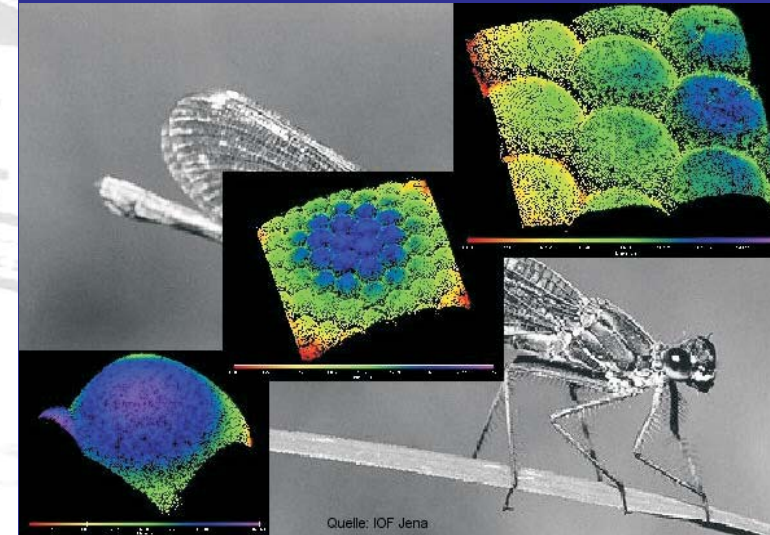


# OSLO Training Course

30th June - 3rd July 2009



## Fee

This course fee is € 375,00 per day and per person.  
If you enrol for all four days you only need pay a reduced fee of € 1190,00.  
In the interest of the students, the number of participants is limited to 15 persons.

## Application

If you want to apply for this OSLO training course, please fill in this form, fold it twice, seal it and post it to the address given, or email it to [mail@jenall.de](mailto:mail@jenall.de).

## Location

University of Applied Sciences  
Laboratory 05.-1.232  
Carl - Zeiss - Promenade 2  
07745 Jena  
Germany

## Information/Contact

JenALL e. V.  
Jürgen Bischoff  
Carl - Zeiss - Promenade 2  
07745 Jena  
Germany

Telephone: +49 (0) 3641 205 355  
Fax: +49 (0) 3641 205 351  
+49 (0) 3641 205 109

E-mail: [juergen.bischoff@fh-jena.de](mailto:juergen.bischoff@fh-jena.de)  
or [mail@jenall.de](mailto:mail@jenall.de)

Homepage: [www.jenall.de](http://www.jenall.de)

## Imprint

Publisher: JenALL e. V.  
Editor: Anja Stecher /  
Dr. Andreas Unkroth  
IOF Jena  
Picture credits:  
Deadline: 27th April 2009

FAX: +49 (0) 3641 205 109

JenALL e. V.  
Executive board  
Carl-Zeiss-Promenade 2  
07745 Jena  
Germany

OSLO Training Course



Jena Academy  
of Life Long Learning

Friedrich-Schiller-University  
University of Applied Sciences Jena

## Syllabus

---

This intensive, four days course is suitable for those who have never undertaken optical design, as well as to those who have experience with other software packages. We start with analysis of a spherical mirror. Then the slider wheels (unique to OSLO) will be used to design an aspheric plate of a Schmidt objective. The second day will be devoted to the end-to-end design of a Cooke triplet, starting with optimization with the GENII error function, continuing with tolerance analysis and finishing with the preparation of optical drawings to the ISO 10110 standard. The third day will start with a talk on optical design and numerical optimization, with a double Gauss objective as practical example. There will then be a full tutorial on CCL programming, including graphics, and customization of the user interface. The last day will begin with a comparison of OSLO versions, and a description of more advanced facilities only available in the Premium edition such as polarization analysis, spline- and interferometrically-defined surfaces, fibers and zone plates. The course concludes with a workshop session in which we work together on projects brought by the participants.

## Lecturer

---

Dr. Brian Blandford studied at Reading University, in the field of optical design for coherent optical processing. He has worked as an optical designer for several companies, and has giving OSLO training in the UK, France, Belgium, Germany, Spain and Israel. He has published 6 patents, given 17 conference papers, including one on the 2005 SPIE conference in Jena, and acted as supervisor to BSc, MSc, and PhD students. His experience includes optical designs for microfilm readers, photographic printers, head up displays, night vision goggles, laser scanners, submarine periscopes and scanners and objectives.

## Certificate

---

- Certificate of participation

## Fundamental Optical Design

---

All participants will be given access for five weeks preceding the course to this password-protected multi-lingual on-line training. This is designed especially for those who have never previously designed any optical instruments. It is part of the introduction to the first day's course, which includes a glossary of OSLO and optical design terminology (including terms in French, German, Italian and Spanish). The course consists of 242 slides, and includes moving diagrams to illustrate aberrations and zoom lenses. It covers seven topics: The nature of light; Optical materials; Paraxial optics; Stops and pupils; Optical systems; Aberrations and Lens design reference. It is recommended that one evening is spent studying each section.

## Participation

---

Graduates from universities or universities of applied sciences who work in optical industry or in related industry sectors.

## Methodology

---

This course provides an application-orientated transfer of Knowledge. Each participant will be issued with a temporary license for OSLO Premium before the course commences.

- Lectures
- Practical trainings
- Workshops

## Application

I would like to apply to participate in the

## OSLO training course

30th June - 3rd July 2009

This application is binding. But it is possible to send a substitute participant at any time.

---

Name, First Name

---

Enterprise/Organization

---

Road, Number

---

Town, Postcode

---

Country

---

Telephone

Fax

---

E-mail

---

Invoice Address:

---

---

---

Place, Time - Signature

---

Optional Information:

---

Mother tongue