

INFORMATION DOCUMENT

SCIENCE OLYMPIAD AT THE UNIVERSITY OF PENNSYLVANIA

PENN 2020 INVITATIONAL

FINAL VERSION - 02/20/2020

SOU^P

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Letter from Our Executive Board

Dear Coaches,

We are so glad your team is attending the fourth annual Penn Science Olympiad Invitational!

We are hard at work to make sure that this year's tournament is the best and largest one yet. Enclosed you will find details regarding your team number and room, tournament schedule and policies, hotels, food, and some information on what to do in Philadelphia during your stay if you are joining us from far away. This year we will have 57 teams competing from 11 unique states and 43 different cities.

We are super excited to host you here! Please feel free to reach out to us if you have any questions.

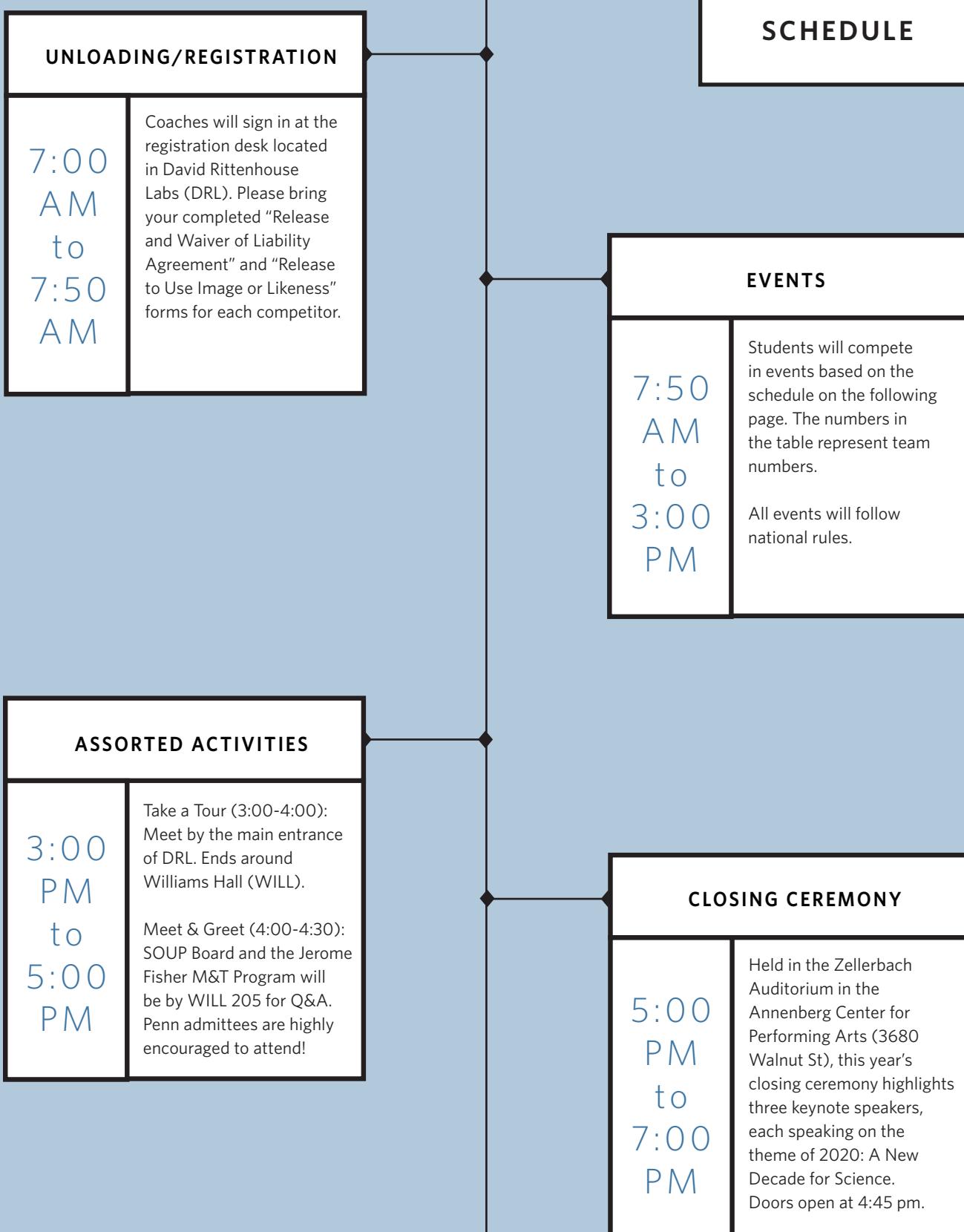
**See you in February,
SOUP Executive Board**

TEAM LIST

Team #	School	State	Room #
1	Adlai E Stevenson High School - A	IL	BENN 13
2	Adlai E Stevenson High School - B	IL	BENN 13
3	Archimedean Upper Conservatory	FL	WILL 201
4	Athens Area High School - A	PA	DRLB 3C4
5	Athens Area High School - B	PA	DRLB 3C4
6	Bayard Rustin High School - A	PA	BENN 201
7	Bayard Rustin High School - B	PA	BENN 201
8	Boca Raton Community High School - A	FL	DRLB 3C6
9	Boca Raton Community High School - B	FL	DRLB 3C6
10	Brooklyn Technical High School	NY	DRLB 4E9
11	Central Bucks High School South	PA	BENN 406
12	Chaminade High School	NY	WILL 203
13	Chattahoochee High School - A	GA	WILL 202
14	Chattahoochee High School - B	GA	WILL 202
15	Columbia High School	NY	BENN 20
16	Ed W. Clark High School - A	NY	BENN 141
17	Ed W. Clark High School - B	NV	BENN 141
18	Fairfax High School - A	NV	DRLB 2C6
19	Fairfax High School - B	VA	DRLB 2C6
20	Fayetteville-Manlius High School	VA	BENN 224
21	Garnet Valley High School	NY	BENN 16
22	Harriton High School - A	PA	DRLB 4C4
23	Harriton High School - B	PA	DRLB 4C4
24	Hillsborough High School - A	PA	DRLB 3W2
25	Hillsborough High School - B	NJ	DRLB 3W2
26	Hunter College High School	NJ	BENN 15
27	Islip High School	NY	DRLB 4C8
28	Kellenberg Memorial High School	NY	DRLB 3N6
29	Liberal Arts and Science Academy	TX	WILL 204

TEAM LIST (CONT.)

Team #	School	State	Room #
30	Lower Merion High School	PA	BENN 139
31	Merrimack High School	NH	DRLB 4N30
32	Montgomery High School - A	NJ	DRLB 3C8
33	Montgomery High School - B	NJ	DRLB 3C8
34	North Penn High School - A	PA	DRLB 3C2
35	North Penn High School - B	PA	DRLB 3C2
36	North Pocono High School - A	PA	BENN 231
37	North Pocono High School - B	PA	BENN 231
38	Parkland High School	PA	BENN 323
39	Perkiomen Valley High School	PA	BENN 25
40	Philadelphia High School for Girls	PA	DRLB 2C2
41	Princeton Day School - A	NJ	DRLB 4C6
42	Princeton Day School - B	NJ	DRLB 4C6
43	Reservoir High School	MD	BENN 29
44	Shady Side Academy - A	PA	DRLB 2C8
45	Shady Side Academy - B	PA	DRLB 2C8
46	South Brunswick High School - A	NJ	DRLB 4C2
47	South Brunswick High School - B	NJ	DRLB 4C2
48	Staten Island Technical High School	NY	DRLB 4E19
49	Strath Haven High School	PA	BENN 11
50			
51	Syosset High School	NY	BENN 222
52	The Shipley School	PA	BENN 407
53	Thomas Jefferson High School for Science and Technology	VA	BENN 24
54	Ward Melville High School - A	NY	WILL 214
55	Ward Melville High School - B	NY	WILL 215
56	West Windsor-Plainsboro High School North - A	NJ	DRLB 2C4
57	West Windsor-Plainsboro High School North - B	NJ	DRLB 2C4
58	West Windsor-Plainsboro High School South	NJ	DRLB 2N36



EVENT SCHEDULE

Event	Location	7:50-8:40	9:00-9:50	10:00-10:50	11:00-11:50	12:10-1:00	1:10-2:00	2:10-3:00	
Anatomy and Physiology	DRL A4		1-19	20-38	39-58				
Astronomy	Berger Auditorium		1-19	20-38	39-58				
Boomilever	DRL A8	Self-Schedule							
Chemistry Lab	CHEM Lab I					39-58	1-19	20-38	
Circuit Lab	Ketter Lab					20-38	39-58	1-19	
Codebusters	DRL A1		20-38	39-58	1-19				
Designer Genes	DRL A1					39-58	1-19	20-38	
Detector Building	DRL 3N15, 3N17		Self-Schedule						
Disease Detectives	DRL A1	1-58							
Dynamic Planet	DRL A4					39-58	1-19	20-38	
Experimental Design	DRL 3N12, 3N14, 3N16, 3N20, 3N22, 3N9, 3N15, 3N17, 3W11, 3W7	1-58							
Forensics	CHEM Lab II		39-58	1-19	20-38				
Fossils	CHEM 514		39-58	1-19	20-38				
Geologic Mapping	DRL A2		20-38	39-58	1-19				
Gravity Vehicle	Hall of Flags	Impound	Self-Schedule						
Machines	CHEM 102	Impound				1-19	20-38	39-58	
Ornithology	TOWNE 337					20-38	39-58	1-19	
Ping Pong Parachute	Weightman Gym	Self-Schedule							
Protein Modeling	DRL Computer Labs	Impound	Self-Schedule						
Solar Power (Trial)	CHEM B13					20-38	39-58	1-19	
Sounds of Music	CHEM 109, 119	Self-Schedule							
Water Quality	DRL 3N14, 3N12					1-19	20-38	39-58	
Write It Do It	DRL 3N16, 3N9		39-58	1-19	20-38				
Wright Stuff	Weightman Gym	Self-Schedule							

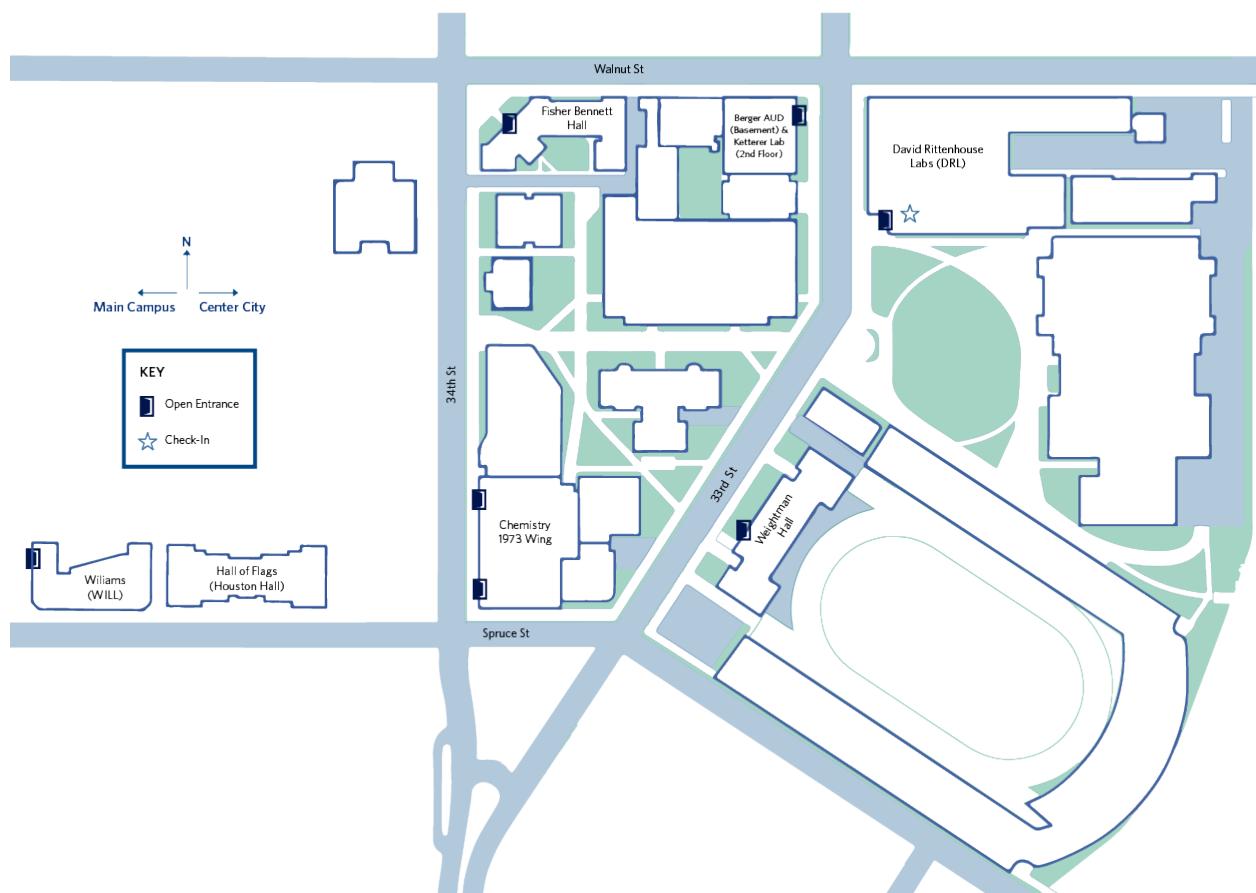
AVOGADRO REGISTRATION

This year we will be using the Avogadro Online System for all event scoring. To use Avogadro as a coach, you will first need to create an account. We have included steps for doing so below.

IMPORTANT: If you already have an account, please skip ahead to Step 8.

- 1** Go to the home page of Avogadro: <https://avogadro.ws/>.
- 2** Scroll down on the page till you find the button labeled Register/Login under the coaches heading, click on that button.
- 3** Click the Register for an Account link at the very bottom of the page.
- 4** Fill out your User Registration Information and click Register button at the bottom.
- 5** Next, you need to log into the e-mail address you provided on the form above and open the email sent to you from Avogadro Support.
- 6** Click on the Activate Account button in the middle of this email to activate your account. This will take you back to Avogadro.
- 7** Next, click on the Login button in the top right-hand corner to log into Avogadro.
- 8** Please email your team name and your username directly to pennscienceolympiad@gmail.com, and we will add you to the University of Pennsylvania Tournament.
- 9** You will receive an email in mid-January regarding self-scheduling for our building events. Self-scheduling on Avogadro opens Tuesday, January 21st at 7:00 PM EST.

CAMPUS MAP



Parking passes will be given out at the parking lot to teams who've filled out the parking form.

Parking Address:

Penn Park Parking Lot
3100 Lower Walnut St
Philadelphia, PA 19104

TOURNAMENT POLICIES

At SOUP, all our event rules follow National Science Olympiad's competition rules. Our tournament policies, as listed below, also match those of National State Science Olympiad from the website.

In all tournaments, all officials, coaches, team members and spectators are expected to abide by the rules as stated in the Official Rules Manual. Violations may include any of the following:

01

INTERFERENCE

Only the team members assigned to the event may enter the competition area along with those supervising and judging the event. All others are to remain out of the room or the competition area at all times. If any student, coach, teacher, chaperone or parent interferes with or disrupts the conduct of the event, the team associated with the person will be penalized at the discretion of the event supervisor in conjunction with the appeals board. The team, coach and the site director will be notified of this action.

02

CHEATING

Any individual who cheats during an event will be penalized by disqualification. The team and the coach will be apprised of this action. If an event team or team member deliberately takes an action that impairs the ability of another team to fairly compete, that team will be disqualified from that event. Depending on the severity of the action taken by the team members, further action by the appeals board may result that the team members are disqualified from other events. Upon reporting this action to the State Board, the team members may be barred from further tournaments.

03

VANDALISM

If a member of a team or a person associated with a team commits an act of vandalism, the team will be disqualified from the tournament. Vandalism means deliberate action that results in damage to property. This includes, but is not limited to, graffiti, damage to facility property, and damage to personal property of competitors, judges and supervisors.

HOTEL INFORMATION

As Philadelphia is the sixth largest U.S. city and a major destination for visitors, it is a good idea to get started early on hotel reservations for competition day. We have partnered with several hotels near Penn's campus for discounted rates for teams choosing to stay there—but you must contact the hotels to negotiate. Prices are subject to change. You'll find a summary of nearby hotels below and on the following page. It is typical to get even lower rates at hotels just outside of the city limits.



THE STUDY

20 S. 33rd Street (19104)

crist@studyhotels.com

Please do not call the front desk.

****Rates start from \$172 + tax (subject to change)
for attendees of SOUP ****



SHERATON UNIVERSITY

3549 Chestnut Street (19104)

*Lauren Ilgenfritz, Sales Manager,
ilgenfritz@sheruniv.com
215-349-6315*

****Rates start from \$147 using this link:**

<https://www.marriott.com/hotels/travel/phlus-sheraton-philadelphia-university-city-hotel/>



THE INN AT PENN

3600 Sansom Street (19104)

*Kaitlyn Devlin, Sales Manager,
kaitlyn.devlin@hilton.com
215-823-6202*

****Rates start from \$204/room using this link:**

<https://www.theinnatpenn.com/#>

HOTEL INFORMATION (CONT.)

HOMEWOOD SUITES UNIVERSITY CITY

4109 Walnut Street (19104)

*Felicia Brown,
felicia.brown@hhmlp.com
267-298-2289*

****Rates of \$159/night for King One-Bedroom using this link:**

<http://homewoodsuites.hilton.com/en/hw/groups/personalized/P/PHLUPHW-SOP-20200221/index.html>

Group Name: Penn Science Olympiad | Code: SOP
Check-In: Feb. 21 | Check-Out: Feb. 23



POD PHILLY

31 S. 19th Street (19104)

*Sasha Bharrat, Director of Sales,
sbharrat@podhotelphilly.com
267-930-5605*

****Rates start from \$155****



RESTAURAUNTS AROUND UNIVERSITY CITY

Below you will find an extensive list of where to eat in and around campus (University City). If you are staying in Center City and are looking for off-campus recommendations, please reach out to us at pennscienceolympiad@gmail.com.

Quick Breakfast (Coffee, Donuts & Bagels)

Spread Bagelry (3602 Chestnut St)
Federal Doughnuts (3428 Sansom St)
Beiler's Donuts (3900 Chestnut St)
Dunkin Doughnuts (3437 Walnut St)
United By Blue (3421 Walnut St)
Starbucks (3401 Walnut St)
Avril 50 (3406 Sansom St)

Sit-Down Breakfast

Greek Lady (222 40th St)
Sabrina's Cafe (227 34th St)



Chinese

Han Dynasty (3711 Market St)
Beijing (3714 Spruce St)
Sangkee Noodle House (3549 Chestnut St)

Japanese

Ochatto (3608 Chestnut St)
Pod (3636 Sansom St)
Terawaka (125 S 40th St)

Korean

U-Town (110 40th St)
Koreana (3801 Chestnut St)

Bubble Tea

Tea-Do (3900 Sansom St)
Tsaocaa (3737 Chestnut St)
Kung-Fu Tea (13 N 32nd St)
Winterfell (32 S 40th St)

Food Courts

Houston Hall (3417 Spruce St)

- The Market Café
- Ginger Mongolian Grill,
- Ivy Leaf
- 34th Street Carvery
- HM Street Cart
- Houston Grill
- Bento Ramen and Sushi
- Pi Pizza

Franklin's Table (3401 Walnut St)

- DK Sushi
- Goldie
- High Street Provisions
- Juice Merchant
- KQ Burger
- Little Baby's Ice Cream
- Pitruco Pizza

Indian

Sitar Indian Restaurant (60 38th St)
New Dehli (4004 Chestnut St)
Ekta Indian Cuisine (106 40th St)

Thai

Thai Singha House (3906 Chestnut St)
Pattaya Thai (4006 Chestnut St)

Mexican

Chipotle (3400 Lancaster Ave)
Chipotle (3925 Walnut St)
Wahoo's (3180 Chestnut St)
Frontera (3601 Locust Walk)
Qdoba (230 40th St)

Mediterranean

Greek Lady (222 40th St)
Yiro Yiro (125 40th St)
The Halal Guys (3840 Chestnut St)

RESTAURAUNTS (CONT.)

Quick Lunch (Salad, Sandwiches, Soup & Stirfry)

Honeygrow (3731 Walnut St)
Così (140 36th St)
Sweetgreen (3925 Walnut St)
Wawa (3744 Spruce St)
Wawa (3604 Chestnut St)
Wawa (3300 Market St)
Gia Pronto (3716 Spruce St)
Just Salad (3728 Spruce St)

Italian

Zavino (3200 Chestnut St)
Blaze Pizza (3400 Lancaster Ave)
&Pizza (3925 Walnut St)
Allegro's (3942 Spruce St)
Zesto's (125 40th St)
Pizza Hut (33 40th St)



Vegan

HipCityVeg (214 40th St)

Ice Cream & Frozen Yogurt

Ben and Jerry's (218 40th St)
Kiwi Frozen Yogurt (3606 Chestnut St)



Philadelphia's Cheesteaks

Abner's Cheesesteaks (3813 Chestnut St)
Steve's Prince of Steaks (3836 Chestnut St)

BBQ & Burgers

Baby Blues BBQ (3402 Sansom St)
Shake Shack (3200 Chestnut St)

New American

New Deck Tavern (3408 Sansom St)
Bernie's Restaurant & Bar (3432 Sansom St)
White Dog Cafe (3420 Sansom St)

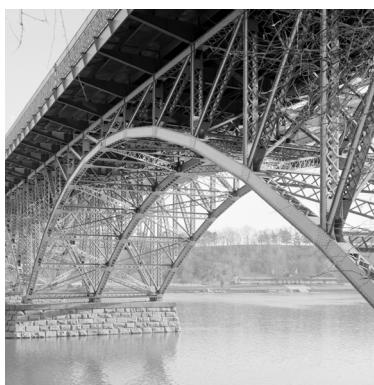
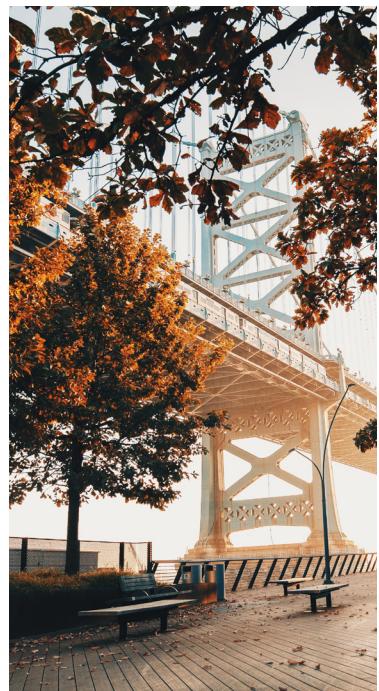
Fried Chicken

Chick-fil-A (203 34th St)
Bonchon (3840 Chestnut St)
Pelicana Chicken (4002 Spruce St)





AROUND PHILADELPHIA



While you are here, we encourage you to go explore the city.

Philadelphia is home to both great historical and pop culture sites and offers plenty to do. Cross the Schuylkill River to see the Philadelphia Museum of Art and run up the famous Rocky Steps. Check out the City Hall and Logan Square area, and grab some food from Reading Terminal Market. Head down to Old City to see the Liberty Bell, the oldest continuously inhabited street in America, and enjoy a scoop of ice cream at Franklin's Fountain or some candy from Shane's Confectionary.

If you have any questions regarding planning things to do in Philadelphia, please feel free to reach out to us at pennscienceolympiad@gmail.com.



PHILADELPHIA MUSEUM OF ART & THE ROCKY STEPS

2600 Benjamin Franklin Parkway

Visit one of the top-visited art museums in the world. Don't forget to run up the Rocky Steps!



MUSEUM OF THE AMERICAN REVOLUTION

101 3rd Street

Journey through Alexander Hamilton's Philadelphia.



BARNES FOUNDATION

2025 Benjamin Franklin Parkway

Come see the largest collection of impressionist and postimpressionist artwork outside of the Louvre.



MUTTER MUSEUM

19 22nd Street

Witness an extensive collection of medical specimens and tools.



FRANKLIN INSTITUTE

101 3rd St

Walk through a heart at Philadelphia's acclaimed science museum.



CITY HALL & DILWORTH PARK

115th Street

Ice skate or stroll through the Winter Garden in front of beautiful City Hall.



READING TERMINAL MARKET

51 12th Street

Come hungry and leave happy to one of America's largest and oldest public markets.



INDEPENDENCE HALL

520 Chestnut Street

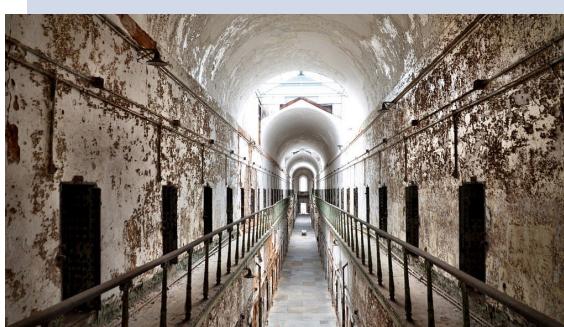
Go see the Liberty Bell at the place of our nation's founding.



MAGIC GARDENS

1020 South Street

Stroll around mosaic-visionary Isaiah Zagar's largest work.



EASTERN STATE PENITENTIARY

2027 Fairmount Avenue

Tour one of the most famous and expensive prisons in the world.

CONTACT INFORMATION

If you have any questions or concerns, please do not hesitate to reach out to us.

Website: <http://pennscienceolympiad.org>

Email: pennscienceolympiad@gmail.com

Facebook: <https://www.facebook.com/ScienceOlympiadatPenn/>

Instagram: <https://instagram.com/ScienceOlympiadatPenn/>

Twitter: <https://twitter.com/pennscioly/>

SciOly.org forum: <https://scioyl.org/forums/viewtopic.php?f=294&t=14451/>

Live-Tournament Updates: <http://pennscienceolympiad.org/updates/>

Announcements:

- Self-scheduling on Avogadro closes on February 12, 2020 at 7:00 pm Eastern.
- Please bring the two waivers for each participant on the tournament date. They will be collected during registration.
- Experimental Design: We will be using the national rubric posted in the rules packet.
- Protein Modeling: The on-site JMOL exploration is designed to allow students to apply their knowledge of protein characteristics and the APOBEC cytidine deaminase family. Aside from the basic JMOL commands, students will be tested on their ability to strategically visualize proteins using JMOL to describe and analyze the structure of classic, well studied proteins such as (but not necessarily including) myosin and F0-F1 ATPase to answer questions about the function of various structural motifs within the proteins.
- Ping Pong Parachute and Wright Stuff will be held in Weightman Gym, and the height measurements are listed below. Please forward this information to your students who are competing in those events.

Weightman Gym:

- From the ground to the ceiling- 36' 7 13/32"
- From the ground to the beam-20' 9 1/4"
- From the beam to the ceiling- 15' 10 5/32"



2020