

Young Researcher Award 2012

On 11th June, 2012 the Erlangen Graduate School in Advanced Optical Technologies (SAOT) is going to present for the fifth time the "Young Researcher Award in Advanced Optical Technologies". The 2012 designated laureate is Dr Martin Booth, EPSRC (Engineering and Physical Sciences Research Council) Advanced Research Fellow at the Department of Engineering Science, University of Oxford, UK. The award will be conferred in recognition of his outstanding contributions related to the application of adaptive optics to microscopy and photonic engineering. Areas of research he is active in are:

- Active and adaptive optics, wave front sensing and control for microscopy and optical engineering.
- High-resolution optical microscopy with applications in biomedical imaging and material characterization.
- Optical micromachining and fabrication for development of photonic devices.

Fortunately the expertise of Dr. Booth fits well to establish a fruitful collaboration between SAOT researchers and him, especially in the fields of optical material processing, optical materials and metrology.

As award winner he will have the formal status of a guest professor during his stays at the SAOT when he spends the prize money of 100,000 Euros in close collaborations with several SAOT scientists. For the next few years he will set up a small working group in Erlangen to pursue optical investigations in his area of expertise.

The award underlines SAOT's objective to improve interdisciplinary research and education in development and application of optics and optical technologies, particularly at the interfaces between natural sciences, engineering and medicine. The Young Researcher Award in Optical Technologies strengthens the international networking of distinguished experts and provides a platform for the interdisciplinary exchange of innovative scientific ideas.

Following the Young Researcher Award, at the same ceremony "SAOT Student Awards" valued at 1,000 Euros each will be presented to six SAOT doctoral candidates for their innovative work published in high-ranked international periodicals listed in the Science Citation Index in the ISI Web of Science. One prize will be awarded in each of the six SAOT research areas: optical metrology, optical material processing, optics in medicine, optical material and systems, optics in communication and information technologies and computational optics. The laureates of the six "SAOT Student Awards" are not yet identified.