

CfAO FALL RETREAT AGENDA

Thursday, November 16, 2006

Time	Activity	Speaker	Room
3:30-5:00 PM	CfAO Registration		Foyer
4:00	Begin to Set up Posters		Counties
4:00	Room Check-in Begins		
4:30 - 5:30	Reception		Foyer, Counties
6:00 PM	Dinner		Salons 1 & 2
7:30 PM	Plenary Session - Optical Tricks to Find Planets Around Stars in Our Neighborhood	Oliver Guyon	Salons 1 & 2

Friday, November 17, 2006

Time	Activity	Speaker	Room
8:00 - 8:30	Breakfast		Foyer/Salon 1 & 2
8:30 - 8:45	Opening Comments	Claire Max	Salons 1 & 2
Parallel Sessions			
8:45 - 10:45	Bioengineering Research Partnership	David Williams - Organizer	Salon 3
	Science with Adaptive Optics		Salon 4
	8:45 <i>Solar System AO: Spaceships Can't Do Everything!</i> <u>Stellar Astronomy</u>	Conor Laver	
	9:00 <i>PSF reconstruction for AO photometry and application to the stellar content of local group galaxies</i>	James Graham	
	9:15 <i>Keck AO data and new analysis methods on debris disks</i> 9:30 <i>Adaptive Optics Studies of Low-Mass Binary Stars</i> 9:45 <i>Kinematic Study of High Redshift Star Forming Galaxies</i> <u>Galactic Center</u>	Mike Fitzgerald Quinn Konopacky Shelley Wright	
10:00 <i>The Arches: A young cluster at the Galactic center</i> 10:15 <i>Ages of Young star clusters in NGC 6240</i> 10:30 <i>Recent Results from the Center for Adaptive Optics Treasury Survey, Including Observations of a z=1.3 Supernova</i>	Andrea Stolte Claire Max David Koo		
	Education <i>Professional Development Program - Core Planning Meeting (closed)</i>	Lisa Hunter	Counties
10:45 - 11:00	Coffee Break		
11:00 - 12:00	Science with Adaptive Optics		Salon 4
	AO Users Session	David Le Mignant, Session Lead	
	<ul style="list-style-type: none"> • <i>AO Imaging and astrometry</i> • <i>Spectral Imaging in crowded fields</i> • <i>High contrast spectral imaging: the case of GQ Lup</i> 	Jessica Lu Tuan Do Michael McElwain	
	Education <i>Open Time for Education Discussions</i>	Lisa Hunter	Salon 4
12:00 - 1:00	Lunch		Salons 1 & 2
1:00 - 2:00	Free Time		
2:00 - 3:30	Bioengineering Research Partnership (continued)	David Williams - Organizer	Salon 3
	Future AO Systems (Astronomy)	Don Gavel, Session Lead	Salon 4
	<u>Thirty Meter Telescope</u>	Brent Ellerbroek, Glen Herriot	
2:00 <i>TMT AO systems - update on designs & capabilities - NFIRAOS (and LGSF) designs and AO performance estimates</i> 2:20 <i>Recent Updates on TMT Simulation Tools</i> 2:40 <i>Sodium altitude tracking</i>	Brent Ellerbroek, Glen Herriot Luc Gilles, Brent Ellerbroek Glen Herriot		

(continues on next page)

Friday, November 17, 2006 (continued)

Time	Activity	Speaker	Room
Parallel Sessions			
	<p>TMT AO technology efforts</p> <p>3:00 <i>Elongated LGS wavefront sensor development</i></p> <p>3:15 <i>Multi Conjugate Adaptive Optics from 8 meters to thirty, Current progress on the LAO MCAO/MOAO testbed</i></p>	<p>Sean Adkins, Sandrine Thomas</p> <p>Mark Ammons & Eddie Laag</p>	
	<p>Education</p> <p><i>Open time for discussions</i></p>	Lisa Hunter	Counties
3:30 - 3:45	Coffee Break		
Parallel Session			
3:45 - 6:00	Biomedical Research Program (continued)	David Williams -	Salon 3
	<p>Future AO Systems (Astronomy)</p> <p><u>Keck Next Generation Adaptive Optics</u></p> <p>3:45 <i>Concepts for Keck next generation AO</i></p> <p>4:00 <i>TBD</i></p> <p>Other upgrade projects and on-sky experiments</p> <p><u>Keck</u></p> <p>4:15 <i>Keck Wavefront Controller Upgrade Progress</i></p> <p>4:30 <i>Modeling low order aberrations in LGS AO systems</i></p> <p><u>Palomar</u></p> <p>5:00 <i>Palomar Laser Guidestar Results</i></p> <p>5:15 <i>NGS Low Order Wavefront Sensor</i></p> <p>5:30 <i>Phase Retrieval Results at Palomar</i></p> <p>4:45 <i>Optimal Faint Object AO</i></p> <p><u>Lick</u></p> <p>5:45 <i>Wavefront Sensor Upgrade, Visible Light Laser Guidestar Experiments</i></p>	<p>Don Gavel Keck NGAO Team</p> <p>Marcos van Dam Richard Clare</p> <p>Antonin Bouchez Jenny Roberts Sidd Bakenaver Chris Shelton</p> <p>Dave Palmer & Ellie Gates</p>	Salon 4
	<p>Education</p> <p><i>Open Time for discussions</i></p>	Lisa Hunter	Counties
06:00	Dinner		Salons 1 & 2

Saturday - November 18, 2006

Time	Activity	Speaker	Room
8:00 – 8:30	Breakfast		Salons 1 & 2
Parallel Session			
8:30 – 10:10	Vision Science - Session 1 8:30 <i>Imaging the Macula in Patients with Inherited Retinal Disease</i> 8:50 <i>AOSLO Imaging of Eye Disease</i>	David Williams Jacque Duncan Sandra Joeres	Salon 3
	Vision Science - Session 2A - Retinal Anatomy/Physiology 9:10 <i>Ganglion Cell Dendrites Revealed by Adaptive Optics Fluorescence</i> 9:30 <i>Laser Damage Observed with Fluorescence Imaging in the Rochester</i>	Dan Gray Jessica Wolfing	
	Extreme Adaptive Optics 8:30 <i>ExAO calibration interferometer testbed</i> 8:45 <i>Coronagraphy modeling</i> 9:00 <i>Subaru ExAO plans</i> 9:20 <i>Wavefront propagation effects</i> 9:35 <i>ExAO contrast on segmented telescopes</i> 9:50 <i>High Contrast Coronagraphy and Extreme Adaptive Optics Experiments at Palomar</i>	Anand Sivaramakrishnan Kent Wallace Remi Soummer Olivier Guyon Christian Marois Ian Crossfield Gene Serabyn	Salon 4
	Education 8:30 <i>Big Island Education Programs: Past, Present, Future</i>	Lisa Hunter, David Le Mignant Sarah Anderson	Counties
10:10 - 10:30	Coffee Break		
Parallel Sessions			
10:30 - 12:00	Vision Science - Session 2B 9:50 <i>Volume Imaging of Anterior Retina with Adaptive Optics Spectral-domain OCT</i> 10:50 <i>Current state of polarization sensitive OCT system in Indiana</i> 11:10 <i>An Investigation of Functional Imaging of Cone Photoreceptors Using an Adaptive Optics Flood Illuminated Camera</i> 11:30 <i>Measuring Intrinsic Retinal Signals with AOSLO</i> 11:50 <i>Real-time image stabilization and stimulus delivery</i>	Yan Zhang Barry Cense Ravi Jonnal Kate Grieve Qiang Yang	Salon 3
	Wavefront control 10:30 <i>Predictive control</i> 10:50 <i>Predictive Fourier wavefront control</i> 11:20 <i>Wavefront amplitude and phase correction under broadband conditions for the shaped pupil coronagraph</i> 11:50 <i>Fast Reconstructor Architecture</i>	Dave Palmer, Session Lead Luke Johnson Lisa Poyneer Amir Giveon Don Gavel. Marc Reinig	
	Education <i>Curriculum Development for AO Demonstrators</i>	Lisa Hunter	Counties
	12:00 - 1:00	Lunch	
1:00 - 5:30 PM	Free Time		
6:00 PM	Dinner		Salons 1 & 2
7:30 PM Plenary Session			
	<i>Non Astronomical Adaptive Optics</i>	Chris Dainty	Salons 1 & 2

Sunday, November 19, 2006 (PM)

Time	Activity	Speaker	Room
Parallel Sessions			
12:00	BOXED LUNCH		
12:00 - 3:00	Business Lunch and EAB Meeting		Board Room
1:00 - 5:00	Workshop on Laser Guidestar Development <ul style="list-style-type: none"> • <i>LGS AO systems status</i> • <i>Review and discussion of ongoing Laser development efforts</i> • <i>Understanding Laser to Sodium Coupling Physics and relation to pulse format; Measurements of Sodium layer return</i> • <i>Discussion of plans for laser development</i> See: http://lao.ucolick.org/twiki/bin/view/CfAO/CfAOFallRetreat2006		Parkside
	Education <i>PDP Core Meeting (Continued)</i>	Lisa Hunter	Mariposa
06:00	Dinner at Jackalope's Bar & Grill		Salons 1 & 2

Laser Workshop Attendees	Dee Pennington/Jay Dawson (Lawrence Livermore) Ed Kibblewhite/Rich Dekany (Palomar Observatory) Allen Tracy (Lockheed Martin Coherent Technologies) Craig Denman/Paul Hillman/Bob Fugate (US Air Force Starfire Optical Range) Domenico Bonaccini (European Southern Observatory) Donald Gavel/Daren Dillon (UC Santa Cruz)
--------------------------------	--

Monday, November 20, 2006

Time	Activity	Speaker	Room
8:00 - 8:30	Breakfast at the lodge restaurant		Parkside
8:30 - 12:00	Workshop on Laser Guidestar Development (continued)		
1:00 PM	LUNCH and Adjourn		Parkside