

Venue and date

July 27th - 29th, 2011

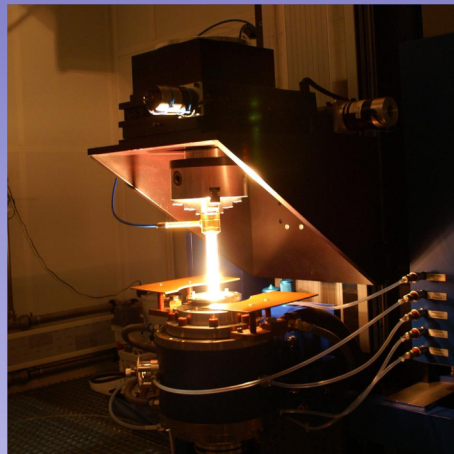
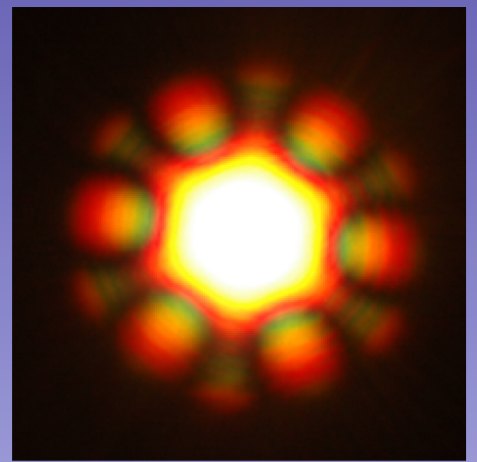
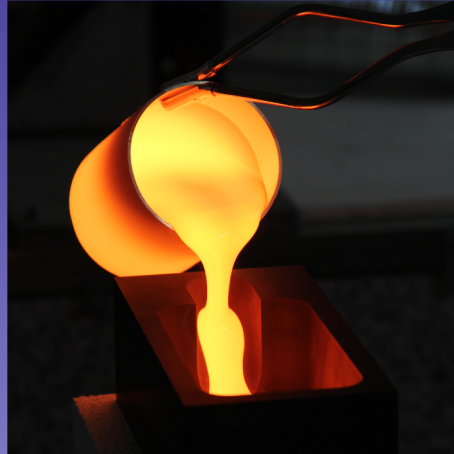
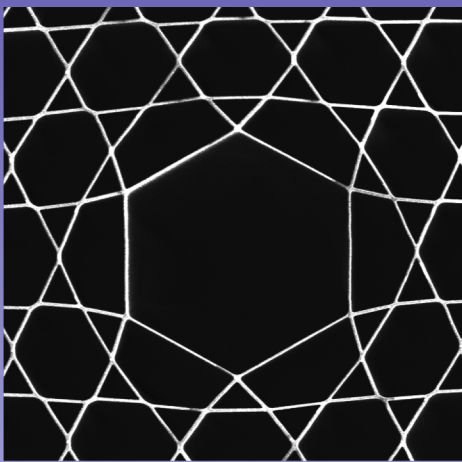
DORMERO Hotel Reichenschwand
Schlossweg 8
91244 Reichenschwand (near Nuremberg)
Germany



Organising committee

- Dr. Michael Scharrer (chair, EAM, MPL)
- Prof. Dr. Nicolas Joly (FAU, SAOT)
- Prof. Dr. Philip Russell (MPL, FAU, EAM, SAOT)
- Michael Schmidberger (MPL)
- Christina Ort (SAOT)

International Workshop on Fiber Lasers, Sensors and Materials



July 27th - 29th, 2011
Reichenschwand (near Nuremberg)

www.aot.uni-erlangen.de/workshop14/home

Scope

The workshop, co-organized by the Max Planck Institute for the Science of Light (MPL), the Cluster of Excellence „Engineering of Advanced Materials“ (EAM), and the Erlangen Graduate School of Advanced Optical Technologies (SAOT), will address current topics in

- new fiber optic materials and structures, such as materials for infrared applications, photonic crystal fibers (PCF), polymer fibers, multi-material fiber structures, and highly nonlinear materials
- fiber optic sensors, such as PCF-based chemical sensors and FBG-based sensors
- fiber-based light sources such as high-power lasers and supercontinuum sources.

The workshop is aimed at bringing together international experts to discuss fundamental aspects, potential applications, and technological challenges in these fields.

Programme

Wednesday, July 27th	
11:00	Registration
12:00	Lunch
13:00	Philip Russell (MPL) <i>Introduction</i>
13:15	Joseph Zyss (ENS Cachan, CNRS) <i>Revivals of nonlinear optics at the nanoscale: from molecular materials to quantum dots and application</i>
14:15	Alex Argyros (Uni Sydney) <i>Microstructures in polymer: from MOF to metamaterials</i>
15:15	Coffee break
16:00	Johann Troles (University of Rennes) <i>Chalcogenide microstructured optical fibers for mid-infrared applications</i>
17:00	Philip Russell (Max Planck Institute for the Science of Light) <i>Photonic crystal fibers</i>
18:00	Dinner

Thursday, July 28th	
07:30	Breakfast
09:00	Vittoria Finazzi (ICFO) Temperature and refractive index sensors based on multimode PCF and embedded optical nanowires
10:00	Stefano Selleri (Uni Parma) <i>Biosensor optical fiber platform for the detection of relevant components in biological fluids</i>
11:00	Coffee break
11:30	José Miguel López Higuera (Universidad de Cantabria) <i>Photonics Sensing Technologies: Several Cases and Trends</i>
12:30	Lunch
14:00	Thomas Bosselmann (Siemens Erlangen) <i>Fiber Optic Sensors Increase Efficiency in Energy Systems</i>
15:00	Søren Keiding (Aarhus) <i>Applications of Photonic Crystal Fibers in Optical Microscopy</i>
16:00	Coffee break
16:30	Clemens Kaminski (University of Cambridge) <i>Supercontinuum Optical Sensing</i>
17:30	Dinner
19:00 - end	Poster Session

Friday, July 29th	
07:30	Breakfast
9:00	Axel Schülzgen (CREOL Florida) <i>Recent Advances in Phosphate Glass Fiber Lasers</i>
10:00	Andreas Tünnermann (Uni Jena) Prospects and Challenges in High Power Fiber Lasers
11:00	Coffee break
11:30	Roy Taylor (Imperial College, London) <i>High Power Supercontinuum Sources</i>
12:30	Lunch
14:00	Sergei Turitsyn (Aston, UK) <i>Ultra-long fiber lasers</i>
15:30	Coffee and end of the conference