

Science, Mathematics And Research Training+

“K12 High School Science Education Outreach”

<http://ultracold.uchicago.edu/SMART2015>

Kersten Physics Teaching Center (KPTC)

5720 South Ellis Avenue

Chicago, IL 60637

Number of Students: 15

Date: July 16-21, 2015

Organizer Contact: Cheng Chin: (773) 702-7192, cchin@uchicago.edu
Eileen Sheu: (773) 834-9916, esheu@uchicago.edu
Athena Frost: (773) 916-7803, frost.athena@gmail.com

Agenda:

Thursday, July 16

| | <u>Lecture + Experiment</u> | <u>Location</u> |
|-------------------|---|------------------------|
| 9:45 am: | Arrival and Breakfast | KPTC 206 |
| 10:00 ~ 10:50 am: | <i>Topic 1: Light and Matter</i> (Lei Feng and Nicholas Kowalski) | KPTC 213 |
| 11:00 ~ 11:50 am: | <i>Topic 2: Interpreting the Sky</i> (Lei Feng and Nicholas Kowalski) | KPTC 213 |
| 11:50 ~ 12:20 pm: | Lunch | KPTC 206 |
| 12:20 ~ 1:00 pm: | Chin Group Lab Tour (Harry Ha and Gustaf Downs) | ESB 11 |
| 1:00 ~ 4:00 pm: | <i>Solar Spectroscopy</i> (Mark Chantell) (Assistants: Lei Feng and Nicholas Kowalski) | KPTC 208 |
| 4:00 pm: | Departure | 5720 S. Ellis Avenue |

Friday, July 17

| | <u>High Speed Imaging and 3D Printing</u> (Justin Jureller and Radha Ramachdran) (Assistants: Tyler Johnson and Frankie Fung) | <u>Location</u> |
|-----------|--|------------------------|
| 9:45 am: | Arrival and Breakfast | KPTC 206 |
| 10:00 am: | Introduction to 3D Printing | KPTC 213 |
| 11:30 am | Introduction to High Speed Imaging | |
| 12:15 pm | Lunch (Assistants: Tyler Johnson and Frankie Fung) | KPTC 206 |
| 1:00 pm | High Speed Imaging and 3D Printing | KPTC 213 |
| 4:00 pm: | Departure | 5720 S. Ellis Avenue |

Saturday, July 18

Observatory Tour (Athena Frost)
(Assistants: Jacob Johansen and April)

Location

| | | |
|----------|--|--------------------------------|
| 1 pm | Meet at U of C (Gordon Center) | 929 E. 57 th Street |
| 1:45 pm | Arrive at Adler Planetarium | Adler |
| 5 pm | Dinner in front of Adler | |
| 6 pm | Leave Adler | |
| 8 pm | Yerkes Observatory | Williams Bay, WI |
| 8:30 pm | Star Gazing | |
| 12:00 am | Arrive U of C (Gordon Center) (Inform Parents the Schedule) | 929 E. 57 th Street |

Monday, 7/20

Lab Demo. + Argonne National Lab Tour

Location

| | | |
|-------------------|--|------------------------------------|
| 9:45 am: | Arrival and Breakfast | KPTC 206 |
| 10:00 ~ 10:50 am: | Experiment and Demonstration (I) (Skyler Degenkolb, Jonathan Trisnadi) | |
| 11:00 ~ 11:50 am: | Experiment and Demonstration (II) (Skyler Degenkolb, Jonathan Trisnadi) | |
| 11:50 ~ 12:30 pm: | Lunch with Bryan Wiggins | KPTC 206 |
| 12:45 pm: | Bus to Argonne National Laboratory (Rajan Arggawal) | 5720 S. Ellis Avenue |
| 1:45 ~ 4:45 pm: | Argonne National Laboratory Tour (Argonne contact person: Pat Canaday 630-252-5562) | Argonne National Lab Lemont, IL |
| 4:45 pm: | Departure | |
| 5:45 pm: | Arriving Hyde Park | 5720 S. Ellis Avenue |

Tuesday, 7/21

Experiment + Lab Tours + BBQ

Location

| | | |
|-----------|--|----------------------|
| 9:45 pm: | Arrival and Breakfast | KPTC 206 |
| 10:00 am: | Holography Experiment (Jonathan Simon) (Frankie Fung and Tyler Johnson) | KPTC 213 |
| 12:00 pm: | Lunch with REU students | KPTC 206 |
| 1 pm: | Lab tour 1: Moria Flanagan (Engel group) | ESB 36 |
| 2 pm: | Lab tour 2: Andrzej Latka (Nagel group) | ESB 36 |
| 3 ~ 5 pm: | BBQ Party (Everybody and parents are welcome.) | KPTC 206 and Balcony |