



SCHEDULE OF EVENTS

9:00AM REGISTRATION & BREAKFAST, Room 103

10:00AM KEYNOTE SPEAKER: PROF. CLAIRE WHITE, Maeder Hall Auditorium

10:30AM-3:00PM ENERGY WORKSHOPS, Maeder Hall Auditorium & Lobby

11:00AM-12:45PM PRESENTATIONS JUDGING, Room 102

10:30AM School of Engineering & Applied Sciences, Andlinger Center TOUR*

10:45AM Form Finding Lab: Rammed Earth in Forbes Garden TOUR*

11:30AM C.H.A.O.S. Lab: Solar Picnic Bench and ThermoHelioDome TOUR*

12:00PM LUNCH, Room 103

12:30-1:30PM ELECTROPLATING DEMONSTRATION, Maeder Hall Lobby 1st Floor

1:00PM-2:30PM PRESENTATIONS JUDGING, Room 102

1:00PM School of Engineering & Applied Sciences and Andlinger Center TOUR*

1:15PM Form Finding Lab: Rammed Earth in Forbes Garden TOUR*

2:00PM Campus Green TOUR*

3:00PM AWARDS CEREMONY, Maeder Hall Auditorium

**All TOURS meet in Room 103, depart 5 min after the time listed, and run for ~45 min*



EVENT DESCRIPTIONS

C.H.A.O.S. Lab TOUR [ERIC TEITELBAUM '14, Graduate Student]

Solar Picnic Table



Built in Spring 2016, the picnic table contains a lightweight 100W panel that tracks the sun while simultaneously shading the area for laptop work. In addition, there is a system for battery storage, charge controlling, and data streaming and web interactivity. [sustain.princeton.edu]

ThermoHelioDome



Comprised of 9 parts robotically cut foam, 2 parts gorilla glue, 1 part mylar, and many parts thermodynamic theorizing, CHAOS Lab presented their foray in indirect evaporative radiant cooling on September 1, 2014. The ThermoHelioDome combines a cooling tower and spherical and conical geometries to focus the effects of evaporative cooling on the interior of the spherical dome shape by focusing the radiation from the cooled bulbs on occupants. [chaos.princeton.edu]

Form Finding Lab: Rammed Earth in Forbes Garden TOUR [Amber Lin '19]



Learn about rammed earth in an Energy Workshop, and then take a tour to the rammed earth spiral (10 feet at its highest point)! What is rammed earth and why is it a sustainable and energy efficient building material? Why isn't earth building more prevalent in seasonal climates? Why did we build this thing? [formfindinglab.wordpress.com]

Campus Green TOUR [DAN STURM '19]

The Office of Sustainability offers year-round campus Green Tours that highlight features ranging from an organic kitchen garden to a green roof. Each stop demonstrates the University's progress toward reaching its sustainability goals. [sustain.princeton.edu]

School of Engineering & Applied Sciences, Andlinger Center for Energy & the Environment TOUR [DANIEL STANLEY '18 & FITSUM PETROS '18]

Guided engineering tours during the academic year are offered by members of the Tau Beta Pi engineering honor society, who are juniors and seniors who are able to describe their experiences as engineering students at Princeton while providing an overview of the academic programs and facilities. [www.princeton.edu/engineering]

Electroplating Demonstration [ANDREW KIM & ABHI RAJ, Graduate Students]

Come at anytime to take home your very own electroplated coin! Learn how to plate copper onto nickel coins, a demonstration of "what batteries do, but backwards." PhD candidate Andrew Kim will also talk about his research on energy storage (metallurgical process efficiency; low cost long cycle life batteries; discrete power electronics; printed, flexible, stretchable batteries; in situ electrochemistry; power - energy control circuits and hybrid design).