



Want to know what activities are best for your aspiring scientists? Check out each booth sign to help guide your day!

### KEY

Restrooms	First Aid Station & Lost Child Info
Information	Food Trucks
Robot Row	Climate City
Tot Lot	Cool Down Space
Astronomy and Sungazing Zone	

Paddle Boat rentals Olympia & Bacuna access

## GREEN

American Society of Clinical Laboratory Science:  
**What Is a Medical Laboratory Scientist?**

Green Mountain Energy Company:  
**How Does Wind Energy Work?**

Margo Insurance:  
**How Do You Build a Motor?**

Mid-Atlantic Native & Threatened Insect Zoo (MANTIZ):  
**Why Do You Need Insects?**

Temple University:  
College of Liberal Arts Department of Geography and Urban Studies:  
**Where Do Biology and Society Meet?**

College of Science and Technology Summer Programs:  
**Can You Make a Space Suit?**

College of Science and Technology TUTeach Program:  
**Can Your Smartphone Be Used to Do Science?**

College of Science and Technology & Naval Surface Warfare Center Philadelphia Division:  
**How Does the Navy Use STEM?**

College of Science and Technology:  
**STEM U... Are You Up To The Challenge?**

Department of Physics:  
**Can Electricity Flow Through the Air?**

Kornberg School of Dentistry Pediatric Dentistry Club and Temple ASDA:  
**Why Do I Have to Brush My Teeth?**

## YELLOW

University of Pennsylvania (cont.) L.R.S.M.:  
**Thanks to Chemistry, Who Says Muggles Can't Do Magic?**

Museum of Archaeology & Anthropology:  
**Did Science Give Midas His Golden Touch?**

Neuroscience Graduate Group:  
**Can You Believe What You Hear?**

Neuroscience Graduate Group:  
**How Powerful Is Your Memory?**

Penn Center for Brain Injury and Repair:  
**Why Should You "Mind Your Brain"?**

Penn Electric Racing:  
**What Is the Future of Transportation?**

School of Veterinary Medicine:  
**What Does a Veterinarian Do?**

Women in Chemistry:  
**What Are Some Fabulous Fascinating Fluids?**

## ASTRONOMY ZONE

Charlie Bates Solar Astronomy Project:  
**What Will I See on the Sun Today?**

The Franklin Institute:  
**What's Up?**

NSS Philadelphia Area Space Alliance:  
**Can You Pioneer the Space Frontier?**

Rittenhouse Astronomical Society:  
**What Is in the Sky Above?**

## ROBOT ROW

Boeing:  
**How Do Rotorcraft Fly?**

The Franklin Institute:  
**How Can a Simple Circuit Create a Scribbling Robot?**

PACTS Program:  
**How Are Robots Used in Space?**

JR Masterman High School:  
**How Can Robots Overcome Physical Barriers?**

RoboLancers:  
**How are Robots Changing Philly?**

Audubon Pennsylvania:  
**Why Do We Need Native Plants?**

Center for Aquatic Sciences at Adventure Aquarium:  
**Sharks or Marine Debris - Which Is Deadlier?**

Coyne Chemical:  
**What Is the Chemistry of Clean?**

Heart to Soul in Action:  
**How Does Your Eye See?**

## ORANGE

Kimberly Clark Chester Mill:  
**How is Paper Made?**

Pennsylvania SPCA:  
**How Can You Build a Healthy Relationship with Your Pet?**

Riverbend Environmental Education Center:  
**Is Fish Poop the Future of Food? Who Lives Under Our Feet?**

Thomas Jefferson University:  
**Does Your Teddy Bear Need a Band-Aid? How Sweet Is It? How Will a Concussion Affect Your Game? What Do You and a Strawberry Have in Common? What Is High Blood Pressure? What Keeps You Balanced?**

University of the Sciences:  
**How Is Your Posture? Is there Science in Magic?**

Boeing:  
**How Do Rotorcraft Fly?**

The Franklin Institute:  
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## PURPLE

The Franklin Institute and Drexel University:  
**What's So Big About Super Small Science?**

The Franklin Institute and University of Pennsylvania:  
**What's So Big About Super Small Science?**

The Franklin Institute:  
**Who Invented That?**

Garden State Discovery Museum:  
**How Sticky Is Slime?**

Germantown Academy:  
**Can You Find Science in a Bubble?**

GLIST - Girls Lead In Science and Technology:  
**How Can You Communicate with Computers? How Can You Tell a Computer to Draw?**

KIPP Dubois Collegiate Academy / Tiger Woods Learning Center / SAP STEAM Program:  
**Can You Make an Electric Circuit out of Paper?**

Let's Go Outdoors:  
**What Are (Water) Ways to Go Outdoors?**

PharmaCadence:  
**How Do You Weigh a Molecule?**

Philadelphia Beekeepers Guild:  
**How Do Bees Make Honey?**

Professional Development Dimensions:  
**How's it Swinging?**

Rowan University:  
**How Do Rocks Form? Is there Science in Exercise? What Kind of Reptiles Can You Find? What Makes for a Sturdy Boat? What Makes Things Float and Sink?**

Sharkservation:  
**Are You Afraid of the Shark?**

Society of Women Engineers Philadelphia Section:  
**Can You Make Your Own Bouncy Ball?**

GSK Science in the Summer and The Franklin Institute:  
**How Do Biologists See the World?**

GSK:  
**How is a Medicine Developed?**

## BLUE

American Helicopter Museum and Education Center:  
**Would You Like to Pilot Cheerful Chopper?**

GSK:  
**How is a Medicine Developed?**

## RED

Independence Seaport Museum:  
Underwater Robotics Challenge:  
**Can You Clean Up Our Marina? What Floats Your Boat?**

Partnership for the Delaware Estuary:  
**What Animal Cleans Water Better Than a Filter?**

Science Leadership Academy:  
**How Does Chemistry Shape our Food? Where Can Science Take You?**

The Dow Chemical Company:  
**Where Can Science Take You?**

The Nature Conservancy:  
**How Does Nature Clean Our Water? What's Invading Our Forests?**

University of Delaware:  
MSEG Grad Students:  
**How Is Solar Energy Harnessed? What Is Amazing About the Horseshoe Crab?**

## TEAL

Bodine High School for International Affairs:  
**What Makes Magic Sand Magic?**

Bright Horizons Family Solutions:  
**Can Your Family Learn More STEM?**

Children's Hospital of Philadelphia:  
Department of Audiology and Ophthalmology:  
**Do You See What I Hear?**

Department of Neurology:  
**How Are the Eyes a Window to the Brain?**

Emergency Department:  
**How Do You Stay Healthy?**

Poison Control Center:  
**How Are Button Batteries Dangerous?**

Vaccine Education Center:  
**What Do You Know About Vaccines and the Scientists Who Made Them?**

Community College of Philadelphia:  
**How Are You Eating?**

Delaware Valley Science Fairs:  
**How Can Your STEM Research Make Scents?**

Engineers' Club of Philadelphia:  
**What Do Engineers Do?**

Esperanza College:  
**How Does Oxygen Move Around Your Body?**

Free Library of Philadelphia:  
**What has 25 Feet, Is Online and Never in the Same Place?**

Global Philadelphia:  
**What Is the Science of the World? Are You a Fan of Science Friction?**

Houghton International:  
**Are You a Fan of Science Friction?**

Northern Burlington County Regional High School:  
**What Does Physics SOUND Like?**

Philadelphia Phillies:  
**How Do the Phillies Use Turfgrass Science at the Ballpark?**

Philadelphia Police Department:  
**What Do We Do at the Office of Forensic Science?**

Philadelphia Solar Energy Association:  
**Is the Sun a Racing Fuel?**

## CLIMATE CITY

Philadelphia University:  
**How Can Public Artwork Harvest Renewable Energy? How Does the Human Body Work?**

Please Touch Museum:  
**How High Can You Fly? What Can Young Children Learn Through Water Play?**

Power Home Remodeling Group:  
**How Can You Make Your Home More Energy Efficient?**

SEPTA:  
**How Does an Orange Line Go Green? What Is Sustainable Farming?**

Citizens' Climate Lobby:  
**How Will the Natural World Change in Your Lifetime?**

Clean Air Council:  
**What Can I Do About Local Pollution?**

Energy Coordinating Agency:  
**How Do Air and Energy Work in Homes?**

The Franklin Institute and GreenTrek:  
**Are You Prepared for a Wetter Philadelphia?**

The GREEN Program:  
**Are You Green?**

PennEnvironment:  
**How Can We Prepare for a Hotter Philadelphia?**

Philadelphia Water / Fairmount Water Works:  
**How Do I Play a Part in the "Green City, Clean Waters" Plan for the Future?**

The Resource Exchange:  
**Where Is "Away"?**

The Workshop School EVX Team:  
**Can Cars Be Powered by Donuts? How Are Leaves Like Umbrellas?**

US Forest Service:  
**How Are Leaves Like Umbrellas?**

Climate City is bought to you by CUSP

## TEAL

The Academy of Natural Sciences of Drexel University:  
**Can You Get Your GAME ON! Philadelphia? Eww! That Comes from Where?**

Braskem:  
**How Can Plastics Make Life Better? Can You Make a Movie with Clay?**

The Clay Studio:  
**Can You Make a Movie with Clay?**

Diversified Scholars Initiative:  
**Who Made the Lightbulb, Microphone, and Super Soaker? How Can Chemistry Color Your World?**

Drexel University:  
Department of Biology:  
**Are You Built Like a Dog? Biology Graduate Student Association: How Do Your Nerves Move Your Muscles? Department of Chemistry: Can You Make Plastic Powder Bounce? DragonsTeach: How Many Ways Can You Make Sound? Physics Graduate Student Association: What Does a Physicist Actually Do? Society of Physics Students: Can Music Make Oobleck Dance? Society of Women Engineers: Is Resistance Futile Regarding Electricity? TechServ: How Do Computers Work? Harrington Science Club: How Many Cool Ways Can You Explore Science? John Heinz National Wildlife Refuge at Tinicum: Who Makes Your Food and Why Do They Need Your Help?**

## PECO: Energizing Education Program: Where Does Energy Come From? How Can You Save Energy and Money?

Philadelphia Society for Biomedical Research:  
**How Can Animals Save Human Lives? How Can Animals Save Osteopathic Medicine: What's Bubbling in Your Brain? Philadelphia Department of Public Health: What's Happening in Public Health? The Philadelphia Zoo: Who's Who at the Zoo? PHL Life in Partnership with iPraxis: What Can Affect the Circulatory System? PJM Interconnection: Can You Change the Price of Electricity? Princeton University Graduate Molecular Biology Outreach Program (GMOP): What's in My Food? Renewal by Anderson: How Do You Build an Energy Efficient Window? Salus University: How Well Can You See, Hear, and Speak? SciStarter: Are You a Citizen Scientist? Spills Writing Lab: What Makes Superheroes Super? The Tesla Science Foundation: Who Was Nikola Tesla? Waldron Mercy Academy: What Makes a Light Work? WTS Philadelphia Transportation You: What Does Your Future STEM Career Look Like?**

## TOT LOT

Don't miss this space devoted to our tiniest scientists!

### ACTIVITIES:

Bright Horizons Family Solutions:  
**Can Your Family Learn More STEM?**  
 PNC Grow Up Great:  
**What Can Young Children Learn through Water Play?**

### PERFORMERS:

**The Lara and Joe Show**  
 One of Philadelphia's favorite bands for high energy children's songs and family favorites, will be rocking out in the Tot Lot all day long!



## STAGE:

Hosted by WXPB Kids' Corner Host Kathy O'Connell

### Alex & the Kaleidoscope

Alex & the Kaleidoscope engages audiences of all ages with their lively and interactive performances. Sing, clap, and dance along!

### The Franklin Institute's Traveling Science Show's Science Showdown

Science Showdown is an interactive tour-de-force with two sci-athletes engaging in a battle for science supremacy. From the opening bell our sci-athletes will explain the science behind a series of demonstrations. The referee will keep everything in line and administer fouls as necessary. As always, we have a few new demos up our sleeves for this show.

### Spherus featuring Greg Kennedy

Spherus features International Juggling champion Greg Kennedy, who uses the principals of geometry and physics to create new forms of juggling and circus arts. He is complemented by two high-flying aerial dancers: Rachel Lancaster and Christine Morano.

## STAGE SCHEDULE

- 10:00-10:45 am**  
Alex & the Kaleidoscope
- 10:50-11:30 am**  
Spherus featuring Greg Kennedy
- 11:30 am-12:00 pm**  
Alex & the Kaleidoscope
- 12:00 pm**  
12 Trashcan Salute
- 12:15-12:45 pm**  
Franklin Institute's Science Showdown
- 1:00-1:45 pm**  
Spherus featuring Greg Kennedy
- 1:50-2:30 pm**  
Alex & the Kaleidoscope
- 2:30-3:00 pm**  
Franklin Institute's Science Showdown
- 3:15-4:00 pm**  
Alex & the Kaleidoscope

[www.PhilaScienceFestival.org](http://www.PhilaScienceFestival.org)

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- Renewal By Andersen
- Salus University



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April 22-April 30

# CARNIVAL MAP 2016

Science Carnival at Penn's Landing | 10:00 am-4:00 pm

## DON'T MISS THE EPIC 12 TRASHCAN SALUTE!

12:00 pm on the Stage

What happens when you try to contain ultra-cold liquid nitrogen as it heats up under a trashcan with color run powder on top? Find out when you join us to close out the Science Carnival with this EPIC explosion of grand proportions!



## FOOD TRUCKS:

- Bistro By Cuisine 365**
- Chewy's**
- Hai Street Kitchen**
- Little Baby's Ice Cream**
- Oink and Moo BBQ**
- Say Cheese Philadelphia**
- Sugar Philly**
- The Cow and The Curd**
- The Tot Cart**
- Robeks Fresh Juices & Smoothies**
- Sweetbox**

## INDEPENDENCE SEAPORT MUSEUM

Museum access is FREE all day!

Check out the new Patriots & Pirates exhibit and climb aboard Schooner Diligence, a stationary 102 foot vessel with masts soaring above a 62 foot deck.

### COOL DOWN SPACE:

The Carnival offers a bustling atmosphere, with plenty of fun opportunities. However, this atmosphere can be overwhelming for people with differing sensory needs. The Cool Down space offers a quiet environment with tactile tools and a safe place to take a break.



**Cruiser Olympia and Submarine Becuna are open all day - \$7.00**

Tickets available at the museum box office or on each of the ships

**Kayaks and Rowboats available for rental all day 11:00 am - 4:00 pm**

- Single Kayaks: \$5/half hour
- Swan Boats: \$10/half hour
- Tandem Kayaks and Rowboats: \$10/half hour



[www.PhilaScienceFestival.org](http://www.PhilaScienceFestival.org) | #GetNerdyPHL



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TOT LOT

STAGE

TRASH CAN SALUTE!

FOOD

SEAPORT MUSEUM