



SOML All-hands Meeting

R. Angel & J. Kingsley

April 2, 2008

SOML Conference Room

10:00 AM

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<http://mirrorlab.as.arizona.edu/>

Recent Accomplishments:

- **Successful Completed GMT Generating**
 - LOG upgrade
- **Successfully completed LBT AO Shell #4**
- **Successfully started loose abrasive grinding on GMT**
 - 1.2 m Stressed Lap upgrade
- **Near completion of MAG F/5 Secondary Mirror**
(confirmation measurement in telescope cell)
- **A successful casting of LSST to date**
 - Camera cooling upgrade
 - New tub walls
- **Hosted a spectacular LSST Hi-temp casting event at SOML**
- **Great advancements in human safety at Mirror Lab**
- **Successful aluminizing of a 6.5 m mirror with MMT on first try!**
- **Achieved specification and nearing the goal of the NST off-axis mirror**

Future Work Planned:

- **SPM 6.5 m Mirror** (*Contracted*)
- **Japan 6.5 m Mirror** (*Contract negotiations*)
 - Support system and test in the telescope cell at SOML
 - AO secondary mirror
 - Rigid secondary mirror
- **GMT Off-axis Mirror Segments #2 - #7** (*Negotiating #2*)
- **GMT Center Mirror** (*TBD*)
- **GMT AO Secondary Mirrors** (*TBD*)
- **GMT Primary Mirror Support System Design & Prototype** (*TBD*)
- **LSST Support System Testing in telescope cell** (*TBD, pending schedule*)
- **Possible Planets Primary Mirror** (*copy of NST*)
- **Solar Panel prototyping & initial production** (*Initial funding and follow-up*)



SOML Status

- ◆ Major telescope optics, optics projects and optical systems are happening at SOML.
- ◆ These projects are publicly and privately funded.
- ◆ SOML is pushing the state-of-the-art in optical fabrication with large optics, small and large off-axis optics, and complex optical test systems.
- ◆ SOML has a world class staff and is recognized as a world leader in optical fabrication and metrology.
- ◆ SOML has produced more large optics than anyone else in the world.

The people at SOML have made it “World Class” and will determine its future. The Mirror Lab is full of talented and capable people.

The departure of Steve Miller is presenting a challenge to our organization!

- **He will depart on April 11, 2008 and we will have a lunch party and recognize him for his contributions.**
- **Steve has lead the Mirror Lab and been very involved in the technical aspects of many projects.**
- **The interim plan will be described on following slides.**
- **The principals of the Observatory will analyze this situation, with several options being considered.**

Assignment of Technical Leads on SOML Projects

(The technical lead will be responsible for the technical direction of the project by providing written instructions to the fabrication staff and guiding it to a successful conclusion within budget and schedule constraints.)

#	Project	Technical Lead	Completion Date	Financial Status
1	MODS Red Correctors (<i>S. Miller</i>)	J. Valenzuela	June 2008	FP - Red ¹
2	NST 1.7m Off-axis Mirror	B. Martin	May 2008	FP - Red ¹
3	MAG F/5 Secondary 1.7m (<i>S. Miller</i>)	R. Allen	May 2008	FP - Red ¹
4	LBT AO Shell #5 0.911 m (<i>S. Miller</i>)	J. Valenzuela	December 2008	CR - Black
5	GMT 8.4 m Segment #1	B. Martin	April 2009	FP - Red ²
6	GMT 3.8 m Fold Sphere	B. Martin	April 2008	FP - Red ²
7	GMT 76 cm Small Fold Sphere	J. Valenzuela	May 2008	FP - Red ²
8	LSST 8.4m M1M3 Casting & Cleanout	R. Lutz	December 2008	FP - Black
9	LSST 8.4m M1M3 Metrology	M. Tuell	December 2008	FP - Black
10	LSST Hard Point Wedges Casting	R. Lutz	July 2008	FP - Black
11	6.5 m Optical Test (<i>Restoration</i>)	M. Tuell	May 2008	FP - Black
10	SPM 6.5m Casting	R. Lutz	January 2010	FP - Black

1 - Recover plan is to split deficit with sponsor TBC

2 - Recover plan in process for overall GMT production

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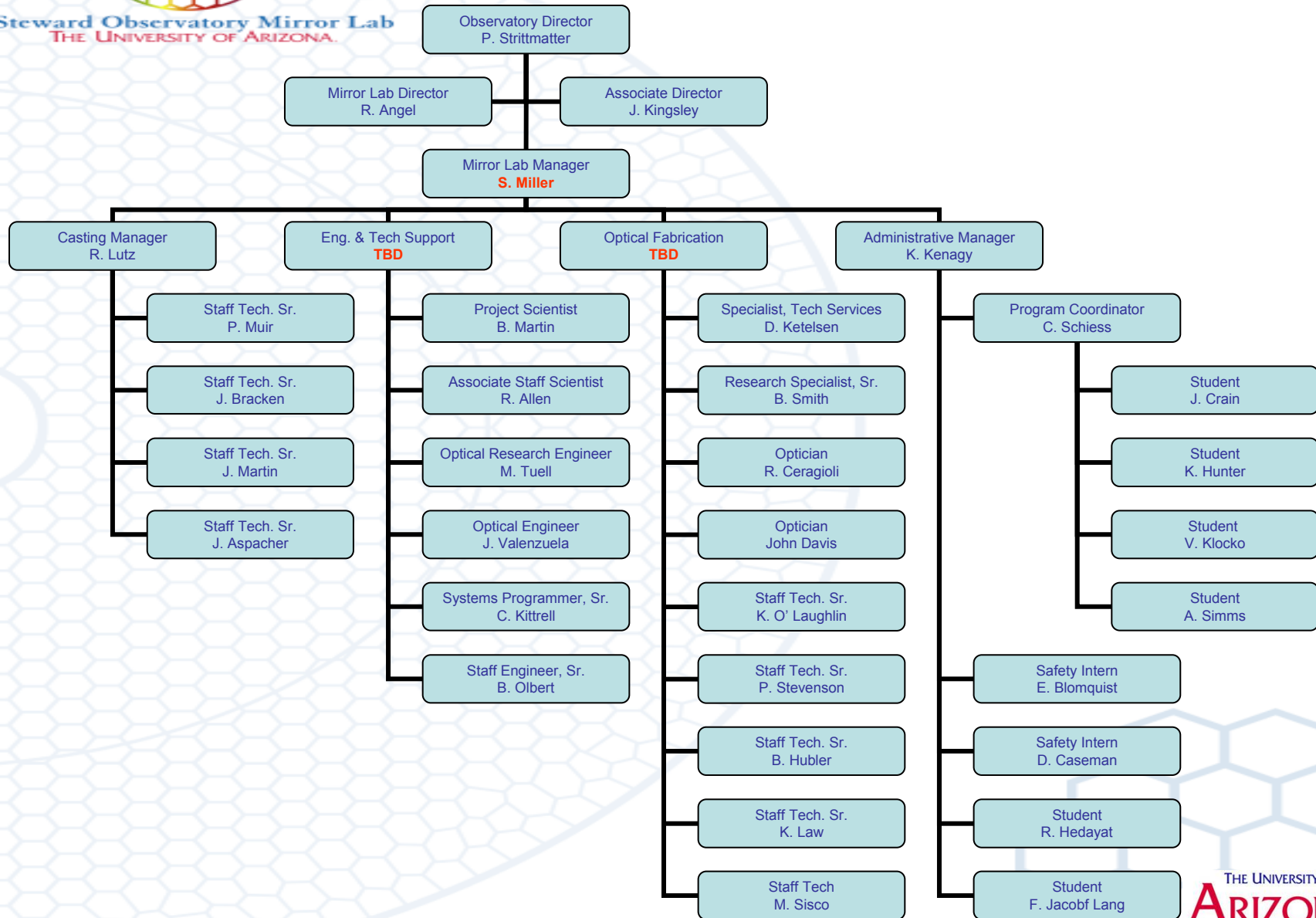
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Current SOML Organization Chart



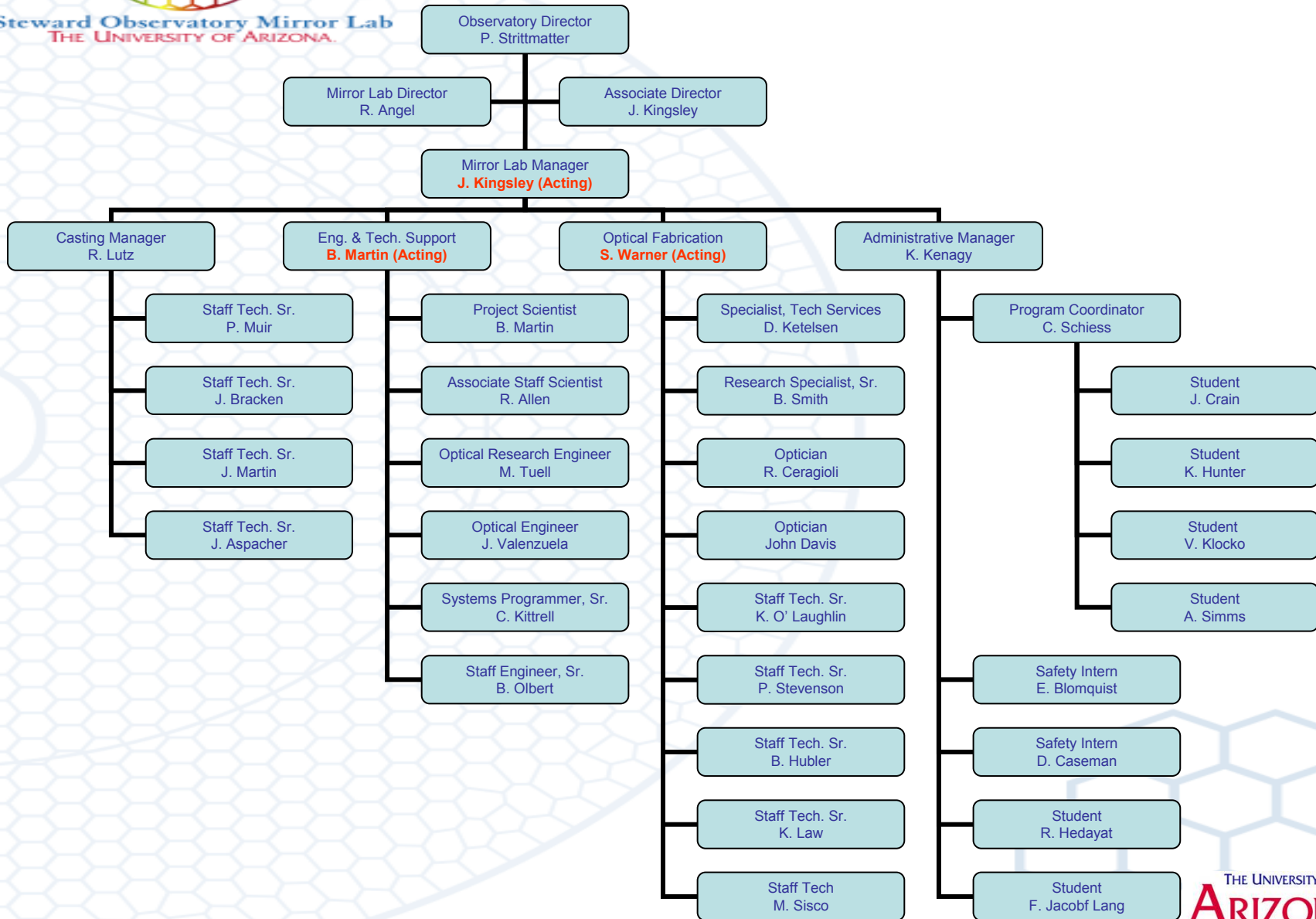
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Interim SOML Organization Chart



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- The plan is to resolve the interim situation in less than 45 days.
- Principals of the Mirror Lab will be consulted in the solution.
- Roger, Peter and Jeff are requesting that the staff let us know about any ideas, candidates, improvements, issues and concerns.

Our goals are to continue the “World Class” status of the Mirror Lab.

- The pursuit of continuous improvement
- Strengthen the financial viability of the Mirror Lab

Questions, comments?