EUROPEAN BOARD OF OPHTHALMOLOGY
ENET PROGRAMME
(European Network for Education of Trainees)

APPLICATION FORM ENET ACCREDITED COURSES
☐☐☐☐*

PLEASE COMPLETE THE APPLICATION FORM ELECTRONICALLY

Course Director

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Supportive society

4. Society: European Society of Cataract and Refractive Surgeons (ESCRS)

5. Date/hour when this course will take place: 18/02/2010, 0830-1700

6. Location: Hilton Istanbul, Cumhuriyet Caddesi, Harbiye-Istanbul, Turkey 34367

7. UEMS application introduced: ☐
in due order: ☒

General information

8. Course Title: Basic Optics Course

9. Classification according to EBO syllabus* ☐☐☐☐

10. Duration:
☐ 1-hour course (1-3 speakers) ☐ 2-hours course (4- 6 speakers) ☒ 1 day symposium
☐ 3-hours course (6-8 speakers) ☐ 4-hours course (8-10 speakers) ☐ more days course

11. Format:
☒ Formal lecture ☐ Commented diaporama ☐ Videobased course
☐ Case presentations ☐ On-line course ☐ E-learning

12. Course level: ☒ Basic ☐ Advanced

13. Frequency: ☐ New course ☒ Existing course: 1st renewal ☐ Existing course: 2nd renewal

* To be filled in by European Network for Education of Trainees (ENET) responsible

Faculty

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Course synopsis (max. 10 lines)

This symposium teaches optical principles that are basic to understand certain aspects of physiological optics of the eye. In particular, the estimation of visual performance of the human eye is not confined to only measuring visual acuity. Other biometric parameters of the eye correspond to specific values of contrast, glare, optical aberrations, and together they determine the quality of an image as perceived by the patient.

Ageing of the optical system will result in presbyopia. The knowledge of physiopathological mechanisms that underlie accommodation for far and near vision over a life span will help to better understand the optical performance characteristics of the IOLs that are designed to replace the natural human lens.

This course is highly recommended for all future ophthalmologists interested in vision problems related to cataract and refractive surgery.

Aim(s) of the course (max. 10 lines)

This course will explain several recently introduced concepts and terminologies relating to tests that help the ophthalmologist assess the quality of vision beyond measuring traditional Snellen acuity.

For example, Modulation transfer function (MTF), Point spread function (PSF) and the Root mean square value (RMS) of Zernike polynomials describing ocular wave front aberrations, are new important parameters that can appropriately describe quality of vision or imaging. These terms should belong to the active glossary of the ophthalmologist.

The latest techniques available to measure anatomical and phsyical properties of the eye are exposed. They include aberrometry, anterior segment Scheimpflug and OCT imaging and measurement of glare and contrast sensitivity.

Achievements (what will the participant achieve in knowledge)

The participant in this course will obtain an overview of objective and subjective psychophysical methods that evaluate the optics of the eye. The participant will have better insight in physiological optics; going much deeper than measuring visual acuity alone would allow. The participant will better understand the relation between new descriptive parameters of optical quality and patient's complaints. This course will therefore help the participant better understand the effects of cataract and refractive surgery on the quality of vision of the patient.

Course outline (please specify or add a flyer)

	Topic title	Time (min)
1.	Light propagation in the eye (Part I. Visual Optics)	20
2.	Aberrations of the optical system (Part I. Visual Optics)	20
3.	Optics of crystalline lens and accommodative response (Part I. Visual Optics)	20
4.	Straylight: Importance of different domains of the point-spread-function (Part I. Visual Optics)	20
5.	IOL optics (Part I. Visual Optics)	20
6.	Epidemiology of the optical parameters of the eye (Part I. Visual Optics)	20
7.	IOL power calculation (Part I. Visual Optics)	20
8.	Retinal image quality (Part II. Visual Behaviour)	20
9.	Presbyoptics (Part II. Visual Behaviour)	20
10.	State of the art assessment of visual acuity and contract sensitivity (Part II. Visual Behaviour)	30
11.	Visual function assessment using adaptive optics (Part II. Visual Behaviour)	20
12.	Modelling visual function (Part II. Visual Behaviour)	20
13.	Confocal microscopy, from research to clinical practice (Part III. Imaging of the Human Eye)	20
14.	Scheimpflug imaging, from research to clinical practice (Part III. Imaging of the Human Eye)	20
15.	OCT imaging, from research to clinical practice (Part III. Imaging of the Human Eye)	20
16.	Very high frequency ultrasound imaging, from research to clinical practice (Part III. Imaging of the Human Eye)	20