

Science, Mathematics And Research Training+

“K12 High School Science Education Outreach”

<http://ultracold.uchicago.edu/SMART2016>

Kersten Physics Teaching Center (KPTC)

5720 South Ellis Avenue

Chicago, IL 60637

Number of Students: 10

Date: July 7-12, 2016

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Agenda:

Thursday, July 7

| | <u>Lecture + Experiment</u> | <u>Location</u> |
|------------------|---|------------------------|
| 9:45 am | Arrival and Breakfast | KPTC 206 |
| 10:00 am | Holography Experiment (Jonathan Simon) (Lei Feng , Misha Usatyuk) | KPTC 213 |
| 11:50 - 12:20 pm | Lunch with REU students | KPTC 206 |
| 12:20 - 1:00 pm | Chin Group Lab Tour (Jonathan Trisdani and Lei Feng) | ESB 11 |
| 1:00 - 4:00 pm: | A Bright Idea (Van Bistrow) (Assistants: Jonathan Trisdani and Misha Usatyuk) | KPTC 216 |
| 4:00 pm: | Departure | 5720 S. Ellis Avenue |

Friday, July 8

| | <u>High Speed Imaging and 3D Printing</u> | <u>Location</u> |
|----------|---|------------------------|
| | (Justin Jureller and Radha Ramachdran) (Assistants: Frankie Fung , Marissa Montoya and Krutik Patel) | |
| 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: Frankie Fung , Marissa Montoya and Krutik Patel) | KPTC 206 |
| 1:00 pm | High Speed Imaging and 3D Printing | KPTC 213 |
| 4:00 pm | Departure | 5720 S. Ellis Avenue |

Saturday, July 9

Observatory Tour (Athena Frost)

Location

(Assistants: Krutik Patel, Jonathan Trisnadi, Marissa Montoya, Kuan-wen Chen, Tongtong Liu)

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

Monday, 7/11

Lab Demo. + Argonne National Lab Tour

Location

| | | |
|------------------|--|------------------------------------|
| 9:45 am | Arrival and Breakfast | KPTC 206 |
| 10:00 - 10:50 am | Experiment and Demonstration (I) (Van Bistrow, Jonathan Trisnadi, Misha Usatyuk) | |
| 11:00 - 11:50 am | Experiment and Demonstration (II) (Van Bistrow, Jonathan Trisnadi, Misha Usatyuk) | |
| 11:50 - 12:30 pm | Lunch with REU Students | KPTC 206 |
| 12:45 pm | Bus to Argonne National Laboratory (Brian DeSalvo, Krutik Patel) | 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, 7/12

Lectures + Lab Tours + BBQ

Location

| | | |
|------------------|---|----------------------|
| 9:45 pm | Arrival and Breakfast | KPTC 206 |
| 10:00 - 10:50 am | <i>Topic 1: Light and Matter</i> (Brian DeSalvo and Logan Clark) | KPTC 213 |
| 11:00 - 11:50 am | <i>Topic 2: Interpreting the Sky</i> (Brian DeSalvo and Logan Clark) | KPTC 213 |
| 12:00 pm | Lunch with REU students | KPTC 206 |
| 1:00 pm | Engel Lab 2-6066 (Sarah Zinn, John Otto, Richard Mazuski) | E032 |
| 1:45 pm | Schuster Lab 2-7191 (David Schuster) | GCIS E131 |
| 2:30 pm | Irvine Lab 2-0413 (Noah Mitchell) | GCIS E028 |
| 3:15 - 5:00 pm | BBQ Party (Brian DeSalvo, everyone and parents are welcome.) | KPTC 206 and Balcony |