UCO Advisory Committee
Meeting October 9, 2012

Infrared Lab Status Report

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Status of Current Programs

• **MOSFIRE**: a 0.97-2.41 micron camera/multi-object spectrograph for the Keck Observatory; PI: Ian McLean.
  – *Delivered:* First Light was *April 4, 2012*. Project ended *Sept 30*.

• **GPI/IFS**: a 1-2.5 micron extreme AO camera and integral field spectrograph (IFS) for Gemini South 8-m telescope; James Larkin (UCLA) is PI for the infrared spectrograph.

• **FLITECAM**: a 1-5 micron camera/grism spectrometer for NASA’s Stratospheric Observatory for Infrared Astronomy (SOFIA); PI: Ian McLean.

• **IRIS**: a 1-2.5 micron AO camera and integral field spectrograph for TMT; PI: James Larkin (co-PI Anna Moore, Caltech).
  – *Partial-PDR or prototyping; anticipating funding for 2013 to mid-2014*
Status of Current Programs

- **OSIRIS**: Larkin worked with WMKO to coordinate transfer of OSIRIS to Keck 1. Now working on grating/detector upgrade.
  - *Move complete Jan 2012; new grating 2.5x better at J, ready to install.*
- **IRCAL**: NSF-funded Shane AO project, upgrade to an H2RG detector similar to MOSFIRE; UCLA is providing Jason Weiss for software support. Co-PIs: Ian McLean & Mike Fitzgerald.
  - *In progress; will complete within two months.*
- **NIRSPEC upgrade study**: feasibility of detector and other upgrades; PI: Ian McLean, co-PI Mike Fitzgerald.
  - *Initial funding $35K; additional $8K pending. Report due Nov 7, 2012*
- **NIRC2 polarimeter proposal**: PI: Mike Fitzgerald.
  - *Proposal to NSF ATI program to fund construction and installation of a dual-channel polarimeter for NIRC2; not funded this year.*
- **Looking for additional work to meet payroll (~$750K/year)**
Summary & Conclusions

- Three big projects are finishing
  - MOSFIRE, GPI, and FLITECAM are all winding down
- Next big project is slow to ramp up
  - IRIS is in prototyping phase until TMT gets going
- Another potential big project
  - DAVINCI (Keck Next Gen AO); discussing Lab role with WMKO. We propose Mike Fitzgerald as PI, with major co-PI supporting roles from James Larkin, Ian McLean and Sean Adkins.

- Smaller projects and studies: appropriate for UCO support?
  - OSIRIS detector upgrade
  - NIRSPEC upgrade
  - DAVINCI study?

- Our staff is at the minimum viable base of 8 people
  - Current support is mainly IRIS (TMT) and FLITECAM (NASA)
  - Normally we get $300K (3%) from UCO; but so far we have only received $150K, because UCO budget outlook is very uncertain
  - We will review our staffing situation in December