

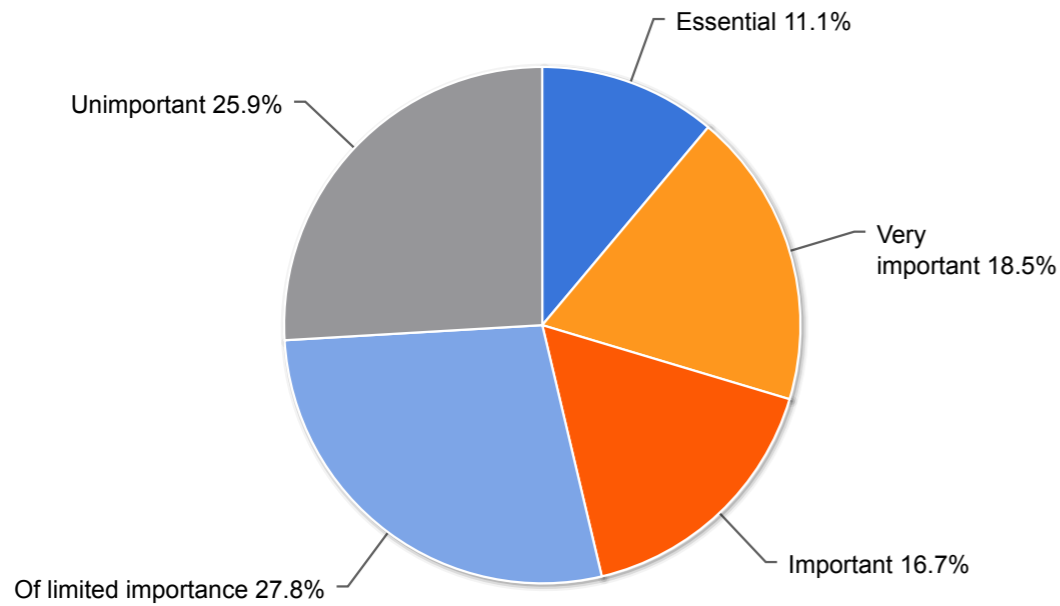
Lick Community Workshop 2012



- Hosted by SETI on September 13&14, 2012. Barth had a lead role.
- 30+ persons attended, representing nearly every UC
- Top-level goals
 - Communicate the current and near-term activities at Lick Observatory.
 - Explore and direct the future activities at Lick Observatory.
 - Carrying out exciting and forefront research
 - Broadening and improving the E/PO efforts
 - Recognize and react to the intense and sustained budgetary pressures.

Lick Workshop: Survey

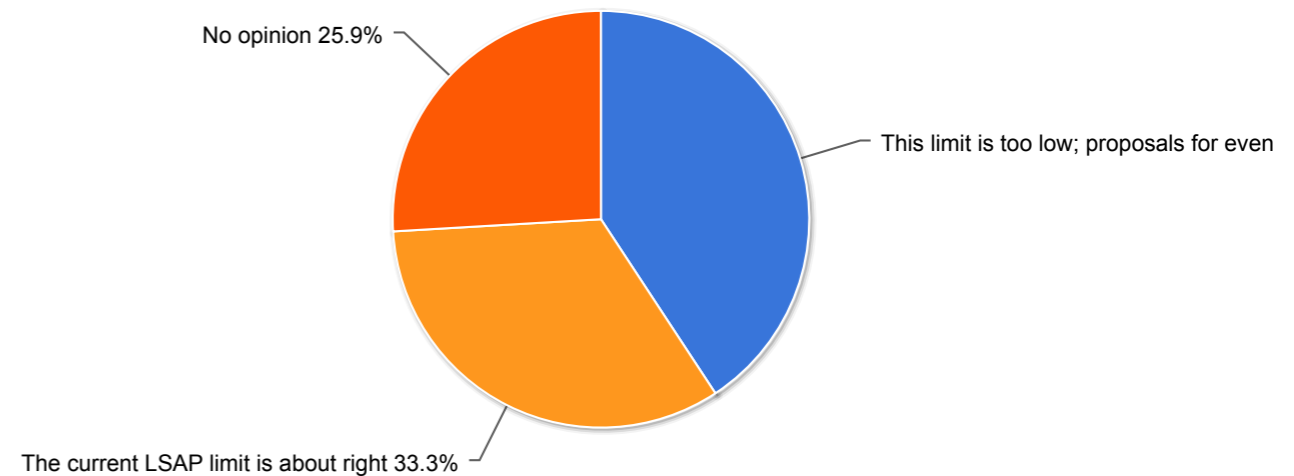
How important do you consider Lick facilities to your research program?



9. What do you view as the major role(s) for Lick Observatory in the next 10 years?

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	No opinion	Responses
A premier A&A research facility for UC	15.1% 8	24.5% 13	15.1% 8	35.8% 19	7.5% 4	1.9% 1	53
An avenue for development of new instrumentation and technology	40.7% 22	44.4% 24	13.0% 7	0.0% 0	0.0% 0	1.9% 1	54
A focal point for UC A&A E/PO activities	44.4% 24	42.6% 23	9.3% 5	3.7% 2	0.0% 0	0.0% 0	54
A valuable resource for PhD training	40.7% 22	44.4% 24	13.0% 7	0.0% 0	0.0% 0	1.9% 1	54
A valuable resource for undergraduate education	28.3% 15	50.9% 27	9.4% 5	7.5% 4	0.0% 0	3.8% 2	53
A research facility focused on PI research projects	14.8% 8	46.3% 25	25.9% 14	9.3% 5	0.0% 0	3.7% 2	54

UCO policies state that up to ~1/3 of Shane time may be allocated toward large programs (LSAPs), where LSAPs are defined as programs requiring 20 or more nights per semester. What is your opinion of the current policy on LSAPs?



Lick Workshop: Survey

How important do you consider Lick facilities to your research program?



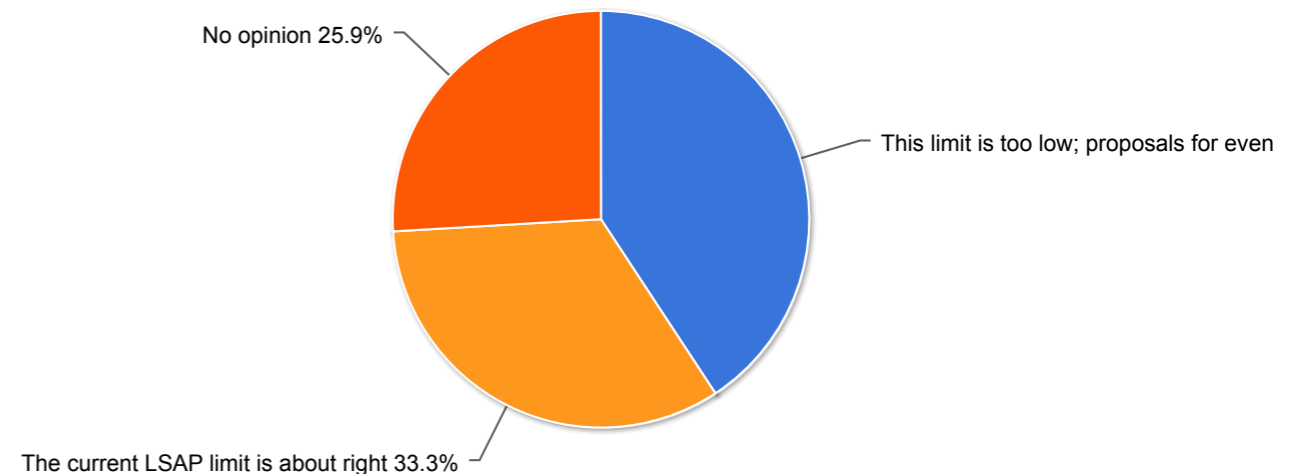
26. Various options are being considered as possible ways to decrease operating costs or raise revenue. Rate each of the following options. When evaluating these options, consider the benefits of these facilities not just for your own research, but the overall importance of each to UC astronomy research and education.

	Completely acceptable	Somewhat acceptable	Neutral	Somewhat unacceptable	Completely unacceptable	No Opinion	Responses
Shutting down the CAT	19.2% 10	13.5% 7	25.0% 13	11.5% 6	9.6% 5	21.2% 11	52
Offering the CAT on a fee-per-night basis	38.5% 20	15.4% 8	15.4% 8	13.5% 7	1.9% 1	17.3% 9	52
Shutting down the Nickel	11.5% 6	13.5% 7	11.5% 6	30.8% 16	21.2% 11	13.5% 7	52
Offering the Nickel on a fee-per-night basis	33.3% 17	17.6% 9	11.8% 6	17.6% 9	9.8% 5	11.8% 6	51
Discontinuing participation in Super-LOTIS	25.5% 13	2.0% 1	31.4% 16	2.0% 1	2.0% 1	39.2% 20	51
Selling nights on the Shane	34.6% 18	32.7% 17	9.6% 5	7.7% 4	3.8% 2	11.5% 6	52
Retiring Shane instruments that are in low demand	33.3% 17	35.3% 18	11.8% 6	0.0% 0	2.0% 1	17.6% 9	51
Reducing the number of nights offered on the Shane	7.7% 4	21.2% 11	17.3% 9	30.8% 16	11.5% 6	13.5% 7	52
Restricting the frequency of instrument	42.3% 22	25.0% 13	9.6% 5	7.7% 4	0.0% 0	15.4% 8	52

9. What do you view as the major role(s) for Lick Observatory in the next 10 years?

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	No opinion	Responses
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Current Activities: Scientific

Publications

2012 Total number: 36

3-m: 31; Kast: 19; Hamilton: 5; GEMINI: 2; AO: 3; PFCam: 1; 3m-OWN: 1
Other telescopes: Nickel: 8; CAT: 2; KAIT: 6; Astrograph: 1

2011 Total number: 48

3-m: 30; Kast: 22; Hamilton: 7; GEMINI: 2; AO: 1; PFCam: 0
Other telescopes: Nickel: 5; CAT: 1; KAIT: 17; OWN: 1

2010 Total number: 32

3-m: 23; Kast: 14; Hamilton: 8; GEMINI: 2; AO: 0; PFCam: 0
Other telescopes: Nickel: 6; CAT: 5; KAIT: 6; Crossley: 1

2009 Total number: 36

3-m: 28; Kast: 17; Hamilton: 5; GEMINI: 0; AO: 3; PFCam: 2; 3m-OWN: 2
Other telescopes: Nickel: 9; CAT: 3; KAIT: 12; Crossley: 1

2008 Total number: 47

3-m: 29; Kast: 12; Hamilton: 8; GEMINI: 0; AO: 6; PFCam: 2; 3m-OWN: 3
Other telescopes: Nickel: 6; CAT: 8; KAIT: 8; Crossley: 2

1774 citations; Median ~30

Current Activities: Scientific

Technical Innovation

- CAMS (Cameras for Allsky Meteor Surveillance); PI P. Jenniskens
- FIRST (Fibered Imager for Single Telescopes); PI F. Marchis
- POLISH (Imaging Polarimeter for 3m/Nickel); PI S. Wiktorowicz
- NIRIS (Near-Infrared Imaging Spectrograph); PI J. Rudy, R. Puetter
- ViLLaGEs (Visible Light Laser Guidestar Experiment); PI Gavel
- OSETI (Optical SETI instrument); PIs S. Wright, F. Drake, R. Stone
- Khayyam (Tunable Spatial Heterodyne Spectrometer); PI W. Harris
- FLITECAM (infrared imaging camera for SOFIA); PI I. McLean
- FDC (Fast Diagnostic Camera for SOFIA); PI J. Wolf
- BVIT (Berkeley Visible Image Tube); PI O. Siegumund
- C3POCam (CMOS 3-Color Prototype #0 Camera); PI J. Bloom

Current Activities: Scientific

Lick Archive

Mt. Hamilton Archive Search Tool [Home](#) [New Password](#) [Logout](#)

<input type="text" value="R.A."/> <input type="text" value="Declination"/> <input type="text" value="J2000"/> <input type="text" value="30"/> <input type="text" value="arcsec"/>	<input type="text" value="Object Name"/> <input type="button" value="Resolve Name"/>
<input type="checkbox"/> KAST Red <input type="checkbox"/> KAST Blue <input type="checkbox"/> Hamilton Shane <input type="checkbox"/> Hamilton CAT <input type="checkbox"/> PFCam <input type="checkbox"/> Gemini <input type="checkbox"/> Nickel Direct Imaging <input type="checkbox"/> Nickel Spectrograph <input type="checkbox"/> Villages <input type="checkbox"/> AO	<input type="checkbox"/> Shane <input type="checkbox"/> Nickel <input type="checkbox"/> CAT <input type="checkbox"/> APF <input type="checkbox"/> Crossley
Start of Search <input type="text" value="Year"/> <input type="text" value="Mon"/> <input type="text" value="Day"/> <input type="text" value="Hour"/> <input type="text" value="Min"/>	End of Search <input type="text" value="Year"/> <input type="text" value="Mon"/> <input type="text" value="Day"/> <input type="text" value="Hour"/> <input type="text" value="Min"/>
FITS header keywords in search	<input type="button" value="Add More FITS Keywords"/>
<input type="text" value="Key"/> <input type="text" value="Value"/> <input type="text" value="Upper Value"/>	<input type="button" value="Delete"/>

- Web searchable archive - date, instrument, telescope, keywords
- Keyed to users, will only show data a given user is allowed to see.
- Can download selections as a tar file.

Current Activities: E/PO

- SVP
 - 6 weekends, 2000+ visitors
 - Lecturers drawn from every campus
- Public tours
 - ~20 in 2012, mostly non-UC
- Special Events
 - Solar Eclipse
 - Transit of Venus
 - BBQ with the Stars



- UC Education
 - UCD undergrad intern
 - Grad Workshop 2012
- New Partnerships
 - CSE at SSL
 - Tech Museum (MOU)

Recommendations: Operations

- CAT pilot program
 - Fee-for usage, including UC researchers
- Reduce operations
 - 1 month shut-down
 - 5-6 day work week
- Reduce instruments
 - Retire PF-Cam, Gemini, Nickel spectr.
- Kast-Red upgrade
 - Highest priority
- Solicit funds from Kast
- ToO
 - Align policy with Keck
- LSAP
 - Encourage more projects
- PI Instruments
 - Development: Ask PI's to help support staff
- APF
 - Payback for community

Recommendations: Revenue

- Partnerships/Selling Time
 - Pursue to 33% level
 - Market research
 - APO costs ~\$6,500/night
 - UKIRT ~\$1.2M/yr
 - WIYN, MDM?
 - Preferred partners
 - TMT/Keck partners
 - CSU
- Visitor ideas
 - Amateur experience
 - VIP rooms
 - On-site food vendor
- FOLO
 - Spend new funds where they are highly visible

Recommendations: Engaging UC

- Undergraduate education
 - Intern program
 - Actively encourage tours for UC classes
 - Advertise summer intern program
- Southern campuses
 - Seek donor funds for remote facilities
 - Arrange Lick visits in northern Cali alumni associations
- Instrumentation
 - Generate a more formal solicitation and seeding of projects
 - Lick/SSC?
 - Lick science meeting?
- Improve communication
 - Lick Newsletter
 - UCOAC
 - ??

Lick Workshop: Next steps



- Post (nearly) all materials on the Lick Workshop website
- Act on UCOAC recommended activities
 - CAT program
 - Retiring instruments
 - Seek partners
 - ToO policy
 - Full-speed ahead on Kast-Red (and guider?)
- Generate a report+recommendations document for the UCO Board

Lick Workshop: Informational

Day 1: September 13, 2012

09:00-09:15 Welcome + Introductions + Review of Goals [Marchis/Prochaska/Barth]

09:15-09:15 **Status of Lick Observatory** [Prochaska]

- Telescopes (include stats on usage)
- Instrumentation (include stats on usage)
- Publications
- EP/O summary
- Archiving

09:45-10:15 **Current Operations** [Prochaska + others]

- On-call, instrument changes, OT, remote
- Facilities
- LO Technical staff
- SPG
- Scientific
- UCO Technical
- LOBO
- Budget

10:15-10:30 Break

10:30-11:00 **Future Operations:** Break out groups

- Large programs [Burgasser]
- Innovative scheduling (queue, ToO, remote to laptops) [Barth]
- Reduced operations on the 3m (nights and instruments) [Filippenko]
- New partners (who, fraction of time, how to solicit) [Bolte]

11:00-12:00 Reports on Operations + Discussion

12:00 - 13:00 Lunch

13:00-13:10 Intro to new Instrument/Projects [Prochaska]

3m Instrumentation

13:10-13:30 Shane AO upgrade + IRCAL [Gavel/Rockosi]

13:30-13:50 ARCONS [Mazin]

13:50-14:10 Kast/Red [Holden]

14:10-14:30 Near/IR imaging camera [Burgasser]

14:30-15:00 Discussion

15:00-15:20 Break

8 submitted
white papers

Community
Survey

Small Telescopes

15:20-15:35 Near-infrared SETI Instrument for the Nickel [Stone]

15:35-15:50 Polarimeter [Sloane]

15:50-16:05 Khayyam [Harris]

16:05-16:20 KAIT [Filippenko]

16:20-16:30 Aperture Mask [Ammons]

16:30-17:00 Discussion

APF

17:00-17:30 Presentation + Discussion [Vogt]

17:30 Adjourn

Day 2: September 14, 2012

09:00-09:10 Recap of Day 1 [Barth]

09:10-09:30 E/PO status and future [Prochaska/Max/Peticolas/Zevin]

09:30-09:45 **FoLO** [Kibrick]

09:45-10:00 FoLO Break out

- Board members [Guhathakurta]
- Brainstorm small items for FoLO monies [Lynam]
- Brainstorm large items for FoLO monies [Wareham]
- Engaging the Southern campuses via Development [Fitzgerald]

10:00-10:20 Reports from groups

10:20-10:30 Break

10:30-10:40 Increasing **Usage of LO by UC** [Prochaska, Barth]

10:40-11:15 Break outs

- Small telescope operations [Malkan]
- Undergrad education [Prochaska]
- Instrumentation [Rockosi]
- Long-term Projects [Cooper]
- E/PO [Zevin]

11:15-12:00 Reports + Discussion

12:00-13:00 Lunch

13:00-15:00 Towards Consensus

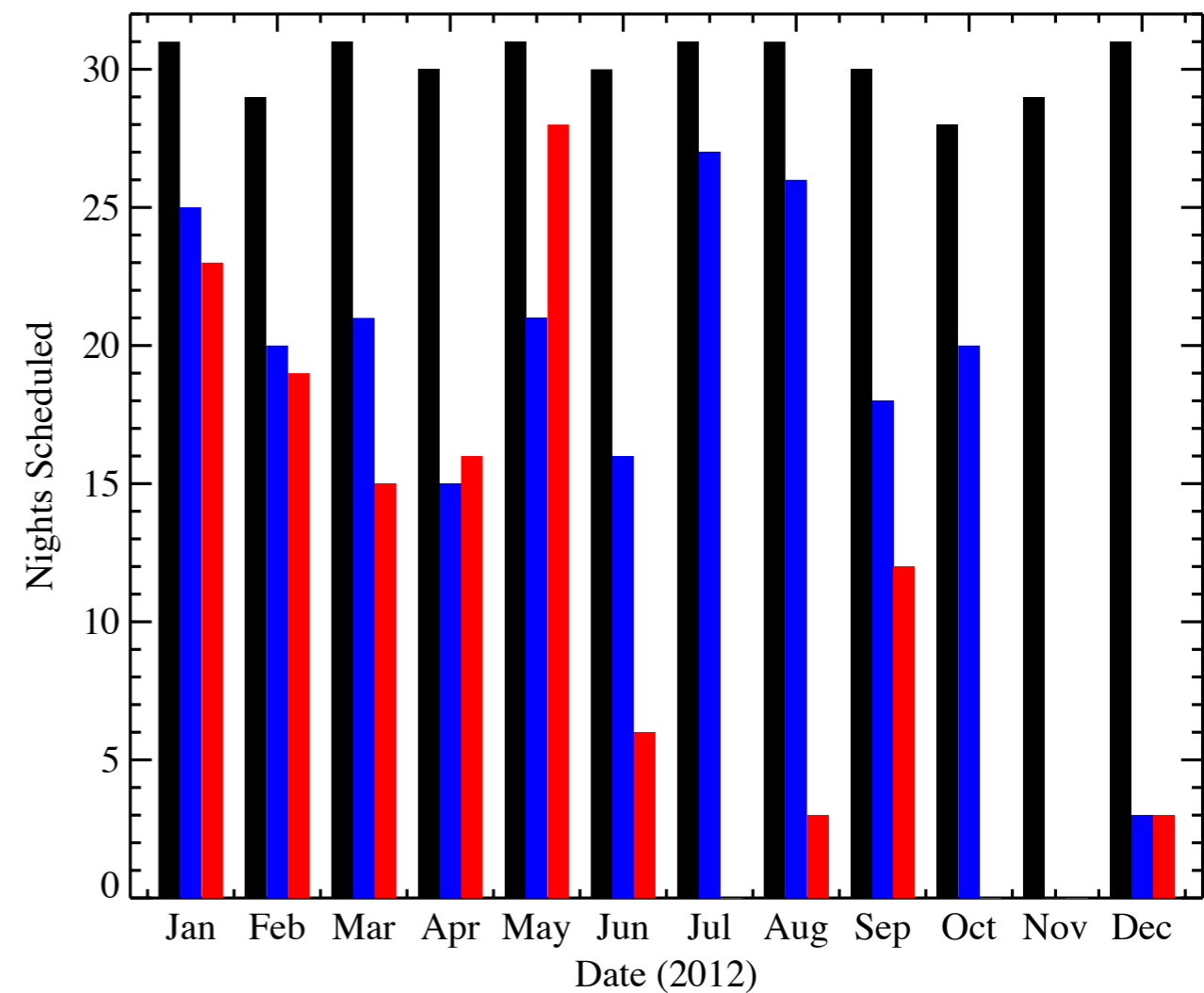
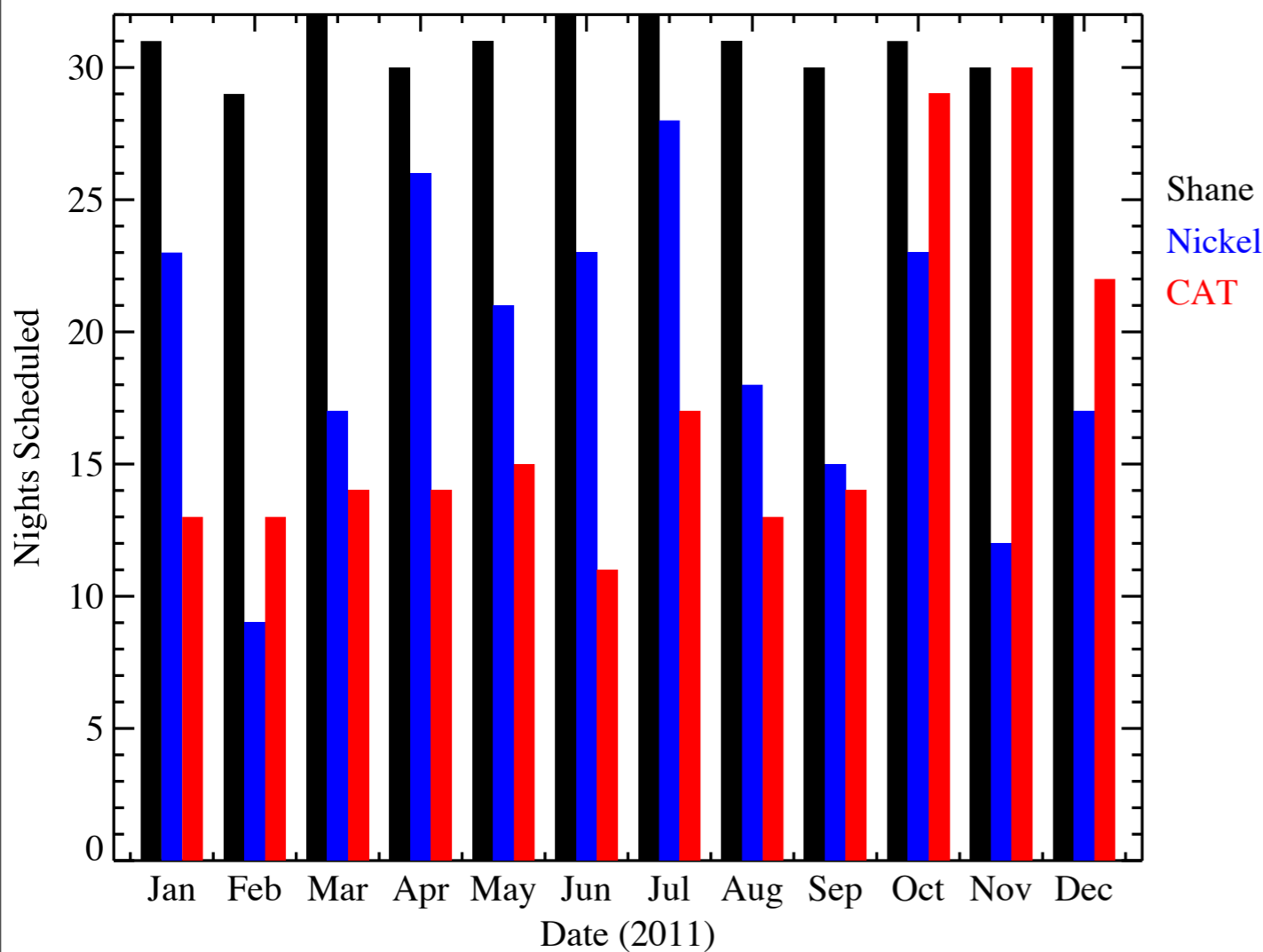
15:00-16:30 Drafting an update to the LO Strategic Plan

16:30 Adjourn

<https://appv3.sgizmo.com/reportsview/?key=125798-1469790-8ae358ccca1442c23a5ea8b814d0d4ed>

Lick Workshop: Current

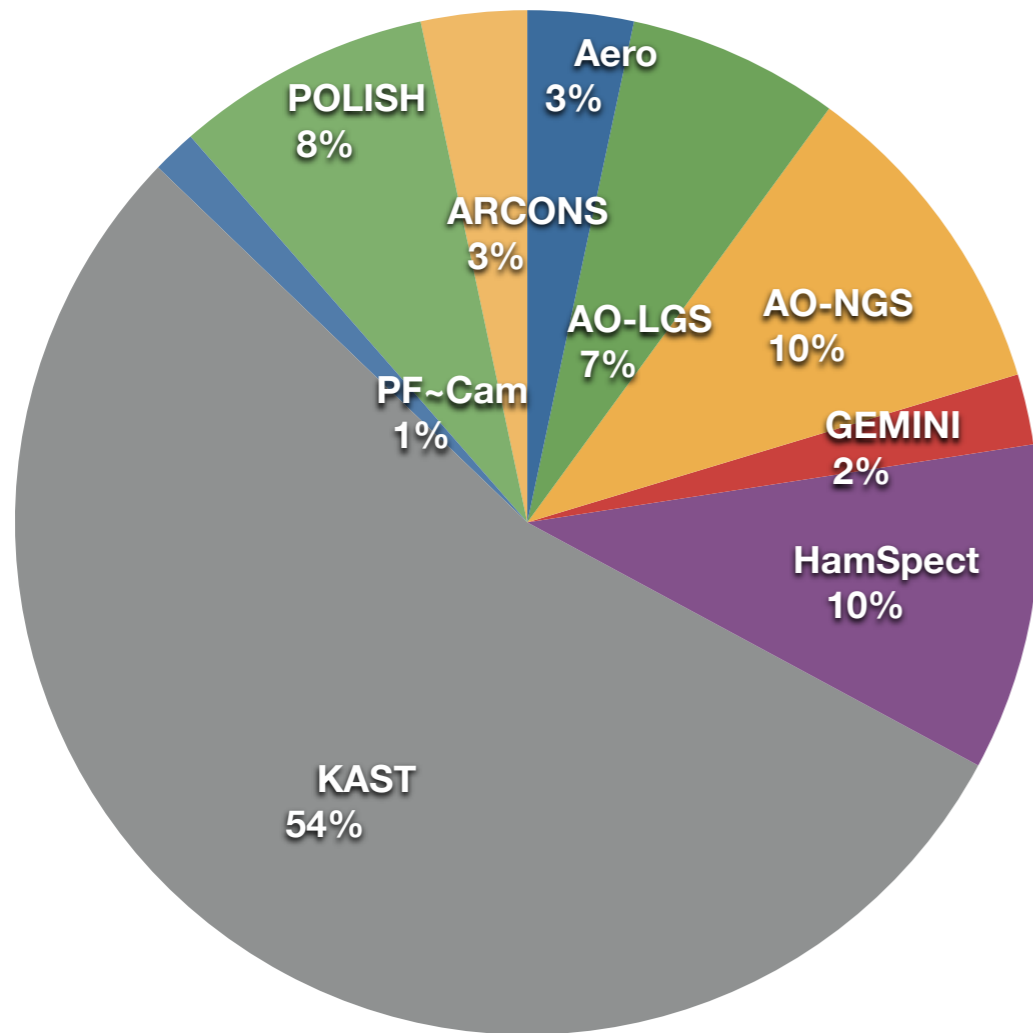
Open-access Telescope Usage



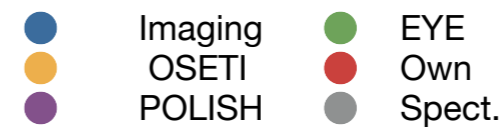
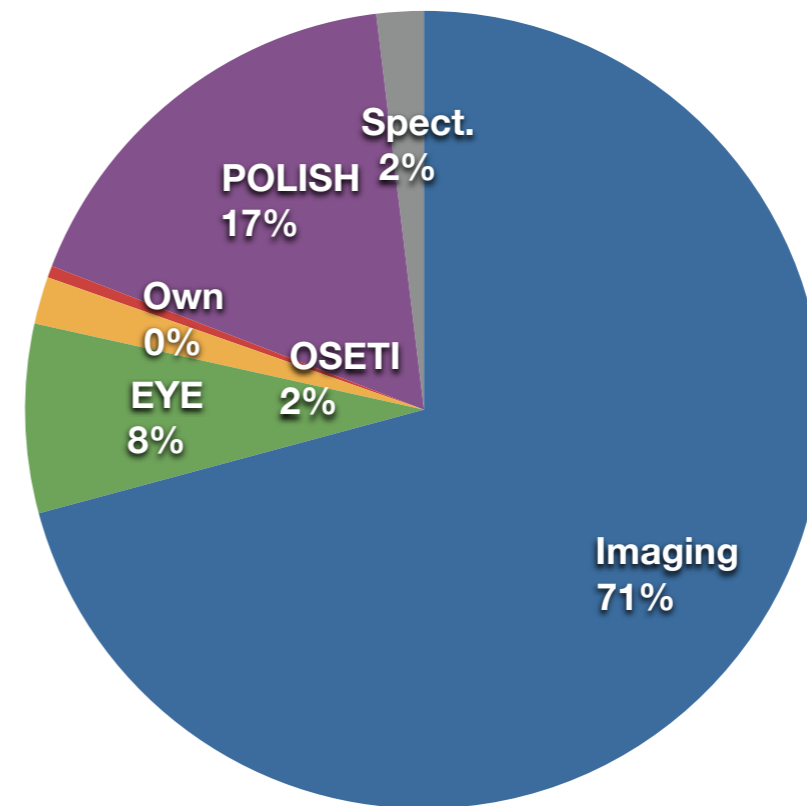
Lick Workshop: Current

Instrument Usage

Shane Instruments (2012)



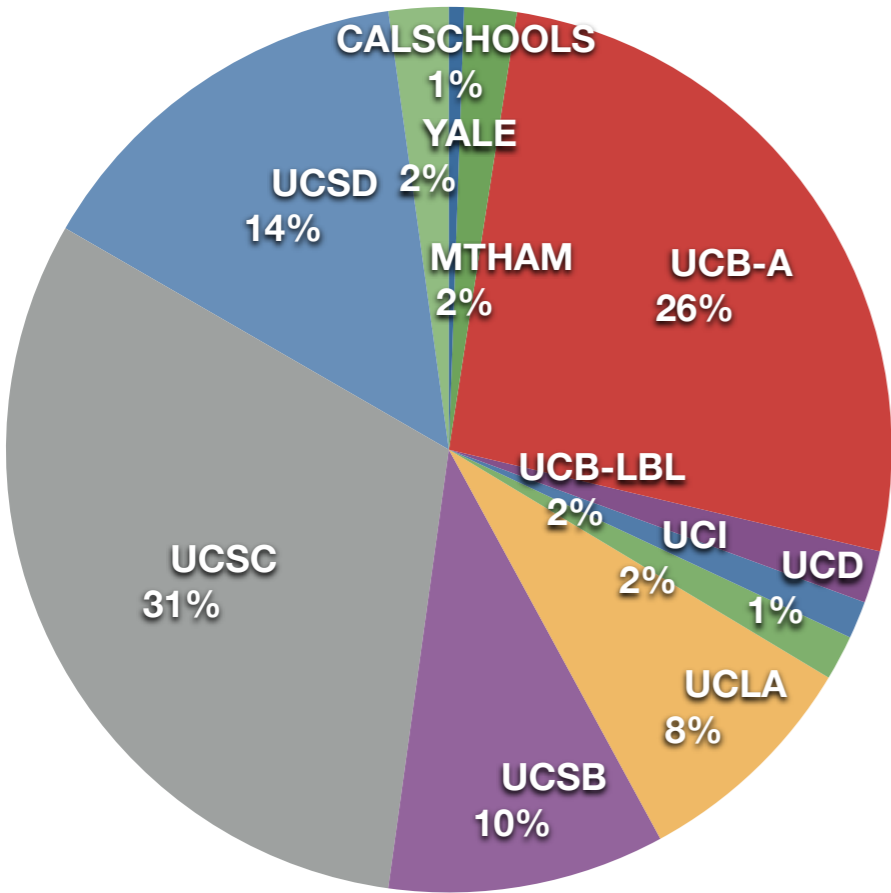
Nickel Instruments (2012)



Lick Workshop: Current

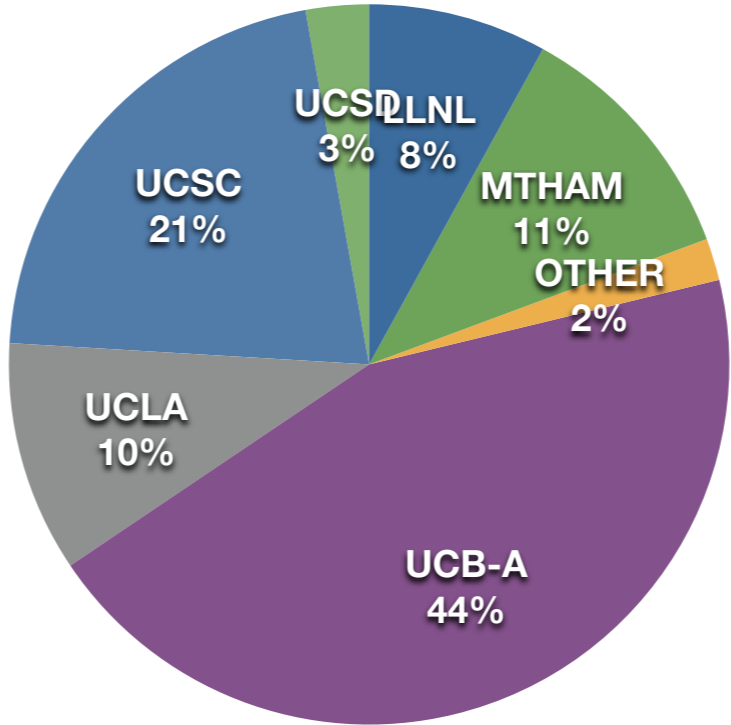
Institutional Usage

Shane Institutional (2012)



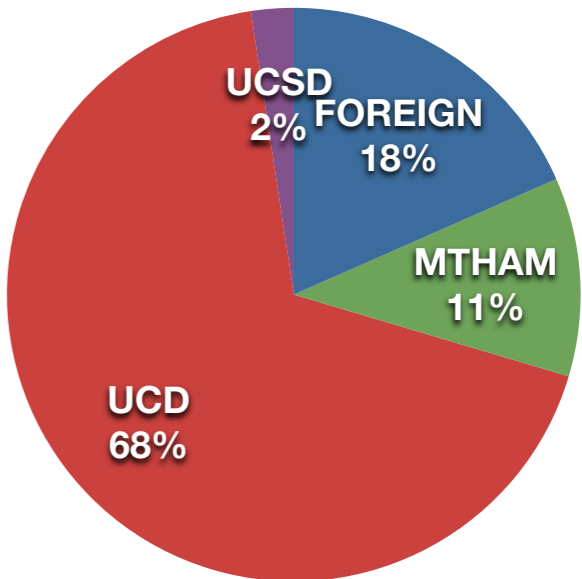
- CALSCHOOLS
- MTHAM
- SETI
- UCB-A
- UCB-LBL
- UCB-SSL
- UCD
- UCI
- UCLA
- UCR
- UCSB
- UCSC
- UCSD
- YALE

Nickel Institution (2012)



- LLNL
- MTHAM
- OTHER
- SETI
- UCB-A
- UCLA
- UCSC
- UCSD

CAT Institution (2012)



- FOREIGN
- MTHAM
- UCB-A
- UCD
- UCSD