

Summary of Cornell Activities

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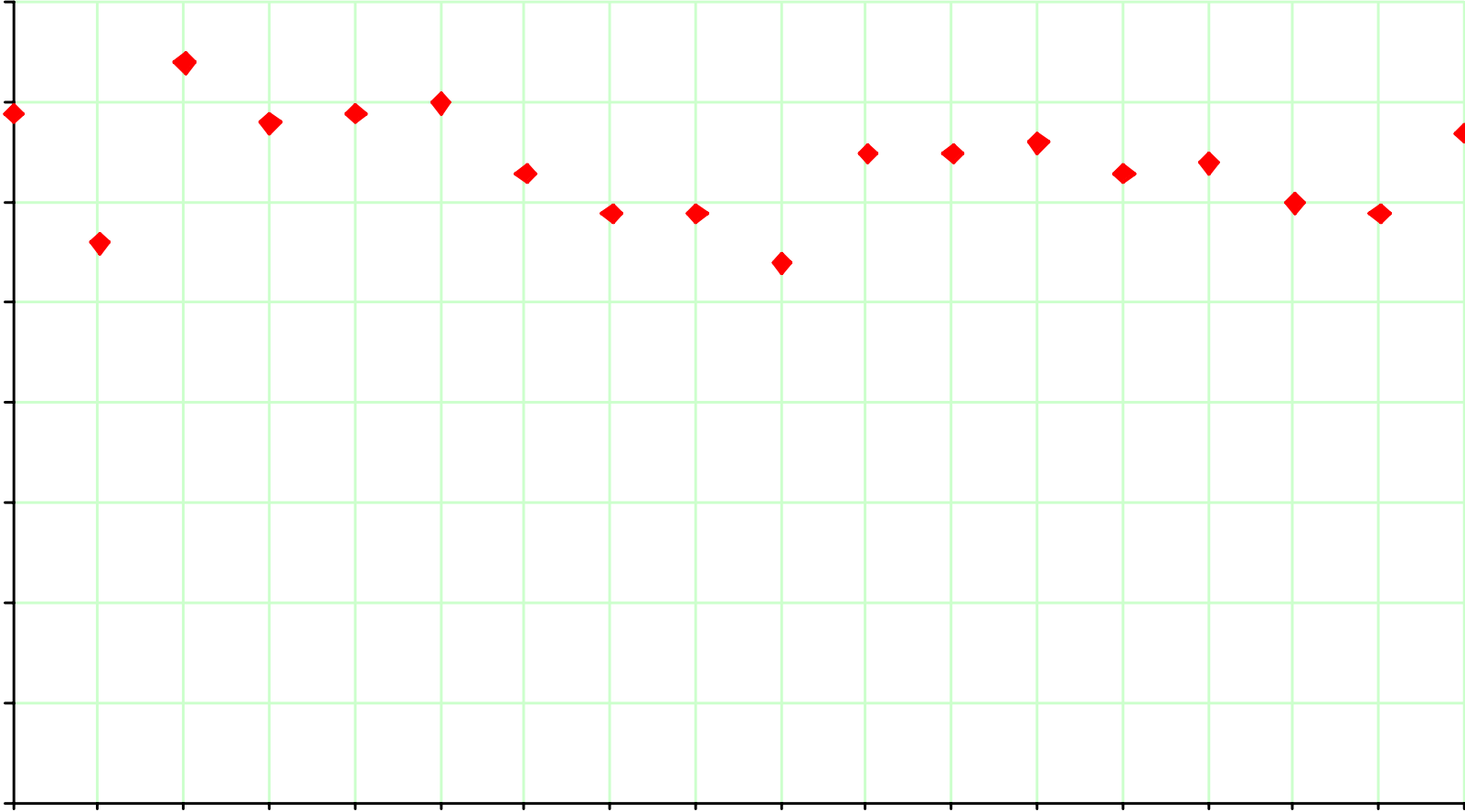
Vertical Electropolishing (VEP)

- The VEP apparatus has been modified to work with 9-cells.
- We have secured a 9-cell loaner from ACCEL
- ACCEL is interested in collaborating with Cornell on vertical EP

VEP (2)

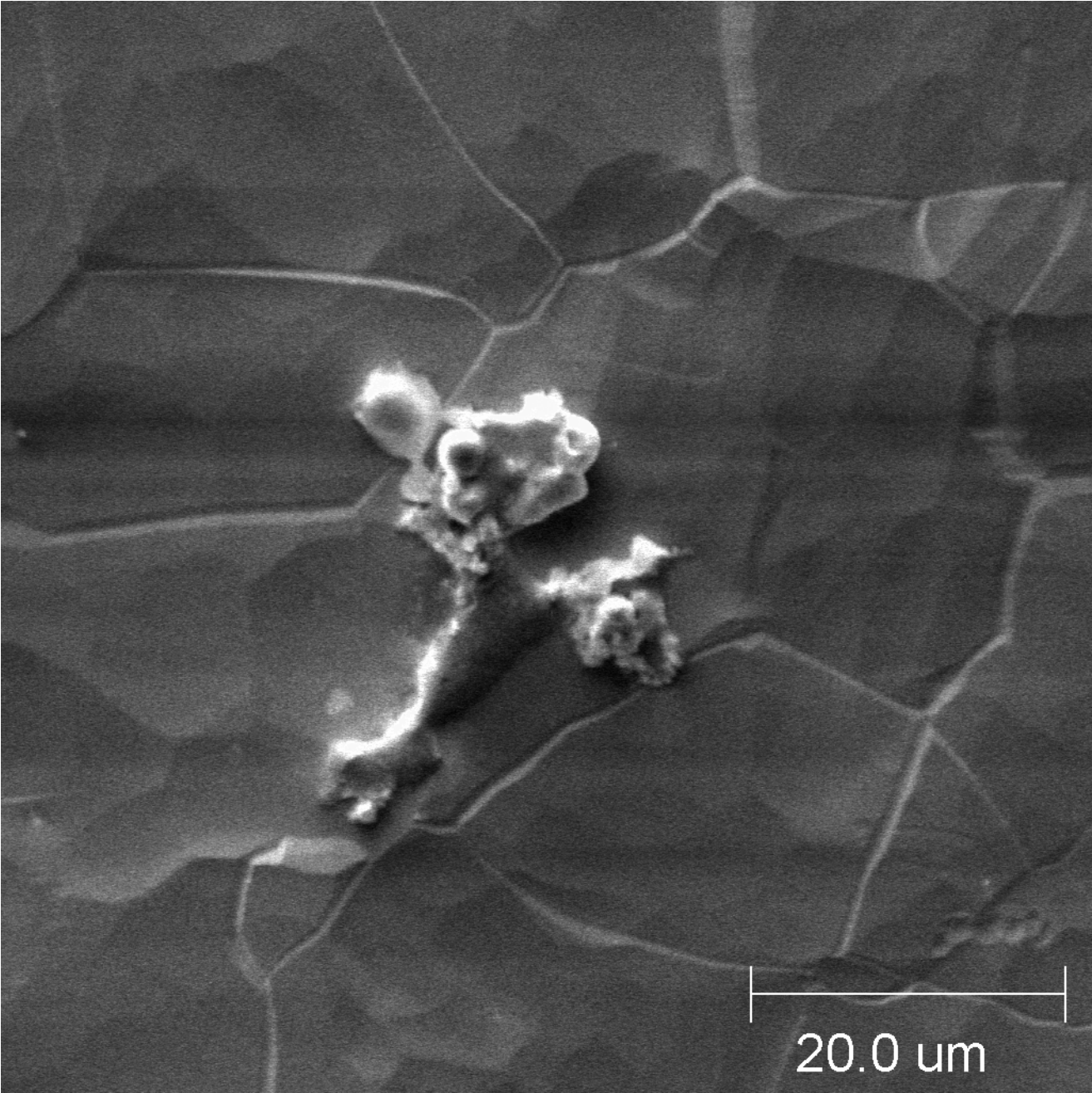
- The ACCEL loaner is electropolished 60 um in one orientation, and 60 um in the flipped orientation
- Material removal is uniform

Material Removal



VEP(3)

- In the first orientation, the acid was not changed. So we exceeded the g/L allowed for Nb.
- We collected a lot of pure S particles in the foam catcher at the top as well as on the top cavity cell. See following picture.
- We could gather several mg of S in a vial !
- In the second orientation we only did 30 um and changed acid, and found no visible quantity of S.



Next Steps

- VEP 10 um in new acid
- HPR
- (Dissolve S in best candidate)
- Bake 120 C, 48 hour
- Test

