

# CENTRE FOR OPTICAL SCIENCE AND LASER ENGINEERING

## ATLANTIC LASERS AND OPTICS FORUM

A roundtable discussion on:

### ADAPTIVE OPTICS

Wednesday 8th February, 10:30 – 3:30  
National University of Ireland, Galway  
Room AO 208, Applied Optics Group, Arts and Sciences Building

This is the first of a series of roundtable discussion meetings organised by the *The Atlantic Lasers and Optics Forum* (<http://www.alof.ie>). These informal meetings will focus the interchange of ideas and knowledge, in topics of relevance to industry.

Adaptive Optics is the art and science of correcting unwanted distortion and instabilities in optical images and beams. The technology is evolving from early use in military systems, and in astronomy, to applications in vision, optical communication, lasers and microscopy, with many other potential uses, for example in digital imaging systems. In this roundtable discussion meeting, the principles and applications of adaptive optics will be described, and demonstrations will be given of the components of adaptive optics systems and of complete working prototype systems. There will be ample opportunity for interaction and discussion.

This meeting is aimed at scientists, engineers and managers in industry who wish to:

- Keep abreast of the latest technological developments in optical imaging
- Understand the basic principles of adaptive optics
- Find out if adaptive optics and related technologies might play a role in your markets
- Interact with experts in optical systems.

#### Programme

11:00 Coffee  
11:30 Principles of Adaptive Optics  
12:30 Lab Tour and Demonstrations of AO components and systems  
13:15 Lunch  
14:15 Applications of Adaptive Optics  
14:45 Discussion  
15:30 Refreshments and Close

The roundtable is chaired by Professor Chris Dainty.

There is a fee of €100 which includes refreshments, lunch and a paper copy of the presentations. Please register in advance by returning the form below to Emer McHugh, Applied Optics Group, Physics Department, National University of Ireland, Galway, Ireland or sending details by email to: [emer.mchugh@nuigalway.ie](mailto:emer.mchugh@nuigalway.ie)

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*I wish to attend the roundtable on Adaptive Optics on 8th February 2006.*

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone and Email: \_\_\_\_\_

Payment:  Purchase Order No. \_\_\_\_\_  Cheque for €100

(Cheques should be made payable to "National University of Ireland, Galway")