

	XLIII ISCEV Overview of Scientific Programme	
Mon 22 Aug; AM	ISCEV Course	
PM	ISCEV Course BriSCEV programme	Course Demonstrations
EVE	BriSCEV and Course Dinners	
Tues 23 Aug; AM	ISCEV Course BriSCEV program	Course Demonstrations
PM 12:00 -	BriSCEV program ISCEV registration	SCIENTIFIC EXHIBIT HALL OPEN 12:00 – 18:00
13:30	ISCEV Board of Directors Meeting	
15:30	BriSCEV Keynote, 'Understanding the Multifocal ERG' David Keating, Carnegie Lecture Theatre (open to ISCEV registrants)	
17:30	ISCEV Clinical Cases : Carnegie Lecture Theatre	details
EVE 19:00	<i>Reception and buffet Glasgow City Chambers</i>	
Wed 24 Aug 07:30	<i>Forum on PERG Standards</i>	
08:00	<i>Registration, coffee, poster set-up</i>	EXHIBITS
0900	<i>Symposium opening</i>	08:30 – 16:00
09:15 – 10:30	Oral Session 1 : Visual Development details	
10:30	<i>Coffee Break</i>	
11:00 -12:30	Oral Session 2 : Retinal Disease details	
PM 12:30	<i>Group Photograph & Lunch with accompanying people</i>	
13:30	Poster Oral Introductions details	
14:00 - 16:00	Poster Session A Clinical Series & Cases details	
	Poster Session B Hereditary Retinal Dystrophies details	EXHIBITS
	Poster Session C Neuro-ophthalmol & Glaucoma details	08:30 – 14:00
	Poster Session D The Anatomy: Physiology Interface details	
16:00 – 17:45	Oral Session 3 : Neuro-ophthalmology details	

<p>EVE 18:30 – 20:00 19:00 – 19:40 20:00 – 23:00</p>	<p><i>Exhibit Hall A526 Open</i> <i>18:30 – 20:00</i> <i>Whisky Tasting; Room A426</i> <i>Dinner & ISCEV Rocks</i></p>
<p>Thurs 25 Aug 08:00 09:30 – 12:00 PM & EVE to 21:00</p>	<p><i>Busses Depart for Loch Lomond</i> <u>Special session: Drug Development and Clinical Trials</u> details <i>Lunch; Excursion to Inverary; ISCEV Olympic Games & Barbeque</i></p>
<p>Fri 26 Aug 07:30 08:00 – 9:00 09:00 10:30-11:00 11:00-12:30 PM 12:30 – 13:30 13:30 14:00 - 16:00 16:00</p>	<p><i>Documenta Ophthalmologica Editorial Board Meeting</i> <i>Poster Set-up</i> <i>Oral Sessions 4: Nutrition, Drugs, Toxins & the Visual System</i> details Coffee break <u>Oral Session 5: Animal Models of Visual Function</u> details <i>Lunch; Glasgow Caledonian University</i> <u>Poster Oral Introductions</u> <u>Poster Session E: Visual Development</u> details <u>Poster Session F Myopia</u> details <u>Poster Session G Ageing & Vascular Disease</u> details <u>Poster Session H Insights into Physiology</u> details <u>Poster Session G Frontiers of Technique in Clinical Electrophysiology</u> details <i>ISCEV Membership Meeting</i> agenda <i>Free evening</i></p>
<p>Sat 27 Aug 09:00 10:30 – 11:00 11:00 – 12:30</p>	<p><u>Oral Sessions 6: Frontiers of Technique in Clinical Electrophysiology</u> details Coffee break <u>Oral Session 7: Insights into Physiology</u> details</p>
<p>PM 12:30</p>	<p><i>Lunch; Glasgow Caledonian University</i></p>
<p>14:00</p>	<p><u>Oral Session 8: Ageing & Vascular Disease in the Visual System</u> details</p>

15:30	<i>Coffee Break</i>
16:00	<u>ISCEV Scientific Lecture: Professor Wallace S Foulds, CBE</u> <u>details</u> “Is a low pH the trigger for Retinal or Choroidal Neovascularisation?”
EVE 18:30 19:00 20:00 – 23:30	<i>Busses leave for Glasgow University Reception and Demonstration; Huntarian Art Gallery Symposium Banquet, Awards Presentations & Ceilidh - Bute Hall, Glasgow University</i>
Sun 28 Aug	ISCEV Golf Tournament
29-31 Aug	Optional Post Conference Tours

LXIII ISCEV SYMPOSIUM: SCIENTIFIC PROGRAMME
with SPEAKERS, SESSION CHAIRS & LOCATIONS

Tuesday 23 August: PM

- 12:00-18:30 Registration & Scientific - Exhibit Hall Opens –
Govan Mbeki Health Building Room A526, Glasgow Caledonian
University
- 13:30 ISCEV Board Meeting – Govan Mbeki Health Building Room A427
- 15:30-16:30 BriSCEV Keynote Lecture open to ISCEV Registrants – Carnegie Lecture
Theatre – Charles Oakley Laboratories, Glasgow Caledonian Univerisy
- 17:30-18:30 ISCEV Clinical Cases Session**
- 19:00 *Welcome Reception and buffet - Glasgow City Chambers, Guests of the
Lord Provost*

Wednesday 24 August 2005: AM

07:30 Forum on PERG Standards – Hospitality Suite Hamish Wood Building,
Chair: Graham Holder

08:00 *Registration, coffee, poster set-up - Exhibit Hall, Health Building, A526*

09:00-09:15 Symposium Opening - Carnegie Lecture Theatre, Charles Oakley Laboratories, Glasgow Caledonian University

Welcome, Mr T. Divers, Chief Executive, Greater Glasgow NHS Board
ISCEV Presidential Address, *Prof. Michael Bach*

09:15-10:30 Oral Session 1: Visual Development

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University

Chairs: Daphne McCulloch & Karen Holopigian

09:15 O1.1 **INVITED INTRODUCTORY LECTURE: RETINAL FUNCTION IN INFANTS AND CHILDREN WITH RETINOPATHY OF PREMATURITY** *Fulton A, Hansen R & Moskowitz A*

09:45 O1.2 MATURATION OF THE TRANSIENT CHROMATIC PATTERN-ONSET VEP *Boon MY, Suttle, CM & Henry B*

10:00 O1.3 VISUAL EVOKED POTENTIALS TO RED-GREEN AND BLUE-YELLOW STIMULATION IN SCHOOL CHILDREN *Tekavcic Pompe M, Stirn Kranjc B & Brecelj J*

10:15 O1.4 THE ERG IN PRETERM INFANTS *Hamilton R, Dudgeon J, Bradnam MS & Mactier H*

10:30-11:00 Coffee break

11:00-12:30 Oral Session 2: Retinal Disease

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University

Chairs: Gunter Neimeyer & Masayuki Horiguchi

11:00 O2.1 MULTIFOCAL ERG AND AUTOFLUORESCENCE IMAGING IN THE DIAGNOSIS OF MACULAR DISEASE *Kellner U, Renner AB, Tillack H*

11:15 O2.2 ELECTROPHYSIOLOGICAL AND PSYCHOPHYSICAL CORRELATES OF ANNULAR FUNDUS AUTOFLUORESCENCE ABNORMALITIES IN PATIENTS WITH ROD-CONE DYSTROPHY AND IN RPGR PATIENTS WITH CONE-ROD OR CONE DYSTROPHY *Robson AG, Michaelides M, Webster A, Fitzke FW, Bird AC, Moore, T & Holder GE*

11:30 O2.3 WHAT DO EOG AND ROD-ERG DURING DARK ADAPTATION REVEAL IN PATIENTS WITH VITELLIFORM MACULAR DYSTROPHY? *Rigaudière F, Rosolen SG, Saucet J-C & Le Gargasson JF*

11:45 O2.4 A CLINICAL TRIAL OF DOCOSAHEXAENOIC ACID (DHA) SUPPLEMENTATION ON PATIENTS WITH BEST VITELLIFORM MACULAR DYSTROPHY *Lee TKM, Clandinin MT & MacDonald IM*

12:00 O2.5 CHANGES IN MULTIFOCAL OSCILLATORY POTENTIALS AFTER MACULAR HOLE SURGERY WITH INTERNAL LIMITING MEMBRANE PEELING *Yamamoto S, Ogata K, Hayashi M, Mizunoya S*

12:15 O2.6 AUTOFLUORESCENCE IMAGING IN RELATION TO FUNCTIONAL TESTS IN RETINITIS PIGMENTOSA *Hawlina M, Popovic P & Jarc-Vidmar M*

12:30-13:30 Lunch; Room A426 and Scientific Exhibition, Room 526
Govan Mbeki Health Building,
Glasgow Caledonian University

Wednesday 24 August 2005: PM

13:30-14:00 Oral rapid-fire poster introductions:

Poster Sessions A to D

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University

14:00-15:30 Poster Session A: Clinical Series & Cases

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University

Moderators: Michael Bach & A. Patrizia Tormene

A.1 DIAGNOSTIC VALUE OF THE EOG *Brown M, Hagan R, Fisher A*

A.2 USE OF ELECTRORETINOGRAPHY FOR DIFFERENTIAL DIAGNOSIS OF OPTICORETINAL SYSTEM LESIONS IN PATIENTS WITH ALCOHOL DEPENDENCE *Prokofyeva E*

A.3 CONE V/S CONE *Mathur R, Luu C Lim Li, Koh A*

A.4 FULL FIELD ERG CONE FUNCTION: SINGLE FLASH V 30 HZ FLICKER TESTING *Lim CS, Thorpe V, Barber C*

A.5 ASSOCIATION OF BINOCULAR PARACENTRAL PIGMENT EPITHELIUM ATROPHY WITH THE UNILATERAL MANIFESTATION OF RETINITIS PIGMENTOSA IN A VITILIGO PATIENT *Palfy A, Szilagyi M, Olah J, Janaky M*

A.6 ELECTRORETINOGRAPHIC FINDINGS IN PATIENTS WITH VOGT-KOYANAGI-HARADA SYNDROME *Hmidi K, Yahia SB, Zaafour T, Messaoud R, Attia S, Ladjimi A, Khairallah M*

4:00-15:30 Poster Session B: Hereditary Retinal Dystrophies

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University

Moderators: Michael Bach & A. Patrizia Tormene

B.7 CHOROIDEREMIA: RE-EVALUATION OF CLINICAL AND ELECTROPHYSIOLOGICAL CHARACTERISTICS AND REPORT OF A NEGATIVE ERG *Renner AB, Kellner U, Cropp E, Preising MN, Foerster MH*

B.8 A DISTINCTIVE SCOTOPIC 15 HZ FLICKER ELECTRORETINOGRAM IN AUTOSOMAL CONGENITAL STATIONARY NIGHT BLINDNESS WITH MUTATIONS IN THE METABOTROPIC GLUTAMATE RECEPTOR 6 (GRM6) *Riemslog F, van Genderen M, Zeitz C, Hoeben F, Meire F, Berger W*

B.9 FUNCTIONAL AND MORHOLOGICAL ANALYSIS OF MACULA IN PATIENTS WITH RETINITIS PIGMENTOSA *Ogata K, Yamamoto S, Hagiwara A, Mizunoya S*

B.10 PERCEPTION OF MOVING HIGH- AND LOW-CONTRAST OPTOTYPES BY BRADYOPSIA PATIENTS Kooijman AC, Cornelissen FW, Brouwer L, Lautenbach A, Dryja TP, Pott J-WR

B.11 USHER SYNDROME RETINAL PHENOTYPE CAUSED BY MUTATIONS IN THE VLGR1 GENE (USH2C): COMPARISON WITH USH2A Jacobson SG 1, Schwartz SB 1, Aleman TS 1, Cideciyan AV 1, Sumaroka A 1, Windsor EAM 1, Roman AS 1, Rane T 1, Smilko EF 1, Bennett J 1, Stone EM 2, Kimberling WJ 3, and Liu XZ 4

B.12 TIME COURSE OF DARK ADAPTATION IN RGR AND RDH5 KNOCK OUT MICE Fahl E, Wenzel A, Fong HKW, Driessen C, Janssen J, Seeliger M

B.13 BONE SPICULE FORMATION IN A MOUSE MODEL OF RETINITIS PIGMENTOSA Seeliger MW, van de Pavert S, Wenzel A, Wolfrum U, Humphries P, May CA, Jaissle GB

B.14 MUTATIONS IN THE ABCA4 GENES AND THEIR ASSOCIATED CLINICAL AND ELECTROPHYSIOLOGICAL FEATURES IN FAMILIES WITH AUTOSOMAL RECESSIVE RETINAL DYSTROPHIES Jalali S, Singh HP, Hejtmancik JF, Kannabiran C

B.15 CLINICAL AND ELECTROPHYSIOLOGICAL STUDY OF CENTRAL RETINITIS PIGMENTOSA (RP) Jalali S, Ram LSM, Sumasri K

B.16 MULTIFOCAL ERG REVEALS SEVERAL PATTERNS OF CONE SENSITIVITY LOSS IN RETINITIS PIGMENTOSA Janaky M, Szilágyi M, Palffy A, Deak A, Benedek G

B.17 ONE-YEAR FOLLOW-UP OF GENE THERAPY IN A MOUSE MODEL OF X-LINKED JUVENILE RETINOSCHISIS Tanimoto N, Tonagel F, Min SH, Dinculescu A, Timmers AM, Hauswirth WW, Molday LL, Molday RS, Janssen A, Weber BHF, Seeliger MW

B.18 PATTERN-REVERSAL VEP IN PATIENTS WITH OCCULT MACULAR DYSTROPHY Okuda A, Shinoda K, Hanazono G, Kita K, Mashima Y, Tsubota K, Oguchi Y, Miyake Y, Ohde H

B.19 SPATIAL ALIGNMENT OF ELECTROPHYSIOLOGICAL, FUNCTIONAL AND MORPHOLOGICAL DATA IN A STARGARDT PATIENT Abegg MH, Barthelmes D, Fleischhauer JC

B.20 HOW SENSITIVE IS mfERG IN PATIENTS WITH STARGARDT MACULAR DYSTROPHY? Lodha N, Héon E, Wright T, Stevens D, Panton CM, Levin AV, Buffa R, Westall CA

B.21 MACULAR AND MULTIFOCAL ERG IN RETINAL DISEASE DIAGNOSIS
Shamshinova AM, Zolnikova IV, Seidova CG

B.22 FIRST EXPERIENCES USING mfERG Barrientos A, Herrera M, Pérez O

14:00-15:30 Poster Session C: Neuro-ophthalmology & Glaucoma

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University

Moderators: Michael Bach & A. Patrizia Tormene

C.24 OPHTHALMOLOGICAL FINDINGS IN PATIENTS WITH INHERITED
SPINOCEREBELLAR ATAXIA Yamazaki Y1, Zu ZY 1, Yuasa T 2, Nishimiya J 2,
Yamada S 2, Nemoto H 2, Iwamura A 2

C.25 ERG, VEP and OCULOMOTILITY IN WILSON'S DISEASE : A STUDY ON 39
PATIENTS Ingster-Moati I, Orssaud C, Rigaudiere F, Quoc EB, Woimant F

C.26 LONGITUDINAL CONTROLS VIA VISUAL EVOKED POTENTIALS AND
VISUAL ACUITY IN CHILDREN AFFECTED BY CEREBRAL VISUAL
IMPAIRMENT: VISUAL REHABILITATION EFFECTIVENESS Ruberto G, Bertone
C, Misefari W, Signorini S, Antonini M, Achille C, Luparia A, Fazzi E, Bianchi PE

C.27 MISROUTING IN KARTAGENER SYNDROME van Genderen M, Schuil J,
Riemslog F, Hoeben F, Jorritsma F, Stilma J, Meire F

C.28 ALBINISM AND NEGATIVE ERG - ALAND ISLAND EYE DISEASE? Burton
LC, Neveu MM, Adams GG, Holder GE

C.29 ELECTRORETINOGRAPHIC FINDINGS IN PATIENTS WITH POSTERIOR
MICROPHthalmOS Messaoud R, Jelliti B, Yahia SB, Jenzeri S, Zaouali S, Attia S,
Khairallah M

C.30 LED-FLICKER mfERG IN PRIMARY OPEN-ANGLE GLAUCOMA PATIENTS
Todorova MG, Palmowski-Wolfe AM, Orgül S, Flammer J

C.31 EIGHTEEN-MONTH FOLLOW-UP OF OCULAR HYPERTENSION USING
PATTERN, L/M-CONE AND S-CONE ERGS Mortlock KE, North RV, Wild J, Morgan
JE, Drasdo N

14:00-15:30 Poster Session D: The Anatomy-Physiology Interface

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University

Moderators: Michael Bach & A. Patrizia Tormene

D.32 OPTIMISING GLAUCOMA DETECTION WITH VEP AND PSYCHOPHYSICAL CONTRAST THRESHOLDS TO THE SAME MAGNOCELLULAR SPECIFIC FDT STIMULI Vaegan, Løvaas C

D.34 VISUALIZATION OF RETINAL STRUCTURES IN VIVO BASED ON TRANSGENIC MICE WITH TISSUE-SPECIFIC EXPRESSION OF GREEN FLUORESCENT PROTEIN (GFP) Tonagel F, Tanimoto N, Fahl E, van de Pavert S, Dangel S, Seeliger MW

D.35 VISUAL FUNCTION CHANGES AFTER INTRAVITREAL TRIAMCINOLONE ACETONIDE INJECTION IN REFRACTIVE MACULAR OEDEMA Guoming Z, Zeng J, Liu J, Tang S, Zhao T, Qin B

D.36 ERG, EOG, AND OCT RESULTS IN A RARE SYNDROME: ANGLE CLOSURE GLAUCOMA, NANOPHTHALMOS AND CYSTIC RETINAL DEGENERATION Flynn Roberts M, Messner LV, Rezaei KA, Patel N, Feitl ME, Chaglasian MA¹

D.37 ERG CHANGES AFTER INTRAVITREAL INJECTION OF TISSUE PLASMINOGEN ACTIVATOR FOR CENTRAL RETINAL VEIN OCCLUSION Mizunoya S, Sakakibara A, Uehara J, Kubota M, Hagiwara A, Nakamura Y, Kumagai K, Yamamoto S

D.38 ELECTRORETINOGRAM AND MORPHOMETRY IN GLAUCOMA Kazarian A, Kuroyedov A, Angelica S

D.39 STRUCTURAL AND FUNCTIONAL IMAGING IN CYSTOID MACULAR EDEMA: OPTICAL COHERENCE TOMOGRAPHY AND MULTIFOCAL ERG FINDINGS Coupland SG, Hodge WG, Leonard BC

D.40 A NOVEL IMAGING TECHNIQUE FOR MAPPING CONE- AND ROD-INDUCED RETINAL RESPONSIVENESS BY INTRINSIC OPTICAL IMAGING Tsunoda K Hanazono G, Oguchi Y, Tanifuji M, Miyake Y

D.41 QUANTITATIVE OCT IMAGING IN CONE DISEASES Fleischhauer JC, Barthelmes D, Sutter FK, Kurz-Levin M, Niemeyer G, Helbig H

D.42 OCT BASED EVALUATION OF DIAGNOSIS AND TREATMENT EFFECTS OF CYSTOID MACULAR OEDEMA IN PATIENTS WITH RETINITIS PIGMENTOSA AND CONE DYSTROPHIES Barthelmes D

D.43 STRAY LIGHT VALUES AMONG NORMAL AND DIABETIC POPULATIONS Hassan AF, Riets D

D.44 EVALUATION OF RETINAL FUNCTION BEFORE AND AFTER TREATMENT IN A PATIENT WITH UVEITIC MASQUERADE SYNDROME Kondo N, Kondo M, Kitada C, Piao C-H, Terasaki H

D.45 COMPARATIVE STUDY BETWEEN BLUE ON YELLOW PERIMETRY AND WHITE ON WHITE PERIMETRY IN HIGH MYOPIA WITHOUT MACULOPATHY
Rulong G, Xiaohua L, Dezheng W

16:00-17:45 Oral Session 3: Neuro-ophthalmology

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University
Chairs: Colin Barber & Emiko Adachi

16:00 O3.1 EFFECT OF OPTIC NEURITIS ON THE PHOTOPIC FULL FIELD
FLASH ERG Frishman LJ, Rangaswamy NV

16:15 O3.2 VISUAL PATHWAY MALDEVELOPMENT IN CHILDREN Breceelj J,
Stirn-Kranjc B, Pecaric-Meglic N, Skrbec M, Likar K, Lenassi E

16:30 O3.3 FOCAL ERGs TO CONTRAST MODULATION OF PATTERN STIMULI
- CELLULAR ORIGINS AND CLINICAL IMPLICATIONS Viswanathan S, Harrison W

16:45 O3.4 ABNORMAL VISUAL FIELD REPRESENTATIONS IN HUMAN
ALBINISM: VEP vs fMRI Hoffmann MB Speck O, Schmidtborn L

17:00 O3.5 TOO EARLY TO TREAT? PVEPS IN THE FELLOW EYE IN
MONOCULAR, TREATED, CONGENITAL CATARACT Hayton SM, Tam C, Russell-
Eggitt I, Thompson DA

17:15 O3.6 FAMILIAL OCULO-MOTOR APRAXIA: CLINICAL AND ELECTRO-
OCULOGRAPHIC FEATURES Ingster-Moati I, Orssaud C, Rapp P, Allali J, Abitbol M,
Roche O, Dufier J-L

17:30 O3.7 DISTINGUISHING AMONG ALTERNATIVE DISEASE PROCESSES
WITH THE MULTIFOCAL VISUAL EVOKED POTENTIAL Hood DC, Chen JY, Yang
EB, Rodarte C, Grippo T and Greenstein VC

18:30 Exhibit Hall Reopens; Room 526

19:00 Whisky Tasting, Room 426
Govan Mbeki Health Building,
Glasgow Caledonian University

20:00 Dinner and 'ISCEV Rocks' Music –
Refectory Extension, Hamish Wood Building
Glasgow Caledonian University

08:00 Busses Depart for Loch Lomond –
Outside Govan Mbeki Health Building

09:30-12:00 **Special Session: Drug Development and Clinical Trials –
The Role of Visual Electrophysiology**

McMillan Conference Suite, Lodge on Loch Lomond Hotel

Chair: Brigell M

09:30 Introduction *Brigell M*

09:40 SS.1 *IN VITRO* ELECTROPHYSIOLOGICAL AND IMAGING TECHNIQUES
FOR DRUG DISCOVERY *C-J Dong, Hare WA*

10:00 SS.2 ANIMAL MODELS IN DRUG DISCOVERY: THE ROLE OF VISUAL
ELECTROPHYSIOLOGY *Tzekov R*

10:20 SS.3 DRUG DEVELOPMENT & CLINICAL TRIALS: VISUAL
ELECTROPHYSIOLOGY AND BEHAVIOUR IN TOXICOLOGY STUDIES *Rosolen
SG, Picaud S*

10:40 SS.4 THE USE OF BIOMARKERS TO TEST THE EFFICACY OF THERAPIES
FOR TREATMENT OF RETINAL AND OPTIC NERVE DISEASES *Brigell M*

11:00 SS.5 HUMAN CLINICAL SAFETY TRIALS FOR THE VISUAL SYSTEM
REQUIRE TARGETED USE OF HIGH QUALITY ELECTROPHYSIOLOGY,
IMAGING TECHNIQUES AND PSYCHOPHYSICS *Zrenner E*

11:20 SS.6 REGULATORY PERSPECTIVE *Chambers W*

11:40 PANEL DISCUSSION *Brigell M, Dong C-J, Tzekov R, Rosolen SG, Zrenner E,
Chambers W*

12:00-13:00 Buffet lunch

13:00-16:45 Excursion in the Central Highlands and Inverary Castle

16:45 “Highland Games”, optional seaplane flights (at additional cost), and
barbecue at the Lodge on Loch Lomond Hotel, Luss, Argyll

20:00 Coaches depart for Glasgow Caledonian University

21:00 Arrival at Glasgow Caledonian University

Friday 26 August AM

07:30 DOOP Editorial Board meeting
Hospitality Suite Room W013, Hamish Wood Building, Glasgow
Caledonian University
Chair: J. Vernon Odom, Editor-in-Chief

09:00–10:30 Oral Session 4: Nutrition, Drugs and Toxins & the Visual System
Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University
Chairs: Graham Holder & Pierre Lachapelle

09:00 O4.1 USING AN EXTENDED ISCEV PROTOCOL FOR TESTING DRUG
INDUCED FUNCTIONAL ALTERATIONS IN THE CAT RETINA IN A SUBACUTE
ORAL TOXICITY STUDY *Zrenner E, Messias A, Edingloh M, Kroetlinger F, Gekeler
F*

09:15 O4.2 PROTECTING THE RETINA FROM OXYGEN-INDUCED
RETINOPATHY WITH TAURINE: ARE WE INHIBITING APOPTOSIS OR
SCAVENGING FREE RADICALS? *Rojas L.M, Romero M, Ramírez Y, Dorfman A,
Chemtob S, Lima L, Lachapelle P*

09:30 O4.3 VISUAL ELECTROPHYSIOLOGY TO DETECT DRUG INDUCED
OCULAR TOXICITY – ARE ABNORMAL RESULTS SUGGESTIVE OF TOXICITY?
Westall C

09:45 O4.4 THE ASSESSMENT OF NEURO-RETINAL TOXICITY IN PATIENTS
WITH EPILEPSY ON VIGABTRIN *Gonzalez P, McCall A, McQuistan A, Keating D,
Kelly K, Brodie MJ & Parks S*

10:00 O4.5 A LONGITUDINAL STUDY OF MULTIFOCAL
ELECTRORETINOGRAPHIC CHANGES IN PATIENTS ON
HYDROXYCHLOROQUINE *Lai TYY, Chan W-M, Li H, Lai RYK, Lam DSC*

10:15 O4.6 MULTIFOCAL ERG TESTING IN DETECTING PLAQUENIL
RETINAL TOXICITY *Lyons JS*

10:30-11:00 Coffee break- Refectory Extension, Hamish Wood Building, Glasgow
Caledonian University

11:00-12:30 Oral Session 5: Animal Models of Visual Function
Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University
Chairs: Eberhart Zrenner & Serge Picaud

11:00 O5.1 EVIDENCE SUGGESTING A POSTNATAL IMMUNITY TO ENVIRONMENTAL STRESS IN THE DEVELOPING RAT RETINA: COMPARING THE OUTER AND INNER RETINA Lachapelle, P., Joly S., Dorfman, A., Chemtob, S.

11:15 O5.2 RETINAL FUNCTION AND STRUCTURE IN THE SPONTANEOUSLY DIABETIC MONKEY Johnson MA, Luty GA, McLeod DS, Kim SY, Alexander T, Schilling R, McEvoy S, Hansen BC

11:30 O5.3 PHYSIOLOGICAL FUNCTION OF S-CONE SYSTEM IS NOT ENHANCED IN rd7 MICE Kondo M¹, Ueno S¹, Miyata K¹, Miyata T², Usukura J², Nishizawa Y² & Miyake Y¹

11:45 O5.4 COP-1 TREATMENT PRESERVES INNER RETINAL FUNCTION, EVIDENCED BY PATTERN ELECTRORETINOGRAPHY, IN THE RAT OCULAR HYPERTENSION MODEL Ben-Shlomo G, Bakalah S, Schwartz M, Ofri R

12:00 O5.5 MIDLINE INTERACTIONS ARE NOT CRITICAL FOR THE DEVELOPMENT OF THE HUMAN OPTIC CHIASM: DIFFERENCES BETWEEN MAN AND MOUSE Neveu MM, Jeffery G, Ragge NK, Burton LC, Sloper JJ, Collin JRO, Holder GE

12:15 O5.6 RETINAL FUNCTION IN A MOUSE MODEL OF GLAUCOMA Harrison JM, McKinnon SJ, Kurian PM, Kasmala LT & Aranibar R

12:30-13:30 Lunch- Refectory Extension, Hamish Wood Building , Glasgow Caledonian University

Friday 26 August PM

13:30-14:00 Oral Rapid-fire Poster Introductions: Sessions E to J

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University
Chair: Ulrich Kellner

14:00-15:30 Poster Session E: Visual Development

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University
Moderators: Ulrich Kellner & Vaegan

E.1 NORMATIVE DATA FROM THE GREAT ORMOND STREET (GOS) PROTOCOL FOR ERGS AND VEPS IN 136 BABIES UNDER 12 MONTHS OF AGE
Thompson DA, *HARDY SE, HAYTON SM*

E.2 MATURATION OF THE VISUAL SYSTEM REFLECTED IN THE TEMPORAL FREQUENCY TRANSFER FUNCTION OF THE FLASH VEP *Pieh C, McCulloch DL, Shahani U, Bach M*

E.3 DIFFERENT AGE DEPENDENCE OF PATTERN-REVERSAL AND MOTION-ONSET VEP PARAMETERS *Langrová J, Kuba M, Kremláček J, Kubová Z*

E.4 EARLY DEVELOPMENT OF TEXTURE SEGREGATION PROCESSES: A VEP STUDY *McKerral M, Tremblay E, Vannasing P, Lassonde M, Lepore F, Roy M-S*

E.5 THE KEY ROLE OF ELECTROPHYSIOLOGY IN THE DIAGNOSIS OF VISUALLY IMPAIRED CHILDREN *Jorritsma F, van Genderen M, Riemsdag F, Hoeben F, Meire F, Stilma J*

E.6 CONTRAST SENSITIVITY FUNCTION IN PATIENTS TREATED FOR UNIOcular CONGENITAL CATARACT *Tam C, Russell-Eggitt I, Thompson D*

E.7 TECHNIQUES TO IMPROVE SUCCESS IN OBTAINING INFANT ERG RECORDINGS

Bradnam MS, Hamilton R, Malcolm C, McCulloch DL, Mactier H

E.8 OCULAR BIOMETRY IN PRETERM INFANTS – IMPLICATIONS FOR CALCULATION OF RETINAL ILLUMINANCE *Mactier H¹, Hamilton R², Maroo S³, Bradnam MS², Dudgeon J⁴*

E.9 EARLY MYOPIA AND SCOTOPIC OSCILLATORY POTENTIALS (OPs) IN ROP SUBJECTS *Moskowitz A, Hansen RM and Fulton AB*

14:00-15:30 Poster Session F: Myopia

Room 526, Govan Mbeki Health Building,

Glasgow Caledonian University
Moderators: Ulrich Kellner & Vaegan

F.10 MULTIFOCAL ELECTRORETINOGRAPHY IN DIFFERENT FORMS OF MYOPIA *Kutsapalau VV, Seidova SF, Shamshinova AM, Zolnikova IV*

F.11 THE MFVEP IN HIGH MYOPIA WITHOUT MACULOPATHY *Dezheng W, Xiaohua L*

F.12 MULTIFOCAL ERG ASSOCIATES WITH MYOPIA PROGRESSION *Luu CD, Lau AMI, Chua W-H, Tan D*

F.13 SIGNAL AMPLITUDES OF MULTIFOCAL ERG IN RELATION TO AGE, AXIAL LENGTH, CORNEAL RADIUS AND REFRACTION *Wildberger HGH, Fleischhauer JC, Barthelmes D*

14:00-15:30 Poster Session G: Ageing and Vascular Disease

Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University
Moderators: Ulrich Kellner & Vaegan

G.14 MATURATION AND AGING OF THE RETINAL STRUCTURE AND FUNCTION: THE GUINEA PIG MODEL *Lachapelle P, Racine J*

G.15 AN ASSESSMENT OF STATIC AND DYNAMIC CONE FUNCTION IN AGE-RELATED MACULOPATHY (ARM) USING THE FOCAL CONE ERG *Binns A, Margrain T*

G.16 EFFECT OF INTERNAL LIMITING MEMBRANE PEELING ASSISTED BY INDOCYANINE GREEN DYE OR TRIAMCINOLONE ACETONIDE ON VISUAL FUNCTION AFTER MACULAR HOLE SURGERY *Tanikawa A, Horio N, Sugino T, Horiguchi M*

G.17 WIDE FIELD MULTIFOCAL ELECTRORETINOGRAPHY (WF-mfERG) IN THE ASSESSMENT OF EYES WITH RETINAL VEIN THROMBOSIS (RVT) *Dolan FM, Parks S, Keating D, Dutton GN, Evans AL*

G.18 EVALUATION OF THE CHANGES IN IDIOPATHIC JUXTAFOVEOLAR TELEANGIECTASIA BY MULTIFOCAL ELECTRORETINOGRAPHY *Kuze M, Matsubara H, Arima M, Uji Y*

G.19 USING MULTIFOCAL ERG TO MONITOR THE EFFECT OF INTRAVITREAL TRIAMCINOLONE TREATMENT FOR JUXTAFOVEAL RETINAL TELANGIECTASIA *Thorpe V, Browning A, Wen Y*

G.20 CLASSIFICATION OF POLYPOIDAL CHOROIDAL VASCULOPATHY *Feng W, Dezheng W, Zuhua S, Yanli C, Shizhou H, Guangwei L*

G.21 STUDY OF THE OSCILLATORY POTENTIALS OF THE ERG IN DIABETIC PATIENTS *Massoud WH*

G.22 ELECTROPHYSIOLOGICAL INVESTIGATION INTO THE EFFECTS OF LIGHT AND DARK ON THE RETINAL BLOOD FLOW IN DIABETES MELLITUS *Cumiskey JA, Perrott RL, Drasdo N, Owens DR, North RV*

G.23 TIME DEPENDENT CHANGES IN THE ELECTRORETINOGRAM (ERG) OF THE SPONTANEOUS DIABETIC GOTO-KAKIZAKI RAT *Uji Y, Matsubara H, Kuze M, Sasoh M*

14:00-15:30 Poster Session H: Insights into Physiology
Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University
Moderators: Ulrich Kellner & Vaegan

H.24 THE ETHANOL ELECTRO-OCULOGRAM: A Ca²⁺ MEDIATED RESPONSE
Constable P, Lawrenson J, Arden G

H.25 FUNCTIONAL EYE ALTERATIONS IN TWO CASES OF NIGHT BLINDNESS AFTER BARIATRIC SURGERY *Tormeme AP, Zaccaria F, Riva C*

H.26 ELECTROPHYSIOLOGIC AND HISTOLOGIC ANALYSIS OF ACUTE RETINAL CHANGES IN THE MNU-INDUCED RETINAL DEGENERATION *Ohn Y-H, Lee J-H, Kim D-K, Lim S-H, Park TK*

H.27 THE ORIGIN OF THE RAT'S PATTERN ELECTRORETINOGRAM *Ben-Shlomo G, Bakalash S, Schwartz M, Ofri R*

H.28 THE INFLUENCE ON MACULAR FOCAL ERG RESPONSES BY CHANGING THE SPATIAL FREQUENCY OF THE STIMULI *Yamada K, Matsumoto CS, Nakatsuka K*

14:00-15:30 Poster Session J: Frontiers of Technique
Room 526, Govan Mbeki Health Building,
Glasgow Caledonian University
Moderators: Ulrich Kellner & Vaegan

J.29 EVOLVING THE ISCEV STANDARDS FOR RETINAL ELECTROPHYSIOLOGY *Marmor MF*

J.30 HUMAN OSCILLATORY POTENTIALS: INTENSITY DEPENDENCE OF TIMING AND AMPLITUDE Kraft TW, Hancock HA

J.31 ON- AND OFF- RESPONSE CHARACTERISTICS Sustar M, Hawlina M, Brecej J

J.32 INTERACTION OF TEMPORAL AND SPATIAL FREQUENCY IN THE CONTRAST TRANSFER FUNCTION OF THE PATTERN ERG Ben-Shlomo G, Bach M, Ofri R

J.33 THE FEASIBILITY OF CHANGING TO A NEW RECORDING SYSTEM DURING ERG FOLLOW-UP OF PATIENTS Lam BL, Liu M, Feuer WJ

J.34 FLASH ELECTRORETNOGRAPHY USING SURFACE ELECTRODES AND NO PUPIL DILATION, USING THE STIMULATION STANDARDS OF THE ISCEV Papathanasiou ES, Papacostas SS

J.35 CAN WE DO WITHOUT MYDRIASIS IN MFERG RECORDINGS? Poloschek CM, Bach M

J.36 DON'T IGNORE THE OPTICS: CORRECTING REFRACTIVE ERRORS FOR mfERG TESTING Wolsley CJ, McGivern C, Saunders KJ, Silvestri G, Gibson M, Anderson RS

J.37 LUMINANCE-MODULATED ADAPTIVE CHARACTERISTICS OF GLOBAL FLASH MULTIFOCAL ELECTRORETINOGRAM (MFERG) PARADIGM Chu PHW, Chan HHL, Brown B

J.38 CHANGES OF ADAPTIVE EFFECT ACROSS THE RETINA IN SLOW GLOBAL FLASH mfERG STIMULATION Chan HL, Chu HW, Siu AW, Lam AK.

J.39 USING THE GENETIC ALGORITHMS TO DEVELOP THE MULTIFOCAL STIMULATOR Arakelyan A, Arakelyan M

J.40 CAN A SHORTENED M-SEQUENCE REALLY WORK FOR mfERG Hagan R, Fisher A, Brown M

J.41 TO INVESTIGATE IF AN AUTOMATIC CLASSIFICATION SYSTEM OF MFERG RESPONSES CAN DIFFERENTIATE BETWEEN DIFFERENT GROUPS OF ETIOLOGIES Wright T, Westall C

J.42 DISCRIMINANT ANALYSIS OF PERG AND PVEP – MATHEMATICAL MODELS AND PRELIMINARY CLINICAL EVALUATION Penkala K, Lubinski W, Szlachta K, Karczewicz D

J.43 VARIATION IN THE mfVEP RESPONSE WITH STIMULATION RATE, A 16-CHANNEL mfVEP EXPERIMENT Chisholm J, Keating D, Parks S

J.44 CLASSIFICATION IMAGES: A NEW WAY OF LOOKING AT VISUALLY EVOKED RESPONSES Shahani U, Manahilov V, Simpson W

J.45 EFFECTS OF VISUAL NOISE ON PATTERN VEPs Manahilov V, Mihaylov P, McCulloch D, Calvert J

J.46 MOTION ONSET POTENTIALS: CONTRAST-DEPENDENCY AND LONG-TERM ADAPTATION Knezy K, Molnar FE, Nemeth J

J.47 WEB-BASED COLOR AXIS DETERMINATION AND SCORING FOR THE FARNSWORTH-MUNSELL 100-HUE AND PANEL D-15 TESTS Török B

J.48 ASSESSMENT OF CONTRAST SENSITIVITY: THE DEVELOPMENT AND IMPLEMENTATION OF A NOVEL TEST USING STEADY-STATE VEPs (SSVEPs) Calvert J, Bradnam MS, Manahilov V, Hamilton R, McCulloch DL, Dutton GN

J.49 MODIFIED FIELD-SPECIFIC PATTERN REVERSAL VEP FOR CHILDREN USING INTERLEAVED CENTRAL AND PERIPHERAL STIMULI: CHARACTERISATION OF A P75 / N100 / P150 RESPONSE TO PERIPHERAL STIMULI Weston PF

J.50 HUMAN CONE-DRIVEN ERGs: EFFECT OF STIMULUS INTENSITY AND ADAPTING BACKGROUND Bradshaw K

15:30-16:00 Coffee break

16:00 **ISCEV Membership Meeting**
Carnegie Lecture Theatre
Chair Michael Bach

Saturday 27 August

07:30 Forum on EOG Standards
Hospitality Suite, Hamish Wood Building, Glasgow Caledonian University
Chair: Malcolm Brown

09:00-10:30 Oral Session 6: Frontiers of Technique

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University
Chairs: David Keating & Michael Bradnam

09:00 O6.1 YAVA – YET ANOTHER VEP-BASED VISUAL ACUITY
ASSESSMENT Bach M, Wolf ME, Maurer JP

09:15 O6.2 SNR ENHANCEMENT OF THE ERG BY BLIND-SOURCE-
SEPARATION (BSS) USING INDEPENDENT COMPONENT ANALYSIS PRECEDED
BY *SYNCHRONOUS* DYNAMICAL EMBEDDING Fisher AC, Brown MC, Hagan RP

09:30 O6.3 MODIFIED TECHNIQUES USED TO ASSESS OSCILLATORY
POTENTIALS IN PATIENTS WITH DIABETES MELLITUS Arlotte DV, North RV,
Owens DR, Drasdo N

09:45 O6.4 A LAPLACIAN DERIVATION IMPROVES THE ESTIMATION OF THE
SIGNAL TRANSMISSION TIME TO THE VISUAL CORTEX IN MULTIFOCAL VEP
RECORDINGS Meigen T, Unterlauff J

10:00 O6.5 MULTIMODAL IMAGING OF THE RETINA USING COMBINED
OCT/SLO AND MFERG Parks S, Dudgeon S, Keating D

10:15 O6.6 REPEATABILITY OF THE NORMAL MULTIFOCAL VEP:
IMPLICATIONS FOR DETECTING PROGRESSION Fortune B, Demirel S, Zhang X,
Hood DC, Johnson CA

10:30-11:00 Coffee break

11:00-11:30 Oral Session 7: Insights into Physiology

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University
Chairs: J Vernon Odom & Uma Shahani

11:00 O7.1 ROLE OF THE CYSTIC FIBROSIS TRANSMEMBRANE
CONDUCTANCE REGULATOR IN THE ELECTRO-OCULOGRAM Constable P,
Lawrenson J, Arden G

11:15 07.2 INTERACTION BETWEEN INTRARETINAL NITRIC OXIDE MODULATION AND RETINAL CELLULAR FUNCTION AND METABOLISM Kang-Derwent JJ¹, Birol G², Budzynski E², Wang S², Linsenmeier RA²

11:30 07.3 MFERG FOLLOWING LOW-LEVEL LASER IN PATIENTS AT RISK FOR AMD Ver Hoeve, JN, Blodi, B, Altaweel, M

11:45 07.4 MULTIFOCAL ELECTRORETINOGRAM IN PATIENTS WITH LOCALIZED RHEGMATOGENOUS RETINAL DETACHMENT Horiguchi M, Tanikawa A

12:00 07.5 PHENOTYPIC CHARACTERIZATION OF PATIENTS WITH AUTOSOMAL RECESSIVE CONGENITAL STATIONARY NIGHT BLINDNESS (AR CSNB) Audo I, Robson AG, Webster AR, Bird AC, Moore AT, Holder GE

12:15 07.6 NEGATIVE POLARITY COMPONENTS: INNER RETINAL SIGNALS RECORDED IN VIVO AND IN VITRO Niemeyer G

12:30-14:00 Lunch, Refectory Extension, Glasgow Caledonian University

14:00-15:30 Oral Session 8: The Ageing Visual System

Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University

Chairs: Geoffrey Arden & Florence Rigardierre

14:00 08.1 AGE RELATED NORMS FOR MOTION-ONSET VEPS: IMPLEMENTATION IN CLINICAL DIAGNOSTICS Kubová Z, Kremláček J, Langrová J, Kuba M

14:15 08.2 THE EFFECT OF AGE AND GENDER ON TRANSIENT AND STEADY-STATE PATTERN ELECTRORETINOGRAMS McLaren T, Candy D, Chelva E, De Roach J, Nosce M, Price R

14:30 08.3 INVESTIGATING THE EFFICACY OF PHOTODYNAMIC THERAPY IN AMD PATIENTS WITH THE MULTIFOCAL ERG. Hébert M, Fredette M-J, Skehvat H, Cinq-Mars B, Tardif Y, Malenfant M, Lalonde G

14:45 08.4 CHANGES OF ROD-MEDIATED FUNCTION IN AGE-RELATED MACULAR DEGENERATION Kuze M, Fukunaga T, Matsubara H, Arima M, Uji Y

15:00 08.5 A COMPARISON OF THE FAST STIMULATION MULTIFOCAL ERG IN PATIENTS WITH AN IOL AND IN A CONTROL GROUP Palmowski-Wolfe AM, Woerdehoff U

15:15 08.6 COMPARISON BETWEEN OCT AND ERGS FEATURES IN EYES WITH MACULAR OEDEMA ASSOCIATED WITH RETINAL VEIN OCCLUSION BEFORE AND AFTER INJECTION OF TRIAMCINOLONE Sofroni R, Rigaudiere F, Giraud C, Krivosic V, Paques M, Gaudric A, LeGargasson JF

15:30-16:00 Coffee break

16:00-17:00 2005 ISCEV Scientific Lecture:
Carnegie Lecture Theatre, Charles Oakley Laboratories,
Glasgow Caledonian University

Introduction: David Keating

Professor Wallace Foulds, CBE

Is a low pH the trigger for Retinal or Choroidal Neovascularisation?

18:45 Coaches depart Glasgow Caledonian University
for University of Glasgow

19:00 Reception, Hunterian Museum, University of Glasgow

20:00 Symposium Banquet, Awards and Ceilidh,
Bute Hall, University of Glasgow

23:30/24:00 Coaches depart University of Glasgow for Glasgow Caledonian University