

**Science, Mathematics And Research Training+**  
*K12 High School Science Education Outreach”*  
<http://ultracold.uchicago.edu/SMART2013>

Number of students: 10~15

**Date: 6/27~7/2/2013**

Organizer contact: Cheng Chin: 773 702 7192, [cchin@uchicago](mailto:cchin@uchicago)  
 Eileen Sheu: 773 834 9916, [e-sheu@uchicago](mailto:e-sheu@uchicago)  
 Athena Frost: 773-916-7803, [frost.athena@gmail.com](mailto:frost.athena@gmail.com)  
 Eric Hazlett: 773-702-1218, [elhazlett@gmail.com](mailto:elhazlett@gmail.com)

Agenda:

<b>Thursday, 6/27/2013</b>	<b>Lecture + Experiment:</b>	<b>Location</b>
9:45 am:	Arrival and breakfast	5720 S. Ellis Ave.
10:00 ~ 10:50 am:	<i>Different forms of energy</i> (Eric Hazlett and Dylan Banahene-Sabulsky)	KPTC 213
11:00 ~ 11:50 am:	<i>Energy conversion and conservation</i> (Eric Hazlett and Dylan Banahene-Sabulsky)	KPTC 213
11:50 ~ 12:20 pm:	Lunch	KPTC 213
12:20 ~ 1:00 pm:	Chin group lab tour (Harry Ha and Jacob Johansen)	ESB 11
1:00 ~ 4:00 pm:	Experiment: A bright idea ( <b>Van Bistrow</b> ) (Dylan Banahene-Sabulsky and Jay Felden)	KPTC 208
4:00 pm:	Departure	5720 S. Ellis Ave.
<b>Friday, 6/28</b>	<b>Soft Robotics Lectures + Experiments:</b>	<b>Location</b>
	<b>(Justin Jureller and Meghan Vincent)</b> <b>(Harry Ha and Jacob Johansen)</b>	
9:45 am:	Arrival/breakfast	KPTC 213
10:00 am:	Intro to Electron Microscopy lecture (Justin Jureller)	KPTC 213
10:45 am	Intro to Granular Materials lecture (Meghan Vincent)	KPTC 213
11:30 am	Walking tour of campus	
12:15 pm	lunch	KPTC 213
1:00 pm	One group for SEM imaging One group for granular exps	GCIS ESB43 KPTC 213
2:15 pm	Group switch	
3:30 pm	Reconvene in KPTC 213 and discussion	KPTC 213
4:00 pm:	Departure	5720 S. Ellis Ave.
<b>Saturday, 6/29</b>	<b>Observatory Tour (Athena Frost)</b>	<b>Location</b>
	<b>(Karina Jiménez García and Neil Vladimir Corzo-Trejo)</b>	
1 pm	Meet at U of C	5720 S. Ellis Ave.
1:45 pm	Arrive at Adler planetarium	Adler

5 pm	Dinner in front of Adler	
6 pm	Leave Adler	
6:45 pm	Ryerson Astronomical Society	Ryerson
7 pm	Supermassive black holes inquiry lesson	
8:30 pm	Star gazing	
10:00 pm	Hyde Park (inform parents the schedule)	5720 S. Ellis Ave.

<b>Monday, 7/1</b>	<b>Lab demo. + ANL Tour</b>	<b>Location</b>
9:45 am:	Arrival and breakfast	5720 S. Ellis Ave.
10:00 ~ 10:50 am:	Experiment and demonstration (I) <b>(Karina Jiménez García, Eric Hazlett, Skyler Degenkolb)</b>	
11:00 ~ 11:50 am:	Experiment and demonstration (II) <b>(Karina Jiménez García, Eric, Hazlett, Skyler Degenkolb)</b>	
11:50 ~ 12:30 pm:	Lunch	KPTC 213
12:30 pm:	Bus to Argonne National Lab <b>(Logan Clark and Jay Feldman)</b>	5720 S. Ellis Ave.
1:30 ~ 4:00 pm:	Argonne tour <b>(Contact: Patricia Canaday (630) 252-5562)</b>	Argonne
4:00 pm:	Back to Hyde Park	
5:00 pm	Departure	5720 S. Ellis Ave.

<b>Tuesday, 7/2</b>	<b>Experiment + Lab tours + BBQ</b>	<b>Location</b>
9:45 pm:	Arrival and breakfast	KPTC 213
10:00 am:	Experiment <b>(Jonathan Simon)</b> <b>(Dylan Banahene-Sabulsky and Skyler Degenkolb)</b>	KPTC 213
12:00 pm:	Lunch	KPTC 213
1 pm:	Lab tour 1 <b>(Greg Engel group)</b> <b>(Contact person: )</b>	KPTC 213
2 pm:	Lab tour 2 <b>(William Irvine group)</b> <b>(Contact person: )</b>	
3 ~ 5 pm:	BBQ party <b>(Harry Ha and Eric Hazlett, everybody and parents are welcome.)</b>	KPTC 206 and balcony