

2<sup>nd</sup> September 2013, Stellenbosch

9<sup>th</sup> International Workshop on Adaptive Optics for Industry and Medicine (AOIM2013)

[www.saip.org.za/aoim2013](http://www.saip.org.za/aoim2013)

# Spring School on Adaptive Optics in Industry and Medicine

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## 1. Introductory lectures on the core technology

- (i) Basics of AOs and adaptive control: [Prof. Alexis Kudryashov \(Moscow State Open U., Russia\)](#)
- (ii) Basics of deformable mirrors: [Prof. Ulrich Wittrock \(U. of Munster, Germany\)](#)
- (iii) Basics of wavefront sensing: [Dr Sergio Restaino \(US Naval Research Laboratory, USA\)](#)
- (iii) Basics of liquid crystals and their use in AOs: [Prof. Andrew Forbes \(CSIR National Laser Centre, South Africa\)](#)

## 2. Introductory lectures on applications in medicine and health

- (i) AOs in Vision: [Prof. Pablo Artal \(U. Murcia, Spain\)](#)
- (ii) Biomedical imaging with AOs: [Prof. Gordon Love \(Durham U., UK\)](#)
- (iii) AOs and microscopy: [Prof. Martin Booth \(Oxford U., UK\)](#)

## 3. Introductory lectures on current state-of-the-art AO systems

- (i) Turn-key AO systems: [Dr Paul Bierden \(Boston Micromachines, USA\)](#)
- (ii) AOs in ultrafast and ultrahigh power lasers: [Prof. Jesus Lancis Saez \(U. Jaume I, Spain\)](#)
- (iii) AOs in high precision materials processing: [Prof. Martin Booth \(Oxford U., UK\)](#)