

Science, Mathematics And Research Training

K12 High School Science Education Outreach
<http://ultracold.uchicago.edu/SMART2023>

Gordon Center for Integrative Science (GCIS)
929 E. 57th ST
Chicago, IL 60637

Number of Students: 15

Date: July 13- July 18, 2023

Organizers: Henry Ando: (217) 979-7845, hando@uchicago.edu
Maria Jimenez: (773) 702-9971, mdjimene@uchicago.edu
Eileen Sheu: (773) 834-9916, esheu@uchicago.edu
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Cheng Chin: (773) 702-7192, cchin@uchicago.edu

<u>Thursday, July 13</u>	<u>Lecture + Experiment</u>	<u>Location</u>
9:45 am	Arrival and Breakfast (Everyone)	5720 S. Ellis Ave. KPTC 213
10:00 - 10:50 am	Magnetic Fields and Superconductivity (Jon, Henry)	KPTC 213
11:00 - 11:50 am	Projectile Motion and Cannons (Henry, Jon)	KPTC 213
11:50 - 12:30 pm	Lunch (Everyone)	KPTC 206
12:30 - 1:00 pm	Chin Lab Tour (Shu)	GCIS ESB11
1:00 - 1:30 pm	DeMille Lab Tour (Mohit)	GCIS ESB41
1:30 - 4:00 pm	Making Craters (Mark Chantell, Mohit, Shu)	KPTC 213
4:00 pm:	Departure	5720 S. Ellis Ave.

<u>Friday, July 14</u>	<u>Argonne National Lab and Liquid Nitrogen Demo</u>	<u>Location</u>
8 am	Bus to Argonne National Lab (Jay, Henry, Sarah)	929 E. 57 th Street GCIS E123
9 am - 12 pm	Argonne National Lab Tour Contact: Jeremy Gill jgill@anl.gov , Mobile: (773) 517-3218	
1 pm	Returning Hyde Park and Lunch (Everyone)	KPTC 206
1:30 pm	Liquid Nitrogen Demos Organizers: Justin Jureller, Sarah Brown, and Christin Ahn (Sarah and Shaozhen help)	KPTC 213

4:00 pm Departure 5720 S. Ellis Ave.

Saturday, July 15

Astro day - Observatory Tour

Location

Organizer: Athena Frost

(Marie, Nick, Shu)

1:00 pm	Meet at U of C (Gordon Center)	929 E. 57 th Street
1:45 pm	Arrive at Adler Planetarium	Adler Museum
4:00 pm	Dinner outside Adler Planetarium	
6:00 pm	Architecture Boat Tour	Chicago River
8:00 pm	Arrive Northwestern Observatory	Evanston, IL
9:30 pm	Star Gazing	Evanston, IL
10:30 pm	Return to Hyde Park	929 E. 57 th Street

Monday, July 17

Demos and 3D Printing

Location

9:45 am	Arrival and Breakfast	5720 S. Ellis Ave.
	(Everyone)	KPTC 206
10:00 - 10:50 am	Nitinol: the memory metal	KPTC 213
	(Evan, Cheng)	
11:00 - 11:50 am	Demonstrations	KPTC 213
	(Evan, Cheng)	
11:50 - 12:30 pm	Lunch	KPTC 206
	(Everyone)	
1 pm - 4 pm	Introduction to 3D Printing and 3D Pens	KPTC 213
	Organizers: Justin Jureller, Sarah Brown, and Christin Ahn	
	(Sarah, Shaozhen)	

Tuesday, July 18

Solar Cars, Lab Tours, DNA, and BBQ

Location

9:45 am	Arrival and Breakfast	5720 S. Ellis Ave
	(Geyue, Eva)	KPTC 213
10:00 am	Solar Car Building and Competition	KPTC 206 Balcony
	(Geyue, Eva)	
12:00 pm	Lunch with REU Students	KPTC 206
	(Everyone)	
12:45 pm	Jaeger Lab	KPTC 213 & GCIS E131
	(Ted Esposito, Jay)	
1:15 pm	Engel Lab	
	(Greg Engel, Jay)	
1:45 pm	Bernien Lab	ERC Basement
	(Shraddha Anand, Jay)	
2:15 pm	DNA Extraction Activity	KPTC 213
	(Prof. Cassandra Hayne, Jay, Henry)	
3:15 - 5:00 pm	BBQ Party	KPTC 206 and balcony
	(Nick, everyone and parents are welcome)	