

M3D5: Solar Cell Testing

12/02/2014

Plans for today:

1. Lab



Last lab day !!

2. Atissa here to talk presentations w/ partners
3. Teams Purple, Red, Orange, Pink go to Belcher lab
4. Teams Blue, Yellow, Green go to Belcher lab
5. Work with your co-PI(s) to develop your proposal.

Upcoming deadlines:

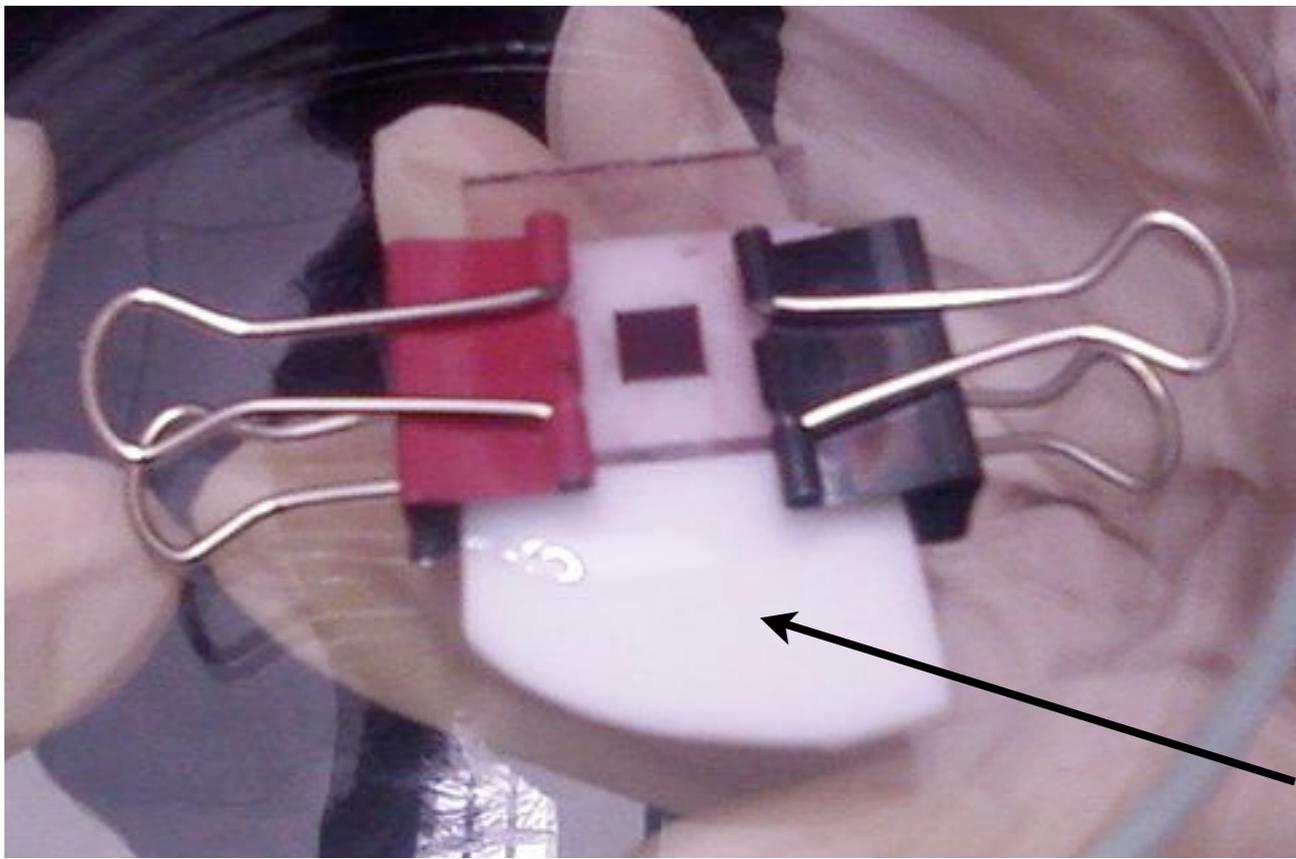
1. **Mod3 mini-report** due at end of M3D6 (12/4, 5pm)
See wiki for suggestions — there is a rubric and page limit suggestions
2. **Mod3 notebooks** due on 12/4
3. **Research proposals** due on 12/9 at 1pm (to stellar)
Presentations in one week!
12 min max — more from Atissa today
4. **Final blog posts** due on 12/11 at 5pm
5. **PARTY!** (and feedback session) on 12/11 at 11am

How we will do it:

1. Add Surllyn®

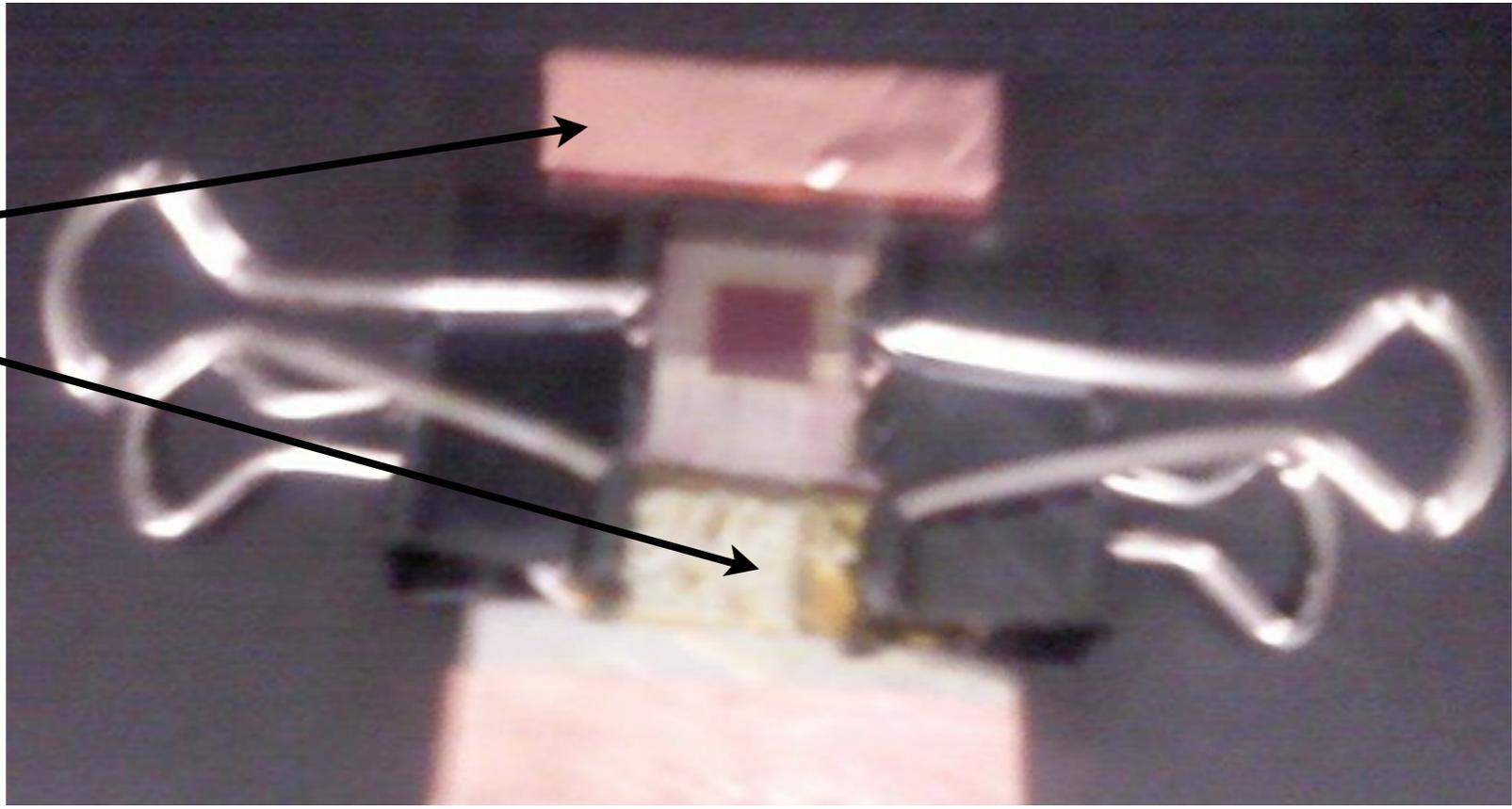


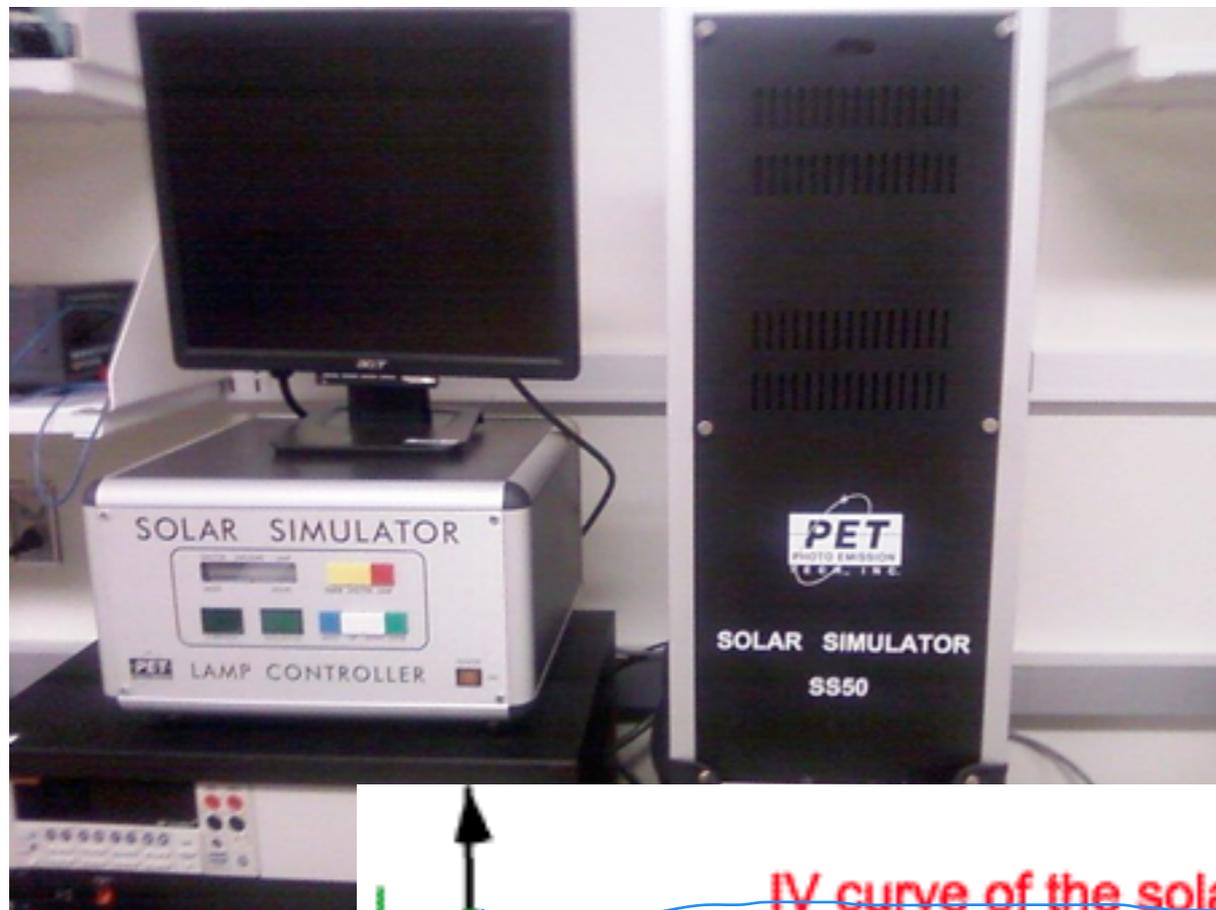
www.plasticstoday.com



2. Sandwich with teflon and bake.

3. Add copper tape, add dye with iodide redox mediator, and assemble.

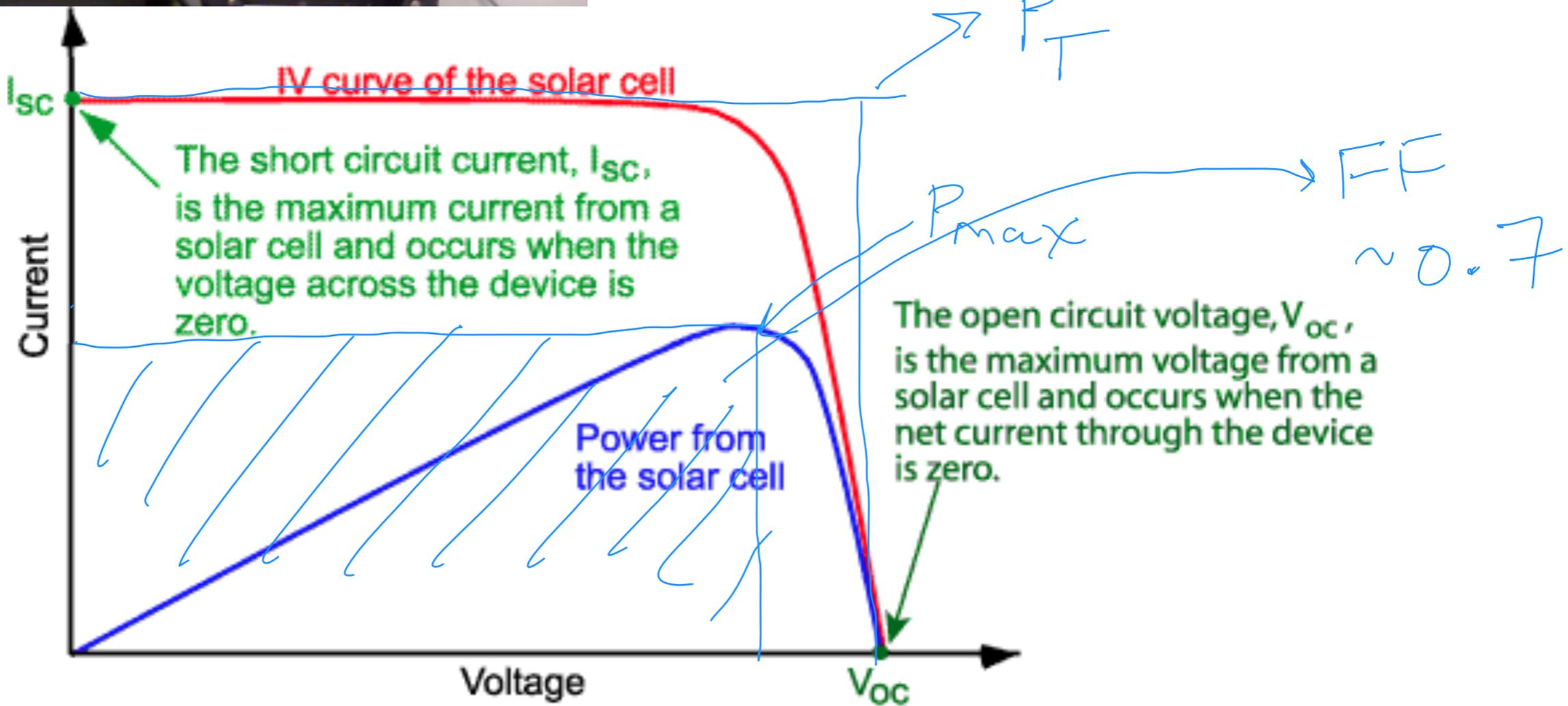




Measure the area of your solar cell (in cm)!

$$P_{\max} = V_{oc} I_{sc} FF$$

$$\text{Efficiency} = P_{\max} / P_{in}$$



Post your data on the wiki Talk page for M3D5!