

# 8th Annual Summer School on *Adaptive Optics* August 6-10, 2007

University of California, Santa Cruz

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ORGANIZATIONS



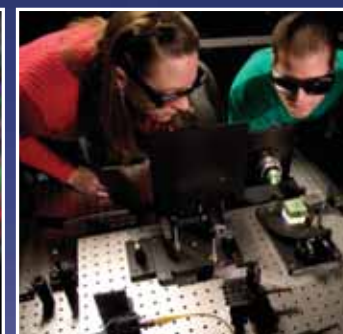
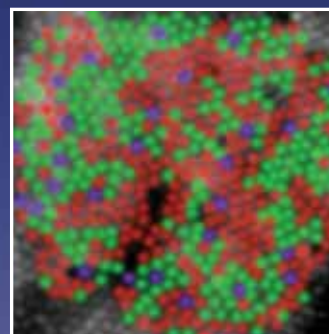
*Center for  
Adaptive Optics*



*National Science  
Foundation*

This workshop provides advanced professional training in the field of Adaptive Optics. Adaptive Optics (AO) refers to optical systems which adapt to compensate for time-varying optical distortions introduced by the medium between an object and its image. AO leads to appreciably sharper images, sometimes approaching the theoretical diffraction limit of an optical system. Appropriate for scientists, engineers, and technicians at the graduate level and above, this workshop combines lectures and hands-on laboratory activities to cover the following topics:

- \* Introduction to Adaptive Optics
- \* Fourier based physical optics
- \* Adaptive Optics control theory
- \* Adaptive Optics system design
- \* Wavefront sensing and reconstruction
- \* Measuring Adaptive Optics performance
- \* Deformable mirror technology
- \* Biological, astronomical and industrial applications of Adaptive Optics



*Left: Vision Science Adaptive Optics System at UC Berkeley  
Middle: Color Coded Images of the Three Cone Types in Living Human Retina  
Right: Extreme Adaptive Optics Testbed at UC Santa Cruz  
Photos Courtesy: Austin Roorda, UC Berkeley & Jim MacKenzie, UC Santa Cruz*

**Registration & Information: [cfao.ucolick.org/ss](http://cfao.ucolick.org/ss)**

**Registration Deadline: June 15, 2007**

**Limited Space Available. Apply Today!**

## **GRADUATE STUDENTS & POSTDOCTORAL RESEARCHERS:**

\$400 Conference fee includes meals & double occupancy lodging for the week. Single occupancy lodging is available for an additional \$120.

US based students are also eligible for limited travel support.

## **ALL OTHERS:**

\$950 Conference fee. Occupancy rates (includes meals): \$550 single or \$460 double occupancy lodging for the week per person.

## **CONTACT INFORMATION**

*Center for Adaptive Optics*

**831-459-5592**

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**OR**

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