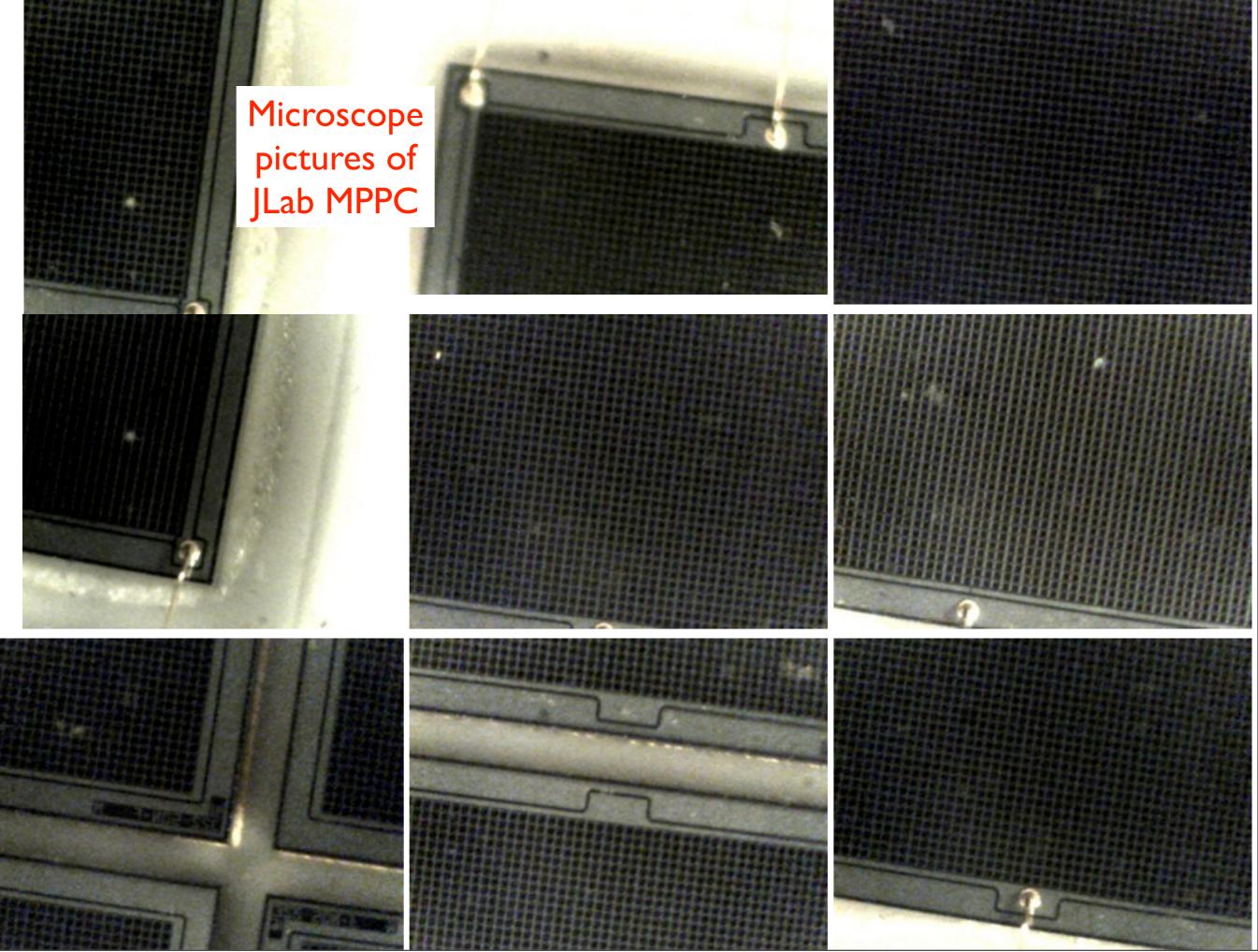
USM Update

Will Brooks, Sergey Kuleshov, Alam Toro 3 May 2011

MPPC Tests

- Finally received MPPC last week, out of customs, with the JLab-built test board
- Finished the USM-built test board too
- First look at MPPC under microscope



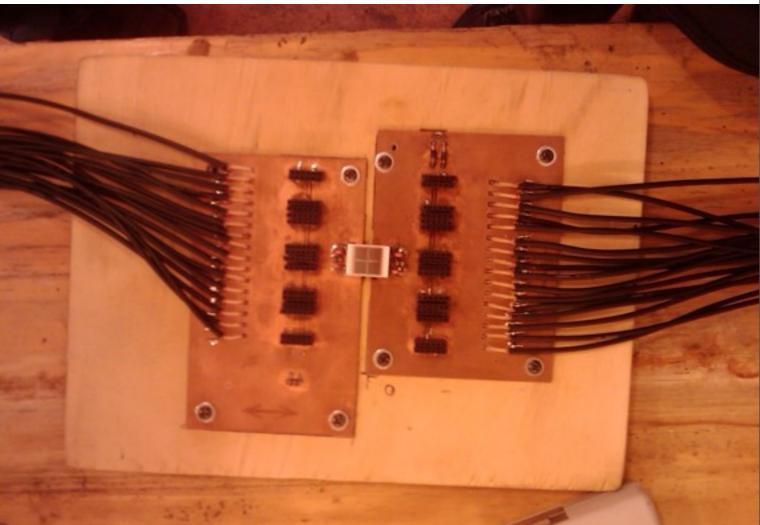
Tuesday, May 3, 2011



Pins fit in connector....



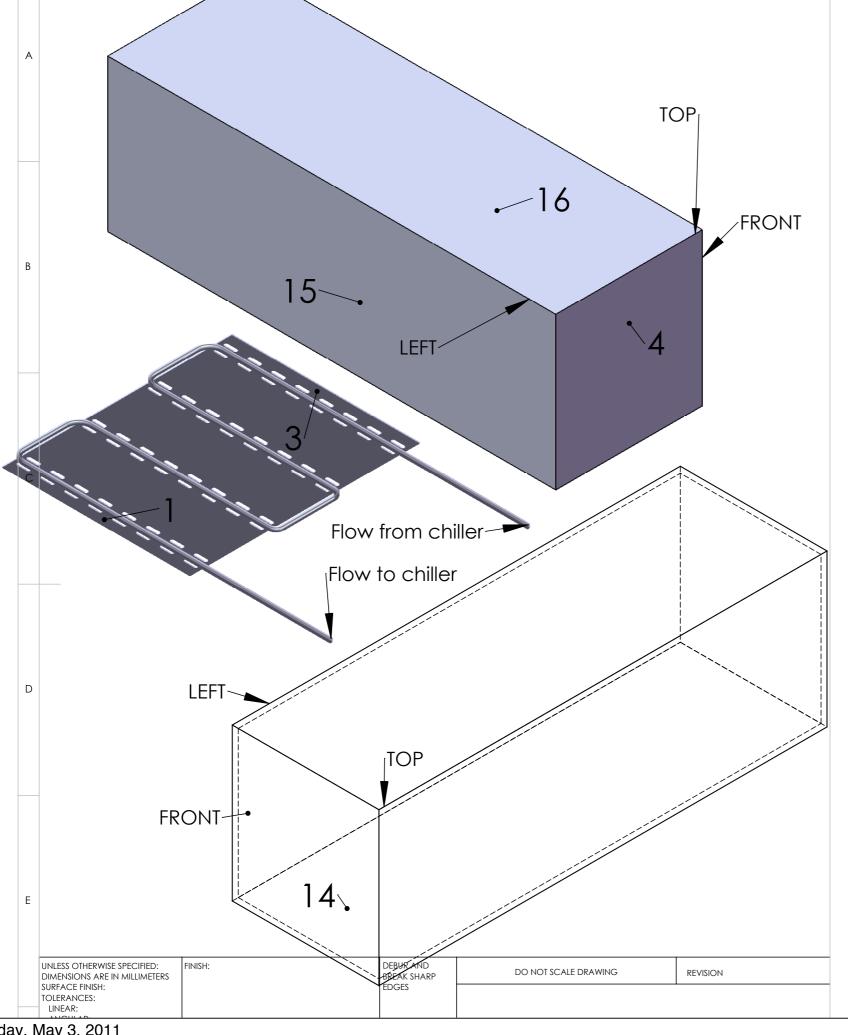
We have Number Four



Ok, our test board may not be as pretty as the one from JLab, but the data will decide which one has more inner beauty...

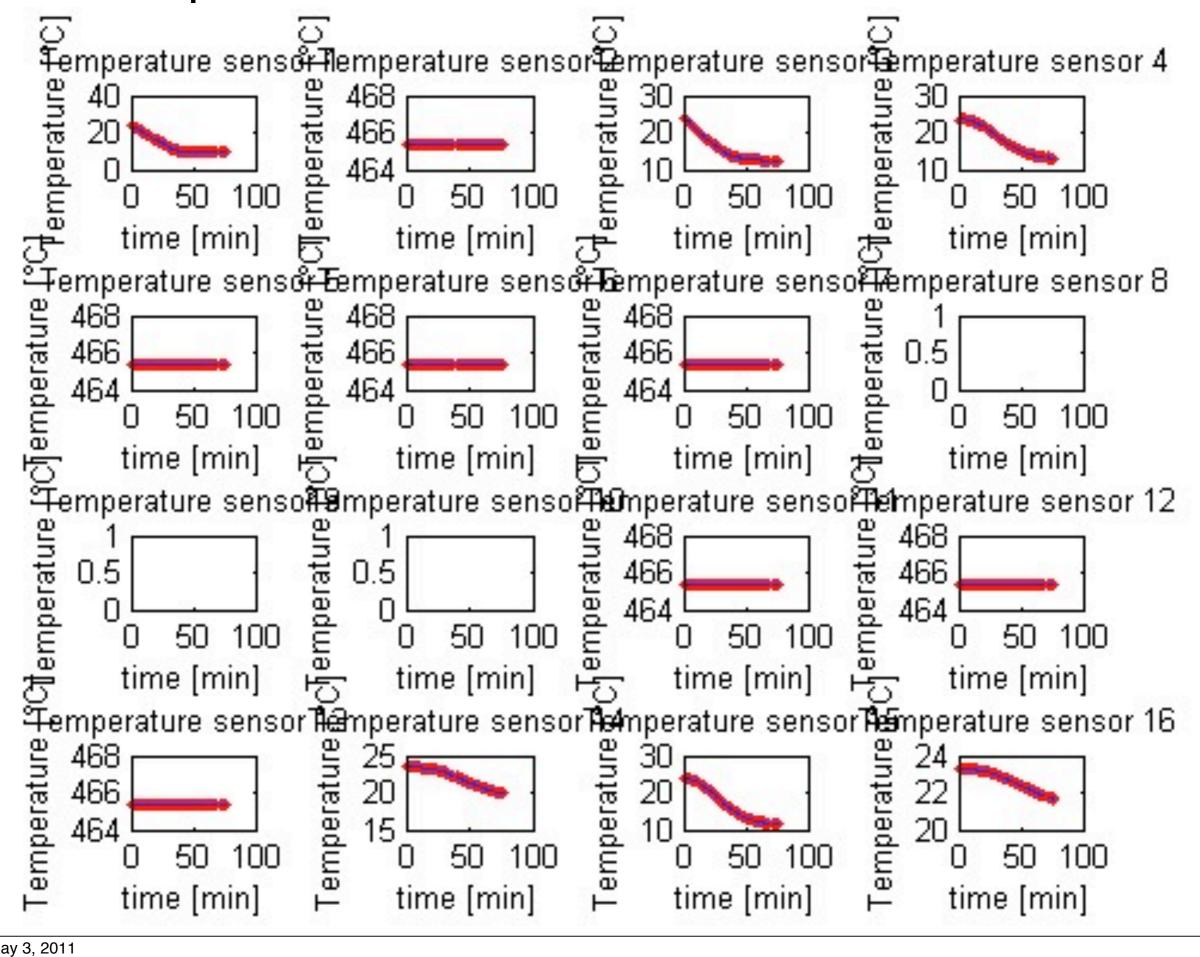
Progress on the test stand

- Performed 2 cool-down tests of copper plate, inside dark box
 - found and fixed a 6-degree C offset
 - real measurement with thermocouples
 - allegedly have a finite-element analysis calculation of the temperature distribution on the plate



Temperature measurement points

First temperature measurements, cooldown tests of dark box



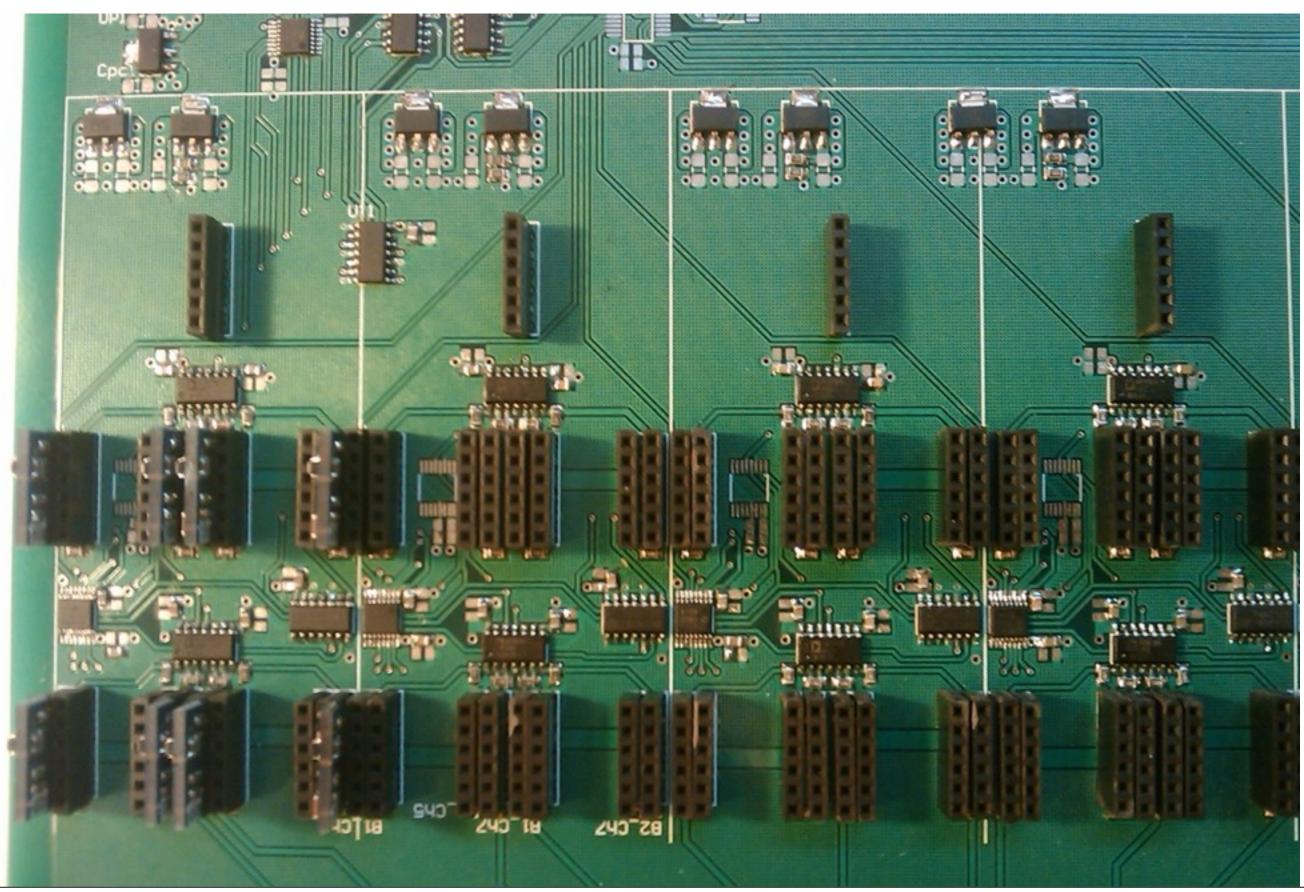
Main signal board prototypes

- Installed sockets on one of the two 6-layer boards with enough components for I SiPM measurement
- Constructed charge-injection interface for first tests



Signal board prototype





Lightguide Fabrication for prototyping at Regina, Athens, JLab



Lightguide Fabrication for prototyping at Regina, Athens, JLab

missing part now fabricated, can speed production

