

June 15th, 2016

Capturing Plants in Action: Day 1

8:15-9:00 AM: Breakfast (Upper Atrium)

9:15-9:45 AM: Welcome (Theater)

10:00-11:45 AM: Introduction and the plan for the workshop!

- 1) Why study plants?
- 2) Do plants move?
- 3) Why study plants over time?
- 4) How do we study plants at night?
- 5) Solder Safety: Learn to solder: To build the night imager (link above) we need to learn to solder. We will do so with a Rocket pin!

12:00-12:30 PM: Lunch (Upper Atrium)

12:45-2:00 PM

- 6) Activity: Soldering! (Introduction to Minecraft programming, while you wait to solder)

June 16th, 2016

Capturing Plants in Action: Day 2

8:15-9:00 AM: Breakfast (Upper Atrium)

9:15-11:45 AM: Raspberry Pi Imaging

- 1) Introduction to Raspberry Pi computers?
- 2) Take some pictures with the Raspberry Pi and Camera Module
- 3) Decorate frames for your favorite plant image

12:00-12:30 PM Lunch (Upper Atrium)

12:45-2:00 PM: Take a Time Lapse Movie!

- 4) Set up for timelapse imaging of our plants
- 5) How Kerri became a scientist
- 6) How Mindy became a scientist

June 17th, 2016

Capturing Plants in Action: Day 3

8:15-9:00 AM: Breakfast (Upper Atrium)

9:15-11:45 AM: Raspberry Pi Imaging

- 1) Assemble your timelapse images into movies
- 2) Frame up pictures
- 3) More Minecraft Programming

12:00-12:30 PM Lunch (Upper Atrium)

12:45-2:00 PM: Scavenger Hunt Tour

2:00-3:00 PM: Clean up!

3:00-3:30 PM: Snack

3:30 PM: Closing Ceremony