10th International Workshop on Adaptive Optics for Industry and Medicine

15-19 June 2015

Sala del Paladin, Moroni Palace, Padova, Italy

http://aoim.pd.ifn.cnr.it/

Enquiries: stefano.bonora@dei.unipd.it

Programme Chair:
Stefano Bonora (Italy)

Scientific Organising Committee:
Pablo Artal (Spain), Chris Dainty (UK), Ulrich Wittrock (Germany), Alexis Kudryashov (Russia), Gordon Love (UK), Sergio Restaino (USA), Andrew Forbes (South Africa)

Local Committee:
Sandra Perazin, Gianluca Rossi, Cinzia Di Celmo, Luca Poletto, Antonio Lucianetti (Hilase)

Important dates:
26th August 2014: 1st call
28 Feb 2015: Abstract due
30 March 2015: Registration for authors
15 April 2015: Early bird registration

Topics will include:
Wavefront sensing, Wavefront correction devices, Control systems and strategies, Complete adaptive optics systems, Image sharpening, Applications of adaptive optics: microscopy, lasers, communications, vision science, Special session on commercial products.
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Adaptive Optics School: 15th June 2015

Sala del Paladin, Moroni Palace, Padova, Italy

http://aoim.pd.ifn.cnr.it/adaptive-school

Adaptive Optics school registration fee: 100 Euros

The School will offer tutorial lectures by international experts on topics related to the workshop. The lectures will be pitched at a level suitable for students and researchers who are new to the field and wish to learn the basics in a short space of time.

Enquiries to Stefano Bonora (School chair)
stefano.bonora@dei.unipd.it

Programme:

1. Introductory lectures
   (i) Basics of AOs and adaptive control – C.Dainty
   (ii) Basics of wavefront sensing – S.Restaino
   (iii) Basics of deformable mirrors – U.Wittrock
   (iv) Basics of liquid crystals and their use in AO – G.Love
   (v) Adaptive optics control – C.Paterson

2. Introductory lectures on applications in medicine and health
   (i) Adaptive Optics in Vision – P.Artal
   (ii) In vivo imaging with Adaptive Optics - R.Zawadzki

3. Introductory lectures on current state-of-the-art AO systems
   (i) Adaptive Optics in microscopy – M.Booth
   (ii) Multi conjugate Adaptive Optics and 3D wavefront sensing – R.Ragazzoni
   (iii) Adaptive Optics ultrahigh power lasers – A.Kudryashov
   (iv) Single photon/quantum control with SLMs and AOs – A.Forbes

4. Laboratory activities
   The laboratory activities will be organized in collaboration with the sponsors