

## ARCTIC Notes

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Attending: Joe, Bill, Alaina, Alysha, Suzanne, Russet, John Wilson, Russell

- 1. Dewar Update -- Test fitting etc.
  - Been going well. Have all parts. Did initial pump-down to  $1e-7$ . There is a little bit of oil and water which will be cleaned with an ultrasonic cleaner. Then assembly in a cleanroom. Leak test performed well.
  - Ed is working on temp sensors, then temp testing.
  - We are working on the dewar window, will borrow from Spicam for testing.
  - Needed parts should be in hand by end of the week.
  - Joe will be back end of September to finish thermal testing before it goes to Leach (week of October 6 or Oct 10).
  - John -- might be good to get details on connectors and wires between us and Leach? Might be good to have a wiring diagram.
    - Joe says Leach will supply connector to the CCD. He could also supply connectors and cables to his controller.
    - John -- It probably has two parts.
    - Joe -- Plus we have two video monitors.
    - John -- Diagrams never hurt! Leach will provide a pump for testing?
    - Joe has been discussing that will all parties.
  - Bill -- Several of our instruments have Leach controllers and we don't use them as Leach suggests.
    - Joe -- Heat needs to be vented, so will need to install vents.
    - John -- we added plates for exhaust. However you do it depends on heat load. Must allow air flow. And consider mods.
    - Bill -- Are those covers on either ends for the video cards?
    - Joe -- Leach says yes.

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- John -- You will have to modify his plates for connecting cables.
- Bill -- I suspected.
- John -- Feel free to poke around TSPEC and look!
- Bill -- We don't want to re-make any of his cable assemblies. Doesn't look like a ton of room to play with, so we'll see when we get it. Webpage does not show panels on the ends.
- 2. CCD Fun -- Joe
  - Thursday, STA said CCD was ready, and they have never heard of a new coating for development. If we want a new coating, we must provide the CCDs to test it on. They offered to exchange if they do get a new coating. We need everything in writing!! Joe says they can coat it this week. Will they commit, or break our agreement?
  - After that, Joe will have the CCD shipped to Leach, and bring dewar for integration.
  - This coating (Curve B) may lose some in the red, but may not be too bad. We will need an ACTUAL plot for our CCD, not a theoretical one. This may cause problems, because the PR has no benchmarks for them to meet.
  - We hope that they will not put their reputation on the line by not delivering as advertised. Hope for good news in a week or two.
- 3. Other?
  - Suzanne -- Schedule question. Chip is in the dewar and comes to APO around Oct 25? Computer as well (Bill will get on Fritz). Then bring to Seattle?
    - Joe says yes. He will perform tests there. Would like Bill to come up.
    - Then Russell and Conor have access beginning of November.
  - Joe -- Russell, do you have all the docs you need, or do you need more? (email, Sept 3rd at 9pm)
  - 64 bit processing, verify with Fritz.
  - Joe -- Optics vendor declined the bid, too risky. Bit to NewTech but will be a week or two for a quote. Alternates? Talk to Carnegie, and Magellan. Robert Barkhouser. Don't let the vendor say APO supplies the material. Ask how comfortable they are with the material.