M3D4(5): Solar Cell Testing

4/30/15

Plans for today:

1. Teams Purple, Orange, Green go to Belcher lab

2. ~2:30pm Blue and Yellow go to Belcher lab

3. Before & After: work with your co-PI(s) to develop your proposal.

Upcoming office hours:

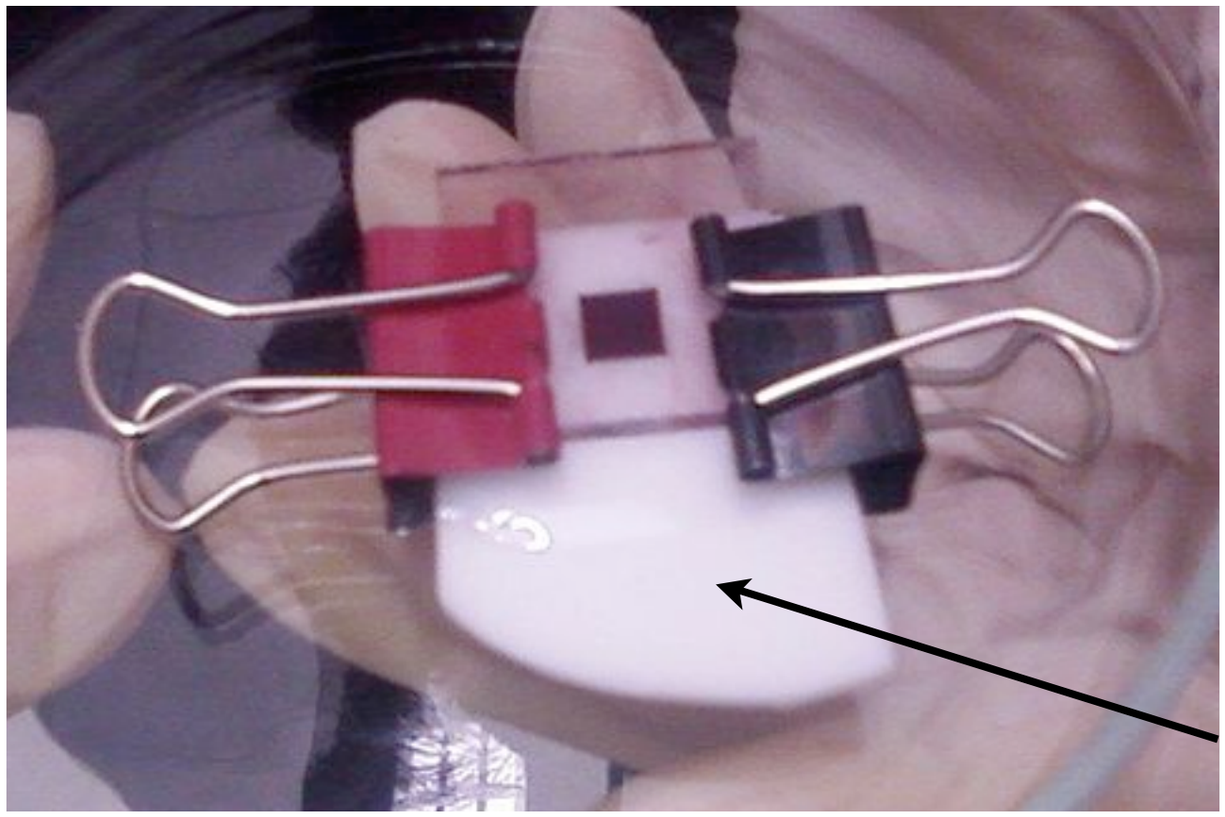
* Friday 2-4:30pm (5/1)
* Monday 3-5 pm (5/4)
* Skype → Sat afternoon
  → Sun morning
  (email me Friday)
* Monday 2-5pm (5/11)

Upcoming deadlines:

LOW STRESS

1. **Mod3 mini-report** due at end of M3D6 (5/7, 5pm)
2. **Mod3 notebooks** due on 5/8 at 5pm
3. **Research proposals** due on 5/12 at 1pm (to stellar)
   12 min max — more from Atissa next Thurs (5/7).
4. **Final blog posts** due on 5/13 at 5pm — 4 required, 3 more possible
5. **PARTY!** (and feedback session) on 5/14 at 11am

How we will do it:

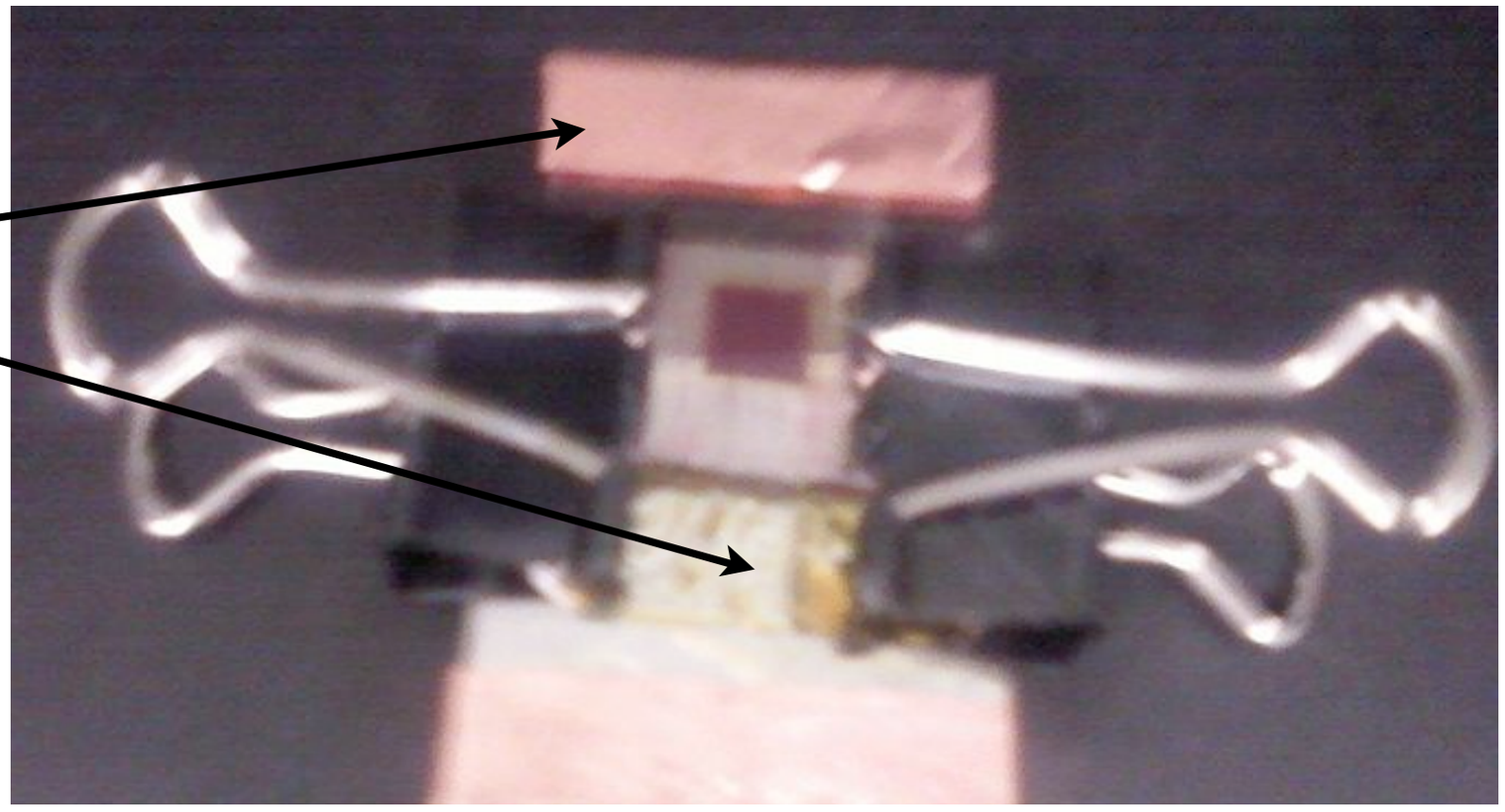


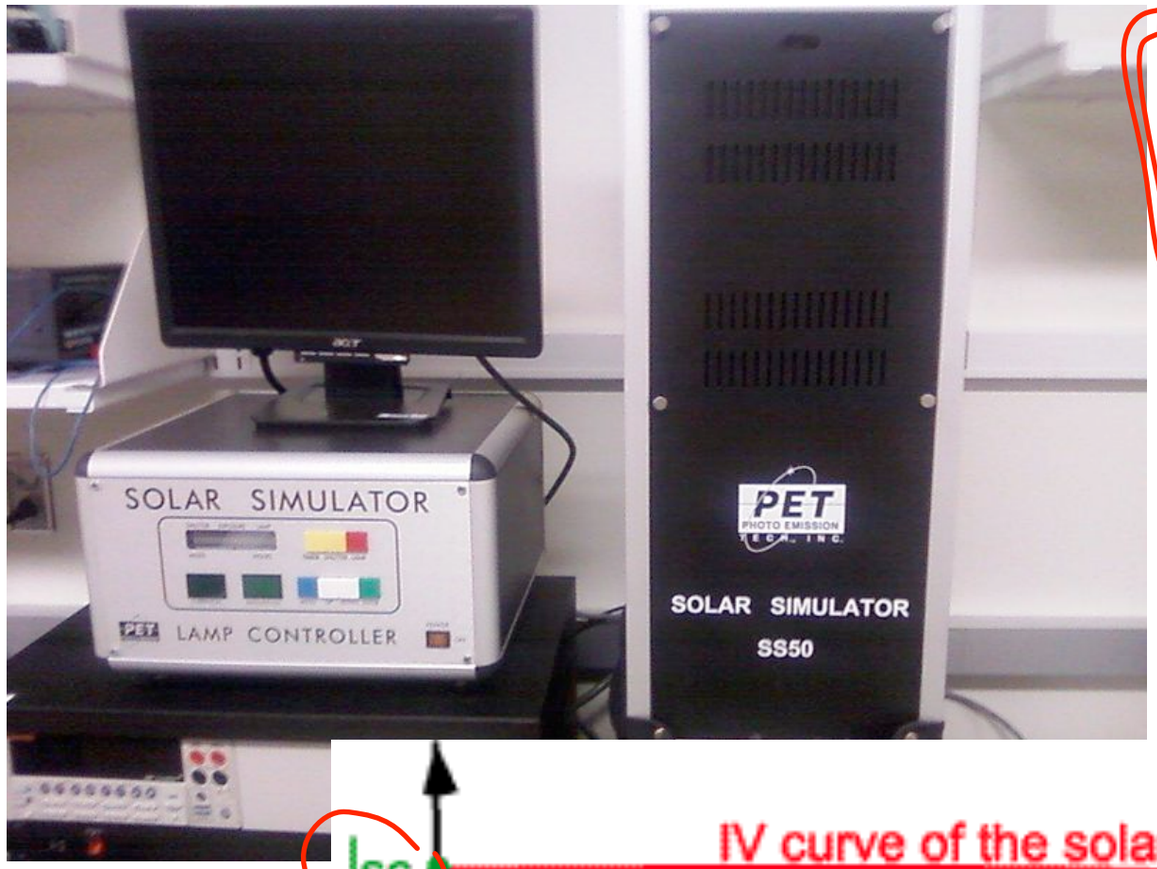
1. Add Surlyn®

www.plasticstoday.com

2. Sandwich with teflon and bake.

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

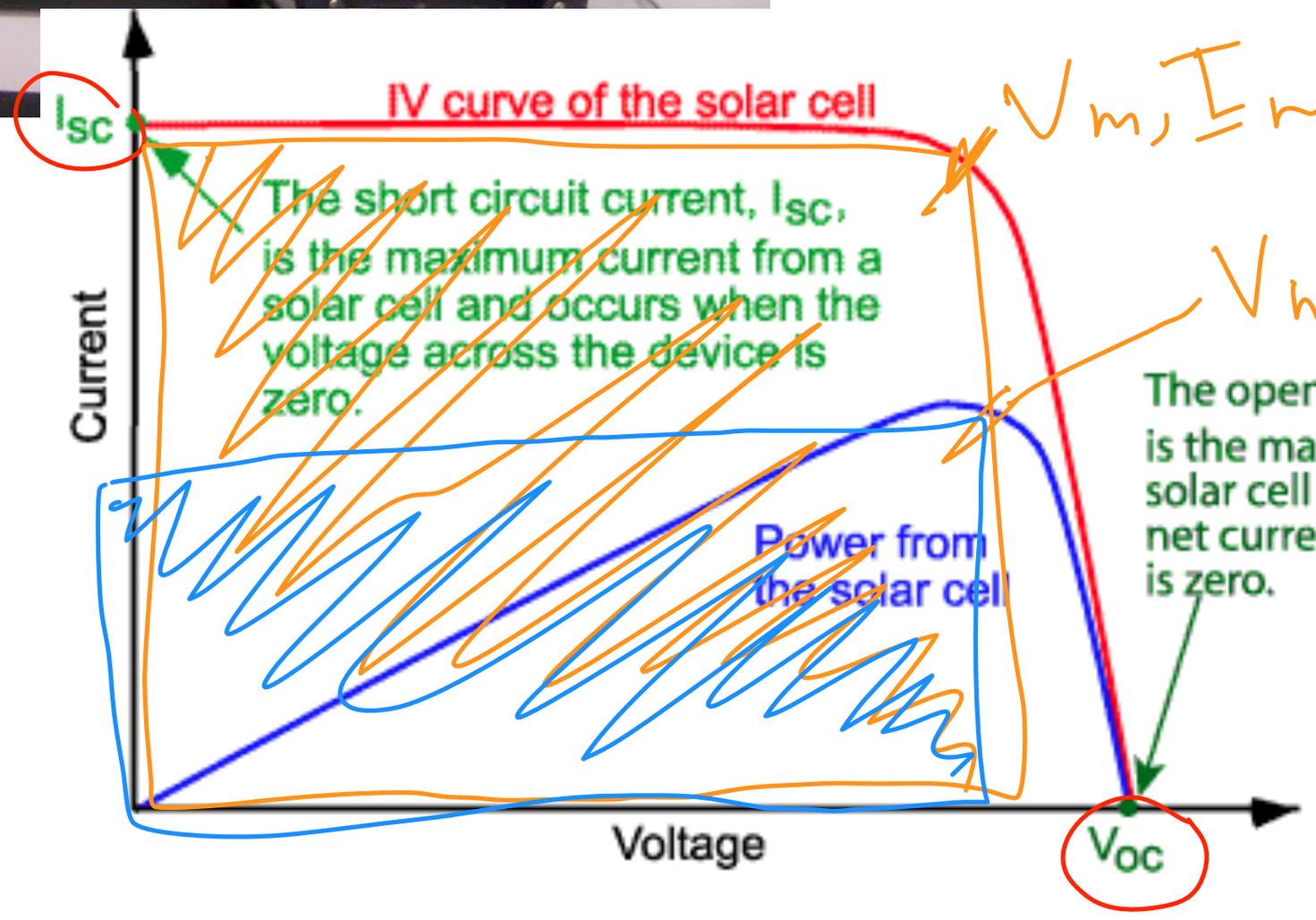




Measure the area of your solar cell (in cm)!

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

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



Post your data on the wiki Talk page for M3D5!