

Monday 22nd June SCHEDULE 8.30-17.30		
Time	Human Course	Animal Course
8.30-8.45 15 mins	<u>Introduction</u> to the course, faculty, expectations and structure	
8.45-9.30 45 mins	<u>Introduction to Full field ERGs</u> Physiology of ERGs (Basic components, Cellular sources, Functional relationships (Naka-Rushton)) ISCEV Full field ERG Standard (Recording protocols and their physiological basis) Additional diagnostic resources (a-wave modelling, PhNR, On-Off-, chromatic and S-cone stimulation)	
9.30-10.15 45 mins	<u>Clinical application of full field ERG</u> Interpreting ISCEV Full field standard ERGs (Patterns of change to track down the underlying pathophysiology) Diagnostic challenges in health and disease (distinguishing rod and cone photoreceptor contributions, limited vs. generalised disease, negative ERGs)	
10.15-10.45 30 mins	30 minutes COFFEE/TEA	
10.45-11.30 45 mins	<u>Techniques to localise retinal stimulation</u> <u>PERG & mfERG</u>	<u>Fundamentals of ERG in animal models</u>
11.30-12.15 45 mins	<u>Clinical application of mfERG and PERG</u>	<u>ERG in retinal research I (outer retina)</u>
12.15-13.00 45 mins	45 minutes SANDWICH LUNCH	
13.00-13.30 30 mins	<u>Techniques of VEP recording</u>	<u>ERG in retinal research II (inner retina)</u>
13.30-14.10 40 mins	<u>Clinical applications of the VEP</u>	<u>ERG in Preclinical Therapy Assessment</u>
14.10-14.35 25 minutes	<u>EOG recording and its clinical applications</u>	
14.35-15.00 25 mins	<u>Clinical application of non-standard ERGs</u> <i>(red flash & S-cone)</i>	<u>ERG PRACTICAL DEMONSTRATIONS</u>
15.00-15.30 30 mins	30 minutes COFFEE/TEA	
15.30-16.15 45 mins	<u>Recognising everyday common artefacts</u>	<u>Time with ERG manufacturers</u>
16.15-17.30 75 mins	<u>CLINICAL PRACTICAL DEMONSTRATIONS</u> 3 stations x 20 minutes 2 instructors /station 1) PERG and PVEP 2) Full field ERG 3) mfERG	<i>Animal course free time</i>
19.00	COURSE DINNER with faculty local restaurant	

Tuesday 23rd SCHEDULE 8.30 am -16.00 pm		
Time	Human Course	Animal Course
8.30-8.45 15 minutes	<i>OCT</i> <i>A brief overview of the OCT, retinal layers reflectance and FAF</i>	
8.45-9.25 40 minutes	<u>From cell to field potential</u>	
9.25-10.10 45 minutes	<u>Impact of ERG in animal models for understanding, diagnosing and follow-up of human disease</u> Experimental ERG in the discovery of novel aspects of retinal function Diagnostic insights to better understand the underlying pathophysiology ERG recordings in the pre-clinical evaluation and preparation of human therapeutic interventions	
10.15-10.45 30 mins	30 minutes COFFEE/TEA	
10.45-11.30 45 minutes	<u>A diagnostic approach to retinal dystrophy</u>	<u>Preclinical Imaging (OCT, SLO)</u>
11.30-12.15 45 minutes	<u>Paediatric techniques in a clinical setting</u>	<u>Imaging PRACTICAL DEMONSTRATION</u>
12.15-13.00 45 minutes	45 minutes SANDWICH LUNCH	
13.00-13.30 30 minutes	<u>System overview and calibration</u>	
13.30 -14.00 30 minutes	<u>What do I need to do to set up a lab</u> General considerations (shielded room, isolation, power cables, accessibility) Scope of diagnostics (which tests which age group) <u>Equipment Comparison</u> What do I need to know before I buy? Technical considerations (amplifiers, filters, flexibility of programming, stimulators, external triggers) How to make a dummy patient photocell <u>Equipment questionnaire</u>	
14.00-15.00 60 minutes	<u>Comprehensive Clinical Visual Electrodiagnostics</u> An overview and integration of the clinical test findings	<u>Comprehensive Animal Diagnostics</u>
15.00-15.30 30 mins	30 minutes COFFEE/TEA	
15.30-16.00 30 minutes	<u>Time with manufacturers</u> comparison of specifications & practise	<u>Time with imaging manufacturers</u> comparison of specifications & practise
16.00	COURSE FINISH and FEEDBACK	