Look up the location of your TEM grid!

M3D3: TEM Analysis

11/27/2012
What we have done so far:
Widefield Fluorescent Microscopy

Confocal Fluorescent Microscopy

High Resolution Fluorescent Microscopy

\[ d = \frac{\lambda}{2NA} \approx 1.0 = \frac{\lambda}{2} \approx 500 \text{nm} \]

\[ 80-100 \text{nm} \]
TEM in CMSE Dept

Remember the dimensions of the M13 phage:

GUN
Elemental
Sample
CCD

880

500 nm

Print Mag: 14600x @ 51 mm
0:57 08/30/11

500 nm
HV=120.0kV
Direct Mag: 5000x
Next time:

Anode Paste

Anode Base

At 600°C

- TiO₂
- FTO
- Glass

Dried Phosphor/5% Au-InP

1 M3D2
2 TiO₂

Cellulose
Ceramic
Research Proposal:

What gets you up in the AM?

Blue

Red

Purple

Orange
Research Proposal:

1. What is your area of interest?

2. What is the current state of the technology?

3. How can you address the shortcomings in the field?

4. Why is your approach novel and exciting?

5. What do you need to accomplish your goals?
Plans for today:

1. Lab

2. TEM Analysis:
   Group Order (2 groups / time):
   1:30pm:
   2:30pm:
   3:30pm:

3. Work with your co-PI(s) to develop your proposal.