

# CfAO Fall Retreat 2009

Thursday, 5 November 2009			
Time	Activity	Speaker	Room
3:30 - 5:00 PM	<b>Retreat Registration &amp; Room Check-in Begins</b>		Main Lobby
5:00 - 6:00	<b>Reception</b>		Lakeview
6:30 - 7:30	<b>Dinner</b>		Dining Hall
7:45 - 8:45	<b>Keynote Speaker:</b> Images of Other Solar Systems	Bruce Macintosh	Pineview
8:45 - 10:00	<b>Social</b>		Lakeview

Friday, 6 November 2009			
Time	Activity	Speaker	Room
8:00 - 8:30 AM	<b>Breakfast</b>		Dining Hall
<b>Retrospective Plenary Sessions</b>			
8:30 - 9:00	<b>Ten years of CfAO</b>	Claire Max	Pineview
9:00 - 10:00	<b>Outcomes from 10 Years of CfAO Education</b>	Lisa Hunter	Pineview
10:00 - 10:30 AM	<b>Coffee Break</b>		Skyview
10:30 - 11:30	<b>Extremely Large Telescopes Retrospective</b> 10 years of Planetary Science Adaptive Optics Technology 10 yrs of Advancement Tomography AO Systems: Implications for Astronomy Progress towards Multi-Conjugate AO over the Last Decade	Moderator - Don Gavel Imke de Pater Donald Gavel Mark Ammons Brent Ellerbroek	Pineview
12:00 - 1:30 PM	<b>Lunch</b>		Dining Room
2:00 - 3:00	<b>Extreme Adaptive Optics Retrospective</b> ExAO and Disks Around Stars ExAO Technology Development ExAO systems: from Year 1 to the Gemini Planet Imager	Moderator - Bruce Macintosh Mike Fitzgerald Lisa Poyneer Bruce Macintosh	Pineview
3:00 - 3:30 PM	<b>Coffee Break</b>		Skyview
3:30 - 4:30	<b>Ten Years of (Cf)AO in Vision Science</b> Ten Years of AO for Vision Science Ten Years of AO Instrumentation Ten Years of AO for Clinical Applications	Moderator: Austin Roorda David Williams Donald Miller Austin Roorda	Pineview
4:30 - 5:50	Poster Pops	All Poster Presenters	
6:30 - 7:30 PM	<b>Dinner</b>		Dining Hall
8:00 - 10:00 PM	<b>Social</b>		Lakeview

# CfAO Fall Retreat 2009

Saturday, 7 November 2009			
Time	Activity	Speaker	Room
8:00 - 9:00 AM	<b>Breakfast</b>		Dining Hall
<b>Parallel Sessions</b>			
9:00 - 10:30 AM	<b>Vision Science</b>	Moderator - Don Miller	
9:00 - 9:15	<b>New Technology</b> Advanced AO System Design	Alf Dubra	Pineview
9:15 - 9:30	AO-OCT & AO-SLO @ UCD	Robert Zawadzki	
9:30 - 9:45	Dual DM Control for an AO System	Chauhong Li	
9:45 - 10:00	<b>New Results</b> Spatiotemporal Analysis of Leukocytes in Retinal Capillaries	Moderator - David Williams Johnny Tam	
10:00 - 10:15	Measuring Renewal of Cone Outer Segment Disks	Ravi Jonnal	
10:15 - 10:30	Eye Tracking and Stimulus Control in AOSLO	Qiang Yang	
9:00 - 10:30 AM	<b>Astronomical AO Science</b>	Moderator - Bruce Macintosh	
	An AO Search for Brown Dwarfs in the Haydes The Power of NIRSPA0-LGS: A Keck AO Monitoring Campaign of Very Low Mass Binaries Galaxy Dynamics and weak AGN in the Early Universe Using AO to Probe Black Holes and Galaxy Evolution Increasing the Scientific Return of Stellar Orbits at the Galactic Center	Katie Morzinski Quinn Konpacky Shelley Wright Anne Medling Sylvana Yelda	Lakeview
10:30-11:00 AM	<b>Coffee Break</b>		Hallway
11:00 - 12:00	<b>Vision Science (continued)</b>	Moderator - Don MacLeod	Pineview
	<b>Vision and Adaptive Optics</b> Using Power Fittings for Visual Quality Metrics to Better Predict Visual Acuity Limits of Foveal Vision The Use of Adaptive Optics to Understand the Optical & Neural Contributions to Visual Performance Hybrid AO Visual Stimulator	Adam Hickenbotham Ethan Rossi Ramkumar Sabesan Silvestre Manzanera	
11:00 - 12:00	<b>Astronomical Adaptive Optics</b>	Moderator - Don Gavel	
	Minimum Variance Split Tomography for MCAO and MOAO on ELTs Advances in MEMS Deformable Mirror Development Segmented MEMS DM System Development Update	Luc Gilles Steven Cornelissen Carl Kempf	Lakeview
12:00 - 1:30 PM	<b>Lunch</b>		Dining Hall

# CfAO Fall Retreat 2009

## Saturday, 7 November 2009 (continued)

Time	Activity	Speaker	Room
2:00 - 3:30 PM	<b>Adaptive Optics Imaging of Animal Models</b> Humans and Animals are Similar, But Different In Vivo Imaging of the Lamina In Vivo Two-photon Retinal Imaging Transduction of Macaque Inner Retina by Intravitreal Injection of AAV	Moderator - Melanie Campbell  Melanie Campbell Kevin Ivers Jennifer Hunter  Lu Yin	Pineview
2:00 - 3:30	<b>Wavefront Control and AO Systems</b> Status of PALM3000 & the 3388-actuator Xinetics DM Palomar WCS Status GPI Algorithm Validation on the LLNL Testbed Robtic Laser AO System for Small Telescopes High Sensitivity Wavefront Sensing	Antonin Bouchez Gene Serabyn Lisa Poyneer Christoph Baranec  Don Davel	Lakeview
3:30 - 4:00 PM	<b>Coffee Break</b>		Hallway
<b>Plenary Sessions</b>			
4:00 - 5:30 PM	Extreme AO for Vision Science  Future of Deformable Mirrors	Scot Olivier, Bruce Macintosh  Alf Dubra, Don Gavel, Austin Roorda	Pineview
6:30 - 7:45 PM	<b>Dinner</b>		Dining Hall
7:45 - 10:00 PM	<b>Social + Posters</b>		Lakeview

# CfAO Fall Retreat 2009

Sunday, 8 November 2009			
Time	Activity	Speaker	Room
8:00 - 9:00 AM	<b>Breakfast</b>		Dining Hall
<b>Breakout Sessions</b>			
9:00 - 10:30	<b>Vision Science -Joint Database of Cone Spacing/ Density in Normal Eyes</b>	Moderator - Mina Chung and Austin Roorda	Pineview
9:00-10:30	<b>Extreme AO plus Coronagraphy</b> GPI Calibration Wavefront Sensor Space-based Correction Algorithms for Ground-based AO: EFC at LAO Small Occultor Missions for Exoplanet Searches Faint Companion Detection using Intensity Statistics	Moderator - Bruce Macintosh Kent Wallace Amir Giveon Eric Cady Julian Christou	Lakeview
10:30 - 11:00 AM	<b>Coffee Break</b>		
11:00 - 11:45	<b>Closing Session of the NSF CfAO</b>	Moderator - Claire Max	Pineview
10:30 - 12:00	<b>Laser Workshop Commences</b>	Moderator - Don Gavel	Lakeview
12:00 - 1:30 PM	<b>Lunch</b>		Dining Hall
2:00 - 3:30	<b>Laser Workshop</b>		Pineview
3:30 - 3:45 PM	<b>Coffee Break</b>		Hallway
3:45 - 5:30	<b>Laser Workshop</b>		Pineview
6:00 - 7:30 PM	<b>Dinner</b> ( <i>Laser Workshop Attendees Only</i> )		Dining Room
8:00 - 10:00 PM	<b>Social</b>		Lakeview

# CfAO Fall Retreat 2009

Monday, 9 November 2009			
Time	Activity	Speaker	Room
8:00 - 8:30 AM	<b>Breakfast</b>		Dining Hall
9:00 - 10:30	<b>Laser Workshop</b> <i>(continued)</i>		Pineview
10:30 - 10:45	<b>Coffee Break</b>		Hallway
10:45 -12:00	<b>Laser Workshop</b>		Pineview
12:00 - 1:00 PM	<b>Lunch</b>		Dining Room
1:00 - 3:30	<b>Laser Workshop</b>		Pineview
3:30 - 3:45 PM	<b>Coffee Break</b>		Hallway
3:45-4:30	<b>Laser Workshop</b>		Pineview
4:30 PM	<b>Laser Workshop Ends</b>		