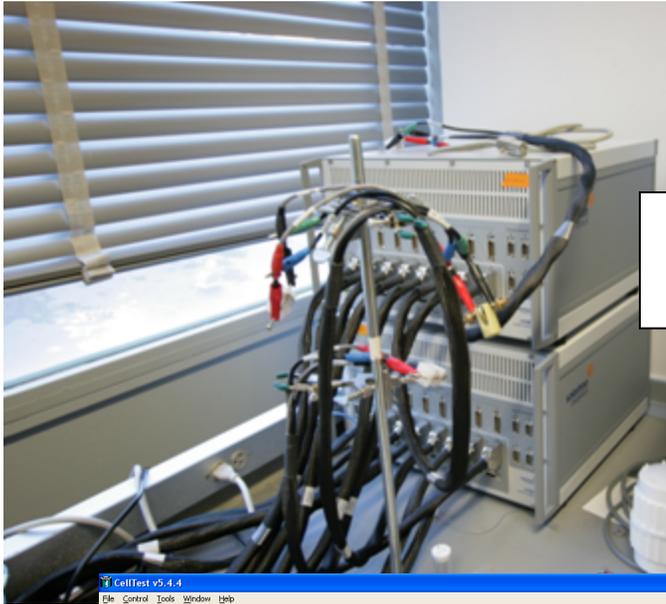


# Biomaterials Engineering

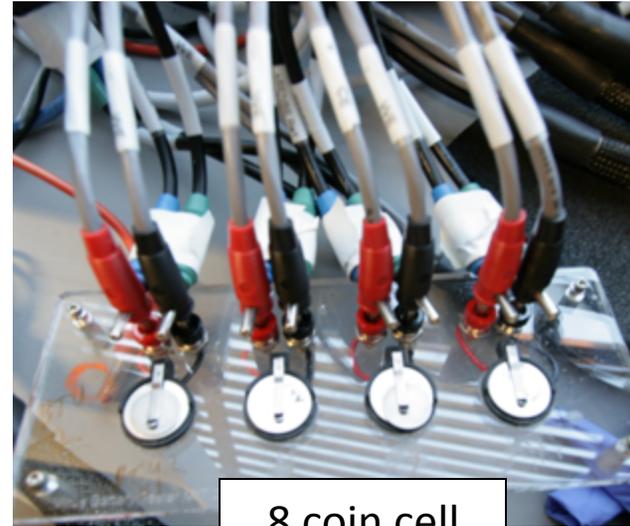
M3D5

12.03.09

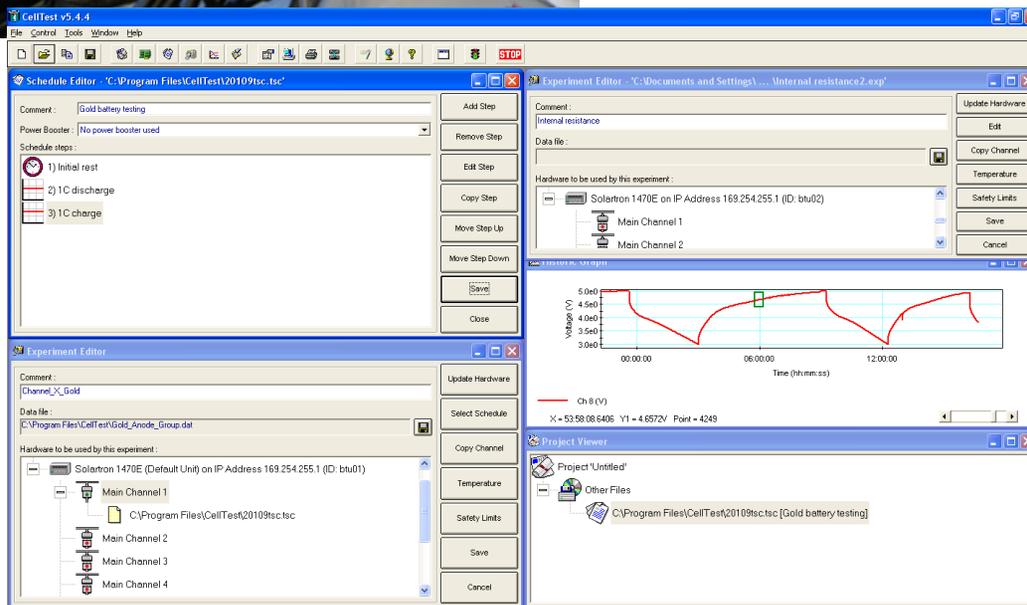
# Testing battery on Solartron



16 channels for testing batteries



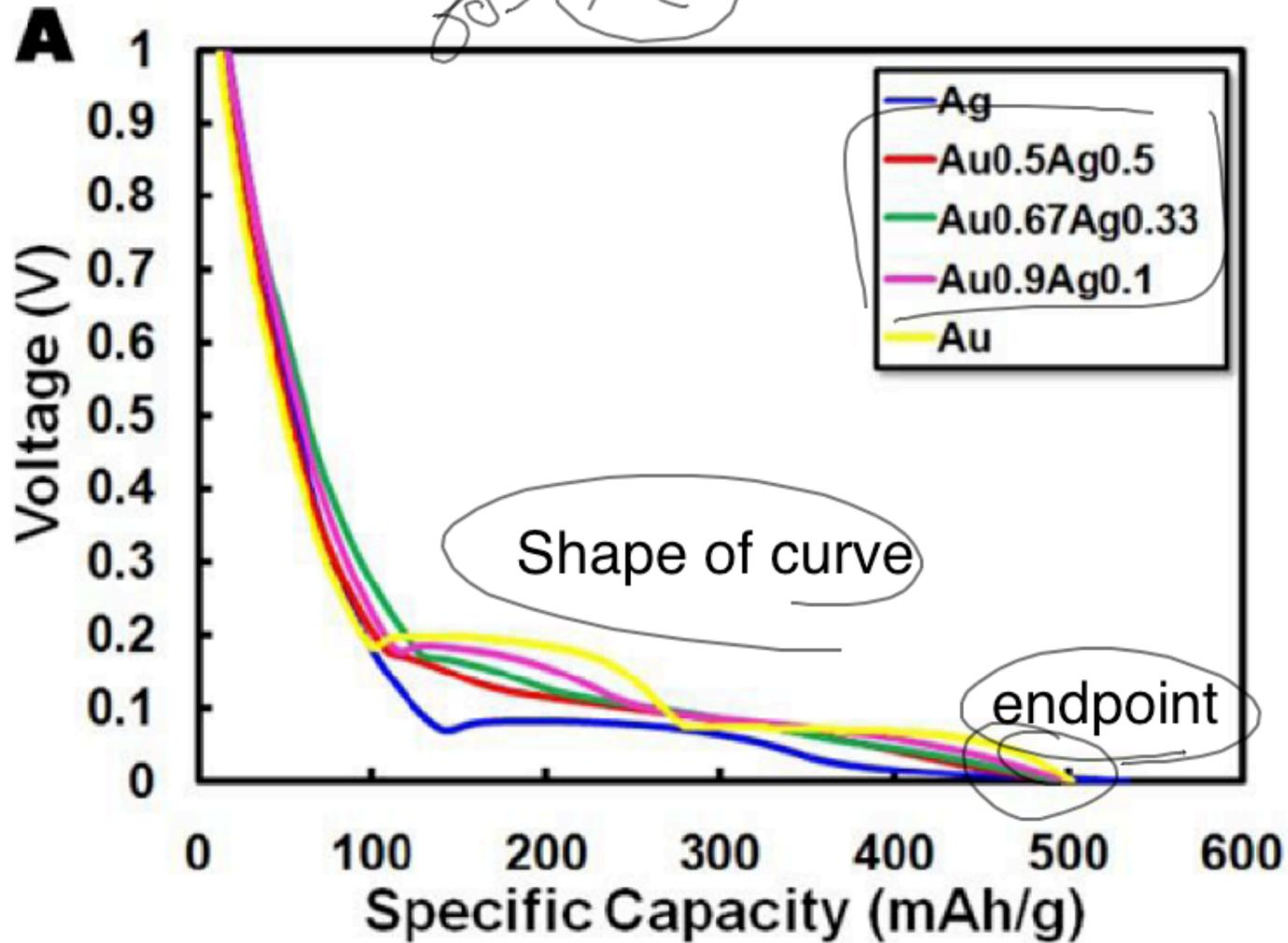
8 coin cell testers



Celltest program for measurement and analysis

Slide from Dr. Mark Allen

# Discharge curve



The amount of current you can get out with respect to mass

# Theoretical vs actual capacity for Gold NW Anode

Today: calculate current needed to discharge in 10hrs

**Theoretical capacity  
is  
510 mA\*h/g**

Tu/Th	
Pink/Red/Purple	4.00mg
Yellow/Green	1.45mg
Blue/Orange	4.03mg
W/F	
Red/Blue	1.42mg
“W/P”	0.53mg

30% of inactive material from superP and PTFE  
+ some inactive material is also from phage itself

# Theoretical vs actual capacity for Gold NW Anode

DATA:

1. the negative applied current (mA)
2. the time (hours) of the measurement
3. the mass of active material (g)

Use to calculate actual capacity

10h vs