

## Girl's STEM Day Conference Registration

### Registration Options:

Online: <http://tinyurl.com/y2mgtgjh>

Phone: 920-459-6612 (credit card only)

Mail: Send the completed registration form to:  
Allyson Meredith Olivier  
Executive Director  
UW-Sheboygan County Foundation  
1 University Drive, Sheboygan WI 53081

### Payment Information:

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

**Check Enclosed:**

Payable to UW-Sheboygan County Foundation

\_\_\_\_\_ \$ \_\_\_\_\_  
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

\_\_\_\_\_ E-mail

COMPLETE BOTH SIDES OF FORM

## About the Keynote Speaker



**Lauren Sammel, Ph.D.**  
Johnsonville, LLC

Lauren Sammel is the Director of Sustainable Swine Resources, a division of Johnsonville, LLC, focused on porcine material and co-products businesses. She has over 15 years of professional experience in the meat industry, leading and advancing innovative technical solutions for growth, quality, and cost management opportunities. Lauren focuses on developing technical strategies through internal and external partnerships from early stage research and concept development to production line start-up. She has a passion and drive for new discovery and finding solutions for industry challenges. Lauren holds a B.S. degree in Animal Science from Virginia Tech, an M.S. degree in Food Science from Kansas State University, and a Ph.D. in Food Science from the University of Wisconsin-Madison.



## A BIG thank you to our sponsors!

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### Hosted by

Sheboygan Branch,  
American Association of University Women and  
the UW-Sheboygan County Foundation



### QUESTIONS?

We are happy to help.  
Call 920-459-6612 or 920-458-5819  
[www.uwgb.edu/sheboygan/community-outreach/](http://www.uwgb.edu/sheboygan/community-outreach/)



# 3rd Annual Girls STEM Day Conference

For 6th to 9th grade girls

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

**Saturday, November 2, 2019**

**8 a.m.-1:30 p.m.**

**UW-Green Bay, Sheboygan Campus**  
1 University Drive, Sheboygan, WI 53081



UNIVERSITY of WISCONSIN  
**GREEN BAY**  
Sheboygan Campus

**Only \$10**  
per student  
Includes lunch

## Schedule of Events

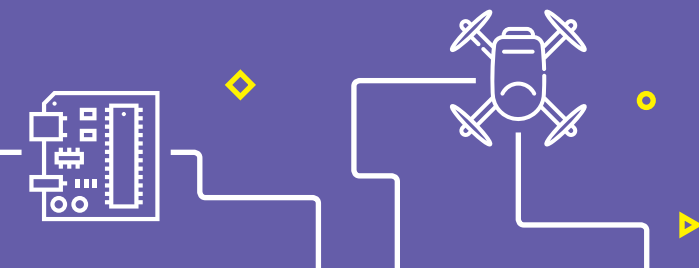
### Student Sessions

8-8:30 a.m.	Check-in at UW-Green Bay, Sheboygan Campus, Main Entrance
8:30-9 a.m.	Welcome Presentation and Keynote Speaker, Lauren Sammel, Johnsonville, LLC
9:15-10 a.m.	Session I
10:15-11 a.m.	Session II
11-11:30 a.m.	Lunch
11:45 a.m.-12:30 p.m.	Session III
12:45-1:30 p.m.	Session IV

### Select from 12 sessions!

### Parent Sessions

9:15-10:30 a.m.	Human Trafficking presented by Tamara Remington, Former Detective, Sheboygan Police Department
10:30-11:30 a.m.	College Prep 101, UW-Green Bay



## 12 STEM-Inspiring Sessions

### ROBODOC

Want to experience what it's like to do surgery through the hands of a robot? Using the remote controls, you can mimic the hands of a surgeon by manipulating the mechanical arms of the surgical robot – just like real surgeons do to cut, snip, suture or even remove tumors and organs every day. Learn how and why the surgical robot was developed and the benefits of robot-assisted surgery. Do you have what it takes to be RoboDoc? *Presented by Craig Corgard, Aurora Health Care*

### 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 fossil packets. You will dig, find, learn about and identify fossils. *Presented by Sandy Roth, retired teacher*

### HELLO WORLD

Have fun learning about software design. Students will explore the software development environment. They will develop source code that is compiled and assembled to create machine code for a game, working with the bits, nibbles, bytes and even cookies. *Presented by Laura Lienau, Software Engineering Manager*

### SQUISHY CIRCUITS

Create a simple circuit out of insulated and conductive play dough, then connect them to a battery and watch it light up with an LED bulb. *Presented by Karen Habeck, Industrial Engineer*

### 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 creatures from legend 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. *Presented by Pam Salm, Sheboygan Falls Middle School teacher and Professor James Kabrhal, UW-Green Bay/Sheboygan*

### WHAT IS DNA?

DNA science is used every day in our world, and research to cure diseases like arthritis and cancer depend on it. Everyone has heard of it, and everyone has it, but what is it? In this workshop students will learn about the structure and function of DNA. *Presented by Gina Macek, MilliporeSigma*

### 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. *Presented by Officer Kehoe, Sheboygan Police Department*

### 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 being used to bring electricity to change the lives of people in third world countries. *Presented by Brianna Russell, Arch Electric*

### A LOOK INSIDE THE BOVINE HIDE

Ever wonder what a cow's heart feels like? How about lungs? Slip on a pair of exam gloves and palpate your way through these plus more fresh cow organs. Learn why cows give milk with hands-on reproductive tract examination and dissection. View jars containing interesting livestock parasites and anomalies. If you are interested in veterinary science, this workshop is for you! *Presented by Dr Ellen Hooker, Veterinarian, WI Department of Agriculture*

### ROBOTICS CHALLENGE

This is a fast-paced introduction to robotics. Each participant will have their own robot to work with. You will write computer code to make the robot perform specific tasks. Every successful task will score points and at the end of the session, we'll add it all up and announce a winner, who will earn bragging rights for the remainder of the day! *Presented by John Papenheim, owner of roboticsisfun.com*

### 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. *Presented by Dan Otte, owner, UAV pilot for Quest Aerial Solutions and Drone Quest Racing*

### SENSORY OF SLICES

Explore how cheese blends used on pizza are developed by food scientists to deliver the tastiest pizzas around. Students will learn about product development and sensory science while performing sensory evaluations on various pizzas and cheeses. *Presented by Pat Mugan and Lauren Sklarow, Sartori Cheese*

### 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 four 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.

- RoboDoc
- Digging for Clues
- Hello World
- Squishy Circuits
- Chem Demons
- What is DNA?
- Forensic Science
- Here Comes the Sun
- A Look Inside the Bovine Hide
- Robotics Challenge
- Drone Photography
- Sensory of Slices



**Scholarships are available for this conference.** Please call 920-459-6612 for more information.

### Liability Statement:

The undersigned does hereby agree to hold harmless and indemnify the Sheboygan Branch, American Association of University Women, UW-Sheboygan County Foundation, 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 Girl's STEM Conference.

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

### Photo Release:

I understand that the sponsors may take photographs and/or video footage of Girl's STEM Day participants and activities. I agree that the sponsors shall be the sole owner of this content and may use such photographs and video relating to the promotion of future Girl's STEM Day Conferences.

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

COMPLETE BOTH SIDES OF FORM

Registration Deadline: Friday, October 25, 2019