LSST All Hands Meeting
SLAC, December 4-8 2006 (MAP)

Monday, December 4th Plenary Session Day One, Kavli Auditorium

Project Status

1:00	Welcome; Project and MREFC Status	D. Sweeney
1:40	Directors Report	T. Tyson
2:05	Collaboration Status	S. Kahn
2:30	Science Collaborations Part 1 *Supernovae*: M. Wood-Vasey; *Transients*: S. Kulkarni; *Weak Lensing*: D. Wittman; *Solar System*: S. Chesley; *Stellar Populations*: A. Saha	
3:20	Break	

System Overview & Performance

3:35	Operations in Chile	C. Smith
4:05	System Overview	C. Claver
4:35	System Calibration	D. Burke
5:05	Adjourn Day 1	
6:00	EPO Working Dinner	SLAC Cafeteria

Tuesday, December 5th Plenary Session Day Two, Kavli Auditorium

LSST Reference Design

8:00	Education and Public Outreach	S. Jacoby
8:25	Telescope & Site	V. Krabbendam
9:10	Discussion	
9:30	Camera	K. Gilmore
10:15	Discussion	
10:35	Break	
10:50	Data Management	J. Kantor
11:35	Discussion	
11:55	Lunch	
1:00	Astrostatistics	E. Feigelson
1:15	Science Collaborations Part II *AGN*: N. Brandt; *Galaxies*: E. Gawiser; *Milky Way*: C. Rockosi; *Strong Lensing*: P. Marshall; *Large Scale Structure*: H. Zhan	
2:05	LSST Survey Strategy	Z. Ivezic
2:45	Discussion	
3:05	Break	
3:25	Cadence Simulator Design Results	K. Cook
4:05	Discussion	
4:25	Breakout Session Preview - 2 minutes each	All
4:55	Concluding Comments	D. Sweeney
5:10	Adjourn Day 2	
6:15	Reception	Kavli Lobby and Patio

Large Synoptic Survey Telescope

LSST All Hands Meeting
Break-Out Sessions, December 6,7,8, 2006

Teleconference Dial In 1-866-330-1200

Wednesday 12/6		**2nd Floor Conference Room Room 222, Bldg 51 Participant Code 420-3651**	**3rd Floor Conference Room Room 305, Bldg 51 Participant Code 901-2544**	**Room 207, Bldg 51 Participant Code 452-8979**	**GLAST I Conf. Room Bldg 28 Participant Code 600-2320**
	8:00	**Survey Strategy** **Z. Ivezic** LSST Survey Sky Coverage: definition, exclusion zones, high priority regions, etc.	**Predicting Data Access** **J. Kantor** Review predicted access patterns and volumes of LSST data once the telescope is operational. Validate expected workloads from both professional and EPO users. Validate interfaces in DM System to support each. (Agenda)	**DAQ/DM Interfaces** **T. Schalk** Understanding metadata and timing access.	*9 – 10 am tour of bldg 33 (will end up in bldg 28 at Camera Metrology)* **Dave Rich**
	10:00		**Advanced Computer Architectures for LSST** **R. Pennington** Identify promising computer architectures that will be on the market by LSST.		**Camera Metrology** **R. Schindler**
	1:00	**Commissioning and Science** **Z. Ivezic** Synergy of commissioning LSST and programs for early science, especially those that exercise the LSST toward survey operations that enable science that cannot be done with the regular survey.	**Calibration** **D. Burke** The goal of this break-out session is to review the reference design for the LSST calibration process, and to discuss the work that needs to be done in the next year to continue its development. This will include discussion of existing calibration strategies and data sets, potential dedicated observing campaigns, and development of algorithms and simulations that support the design work. (Agenda)	**Camera Corner Raft Development & Implementation** **S. Olivier** Mechanical, Electrical WFS, Guider	

LSST All Hands Meeting
Break-Out Sessions, December 6,7,8, 2006

Thursday, 12/7		**GLAST I Conference Room Bldg 28 Participant Code 600-2320**	**2nd Floor Conference Room Room 222, Bldg 51 Participant Code 420-3651**	**Kavli Auditorium Bldg 51**	**Room 207, Bldg 51 Participant Code 452-8979**	**Room 114, Bldg 51 Participant Code 998-0025**
	8:00	**System Interfaces & System Engineering** **C. Claver, M. Nordby, J. Sebag** Camera to Telescope; Camera to Facility; Facility Database. Requirements Flow-Down Planning; LSST System Engineering Planning; Image Quality.	**From OpsSim to Scheduler** **K. Cook, A. Saha** Develop a strategy for moving the current OpsSim (cadence simulator) from its current state towards a true scheduler.	**Image Simulation** **P. Pinto**	**Sensor Working Group** **K. Gilmore** Development of Sensor Prototype Strategy.	
	10:00				**Sensor Working Group Executive Session** **K. Gilmore**	**Mountain Data Flow** **G. Schumacher** Understanding metadata and timing access.
	1:00	**Telescope & Site Group Meeting** **V. Krabbendam**	**DM Prototyping Platform** **T. Axelrod** Session for DC2 software developers. We will discuss: plans for DC2; details of software build and deployment system, coding and documentation standards; design of framework classes.	**Camera R&D** **K. Gilmore** Quality time to go over the R&D effort and plan our strategy to define CD-1 about this time next year.		
	4:15			**ACKS Seminar** **Dr. Claire Juramy**		
Friday 12/8	**8:00**				**Camera Electronics** **J. Oliver** **Location TBD**	

LSST All Hands Meeting
Science Friday: December 8, 2006
Science Advisory Council (SAC) and Science Collaboration Teams (SCT)

8:00	**SAC Executive Session** 2nd Floor Conference Room, Bldg 51 (Kavli)	**Z. Ivezic**	This group meets for two hours; M. Strauss leaves after first hour for Science Collaboration Teams Subgroup Meeting.
9:00	**SCT Chairs Subgroup Meeting** 3rd Floor Conference Room, Bldg 51 (Kavli)	**M. Strauss**	Discussion Topics: ▪ Opening the collaborations to the broader scientific community: timing, criteria, application process, input from the existing collaborations, and so on. ▪ Funding. Basic issues like phonecons, travel, and longer-term ideas on how to raise funds. ▪ How to get existing members actively involved. ▪ Presenting the collaborations to the world: upcoming AAS meeting.

Remainder of Day: SAC and SCT Joint Meeting, Kavli Auditorium

10:00	**Introduction**	**M. Strauss**	Introductions all around: scope of the science collaborations; their rights and responsibilities, and how they might fit in.
10:15	**Operations Simulator**	**K. Cook**	We need to give the chairs a sense of what this is about, as it is core to so much of what follows. Perhaps rather than spend time here, we could have some sort of basic introductory primer which we would ask people to read.
11:00	**Basic Cadence Issues**	**Z. Ivezic & T. Tyson**	A description of the default cadence. Nominal depth in each filter. Tradeoff between default, 15-second visits and longer visits for SN, KBOs. Tradeoff between 20,000 deg^2 and 30,000 deg^2 surveys, with emphasis on solar system and Galactic structure studies for the latter. Coverage and cadence at low latitudes. Required depths for weak lensing.
11:45	**Lunch**		
12:45	**Hardware**	**C. Claver & S. Kahn**	Slew and settle times. Filter change times; number of filters in the camera and the effect on cadence. Design of filters, especially Y. Are there still unsettled issues on charge transfer, other CCD issues?

1:30	**Data Management**	**T. Axelrod**	Algorithm development: how the science collaborations can help; What needs to be done. Distinction between survey pipeline code and science software: who's responsible for what, what code is public, what the standards are. A common environment for doing analyses: data models; coding standards, databases, etc. Pinto: Discussion of simulations: what is needed? What do the science collaborations want/need? How can they help? (No doubt there are plenty of other things that belong here)
2:15	**Auxiliary Data**	**T. Tyson**	What Pan-STARRS (and other earlier surveys) might give. Calibrating photometric redshifts Kulkarni, Rosing: Follow-up of transients, Spectroscopic follow-up of SN?
3:00	**Calibration**	**D. Burke, C. Stubbs, & D. Monet**	Goals for astrometry, photometry, and PSF. What science needs what? Hardware issues: Flat-fielding, calibration of throughput, monitoring of atmosphere. Software issues Cadence issues Tying to other surveys, especially Pan-STARRS
3:45	**Closing Comments**	**M. Strauss**	