

2011 CfAO Fall Science Retreat and Workshops

Wednesday, 9 November 2011 ~ Laser Workshop			
Time	Activity	Speaker	Room
11:00 - 12:45 PM	Laser Workshop Registration and Check-in		Main Lobby
<p style="text-align: center;"><i>CfAO Sponsored Workshop:</i> Laser Technology and Systems for Astronomical Adaptive Optics</p> <p style="text-align: center;">http://lao.ucolick.org/LaserWorkshop/2011/</p>			Pineview
<p>This is a topical workshop where we will address the following areas of interest to the laser guidestar community:</p> <ul style="list-style-type: none"> • Sodium guidestar return modeling and measurements • Theory of pulsed laser excitation of sodium and preferable laser formats • Sodium return and laser efficiency measurement standards (photometry, receiver filters, number of measurements and averaging, normalizing for latitude and seasonal variation, etc) • On-telescope commissioning experience • Approaches to laser beam transport including beam relay optics, fiber optics, and launch telescopes design • Laser safety, aircraft and satellite predictive avoidance measures, coordination with aviation and space authorities • Reports from laser suppliers 			
1:00 - 3:00	LGS Systems: Status Updates Gemini Observatory / GEMS Keck Observatory (WMKO) European Southern Observatory (ESO) UC Observatories (UCO) Steward Observatory (GMT, LBT) Thirty Meter Telescope (TMT) Air Force Research Laboratory (AFRL)		Pineview
3:00 - 3:30 PM	Coffee Break		Hallway
3:30 - 6:00	LGS Systems Modeling Return Flux of Pulsed Sodium Laser Guide Star Modeling of Laser Guide Stars for Lick Observatory Modeling return flux with pulsed lasers for TMT	Ron Holzloehner Rachel Rampy Simon Rochester	
6:30 - 8:00 PM	Dinner (<i>Laser Workshop Attendees Only</i>)		Dining Room
8:00 - 10:30 PM	Social		Lakeview

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Thursday, 10 November 2011 ~ Laser Workshop			
Time	Activity	Speaker	Room
8:00 - 8:45 AM	Breakfast <i>(Laser Workshop Attendees Only)</i>		Dining Room
9:00 - 10:00 AM	Laser Safety and Predictive Avoidance Predictive Avoidance Importance Laser Clearing House and Predictive Avoidance System The LCH Blanket Closure Impact on Keck LGSAO Science	Julian Christou Moderator Joe Janni Heather (Lehman) Witts Deputy Chief, DE Branch JFCC SPACE/J95 Unified Space Vault Randy Campbell	Pineview
10:30 - 11:00 AM	Coffee Break		Hallway
11:00 - 12:00	Laser Safety and Predictive Avoidance Continued discussion and Q&A		Pineview
12:00 - 1:00 PM	Lunch <i>(Laser Workshop Attendees Only)</i>		Dining Room
1:30 - 3:00 PM	Laser Systems FASORtronics AFRL Laser Field Test of a Mobile 20W cw LGS Unit	Craig Denman Jeff Baker Harold Miller Ron Holzloehner	Pineview
3:00 - 3:30 PM	Coffee Break		Hallway
3:30 - 5:30 PM	Wrapup Discussion / Future Directions		Pineview
5:30 PM	Laser Workshop Concludes		

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Posters			
Time	Title	Author	Room
Each evening			Lakeview
	Implementing Digital Feedback Controls for the Multiple Simultaneous Ring Cavities in the FASOR-X System	Jeffery Baker	
	18 W acoustically tailored polarization-maintaining Raman fiber amplifier for guide star application	Iyad Dajani	