have you ever wondered how water is filtered? Or when and why it is filtered? Wonder no more! Attend this session to learn a little bit about the nutrients and sediments in our lakes and rivers, and then team up with friends to build your own water filter! Each team will select the supplies they need to design the most efficient water filter in hopes of achieving the largest amount/volume of the cleanest water in the shortest amount of time.

SESSION R - Meet A Mollusk, Up Close and Personal!

with Pat McNeal

In this session, we will study mollusks and you will get your own mollusk and investigate the unique features that make it one of earth's most fascinating creatures. All you need is an inquisitive mind and a sense of adventure.

SESSION S - Significant Surroundings: Exploring Animal Needs with Mealworms! with Keri Sidle

Come explore animal behaviors and investigate what causes them. You will observe mealworms in different settings and see how they react. Then we will learn more about livestock animals to design animal facilities based on what you have discovered and relate this new knowledge to the world of agriculture and livestock.

SESSION T - Plants: Pretty and Powerful

with Mardi Knudson

Plants are fascinating: Earth as we know it wouldn't exist without plants. Join us to take a closer look at how plants work. What makes plants so unique? How do plants reproduce and multiply? Answers to all of these questions and more, including hands-on lab activities.

SESSION U - Bug Bingo!

with Aislyn Keyes

Share your enthusiasm for the insect world and play Bug Bingo! You'll learn how to use a dichotomy key to identify insects and pick up tons of cool facts to share with your friends. Be the first to shout "Bug-go!" and win a surprise!

SESSION W - Let the Games Begin

with Steve Friedlein

The games have begun, and this could get wild! We will have lots of fun while learning to work together in these cooperative, team-building games. Why? Because it takes everyone working together to care for the earth.

SESSION X - Bird Jobs

with Beth Walters

Beth and Jena will be talking about the ecosystem services or the jobs that birds do that help keep the ecosystems working and also keep humans healthy and happy. Three birds will be interviewing for a job and describing a little bit about themselves. In between interviews, videos will show how marvelous birds can be.

SESSION Y - Plants with a Purpose

with Beth Berlin

Plants are a fascinating part of our world and a key part of life on earth. Come learn about the world of plants, how they grow, and reproduce. Let's explore how even the smallest seed can grow into something we find beautiful or even tasty.

SESSION Z - It Makes Your Blood Run

with Randy Huard

Examine a pig's heart and learn about this fascinating machine. You will also learn how to keep your heart pumping healthy blood through your body.

SESSION AA - Where Are the Wild Things?

with Mari Klebe

We won't be going to where the wild things are, but we will learn about how they live. Using games and natural props, we will figure out what their basic needs are and how they get them. Then we will investigate what they leave behind to tell the story of their life.

SESSION BB - Survivor: Winter Edition

with Erin Fallon

Minnesota winters can be tough, especially if you're an animal trying to survive it. Animals don't have the luxuries that we do during these harsh months. However, many of our state's critters have special adaptations and behaviors to help them get through these cold, snowy winters. You will find out what they are and compete in a game to test your knowledge of winter survival strategies.

SESSION CC - Every Tree for Itself

with Jeff Haas

What do trees need to grow? Through games and hands-on activities students will learn what conditions trees need to live and grow and understand why trees must often compete for their needs.

SESSION DD - Zombies: Bringing Geography Alive

with Anita Archambeau

Students will get pushed to think about how geography tools can help cities assist with emergency preparedness in the event of a Zombie attack (or other natural disaster). Discussions will include what makes a great city and what they would include to help their cities survive disasters. Through hands-on exercises, students learn and analyze how planning skills are integral in the creation of the urban environment.



Registration Instructions

To prepare registration, we suggest you do the following:

- Identify a contact person for each school building or district to facilitate communications between your district and Resource. Email address and cell phone numbers are **required** for registration confirmation.
- Duplicate the Individual Student Registration Form, on page 7, in the brochure. Add or delete information appropriate to your school and send the registration form home with your students.
- Be certain you have a release form for every student. (**You keep these copies.**)

Online Registration Instructions:

1. The registration form will arrive in your email inbox.
2. Save a copy of the form to your desktop by selecting "Save As."
3. Next to File Name, rename the form (i.e. 2018 Science Rocks! Registration Form-YOUR SCHOOL NAME-*pgXofX* indicating how many pages you'll be submitting.)
4. Open the newly saved copy (on your desktop) and type your information in all the "boxed" areas.
5. Fill out the ELECTRONIC Registration Form for each supervising adult and list ten (or fewer) students to be chaperoned by this adult. Every student must have a designated chaperone (List the adult with the students they are assigned.)
6. Be sure to click on "Save" often to save your data.
7. Attach your form to a new email message addressed to: dthomes@resourcetraining.com
8. Return via email.
9. You will receive an email confirming your registration.

REGISTRATION IS ONLY
**AVAILABLE
ELECTRONICALLY!**

The registration form will arrive in your email inbox.
Registration deadline is Friday, December 1, 2017.



Payment Options

Invoice the district / P.O. # **OR**

Check already requested & will be mailed.

Please complete the registration and email to
Deb Thomes, dthomes@resourcetraining.com,
BEFORE submitting to your business office.



Parent Information Form

CONTACT PERSON: Fill in the appropriate school information, copy and give this page to students. (You may wish to also copy the Session Information on pages 4–5.)

TO BE FILLED IN BY SCHOOL CONTACT PERSON

CONFERENCE DATE: JANUARY 3, 2018 • LOCATION: ST. CLOUD STATE UNIVERSITY • TIME: 9:00–2:30

Cost: MEMBER: \$27/student \$12/Adult | Non-member: \$31/student \$14/Adult

Contact Person: _____ School District: _____

Make checks payable to the school: _____ If you have questions, contact: _____

Return student permission form by: _____

DEAR PARENTS

Your child has been invited to attend the 2018 Science Rocks! Conference. Your child will be able to attend four different sessions related to science and nature. These sessions will be taught by experts in the field. Registration fee also includes morning snack, portfolio, pencil and handouts. **Participants should bring their own lunch and beverage.** No refrigeration is available. Session assignments are based on room size, presentation and other criteria. All sessions are outstanding. Please explain to your child that they will probably not get all the sessions they request. However, every effort will be made to give them some of their choices, but not guaranteed. We look forward to your child's participation in this conference! Please do not send backpacks and other unnecessary valuables with your child.

— Sandra Cordie, Conference Coordinator, Resource Training & Solutions

CONFERENCE AGENDA

8:00–8:45 Registration & Travel to Session 1
9:00–9:05 Welcome + Instructions
9:05–10:05 Session 1
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LARGE GROUP SESSION GUIDE

A Robotics and the Technology Generation

SMALL GROUP SESSION GUIDE

Choose 3:

B How to Tell an Agate from an Amethyst
C The Next Great North American Total Solar Eclipse
D JELL-O Road
E Buzzed and Drugged by Water Pollution
F Strawberries Have DNA
G Fur, Fangs, and Femurs
H Insect Safari
J Waking Up the Pendulum Snake
K You Light Up my Life! Bioluminescent Bacteria and Anglerfish
L Tree-tectives

M How Many Fish Are in My Lake?

N On Your Knees

P A Swarm of Bees

Q Filter Builter

R Meet A Mollusk, Up Close and Personal!

S Significant Surroundings: Exploring Animal Needs with Mealworms!

T Plants: Pretty and Powerful

U Bug Bingo!

W Let the Games Begin

X Bird Jobs

Y Plants with a Purpose

Z It Makes Your Blood Run

AA Where Are the Wild Things?

BB Survivor: Winter Edition

CC Every Tree for Itself

DD Zombies: Bringing Geography Alive

2018 SCIENCE ROCKS! STUDENT REGISTRATION FORM FOR PARENTS

Student's Name: _____ Grade: _____

Teacher's Name: _____

Student Session Choices:

Choose 3 sessions your child would like to attend. (Listed above)

Write Session Letter

Small Group Session-choose 3: _____

Parent Signature: _____

Email Address: _____

Parent Involvement/Permission: (Your school will contact you.)

I am available to attend as an adult chaperone (\$12 for members, \$14 for non-members).

I hereby agree to release Resource Training & Solutions, Presenters, St. Cloud State University, and all employees of those institutions of all liability related to any accidents or injuries that I or my child(ren) or legal dependent(s) may sustain while participating in the above named activity or from any liability for any injury or illness that may either directly or indirectly result from participation in the program. Furthermore, I fully understand and agree that Resource Training and Solutions and its partner organization are not responsible for the loss, theft or disappearance of attendees' personal property, clothes, electronics or other valuables.

Employees of Resource Training & Solutions may take photographs of students during Educational Programming. These photographs qualify as private data under State and Federal law. The photographs may be published in promotional and other materials of Resource Training & Solutions, including newsletters for school staff. Persons who would be authorized to access the data include staff members of Resource Training & Solutions and the state auditor. Such data may also be accessed by individuals who obtain a valid court order. Students are not legally required to consent to be photographed or to have their photograph included in published materials. If the student does not consent to be photographed or included in these materials, the student will still be able to fully participate in all events related to the above-named activity.

I have reviewed and understand the information above, and hereby consent to and grant the non-exclusive and irrevocable right to take pictures that may include myself, my child(ren) or legal dependent(s) and use these pictures for promotional or other purposes to employees of Resource Training & Solutions. I hereby release Resource Training & Solutions from any and all claims of payment for performance rights, residuals or damages or any claim based on the use of said material.

Resource
Training & Solutions



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Science **FEST!**

Hands-on Science & Nature Conference



January 11, 2018 | For 5th & 6th Grade Students

SPONSORED BY

Resource®
Training & Solutions
A Minnesota Service Cooperative

HOSTED BY

Saint John's
OUTDOOR
UNIVERSITY

Science Fest!

Hands-on Science & Nature Conference



January 11, 2018

Saint John's University

8:00 a.m. – 2:30 p.m.

For 5th & 6th Grade Students

AUDIENCE

Science Fest! is for students in grades 5–6. It will feature four group sessions on a variety of topics.

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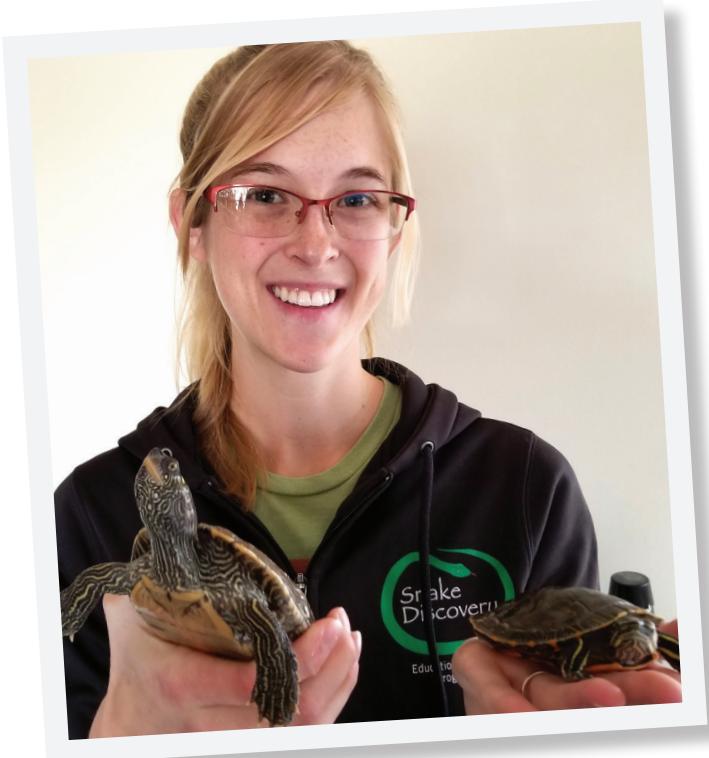
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Keynote Speaker

Emily Roberts

Emily achieved her Bachelor's degree in Fisheries and Wildlife from the University of Minnesota in 2012, then worked as a Naturalist for the Minnesota Department of Natural Resources for two years. Afterwards, she started her own reptile education business "Snake Discovery LLC," where she now travels to teach kids of all ages about cold-blooded animals. Emily spends her free-time breeding snakes and being an active member of the Minnesota Herpetological Society.

"I have always had a passion for animals with a specialty in reptiles, and it has been my goal to learn as much about them as possible. My programs aim to open the eyes of the youth (and other generations) so that they grow up enjoying reptiles, leading to wildlife preservation in the future."



SESSION INFORMATION

KEYNOTE PRESENTATION:

SESSION A

Totally Turtles!

with Emily Roberts

What makes turtles different than tortoises? You'll find out at this program, and see the differences in person with real animals! We'll be discussing how special characteristics help turtles live in different environments, like how a softshell turtle's highly-webbed feet help it swim faster compared to stockier snapping turtle's feet. We'll also be debunking turtle myths and reviewing the best way to help turtles cross the road (because we've all seen a turtle in the road and wondered what to do!). After learning about the unique traits that set turtles and tortoises apart from other reptiles, you'll get to meet several types of turtles that call Minnesota home!

SESSION B - Laser Light Ruler

with Todd Johnson

In this session, you will first learn how lasers work and what makes their light so special. Next you will use lasers to measure the size and shape of microscopic objects — even the thickness of your own hair!

SESSION C - Air Drag or How Big Should My Parachute Be?

with Sarah Yost

Students will build model parachutes and test them to measure the effects of air drag. This will verify the general rules for air drag and how they relate to a final speed of a dropped object. We will use a series of shapes, sizes, and loads to understand how to set up a final speed in the air that is acceptably small for safety.

SESSION D - Blasting Off with Rockets

with Jim Crumley

Rockets work using some basic physical principles. In this session students will build and fly simple rockets using two liter bottles, water, and compressed air.

SESSION E - How Does Electricity Produce Light?

with John Sinko

What makes an LED light bulb more efficient than Edison's old incandescent bulb? Are there colors we can't see? How does electricity produce light? Participants will learn about the history of light sources from oil lamps and candles to compact fluorescent bulbs and LEDs. We'll learn about current and voltage in circuits, and test the power and color output of several modern light bulbs.

SESSION F - Bug Bingo!

with Aislyn Keyes

Share your enthusiasm for the insect world and play Bug Bingo! You'll learn how to use a dichotomy key to identify insects and pick up tons of cool facts to share with your friends. Be the first to shout "Bug-go!" and win a surprise!

SESSION G - Zombies: Bringing Geography Alive

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SESSION H - A Swarm of Bees

with Mike Mauer

You can become a beekeeper! Learn what it takes to start your own hives, keep the bees healthy, and help them survive a cold Minnesota winter. A single hive can produce more than 100 pounds of honey!

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SESSION K - Looking at Lenses

with Gregory Taft

Lenses in your eye allow you to see, while other lenses can improve your ability to see. You will investigate properties of lenses and then build telescopes and projectors with lenses.

SESSION L - It Makes Your Blood Run

with Randy Huard

Examine a pig's heart and learn about this fascinating machine. You will also learn how to keep your heart pumping healthy blood through your body.

SESSION M - Survivor: Winter Edition

with Erin Fallon

Minnesota winters can be tough, especially if you're an animal trying to survive it. Animals don't have the luxuries that we do during these harsh months. However, many of our state's critters have special adaptations and behaviors to help them get through these cold, snowy winters. You will find out what they are and compete in a game to test your knowledge of winter survival strategies.

SESSION N - Filter Builter

with Sarah Jo Boser

Have you ever wondered how water is filtered? Or when and why it is filtered? Wonder no more! Attend this session to learn a little bit about the nutrients and sediments in our lakes and rivers, and then team up with friends to build your own water filter! Each team will select the supplies they need to design the most efficient water filter in hopes of achieving the largest amount/volume of the cleanest water in the shortest amount of time.

SESSION P - How Many Fish Are in My Lake?

with Mark Pelham

In the land of 10,000 lakes, fish are important to people and other creatures that rely on them as source of food. Discover how the DNR monitors fish populations and estimates how many fish are in a lake. Come learn about Minnesota fish and what a DNR fish biologist really does to care for our lakes, streams, and the critters that live in them

SESSION R - Buzzed and Drugged by Water Pollution

with Adam Hjelm

Can pollution in our lakes and stream leave you dizzy and breathless? Students explore the effects of alcohol and caffeine on simple freshwater invertebrates in order to understand how water pollution can affect us all.

SESSION S - Plants: Pretty and Powerful with Mardi Knudson

Plants are fascinating: Earth as we know it wouldn't exist without plants. Join us to take a closer look at how plants work. What makes plants so unique? How do plants reproduce and multiply? Answers to all of these questions and more, including hands-on lab activities.

SESSION T - Critter Collections

with Ashley Walker

Are you interested in pinning insects? No, I don't mean pinning pretty pictures of butterflies and beetles on your Pinterest board! In this session, you'll learn more about the traditional method that entomologists have used for many years to preserve and mount insects. Along with increasing your general insect-related knowledge, you'll learn more about what it takes to make your very own collection of critters and even get some hands-on pinning experience!

SESSION U - Reptiles Around the World

with Emily Roberts

Slither around the world to learn about exotic reptiles at this hands-on program! We'll "travel" from one continent to the next while meeting reptiles native to each place. This program will be a great opportunity to observe, touch, and even feed a couple of Earth's most misunderstood creatures!

SESSION W - Drop the Beat

with Sunil Chetty

The connections between mathematics and music are vast, and even restricting one's attention to rhythm yields a fantastic amount of interesting mathematics. We will explore rhythms from around the world, create our own beats, re-imagine arithmetic, and dip our toes into abstract algebra.



Registration Instructions

To prepare registration, we suggest you do the following:

- Identify a contact person for each school building or district to facilitate communications between your district and Resource. Email address and cell phone numbers are **required** for registration confirmation.
- Duplicate the Individual Student Registration Form, on page 7, in the brochure. Add or delete information appropriate to your school and send the registration form home with your students.
- Be certain you have a release form for every student. (**You keep these copies.**)

Online Registration Instructions:

1. The registration form will arrive in your email inbox.
2. Save a copy of the form to your desktop by selecting "Save As."
3. Next to File Name, rename the form (i.e. 2018 Science Fest! Registration Form-YOUR SCHOOL NAME-*pgXofX* indicating how many pages you'll be submitting.)
4. Open the newly saved copy (on your desktop) and type your information in all the "boxed" areas.
5. Fill out the ELECTRONIC Registration Form for each supervising adult and list ten (or fewer) students to be chaperoned by this adult. Every student must have a designated chaperone (List the adult with the students they are assigned.)
6. Be sure to click on "Save" often to save your data.
7. Attach your form to a new email message addressed to: dthomes@resourcetraining.com
8. Return via email.
9. You will receive an email confirming your registration.

REGISTRATION IS ONLY
**AVAILABLE
ELECTRONICALLY!**

The registration form will arrive in your email inbox.
Registration deadline is Friday, December 1, 2017.

Payment Options

Invoice the district / P.O. # **OR**

Check already requested & will be mailed.

Please complete the registration and email to
Deb Thomes, dthomes@resourcetraining.com,
BEFORE submitting to your business office.





Hands-on Science & Nature Conference

Parent Information Form

CONTACT PERSON: Fill in the appropriate school information, copy and give this page to students. (You may wish to also copy the Session Information on pages 4-5.)

TO BE FILLED IN BY SCHOOL CONTACT PERSON

CONFERENCE DATE: JANUARY 11, 2018 • LOCATION: SAINT JOHN'S UNIVERSITY • TIME: 9:00–2:30

Cost: MEMBER: \$27/student \$12/Adult | Non-member: \$31/student \$14/Adult

Contact Person: _____ School District: _____

Make checks payable to the school: _____ If you have questions, contact: _____

Return student permission form by: _____

DEAR PARENTS

Your child has been invited to attend the 2018 Science Fest! Conference. Your child will be able to attend four different sessions related to science and nature. These sessions will be taught by experts in the field. Registration fee also includes morning snack, portfolio, pencil and handouts. **Participants should bring their own lunch and beverage.** No refrigeration is available. Session assignments are based on room size, presentation and other criteria. All sessions are outstanding. Please explain to your child that they will probably not get all the sessions they request. However, every effort will be made to give them some of their choices, but not guaranteed. We look forward to your child's participation in this conference! Please do not send backpacks and other unnecessary valuables with your child.

— Sandra Cordie, Conference Coordinator, Resource Training & Solutions

CONFERENCE AGENDA

8:00 – 8:45	Registration & Travel to Session 1
9:00 – 9:05	Welcome + Instructions
9:05 – 10:05	Session 1
10:05 – 10:15	Travel Time
10:15 – 11:15	Session 2
11:15 – 11:35	Travel to Campsites/Lunch
11:35 – 11:45	Travel Time
11:45 – 12:45	Session 3
12:45 – 12:55	Travel Time
12:55 – 1:55	Session 4
1:55 – 2:30	Travel to Campsite/Evaluation/Depart

SESSION GUIDE

Choose 3:	K.....Looking at Lenses
BLaser Light Ruler	L.....It Makes Your Blood Run
CAir Drag or How Big Should My Parachute Be?	M.....Survivor: Winter Edition
DBlasting off with Rockets	NFilter Builter
E.....How Does Electricity Produce Light?	P.....How Many Fish Are In My Lake?
F.....Bug Bingo!	RBuzzed and Drugged by Water Pollution
GZombies: Bringing Geography Alive	S.....Plants: Pretty and Powerful
HA Swarm of Bees	T.....Critter Collections
I.....Plants with a Purpose	UReptiles Around the World
J.....How to Tell an Agate from an Amethyst	W.....Drop the Beat

2018 SCIENCE FEST! STUDENT REGISTRATION FORM FOR PARENTS

Student's Name: _____ Grade: _____

Teacher's Name: _____

Student Session Choices:

Choose 3 sessions your child would like to attend. (Listed above)

Session Choices: _____

Parent Signature: _____

Email Address: _____

Parent Involvement/Permission: (Your school will contact you.)

I am available to attend as an adult chaperone (\$12 for members, \$14 for non-members).

I hereby agree to release Resource Training & Solutions, Presenters, St. John's University, and all employees of those institutions of all liability related to any accidents or injuries that I or my child(ren) or legal dependent(s) may sustain while participating in the above named activity or from any liability for any injury or illness that may either directly or indirectly result from participation in the program. Furthermore, I fully understand and agree that Resource Training and Solutions and its partner organization are not responsible for the loss, theft or disappearance of attendees' personal property, clothes, electronics or other valuables.

Employees of Resource Training & Solutions may take photographs of students during Educational Programming. These photographs qualify as private data under State and Federal law. The photographs may be published in promotional and other materials of Resource Training & Solutions, including newsletters for school staff. Persons who would be authorized to access the data include staff members of Resource Training & Solutions and the state auditor. Such data may also be accessed by individuals who obtain a valid court order. Students are not legally required to consent to be photographed or to have their photograph included in published materials. If the student does not consent to be photographed or included in these materials, the student will still be able to fully participate in all events related to the above-named activity.

I have reviewed and understand the information above, and hereby consent to and grant the non-exclusive and irrevocable right to take pictures that may include myself, my child(ren) or legal dependent(s) and use these pictures for promotional or other purposes to employees of Resource Training & Solutions. I hereby release Resource Training & Solutions from any and all claims of payment for performance rights, residuals or damages or any claim based on the use of said material.

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Training & Solutions
A Minnesota Service Cooperative



Civil Engineering Day

March 30, 2019

Save the Date - Ways to get involved

Science Museum of Minnesota | 2019



CIVIL ENGINEERING DAY AT THE SCIENCE MUSEUM

After a successful pilot in 2018, Civil Engineering Day will again be presented at the Science Museum in 2019 on March 30. Civil Engineering day offers many ways for individuals and organizations to get involved and support the day with a goal of inspiring future civil engineers with this STEM-based special event day. Civil Engineering Day will showcase dozens of civil engineers presenting activities that demonstrate the challenges civil engineers face every day.

WHO WILL I REACH?

Civil Engineering day has a goal of attracting 3,500+ people, mostly families to attend and be inspired. Several Engineering Associations and firms will infuse the museum with hands on activities presented by civil engineers.

WAYS TO GET INVOLVED?

- Financially Sponsor
- Exhibitor: Design and present an activity
- Volunteer for the organizing committee or on event day

EXHIBIT AND PRESENT AN ACTIVITY

All Civil Engineering Organizations are invited to engage as an exhibitor and present an activity booth. For more information about being a vendor or volunteering, contact Lisa Breu, Civil Engineering Day Committee at LBreu@srfconsulting.com.

BECOME AN EVENT SPONSOR - HERE ARE THE SPONSORSHIP LEVELS OF SUPPORT:

\$5,000 - Presenting Sponsor

- Presenting sponsor and logo on all marketing materials, paid advertising, event website, event-day program, emails to SMM and affiliated organization lists
- Presenting sponsor recognition on Event sign in Science Museum Lobby
- 50 general admission ticket vouchers for Civil Engineering Day
- 50 ticket vouchers for Civil Engineering Day donated to [Tickets For Kids](#), helping to attract visitors from communities traditionally underrepresented in STEM to participate in the day
- Featured exhibitor location
- ADDED VALUE! Presenting sponsor will also be granted recognition as a sponsor of Science Museum Minnovation campaign - a theme that will be persistent in the Science Museum during 2019.

\$2,500 - Supporting Sponsor

- Logo on event website, event-day program, emails to SMM lists
- 25 general admission ticket vouchers for Civil Engineering Day
- 25 ticket vouchers for Civil Engineering Day donated to [Tickets For Kids](#)
- Opportunity to engage in presenting an activity booth

\$1,000 - Access Sponsor

- Listing as sponsor on event website, event-day program, emails to SMM lists
- 10 general admission ticket vouchers for Civil Engineering Day
- 10 ticket vouchers for Civil Engineering Day donated to [Tickets For Kids](#)
- Opportunity to engage in presenting an activity booth

\$500 - Community Partner

- Listing as community partner on event website, event-day program, emails to SMM lists
- 10 tickets donated to [Tickets For Kids](#)



Science
Museum
of Minnesota®

Teri Vogt
tvogt@smm.org
(651) 221-2560

Science Museum of Minnesota
120 West Kellogg Boulevard
Saint Paul, MN 55102

YES, I WILL SUPPORT CIVIL ENGINEERING DAY AT THE SCIENCE MUSEUM

Name of Organization_____

Contact_____

Title_____

Address_____

Phone_____ Email_____

I would like to present an activity

I would like to volunteer to help organize the event

I would volunteer on event day to help with visitor wayfinding and exhibitor check in

Sponsorship Support (includes presenting an activity)

(Choose a level of support. All level support outreach to bring young people not traditionally represented in STEM to the event)

\$5,000 Civil Engineering Day Presenting Sponsor

\$2,500 Supporting Sponsor

\$1,000 Access Sponsor

\$500 Community Partner

Donation of any size - \$_____ (please indicate amount)

Send an invoice or Payment enclosed.

Please Make checks out to Science Museum of Minnesota

A Science Museum staff member will contact you and work out every detail of the program and recognition directly with you. Please fill out this form and return it to Teri Vogt, Manager, Corporate Partnerships, at tvogt@smm.org, or 120 West Kellogg Boulevard, St. Paul, MN 55102, (651) 221-2560

Another great way to support Civil Engineering Day at the Science Museum is by promoting attendance to it by your employees and their families. [Visit smm.org/civilengineering](http://smm.org/civilengineering) for more information.



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