PROGRAM GUIDE

www.PhilaScienceFestival.org
#GETNERDYPHL

PRESENTING SPONSOR

FMC An Agricultural Sciences Company
Welcome to The Philadelphia Science Festival—a nine-day, community-wide celebration of science!

Together, The Franklin Institute and 200 collaborators from the region’s leading educational, cultural, and scientific institutions are joining forces to educate, inspire, and excite the Delaware Valley about the science present in our everyday lives. From vegetable gardens to beer gardens; from public parks to fossil parks; and from chemistry labs to maker spaces—we invite you to get curious, get creative, and most of all...

#GetNerdyPHL | PhilaScienceFestival.org

9 DAYS. OVER 60 EVENTS.
MORE THAN 75,000 ATTENDEES.
1 GOAL!

We are grateful to FMC for generously supporting the Philadelphia Science Festival as Presenting Sponsor in 2019.
Festival Events at a Glance

**PRE FESTIVAL EVENT**

**SAT MARCH 30**
Science at the Ballpark
Science Activities at 2:30 pm
Game at 4:05 pm
Citizens Bank Park

**FRI APRIL 26**
Citywide Star Party
Various times
Various Locations
Star Party After Party
10 pm–1 am
The Franklin Institute

**SAT APRIL 27**
Science Saturday at Rutgers
11 am–1 pm
Rutgers University
Science in the Park
Noon–4 pm
Clark Park & Hunting Park

**SUN APRIL 28**
Be a Scientist!
Various Times
Various Locations
POP in the Park
11 am–1 pm
Rail Park
Science Sunday at Rowan
1–4 pm
Rowan University

**SUN APRIL 29**
Murder at the Mütter’s Workplace Woes
2–6 pm
Mütter Museum of the College of Physicians of Philadelphia
Fishtown Science Crawl
2–5 pm
Various locations in Fishtown

**MON APRIL 30**
Science After School
3:30–5:30 pm
Greater Olney, Philadelphia City Institute, and Whitman Libraries
Science on Tap Untapped: My Love Affair with Science
6–8 pm
National Mechanics

**TUES MAY 1**
Science After School
3:30–5:30 pm
Andorra, Eastwick, Independence, and Joseph E. Coleman Northwest Regional Libraries

**WED MAY 2**
Science in the National Park
10 am–2 pm
Independence National Historical Park

**THURS MAY 3**
Electric Jellyfish at the Philly Tech Week Kickoff
6–8 pm
Science History Institute

**FRI MAY 4**
Science Carnival on the Parkway
10 am–4 pm
Ben Franklin Parkway

Learn more at PhilaScienceFestival.org
SATURDAY, MARCH 30

SCIENCE AT THE BALLPARK

The Phillie Phanatic loves science!

Join him on Saturday, March 30 to cheer on the Philadelphia Phillies as they take on the Atlanta Braves, and take part in Science Day at the Ballpark. Before the game and throughout the first three innings, some of our favorite PSF partners will be on hand to spark scientific curiosity through interactive activities, games, and more.

Activities from 2:30–5:00 pm
Game begins at 4:05 pm
Citizens Bank Park
1 Citizens Bank Way

Join us for this special sneak peek of the 2019 Philadelphia Science Festival, as we celebrate science and sports—a HOME RUN in our book!
CITYWIDE STAR PARTY

People all across the Delaware Valley turn their eyes to the skies for a one-night-only citywide celebration of the cosmos!

Join your friends and neighbors to stare at the stars, contemplate the constellations, and be amazed by astronomy—right in your own backyard.

Local astronomers will bring dozens of telescopes to more than 20 stargazing sites across the region to educate and inspire us all to better understand our universe.

For information on your local site, visit PhilaScienceFestival.org.

FREE, no registration required

7:30–10:00 pm unless otherwise noted

FESTIVAL KICK OFF!

CITYWIDE STAR PARTY LOCATIONS

Academy of Natural Sciences
1900 Ben Franklin Parkway
Awbury Arboretum
Agricultural Village
6336 Ardleigh Street
(6:00–10:00 pm)
Battleship New Jersey
Museum & Memorial
100 Clinton Street, Camden, NJ
The Discovery Center
3401 Reservoir Drive
The Dow Chemical Company
400 Arcola Road, Collegeville, PA
Esperanza College
4261 North 5th Street
Glen Foerd on the Delaware
5001 Grant Avenue
Grumblethorpe Historic House and Gardens
5287 Germantown Avenue
Harry S. Truman High School
5001 Green Lane, Levittown, PA
Haverford College
Strawbridge Observatory
370 Lancaster Ave., Haverford, PA
Jenks Academy
of the Arts and Sciences
8301 Germantown Avenue

John Heinz National Wildlife Refuge
8601 Lindbergh Boulevard
Laurel Hill Cemetery
3822 Ridge Avenue
Limerick Community Park
180 Swamp Pike, Royersford, PA
MaST Community Charter School
1800 East Byberry Road
Riverbend Environmental Education Center
1950 Spring Mill Road
Rowan University
201 Mullica Hill Road, Glassboro, NJ
South Philadelphia Community Health and Literacy Center
DiSilvestro Playground
1701 South 15th Street
(7:30–9:00 pm)
Stenton House
4601 North 18th Street
Swarthmore College
Peter van de Kamp Observatory
Whittier Place, Swarthmore, PA
Thomas Jefferson University
Lubert Plaza,
Corner of 10th and Locust Streets
Timber Creek Dog Park
Timber Creek Park,
Gloucester Township, NJ
William Tennent High School
322 Centennial Road,
Warminster, PA
(6:30–10:00 pm)
The Woodlands
4000 Woodland Avenue
Wyck Historic House
6026 Germantown Avenue

learn more at PhilaScienceFestival.org
STAR PARTY AFTER PARTY

Cosmos, constellations—and contemporary art!

It’s last call at The Franklin Institute, site of one of the best rooftop views in the region, and you’re invited to a Star Party After Party, a late evening of prime stargazing, mixed with dancing in the Fels Planetarium and a rooftop silent disco. The exclusive adults-only After Party serves as round two of the Festival’s signature launch event, Citywide Star Party, and features the world premiere of a collaborative Planetarium piece by ballet artist and choreographer Nora Gibson and Australian video artist, Jason Haggerty—showcasing the beautiful and collective magic of science + art. Stargazing and rooftop silent disco are weather permitting.

- $10 Ticket
- 10:00 pm–1:00 am
- The Franklin Institute, 222 North 20th Street
- Adults 21+ | Cash Bar

SCIENCE IN THE PARK

Who says science, technology, engineering, and math can’t sometimes be a “walk in the park”? Let us inspire and excite your family with all the wonder that discovery can bring through a day of hands-on activities in two of the city’s most beloved parks. Teach your kids the fundamentals of curiosity and experimentation as the community comes together to delight in the science that surrounds us every day.

- FREE, no registration required
- 12:00–4:00 pm
- Hunting Park
  900 West Hunting Park Avenue
  – Rain or shine
- Clark Park
  4300-4398 Baltimore Avenue
  – Rain location: University of the Sciences Athletic & Recreation Center
  600 South 43rd Street

Event Venue Partner

SCIENCE SATURDAY

AT RUTGERS UNIVERSITY-CAMDEN

Experience the excitement of discovery when you visit Rutgers Day 2019! Check out the wide range of exhibits hosted by the Rutgers School of Nursing-Camden as well as the science programs at Rutgers-Camden during this daylong celebration in the heart of the Camden Waterfront.

- FREE, no registration required
- 11:00 am–1:00 pm
- Rutgers University
  326 Penn Street, Camden, NJ

learn more at PhilaScienceFestival.org
BE A SCIENTIST!
Step into the “labs” of the area’s paleontologists, marine biologists, ecologists, and more as Philly’s premier research institutions, hospitals, universities, and museums allow exclusive insider access at 18 different locations for one day only.

Learn from the experts themselves about what makes their fields so incredible and why being a scientist or engineer can be the best job in the world!

FREE or FREE WITH ADMISSION
Various times & locations
Visit PhilaScienceFestival.org to plan your day and confirm program details!

BE A DOCTOR!
TEDDY BEAR CLINICS
Abington Hospital
Jefferson Health Lenfest Pavilion, Frobeze Conference Center
1200 Old York Road, Abington, PA
1:00–3:00 pm

Jefferson Torresdale Hospital
10800 Knights Road
1:00–3:00 pm

Jefferson Cherry Hill Hospital
2201 Chapel Avenue West
Cherry Hill, NJ
1:00–3:00 pm

Thomas Jefferson University
Dorrance Hamilton Building
1001 Locust Street
1:00–4:00 pm

BE AN 18TH & 19TH CENTURY DOCTOR!
Pennsylvania Hospital
800 Spruce Street
11:00 am–3:00 pm

BE A SCIENTIST AT CHOP!
Children’s Hospital of Philadelphia
Buergener Center for Advanced Pediatric Care
3500 Civic Center Boulevard
12:00–3:00 pm

BE A WATERSHED SCIENTIST!
Bartram’s Garden
5400 Lindbergh Boulevard
10:00 am–2:00 pm

BE A PALEONTOLOGIST!
Edelman Fossil Park at Rowan University
625 Woodbury-Glassboro Road
Sewell, NJ
10:30 am–12:30 pm
Registration required

BE A MAKER!
Independence Seaport Museum
211 South Christopher Columbus Boulevard
11:00 am–1:00 pm
Free with admission

BE AN ENGINEER!
Temple University
Engineering Building
1947 North 12th Street
11:00 am–1:00 pm

BE A ZOOLOGIST!
Philadelphia Zoo
3400 West Girard Avenue
11:00 am–2:00 pm
Free with admission

BE A RIVER ECOLOGIST!
Glen Foerd on the Delaware
5001 Grant Avenue
12:00–3:00 pm

BE AN ENTOMOLOGIST!
Wyck Historic House
6026 Germantown Avenue
12:00–3:00 pm

BE A HEALTH PROFESSIONAL!
University of the Sciences
Integrated Professional Education Complex (IPEX)
4306 Woodland Avenue
12:00–4:00 pm

BE AN ORNITHOLOGIST!
The Wagner Free Institute of Science
1700 West Montgomery Avenue
12:00–4:00 pm

BE AN ARBORIST!
Pier 68, Philadelphia Waterfront
Pier 70 Boulevard
1:00–3:00 pm

BE A HISTORIAN!
American Philosophical Society
Philosophical Hall
104 South 5th Street
2:00–6:00 pm
Program for high school, college, and graduate students

BE AN EXPLORER!
Please Touch Museum
4231 Avenue of the Republic
2:00–5:00 pm
Free with admission

learn more at PhilaScienceFestival.org
POP IN THE PARK

Bubbles, Bubbles and MORE Bubbles! A bubble might be a mere puff of air trapped inside a soap and water film, but there is much, much more to explore!
The magic of bubble artistry comes to life in this family-friendly event designed to celebrate the infinite ways these momentary soap masterpieces captivate and delight. Create glistening bubble watercolor art. Bounce, catch and chase bubbles. Blow bubbles using a variety of tools. Mix bubble formula. And, for the ultimate bubble lover—step inside a giant hula-hoop formed bubble!

Plus, create vibrant art that represents you and your community with a stop at Murals on the Move, a colorful van stocked with art supplies and equipped with talented teaching artists from the Mural Arts Program.

POP on by for BUBBLES of FUN!

FREE, no registration required
11:00 am–1:00 pm

The Rail Park
1100 Block of Callowhill Street

Hosted by
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SCIENCE SUNDAY
AT ROWAN UNIVERSITY

Join Rowan University students, faculty, and staff for a day filled with science, technology, engineering, art, and math!

Explore the science of sport and body movement, learn which numbers always surround you, catch a planetarium show, gaze safely at the sun, and participate in numerous hands-on science activities for the whole family!

FREE, no registration required
1:00–4:00 pm

Rowan University Science Hall
201 Mullica Hill Road
Glassboro, NJ

learn more at PhilaScienceFestival.org
MURDER AT THE MÜTTER®: WORKPLACE WOES

Forensics meets fun in this murder mystery party at the Mütter Museum. Uncover clues, analyze evidence, and solve the murder alongside real forensics experts. Find out if you have what it takes to be a crime scene investigator.

$70 general admission; $40 with valid student ID; $40 for College Fellows and Mütter Museum Members

Ages 16+
Ages 16 and 17 must be accompanied by an adult 21+
2:00–6:00 pm
Cocktail hour at 5:00 pm
Mütter Museum of the College of Physicians of Philadelphia
19 South 22nd Street

FISHTOWN SCIENCE CRAWL

Take “Sunday Funday” to a whole new level during the Fishtown Science Crawl.

With drink specials, explosive science demonstrations, and awe-inspiring activities at many of Fishtown’s most popular venues, this is the nerdiest bar crawl you’ll ever experience. So raise a pint in the name of science and buckle up for the most mind-blowing brunch you’ll ever have!

FREE, no registration required
$5 wristband for food + drink specials
2:00–5:00 pm

PARTICIPATING VENUES:

The Barbary 951 Frankford Avenue
Barcade  1114 Frankford Avenue
Fette Sau  1208 Frankford Avenue
Front Street Cafe  1253 North Front Street
Garage Fishtown  100 East Girard Avenue
Kensington Quarters  1310 Frankford Avenue
La Colombe  1335 Frankford Avenue

learn more at PhilaScienceFestival.org
SCIENCE AFTER SCHOOL

Spark your student’s passion for STEM learning when local engineers, scientists, and other experts visit your neighborhood library to lead FREE after-school programs. Take part in these exciting experiments, animal encounters, and kid- (and scientist-) approved hands-on activities, right in your neighborhood library. Delve into a microscopic world and experiment like a medical laboratory scientist at Philadelphia City Institute Library, build a robot and teach it to be an artist at Whitman Library, and investigate organisms that are living right under your feet at Greater Olney Library.

FREE, no registration required
3:30–5:30 pm
Greater Olney Library
5501 North 5th Street
Philadelphia City Institute Library
1905 Locust Street
Whitman Library
200 Snyder Avenue

Made possible by

SCIENCE ON TAP

UNTAPPED: MY LOVE AFFAIR WITH SCIENCE

Oh science, how do we love thee? Let us count the ways! For the last 10 years, Science on Tap has been in love with science. Join us for a special Philadelphia Science Festival edition that will get at the heart of why we care so deeply about this wide and varied field.

FREE, Ages 21+
6:00–8:00 pm
National Mechanics
22 South 3rd Street


Six speakers will share stories of how they fell for their research hook, line, and sinker. Between these flash-talks, we’ll get to the bottom of the greatest mystery of them all: just what is science’s love language?

learn more at PhilaScienceFestival.org
SCIENCE AFTER SCHOOL

Be transported back in time while studying fossils at Andorra Library, let your imagination run wild as you create a creature at Eastwick Library, investigate a crime scene at Independence Library, or learn how to code a video game at Joseph E. Coleman Northwest Regional Library.

Take part in these exciting experiments, animal encounters, and kid- (and scientist-) approved hands-on activities, right in your neighborhood library.

**FREE, no registration required**

3:30–5:30 pm

Andorra Library – 705 East Cathedral Road
Eastwick Library – 2851 Island Avenue
Independence Library – 18 South 7th Street
Joseph E. Coleman Northwest Regional Library – 68 West Chelten Avenue

Visit PhilaScienceFestival.org for additional details on participating partners.

SCIENCE AFTER SCHOOL

Build a boat and navigate using a naval simulator at Fumo Family Library, learn how to cook a healthy meal with a celebrity chef at Holmesburg Library, or discover what is under the wrappings of mummies at Wynnefield Library.

Take part in these exciting experiments, animal encounters, and kid- (and scientist-) approved hands-on activities, right in your neighborhood library.

**FREE, no registration required**

3:30–5:30 pm

Fumo Family Library
2437 South Broad Street

Holmesburg Library
7810 Frankford Avenue

Wynnefield Library
5325 Overbrook Avenue

learn more at PhilaScienceFestival.org
SCIENCE IN THE NATIONAL PARK

There is so much science to celebrate in the birthplace of our country! Attendees will have the opportunity to explore the connection between history and science at Independence National Historical Park, with activities geared to a fourth and fifth-grade audience.

FREE, no registration required
10:00 am–2:00 pm
Independence National Historical Park
6th and Market Streets
Event Partner

PHILADELPHIA SCIENCE FESTIVAL AT PHILLY TECH WEEK KICKOFF

This year, the Festival helps kick-off a week-long celebration of technology and innovation at Philly Tech Week's Kickoff at First Friday in Old City.

Stop by the parking lot behind the Science History Institute to catch a glimpse of the Festival’s Electric Jellyfish Bloom and make a few keepsake LED pins while there.

FREE, no registration required
6:00–8:00 pm
Science History Institute
Parking Lot, 2nd Street between Market & Chestnut Streets

Learn more at PhilaScienceFestival.org
SCIENCE CARNIVAL
ON THE BENJAMIN FRANKLIN PARKWAY

The 2019 Philadelphia Science Festival culminates in a super-charged, super-fun celebration of science! This FREE event is unlike any other—with dynamic demonstrations, engaging experiments, geeky games, and electrifying entertainment for the entire family.

Extending even further along the Benjamin Franklin Parkway this year, this finale event promises to be the ultimate daylong science extravaganza!

FREE, no registration required
10:00 am–4:00 pm
Benjamin Franklin Parkway
222 North 20th Street

Over 150 exhibitors with fun, engaging interactive activities and it’s totally FREE!

TRASH CAN SALUTE!
What happens when you try to contain ultra-cold liquid nitrogen as it heats up under thousands of squishy balls? Find out when you join us to close out the Science Carnival on the Parkway with this EPIC explosion of grand proportions!
3:45 PM
IN FRONT OF THE FRANKLIN INSTITUTE

LIVE SCIENCE SHOWS
An evil villain has threatened to ruin the Festival. The threat is so real that the Council of Science Superheroes will convene in order to hold-off this formidable foe!
ALL DAY
THROUGHOUT THE CARNIVAL

PLUS–
Learn the answers to the following questions (plus over 100 more!)
Do trees get thirsty?
What do engineers do?
Where do monarch butterflies go?
How do planes fly?
What’s inside a computer?
What makes you, you?
What do you and a strawberry have in common?
What does DNA look like?
How is paper made?
How do lava lamps work?

Join us for a super-charged, super-fun, 6-hour celebration of science!

learn more at PhilaScienceFestival.org
The Philadelphia Science Festival knows science is an art, and art is a science.

We believe in the incredible importance of the arts as a tool to build critical thinking, and as a venue for public engagement with complex and innovative concepts—notions that are at the heart of all scientific pursuits.

That is why we are excited to showcase the 2019 STEAM Projects.

These projects invite local artists to present interactive installations that join science and art.

Visit these special offerings throughout the Festival—engage with them and learn from them—and help us to elevate the “A” in STEAM (science, technology, engineering, ART, and math).

For additional details on our STEAM projects, visit www.PhilaScienceFestival.org

These projects will be displayed at the Carnival on the Parkway on Saturday, May 4.

BLUE SKY OR SKY BLUE?

An interactive public art installation by Andrew Herzog that allows individuals to explore the spectrum of color in the sky.

Blue Sky or Sky Blue? is made up of a series of free-standing wooden structures that support large mirrors. These mirrors are elevated at a variety angles to reflect only the sky.

These structures act as instruments of measurement, creating the opportunity to see the sky not simply as blue or not blue, but observe the color changing dynamically throughout short periods of time as you walk through the installation.

MONARCH MIGRATION

Creativity takes flight in a series of workshops hosted by the John Heinz National Wildlife Refuge and Spiral Q.

Gathering inspiration from the monarch butterfly, participants will build beautiful wings and artwork out of reclaimed and recycled materials, all while exploring migration patterns of the monarch butterfly.

For additional details on Monarch Migration, visit www.PhilaScienceFestival.org
COMMUNITY EVENTS

In an effort to grow and diversify the reach of science programming throughout the region, the Philadelphia Science Festival selected several community based organizations to plan science events for their own communities. These events will take place throughout the festival week, and will explore the science that is present all throughout our city.

For a full list of programs, visit www.PhilaScienceFestival.org.

PHILADELPHIA CITY NATURE CHALLENGE

Can Philadelphia find more animals than Atlanta? More plants than Prague? More fungi than Fort Collins or more slime molds than Medellin? Philly takes on cities all over the world April 26–29 for the City Nature Challenge, a competitive urban bioblitz.

Find wildlife, snap a pic, and upload it using the iNaturalist app to take part. Anywhere in Philadelphia and its neighboring counties is habitat, whether that’s a wildlife refuge or the sidewalk right outside your house.

Learn more at cncphilly.org or download the iNaturalist App.

ONLINE STORE

Can’t get enough of GETTING NERDY? Itching to strut your science-loving stuff? Browse the Philadelphia Science Festival store for all your science swag needs—and feel great about it, too!

Store proceeds support opportunities for kids and families in the Philadelphia region to experience hands-on science.

Visit www.PhilaScienceFestival.org for more information and use the code ProgramGuide2019 for a 20% discount on your order!
**TICKETS**
The majority of Festival events do not require tickets or registration. However, for those that do, there is no guarantee that tickets will be available at the door, and events that require registration or tickets often sell out or fill to capacity. Because of this, we strongly recommend advanced registration.

More than 90% of PSF events are free, and for those that aren’t, every effort is made to keep ticket prices affordable. In all cases, any fee charged covers the cost associated with producing the event.

**ACCESSIBILITY**
Every effort is made to make sure that PSF venues are wheelchair accessible. Should you need accommodations for an event (like a sign language interpreter) we are happy to help.

Please reach out to philadelphiasciencefestival@fi.edu or call our Public Events Manager, Rachel Giatras at 215.448.1397. We ask that you give us at least one week notice to provide accommodations.

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NOTES: Admission to Philadelphia Science Festival events constitutes the holder’s consent and agreement to be photographed, filmed, videotaped or otherwise recorded, and to permit the holder’s likeness, image, appearance and/or voice to be used in advertising or trade in promoting and publicizing The Franklin Institute, its affiliates and business partners.

The information included in this Program Guide is correct as of April 2, 2019. The Festival reserves the right to change events or information in the event of unforeseeable circumstances.

Event changes will be listed on the website, so please visit www.PhilaScienceFestival.org before heading out to an event.

**Join the conversation!**
Tell us your PSF stories or share your photos online! #GetNerdyPHL

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**OUR COMMITMENT**
This brochure is printed on FSC certified paper that is manufactured using biogas energy. In our steps to act sustainably, we have reduced the circulation number of this brochure.
The Philadelphia Science Festival Partner Advisory Council is composed of representatives from select partner organizations who provide support and guidance throughout the Festival planning process. They work tirelessly to provide quality STEAM engagement opportunities and ensure that the Festival is truly a collaborative initiative.

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Imagine:
No more traffic jams. Autonomous cars shorten trips and increase safety thanks to improved car-to-car connectivity. #AlwaysCurious

Temple University is proud to support our fellow researchers and innovators throughout Philadelphia.

Can we change the world?

We work for a future where every material we bring to the market is sustainable for our people and our planet.

Working alongside The Franklin Institute and Philadelphia Science Festival partners we’re asking the tough questions:

How can we advance the wellbeing of humanity and the earth? How could we do more? How could we inspire the next generation to do more?

If you have ideas, please get in touch.
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