

## December 18, 2006 LGS Facility IPT Meeting Notes

A. Bouchez 12/18/06

Caltech: Bouchez, Cromer, Guiwits, Roberts  
Palomar: Doyle, Henning, Tripathi  
Chicago:

### 1. LGS Computer and Laser Automation

Discussed need for a PC for BTO and laser automation software development. Computer and hardware priced by Steve is \$5800, not including discounts and possible reuse of some parts. Development computer will be necessary only after "lgs" is installed at Palomar (perhaps around March 2007).

Decided to go ahead and purchase, out of JPL budget. Will reuse/borrow any parts available (eg. PC itself).

Discussed mounting options for LGS computer in the Coude lab. Need to consider further whether LGS computer needs to be mounted below laser. Regardless, need some shelving or rack to support ESP 300 controller and delay generator sitting on floor to the West of laser. Could use rack mounting hardware similar to that in AO lab.

LGS computer progress:

- McShane RS232 converter, temperature controller, and temp sensors have arrived. Chris's help needed to sort out hardware setup.
- DAC can now be compiled under Red Hat. Can read card and write to it. Further testing is ongoing.
- All testing of temperature control loops could be done at JPL before next run. We will decide whether to take LGS computer up to Palomar at the last Facility meeting before the run, on Jan 2.

### 2. Laser

Laser training course was OK. Need to order new safety eyewear. John C. says go ahead and research what you need - run order by him first.

Laser tasks before January observing run:

- Renu will get LiIO3 and LBO crystal data from Ed, and will get quotes. Goal is to place orders first week of January.
- Fix all coolant water leaks. Renu will coordinate with Steve Einer.
- Insulate enclosure walls. Insulation material should have arrived. Renu will coordinate installation. AB: Keep in mind that clearance through Coude room door is very tight, so any additional material must be easily removable.

### 3. Aircraft safety

Causes of camera false positives during last run, in order of frequency, were:

1. Dome rotation.
2. Moonlight in ASCAM.
3. Laser in ASCAM.
4. Moon in IRcam.

John C. will try to investigate the cause of the shutter events coincident with dome rotations before the next run.

Next LGS Facility meeting will be Tue. Jan 2, 9:00-10:00am, in 012 Robinson

LGS Project meeting is this Thursday, 3:30-5:00pm, in 023 Robinson.

Meeting adjourned at 9:30am