



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

**APPLICATION FORM ENET  
ACCREDITED COURSES  
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**PLEASE COMPLETE THE APPLICATION FORM ELECTRONICALLY**

**Course Director** \_\_\_\_\_

1. **Name:** Per Soderberg  
2. **Address:** Ophthalmology/Dept. Of Neuroscience, University Hospital , Uppsala, Sweden, SE-751 85.  
3. **E-mail:** per.soderberg@ophthalmology.neuro.uu.se

**Supportive society (in due order with UEMS accreditation)** \_\_\_\_\_

4. **Society:** ESCRS  
5. **Date/hour when this course will take place:** 14 / 09 / 2009. 17:00 – 18:00  
6. **Location:** CCIB - Centre de Convencions Internacional de Barcelona  
7. **UEMS application introduced:** ×   
**in due order:**

**General information** \_\_\_\_\_

8. **Course Title:** Learning phacoemulsification surgery in virtual reality  
9. **Classification according to EBO syllabus\*\***   
10. **Duration:** ×  1-hour course (1-3 speakers)  2-hours course (4- 6 speakers)  
 3-hours course (6-8 speakers)  4-hours course (8-10 speakers)  
11. **Format:** ×  Formal lecture  Commented diaporama  Videobased course  
 Case presentations  On-line course  E-learning  
12. **Course level:**  Basic ×  Advanced

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

## Faculty

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	<u>Name</u>	<u>E-mail</u>	<u>Setting</u>
1.	Per Soderberg	per.soderberg@ophthalmology.neuro.uu.se	Ophthalmology/Dept. of Neuroscience, University Hospital, Uppsala, Sweden
2.	Carl-Gustaf Laurell	carl-gustaf.laurell@sankterik.se	S:T Erik Eye Hospital, Karolinska Institutet, Stockholm, Sweden
3.	Eva Skarman	eva@melerit.se	Melerit Medical AB, LINKÖPING, Sweden
4.	Kaan Saracoglu		VRmagic GmbH Mannheim Germany
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## Course synopsis (max. 10 lines)

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The course will describe current theory for motor skill learning in surgery, the relationship between evolution of surgical skill, and evolution of prevalence of complications, and existing strategies for training of phacoemulsification surgery. The structure of a complete virtual reality (VR) simulator will be presented. Trainee performance, performance index, and instructional effectiveness will be defined. The advantages of VR phacoemulsification surgery training will be reviewed. Principles for validation of VR simulators for learning phacoemulsification surgery will be covered.

The generation of a three dimensional -VR surgical field with real-time update based on trainee input will be described. The

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

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Provide the latest development in virtual reality phacoemulsification surgery, its use as a tool for teaching and maintaining surgical skills, and its validation.

**Achievements (what will the participant achieve in knowledge)** \_\_\_\_\_

**Course outline (please specify or add a flyer)** \_\_\_\_\_

<u>Topic title</u>	<u>Time (min)</u>
1. Learning motor skills in virtual reality and its evaluation Per G Söderberg.	15 Minutes
2. Virtual reality phacoemulsification surgery, the technology behind it Eva Skarman.	15 Minutes
3. Learning phacoemulsification surgery with PhacoVision. Carl-Gustaf Laurell.	15 Minutes
4. Learning phacoemulsification surgery with EYESI Kaan Saracoglu	15 Minutes
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**Agreement (to be filled in by the course director)**

I hereby agree

- to distribute the evaluation forms prior to the start of the course
- to collect the evaluation forms after the course
- to collect the MCQs from the faculty within a timeframe of two weeks after the course
- to wave registration fee for the peer reviewer
- to provide UEMS accreditation of the hosting society
- to send the evaluation forms to Dara Conlon
- to complete the MCQ form in attachment

**Name + Signature:**

**Date:**

**Application Form to be sent to** \_\_\_\_\_

Marie-José Tassignon, Antwerp University Hospital, Dept. of Ophthalmology, Wilrijkstraat 10, 2650 Edegem, Belgium  
Tel. +32 3 821 33 77, Fax +32 3 825 19 26, E-mail: marie-jose.tassignon@uza.be