



# WISE

WOMEN IN SCIENCE AND ENGINEERING  
DA VINCI SCIENCE CENTER

## Women in Science and Engineering (WISE) Advisory Council

**Membership is free and open to all!**

Members will receive emails about WISE Advisory Council events, Da Vinci Science Center (DSC) programs, and internship and mentorship opportunities at DSC, as well as external organizations.

**The goals of the WISE Advisory Council include the following:**

1. To connect professional women employed in STEM fields, creating a community of STEM professionals who support one another through networking, social events, and mentoring.
2. To bring passion, insight, expertise, and resources to advise the DSC on strategies for developing girls' interest and achievement in STEM.
3. To directly mentor young girls who are interested in STEM through the STEM Valley Mentoring Program.

**For more information, contact Ann Marie Surovy:**

(484) 664-1002 ext. 102 or [annmarie@davincisciencecenter.org](mailto:annmarie@davincisciencecenter.org).

**Let's get social!**



/davincisciencecenter  
/stemvalleymentoring



@davinciscience  
@STEMValley

<https://www.linkedin.com/company/women-in-science-and-engineering-wise>

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DA VINCI  
SCIENCE  
CENTER

2016

# SUMMER CAMP

**Early-Bird Registration: Feb. 15-March 31, 2016**

- Save \$10 per session with promo code EARLY

**Savings for Members**

- Members save \$20 on each session with promo code MEMBER

Visit [davincisciencecenter.org/camp](http://davincisciencecenter.org/camp) to register



2016	Morning Sessions 9 a.m.-12 p.m.			Afternoon Sessions 1-4 p.m.			Full-Day Sessions 9 a.m.-4 p.m.			
	Pre-K Ages 4-5	Grades 1-2	Grades 3-4	Grades 5-8	Pre-K Ages 4-5	Grades 1-4	Grades 5-8	Grades 1-3	Grades 4-8	Grades 5-8
June 20-24		Cartoon Creations	Science Spectacular	Crime Lab	Over the Rainbow	Art of Science	Art of Science			
June 27-July 1		Cartoon Creations	Science Spectacular	Crime Lab	Over the Rainbow	Art of Science	Art of Science			
July 4-8	<b>No Camp Sessions</b>									
July 11-15		The Mad Scientist	NASA Space Explorers		Frozen Summer	Claws and Paws				Arduino I
July 18-22		The Mad Scientist	NASA Space Explorers		Frozen Summer	Claws and Paws				Arduino I
July 25-29	Wacky World of Weather <sup>A</sup>				Wacky World of Weather <sup>A</sup>			Video Game Design Jr	Video Game Design	
Aug. 1-5	Adventures of Dr. Seuss				Adventures of Dr. Seuss			Video Game Design Jr	Video Game Design	
Aug. 8-12		Mission Milky Way	Super Silly Slimy Summer	Amusement Park Physics	Big Camp for Little Kids	Spy Camp	Spy Camp			
Aug. 15-19		Mission Milky Way	Super Silly Slimy Summer	Amusement Park Physics	Big Camp for Little Kids	Spy Camp	Spy Camp			
Aug. 22-26		Creative Concoctions	Raise the Roof	Creative Threadz		Invention Lab III	Invention Lab III			

<sup>A</sup> Presented in Partnership with Community Services for Children

NOTE: A one-hour supervised lunch and activity period is provided to campers who participate in a morning and afternoon session on the same day.

**THE BAUM  
SCHOOL  
OF ART**

Special Summer Camp Opportunity for Students Ages 10-13 at The Baum School

**STEAM Camp**

Sponsored by Bob and Sandy Lovett

This full-day summer camp session presents in conjunction with The Baum School of Art in Allentown, Pa., highlights the connection between art and science with hands-on activities, creativity, and discovery. Visit [BaumSchool.org](http://BaumSchool.org) for details and registration information.



## Video Game Design: Gamestar Mech Jr. - \$300

Calling all young gamers! Ever wondered how your favorite video games are made? This week, we'll explore the world behind the scenes of video games. We'll investigate the different types of games we all play and actually code our very own playable game with Gamestar Mechanic Jr.!

## Video Game Design: Gamestar Mechanic - \$300

Calling all gamers! Ever wondered how your favorite video games are made? This week, we'll trade in our controllers for a keyboard and mouse and explore the world behind the scenes of video games. We'll investigate everything from the different types of games we all play and even code our very own playable game with Gamestar Mechanic!

## Arduino I - \$350

Today's technology: computer controlled Do-It-Yourself electronic projects facilitated by Arduino. Arduino is a micro-controller with user-friendly coding that can be used to interact with the world. This Arduino starter camp will provide basic instruction on how to use the Arduino device to perform a variety of different tasks. This session fee includes a \$50.00 material fee for take home electronic parts and accessories. For continued learning experience beyond this camp, your child is encouraged to bring her/his own laptop daily onto which the necessary drivers and codes would be installed for the tasks we do each day.

Register Online at [www.davincisciencecenter.org/camp](http://www.davincisciencecenter.org/camp)

# Da Vinci Science Center Summer Camp

## Adventures of Dr. Seuss - \$150

This super silly camp follows along with all of your favorite Dr. Seuss books. Join us on an adventure through our imaginations as we investigate Oobleck with Bartholomew, explore with the Lorax to uncover the awesome secrets of trees, and learn how to create our very own Dr. Seuss-inspired characters! *Even if "it is wet and the sun is not sunny, we [will] have lots of good fun that is funny."*  
- Dr. Seuss, *The Cat in the Hat*

## Amusement Park Physics - \$190

Explore the physics behind the fun. Investigate the ups and downs of Newton's Three Laws of Motion, design a roller coaster and build devices to measure the forces of amusement park rides. Spend one day - 9 a.m.-4 p.m. - at Dorney Park in Allentown, Pa., testing several of its world-class rides and coasters.

## Art of Science - \$165

Leonardo da Vinci was a great scientist, artist, and inventor. Learn the basics of perspective, photography, ceramics, illustration and the underlying science principals behind them. Families are invited to an art display at the end of the week!

## Big Camp for Little Kids - \$150

This session will be big fun as little kids explore the concept of "big." Activities will include building big feet, big hands, and big bellies. Campers also will play big ball games and make big drawings, big bubbles, big horns, and big paper airplanes. At the end of the session, campers will march in a big parade with their big items and make a big impression on their big day.

## Cartoon Creations - \$150

Investigate the crazy science behind some of your favorite cartoons. Experiment with REAL cartoon-making tools including stop-motion animation cameras and sound effect equipment! Campers will discover how to fool the eye, tickle the brain, and bring their creations to life as they build their very own cartoon universe.

## Claws and Paws - \$170

A camp designed for animal lovers ... but really, who doesn't love animals? Get ready to investigate different animals, some of their special adaptations, and the care necessary to keep them healthy. Highlights include a field trip to the Lehigh Valley Zoo and a visit from the Wildlands Conservancy with some exotic animals.

## Creative Concoctions - \$150

Science and art are twirled together in this STEAM-y summer camp (Science, Technology, Engineering, Art, and Math). We will put a scientific spin on your favorite artistic activities including sculpting with electrical clay, drawing with conductive ink, and painting with edible confections.

## Creative Threadz - \$175

Explore the intersection of art and science this week as we destroy, revitalize, and create our own stylized t-shirt designs. Join us as we turn old t-shirts into awesome new creations, investigate sewable circuitry, and even experiment with graphic design to print your very own custom t-shirt!

## Crime Lab - \$150

Put your detective skills to the test this week at Da Vinci Science Center. Join us as we discover what it takes to be a forensic scientist. Together, we'll develop our investigative skills and work with REAL tools and techniques used in the field including fingerprinting, mold making, DNA extraction, and exposing the unseen with Luminol.

## Frozen Summer - \$150

This camp is going to be totally cool! Join us as we beat the summer heat and escape to a frozen wonderland. From ice cream to polar bears, campers will explore temperature, chemistry, animal science, and engineering with some of their favorite frozen friends.

## Invention Lab III - \$150

New challenges await this year's inventive campers! Each day, our camp counselors will deliver a new goal for the young inventors to achieve in a limited amount of time with the provided materials. We'll put your problem-solving skills to the test during this week of collaboration and friendly competition.

## The Mad Scientist - \$150

Young mad scientists in training will explore a different science every day! We'll experiment as chemists and explore reactions and explosions, tinker with electricity and magnetism as electrical engineers, and examine living things as biologists! Of course, every mad scientist needs to look the part, so we'll make our very own mad scientist lab coats!

## Mission Milky Way - \$150

Join us on a journey through the "final frontier" as we explore the stars, planets, comets, and asteroids that make up our galaxy. Together, we'll discover what it's like to work, eat, and even play like astronauts. If you're up for an adventure that is truly out-of-this-world, this camp is for you!

## NASA Space Explorers - \$150

3 ... 2 ... 1 ... BLAST OFF! Join us for a week of extraterrestrial exploration. We will discover what it takes to be an astronaut - hint - things get much harder in zero-G. Together, we will examine the celestial bodies in our solar system and beyond as we plan for a life away from Earth.

## Over the Rainbow - \$150

Join us on a journey over the rainbow to discover a wonderful world of color! Have you ever seen exploding milk fireworks or changed the color of fire?! Together, we'll investigate the properties of pigment and light in this five-day exploration of all things colorful.

## Raise the Roof - \$150

This week is all about building at Da Vinci Science Center. Join us as we explore architecture, structural engineering, and physics with a series of fun-filled construction challenges. Campers will learn how to use REAL tools, draw blueprints, and discover the properties of structures - big and small.

## Science Spectacular - \$150

Young scientists will explore different fields of science each day - biology, chemistry, physics, and more. We will work together all week to uncover some of the most important scientific concepts that define the very nature of the universe. Prepare to be amazed by the truly spectacular phenomena we will investigate this week!

## Spy Camp - \$150

Your mission, if you choose to accept it...learn the science of spies! Campers will make their very own spy toolkit and learn essential skills required for top notch espionage. At the end of the week, we'll put your skills to the test with a super spy challenge around the Center!

## Super Silly Slimy Summer - \$150

Slime. Ooze. Putty. Goo. Muck. Whatever you call it, we're all about it this week at Da Vinci Science Center. Campers will experiment with the chemistry behind slime in order to discover what makes it so awesome and earn their very own official Da Vinci Science Center Certificate of Slimelology.

## Wacky World of Weather - \$150

What's up with this weather? Why is water falling from the sky? Why does the sky change color every day? What is the difference between snow, sleet, and hail? How do people know tomorrow's weather today? Explore the answers to all these questions and more this week with your friends. *Session presented in partnership with Community Services for Children.*

Register Online at [davincisciencecenter.org/camp](http://davincisciencecenter.org/camp)

# Family Codefest

Family Codefest will be held at the Da Vinci Science Center on **Sunday, June 5<sup>th</sup>** from **12 – 4 PM**. Through fun, hands-on activities, we hope to demystify code and prove that anyone can do it! It will allow people of all ages to learn about the different ways coding impacts their daily lives.

**There are two ways that you can get involved:**

- 1. Classroom Volunteer** – Da Vinci educators will always be present to facilitate.
  - Classroom B – multiple stations with activities that last 3 – 5 minutes.
    - No coding experience necessary!
    - Lead “off-line” coding games such as Gravity Maze, Rush Hour, & Laser Maze.
    - Demonstrate coding activities with Ozobots, S2 robots, & iPads.
  - Classroom C – Hour of Code™
    - At the beginning of session, introduce yourself and your experience with coding.
    - Guide families through a complete Hour of Code™ tutorial on code.org and answer questions as needed.
- 2. Table Exhibitor** – plan and bring your own code-related activity
  - Tables will be set-up throughout the museum.
  - Some example activities/demonstrations may include robots, Raspberry Pi, Makey Makey, videogames, etc.
  - Good demonstrations should last about 3 – 5 minutes, be interactive, have simple, clear instructions, and engage people of all ages.
  - Bring 2-5 presenters with you so you can talk to many families at the same time and take breaks.
  - Set up begins at 11 AM. Make sure you’re ready to go by noon.

**For more information, please contact Maria Galassi**  
[maria@davincisciencecenter.org](mailto:maria@davincisciencecenter.org) or 484-664-1002 Ext. 113



**Classroom Volunteer Form**



Open for EXCITING Possibilities™

Contact Name \_\_\_\_\_

Organization \_\_\_\_\_

Email \_\_\_\_\_

Phone Number \_\_\_\_\_

If volunteering as a group, list their names here \_\_\_\_\_

Which classroom program are you interested in? B \_\_\_\_\_ C \_\_\_\_\_

\_\_\_\_\_ I understand that I must provide copies of my 1) PA Criminal Records Clearance and 2) PA Child Abuse Clearance by Monday, May 30<sup>th</sup>. See next page for more information.

**Table Exhibitor Form**

Organization Name (as you wish it to appear in advertising) \_\_\_\_\_

Website (if applicable) \_\_\_\_\_

Primary Contact Name \_\_\_\_\_

Email \_\_\_\_\_

Phone Number \_\_\_\_\_

Please list names of other presenters \_\_\_\_\_

Activity Title \_\_\_\_\_

Brief Activity Description \_\_\_\_\_

Will you need power? (Please be prepared to bring your own power strip or extension cord)

Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_ I understand that I must provide a certificate of insurance naming the Da Vinci Science Center as additional insured by Monday, May 30<sup>th</sup>.

\_\_\_\_\_ I understand that I must provide copies of my 1) PA Criminal Records Clearance and 2) PA Child Abuse Clearance by Monday, May 30<sup>th</sup>. See next page for more information.

**Please return this application to [maria@davincisciencecenter.org](mailto:maria@davincisciencecenter.org) by May 16<sup>th</sup>**

## Clearances

### 1. PA State Police Request for Criminal Records

Cost: Free

Time: Less than 5 minutes to fill out, but about 1 week for processing

How to: Visit <https://epatch.state.pa.us/Home.jsp> and click on "New Record Check" (Volunteers only). Make sure you save and print a copy of the "Certification Form" for your own records, and email a copy to Maria at [maria@davincisciencecenter.org](mailto:maria@davincisciencecenter.org)

### 2. Department of Public Welfare Child Abuse History Clearance

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Cost: Free

Time: About 5 minutes to fill out, but about 2-3 weeks for processing

How to: Visit <https://www.compass.state.pa.us/cwis/public/home> and click "Create Individual Account" and fill out the Child Abuse History request completely. Make sure you save your username and password because you will need them to access your certificate once processed. Save and print a copy of the "Certification Form" for your own records, and email a copy to Maria at [maria@davincisciencecenter.org](mailto:maria@davincisciencecenter.org)

OPEN DAILY TO THE PUBLIC



DA VINCI  
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# GROSSOLOGY

March 12-Sept. 5, 2016

Sponsored in Part by

**B | BRAUN**  
SHARING EXPERTISE

 **Lehigh County**  
Pennsylvania

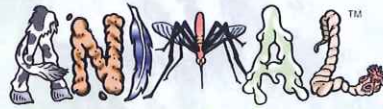
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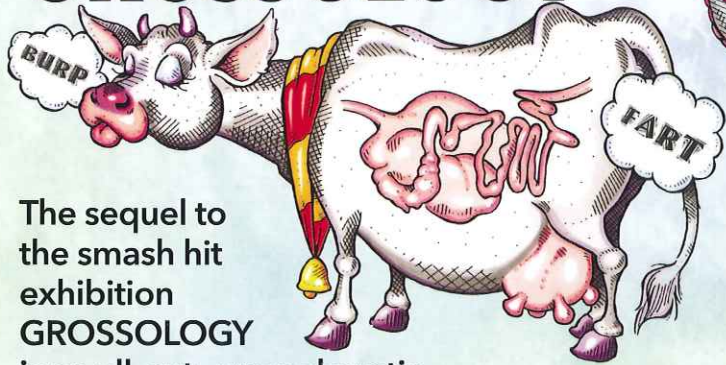
## VISITOR HOURS

Monday-Saturday 10 a.m.-5 p.m. • Sunday 12-5 p.m.

3145 Hamilton Blvd. Bypass, Allentown, PA 18103



# GROSSOLOGY



The sequel to  
the smash hit  
exhibition  
**GROSSOLOGY**

is an all-out, unapologetic,  
and playful animatronic adventure of  
everything sticky, stinky, slimy, oozy, and  
disgusting with animals around the world.

Animal Grossology lets kids enjoy exploring  
nature's blood-sucking, bee-barfing, vomit-  
munching, slime-making, and dookie-loving  
creatures. It's gross, but it's based upon real  
science and healthy actions and it makes  
learning fun.

## What Kids Can Do

- Play an arcade-style game in which a **frog "barfs" babies out its mouth**
- Visit an ice house and help Peter Penguin figure out **which animals pooped his party, literally**
- Take part in a **dung ball rolling race** like beetles
- Play the **animated Slime Game** and vote for the slimiest creature of them all
- **Sniff strong animal odors** and discover how animals use smells to communicate
- Check out owl pellets - **balls of waste that owls hack up from their stomachs**

