

January 2, 2006 LGS Facility IPT Meeting Notes

A. Bouchez 1/2/07

Caltech: Angione, Bouchez, Cromer, Guiwits, Moore, Pickles, Roberts, Shelton
Palomar: Doyle, Henning, Tripathi
Chicago:

1. Laser

Renu: 1.06 laser is in good shape (12.5 W), 1.32 laser not lasing. Fixed water leaks and tried alignment with He-Ne, all seems OK. Last time cause was burn mark on high reflector. Still working on it, but could use some support. At one point saw AOM diffraction vertically, but this doesn't make much sense.

Need Ed's schedule and OK on laser crystals.

2. BTO

Will be running save S/W version as in December run. Will be working on:

- Improving bug in motion control system.
- New driver for safety system.
- Automated search patterns on hiatus. Not deemed necessary for now.

Instrument schedule:

- WIRC out.
- LLT installed 10-12 AM.
- AO system installed, cabled by mid-afternoon. We would prefer it be installed Wed if possible.

Start BTO alignment 11~12AM.

3. Laser diagnostics

Need to finish cabling for LLT bench before run. Planning to work out cabling Wed 1/3, before LLT installation. Anna arriving at Palomar 11am. No calibration necessary of benches once they're installed.

Photodiodes need adjustment. Needs to be done with 589 laser. Will use power meter.

Will also diagram connction.

4. LGS computer

LGS computer wired up to temperature sensor successfully. However, sending commands didn't work. Driver needs more work. Computer will stay in the lab, will work on it during run. Will:

- Work on development during run.
- Work out where to put LGS computer.

5. LLT

LLT may need to be boresighted, due to screw adjustment. Hal coming up just first night. Still a significant difference between.

6. Safety systems.

Renu is now a bona-fide safety officer. John will continue to preside. John has located possible cause of dome-rotation related shutter events.

Caltech Optical Observatories
Palomar Adaptive Optics

Could add a filter to the ASCAM, to reduce moonlight effect.

Has Bob organized spotters. AB to send final time request.