**Evaporated Coating Inc. Report**

* Met with sale manager, one engineer.
* Inspection of mirror re-coating attempt:
* When preparing the surface, previous coating was coming off
* (conflicts with previous attempt to strip coating)
* Old coating removed, not very successfully. Problem with substrate?
* Re-coating was not successful. Surface is visually defective.
* Details on the technique used were asked but not given.
* Tour of facility denied.
* Chamber limited to 44’’ long
* Conclusion: ECI seems unable to re-coat the mirrors.
* Alternative: ECI gave me a 9’’ wide 36’’ long strip of lexan coated with Aluminum. We can try glue this on the mirror surface. If successful this could work since ECI can coat lexan very well.
* Inspection with the engineering of 2 LTCC elliptical mirrors, 1 hyperbolic, 4 cylindrical mirrors, Winston Cones.
* Left 2 WC for their analysis and re-coating test. They seem confident they can do it. Previous experience with HTCC positive.
* Left 2 cylindrical mirror to test their re-coating
* JLAB homework: test gluing lexan layer on mirror, check reflectivity and optical alignment.
* ECI homework: provide quote for lexan layers only, for WC and for cylindrical mirrors.

**Temple University Report**

* Met with Zein-Eddine
* Physics Lab Tour: He3 polarization, p-Terphenyl PMT coating

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* Zein-Eddine very enthusiastic about this project. Evaporation tooling being refurbish, will be upgraded for 3 PMTs at once. Graduate students will be available to do the job
* Testing: Zein-Eddine have lamps to do wave-length dependant testing of ADC spectrum, including data acquisition.
* Plan is to test PMTs before/after the coating.
* Comparison with Quartz PMT will be done.
* JLAB homework: none for now.
* Temple U homework: refurbish the chamber.

**Quantum Coating Report**

* Met with three senior engineers, vice president of the company.
* Overview of LTCC project.
* Inspection with the engineering of 2 LTCC elliptical mirrors, 1 hyperbolic, 4 cylindrical mirrors, Winston Cones, spare mirror.
* Session with lots of QA, especially about the substrate.
* Engineers were perplexed on why the stripping didn’t work at ECI. While on the facility tour, one engineer tried to strip the spare mirror.
* Facility Tour:
* Dozen of chambers.
* Biggest chamber: 96’’. Used for the mirrors for the James Webb telescope.
* Production chain, including quality control, impressive
* Engineer was successful in stripping off coating of spare mirror.
* I left 1 hyp. Mirror, 2 cyl. Mirrors and one WC.
* Discussion about alternative strategy: coating lexan layers glued to mirror surface. This will be tested, worries about vaccum-safe of glue, and mirror substrate in general.
* JLAB homework: test gluing lexan layer on mirror, check reflectivity and optical alignment.
* QC homework: test stripping / re-coating on one mirror. Test re-coating of cyl. Mirrors.
* Overall impression positive.

