

# Girls STEM Day Conference Registration

## Registration Options:

-  **Online:** [www.uwgb.edu/profed](http://www.uwgb.edu/profed) (credit card only)
-  **Phone:** 920-465-2642 (credit card only)
-  **Fax:** 920-465-2643 (credit card only)
-  **Mail:** Send the completed registration form to:  
UW-Green Bay  
Continuing Education and Community  
Engagement, Attn.: Matt Nieman  
2420 Nicolet Drive  
Green Bay, WI 54311-7001

## Payment Information:

**\$10 per student** (Includes instruction, supplies and lunch)

- ☐ **Check Enclosed:** Payable to UW-Green Bay  
Continuing Professional Education

Check number \_\_\_\_\_ \$ \_\_\_\_\_  
Check amount

- ☐ **Charge my:** ☐ Visa ☐ MasterCard

Card number \_\_\_\_\_

Expiration date (mm/yy) \_\_\_\_\_ 3-digit (CVV) \_\_\_\_\_

Cardholder name (print) \_\_\_\_\_

Signature \_\_\_\_\_

## Student and Contact Information:

Student name(s) \_\_\_\_\_

Parent name(s) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

(\_\_\_\_\_) \_\_\_\_\_  
Phone

Email \_\_\_\_\_

COMPLETE BOTH SIDES OF FORM

# About the Keynote Speaker



## Olivia Fritz, Kohler Company

Olivia Fritz is an Environmental Project Engineer on Kohler Company's Product Sustainability Engineering team. She manages transparency for both environmental impacts and

material health disclosures and is leading the effort to integrate product material health initiatives in Design for Environment. Olivia has experience in environmental compliance, remediation, and supplier quality. She's inspired by the challenge to show others how sustainability is connected to their roles, no matter what they do and has helped train more than 500 Kohler manufacturing associates about sustainability. She is also passionate about student mentorship and encouraging girls to pursue STEM-related careers. Olivia graduated from UW-Madison in Civil Engineering and is currently pursuing an MBA from Marquette University.



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**Hosted by:** UW-Green Bay, Sheboygan Campus  
Continuing Education and American Association of  
University Women (AAUW)



UNIVERSITY of WISCONSIN  
**GREEN BAY**  
Sheboygan Campus

## Questions?

We are happy to help.

Call 920-465-2642 or email [niemanm@uwgb.edu](mailto:niemanm@uwgb.edu).

[www.uwgb.edu/profed](http://www.uwgb.edu/profed)



# 2nd Annual Girls STEM Day Conference

For 6th-9th grade girls

Encouraging young girls to  
**discover, explore** and **learn**  
from STEM field experts



**Only \$10  
per  
student!**

**Saturday, November 3, 2018**  
**8 a.m.-3 p.m.**  
**UW-Green Bay, Sheboygan Campus**  
1 University Drive, Sheboygan, WI 53081



UNIVERSITY of WISCONSIN  
**GREEN BAY**  
Sheboygan Campus



# Schedule of Events

## Student Sessions

8-8:30 a.m.	Check-in at UW-Green Bay, Sheboygan Campus
8:30-9 a.m.	Welcome Presentation and Keynote Speaker, Olivia Fritz, Kohler Company
9:15-10 a.m.	Session I
10:15-11 a.m.	Session II
11:15 a.m.-12 p.m.	Session III
12-1 p.m.	Lunch
1:15-2 p.m.	Session IIII
2:15-3 p.m.	Session V

Select from 15 sessions!

## Parent Sessions

9:15-10:15 a.m.	Teen Depression: Sheboygan Department of Human Services Immediately follows keynote presentation
10:30-11:30 a.m.	College Prep 101: UW-Green Bay

# 15 STEM-Inspiring Sessions

## A Look Under the Bovine Hide

If you are interested in veterinary science, this workshop is for you! With exam gloves, palpate your way through cow organs and feel a heart or lungs. Learn why cows give milk with hands-on reproductive tract examination and dissection. View jars containing interesting livestock parasites and anomalies.

## Chem Demons

Enter the world of demon snakes, fire-breathing dragons, glowing creatures, and bomb-throwing beetles. Learn how chemicals in the lab can imitate real organisms and legendary creatures that can give off light, heat, acid, fluids that change color, or smelly, hot gasses. You must be brave of heart to enter the world of Chem Demons!

## Digging for Clues

This is your chance to be a paleontologist. Come prepared to discover! Dr. Mary Kalen Romjue (retired, University of Florida) has prepared fossils packets. You will dig, find, learn about and identify fossils.

## Dream Big to Save the Environment

Learn to develop solutions to help save the environment by becoming engineers and using your creativity! We'll start with some big problems and let you prototype your ideas through a hands-on activity. Learn about the engineering design process, brainstorm solutions to big environmental problems and most of all, have fun! At the end, you'll get a chance to present your solutions to the rest of the group.

## Drone Photography

Fly a drone with a controller, see the camera image in a phone screen and experiment with taking pictures and video. Program the drone to fly by itself; program a short flight and have the drone fly it.



## Favor the Flavor

Discover how food scientists deliver the most preferred sausage flavor to your dinner table. Students will perform a sensory evaluation on multiple sausages while learning about product development and sensory science.

## Flowers and Fragrances

Humans can recognize more than 10,000 scents. Practice recognizing scents by smelling different chemicals on scent sticks. Learn how the body recognizes and interprets scents. Design a unique fragrance for a particular purpose.

## Forensic Science

A Sheboygan Police Investigator will explain the importance of crime scene management and preservation. Participants will observe different evidence collection techniques and participate in lifting fingerprints.

## Future Engineers

Be among the first to engineer with the newly released LEGO EV3! This state of the art programmable "brain" allows students to build and program their own robots. With four input ports and three output ports for following your commands, students can build, customize, program, and experiment with their own amazing robots.

## Got Heart

Learn how the heart functions. See what happens with poor nutrition, smoking and lack of exercise. Learn Hands-Only CPR and AED. If you're the first one on the scene when someone has a heart attack, do you know what to do? Immediate CPR can save a life. The course will not certify students in CPR.

## Here Comes the Sun

Learn how solar energy is changing the way we power our homes with an overview of how photovoltaic systems work. Also learn how solar energy is used to change the lives of people in third world countries.

## Living and Working in Space

What happens to your body when you're up in space? How do astronauts eat and exercise in space? What experiments do astronauts do? How does the body react?

## Makey-Makey Music/Ozobots Coding

Turn everyday objects into touchpads and combine them with the internet. Learn coding and loving robots with the stroke of a marker.

## Squishy Circuits

Create a simple circuit out of insulated and conductive play dough, then connect it to a battery and watch it light up with a LED bulb.

## The Physics of Roller Coasters

Explore how potential and kinetic energy are used to design roller coasters. Students will use the laws of energy and physics to create their own roller coaster on paper and then use software to simulate a ride on their coaster.

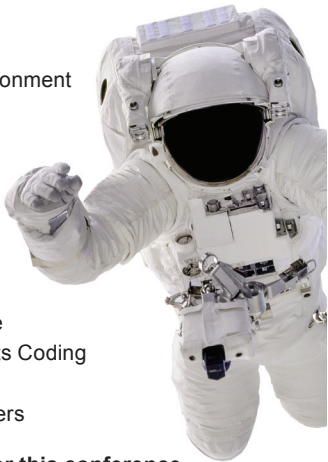
## Parents:

Are you attending the parent sessions? ☐ Yes ☐ No

## Session Selection:

For each registered girl, please check their top six session choices. Please note that all registrations are taken on a first-come, first-served basis. Session choices are not guaranteed. We do our best to place girls in their top three choices. Session assignments are final once confirmed. We cannot put girls into specific sessions based on wanting to be with their friends. Sessions will not be assigned without payment.

- ☐ A Look Under the Bovine Hide
- ☐ Chem Demons
- ☐ Digging for Clues
- ☐ Dream Big to Save the Environment
- ☐ Drone Photography
- ☐ Favor the Flavor
- ☐ Flowers and Fragrances
- ☐ Forensic Science
- ☐ Future Engineers
- ☐ Got Heart
- ☐ Here Comes the Sun
- ☐ Living and Working In Space
- ☐ Makey-Makey Music/Ozobots Coding
- ☐ Squishy Circuits
- ☐ The Physics of Roller Coasters



**Scholarships are available for this conference.** Please call 920-465-2862 for more information.

## Liability Statement

The undersigned does hereby agree to hold harmless and indemnify the State of Wisconsin, the Board of Regents of the University of Wisconsin System and the University of Wisconsin-Green Bay, their officers, agents and employees from any and all liability, loss, damages, costs or expenses which are sustained, incurred or required arising out of the actions of children of the undersigned in the UW-Green Bay Girls STEM Day Conference.

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Parent's or Guardian's Signature Date

## Photo Release

I understand that the University may take photographs and/or video footage of Girls STEM Day participants and activities. I agree that the University of Wisconsin-Green Bay shall be the sole owner of this content and may use such photographs and video relating to the promotion of future Girls STEM Day Conferences.

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Parent's or Guardian's Signature Date

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**Registration Deadline: Friday, October 26, 2018**

