International Society for Clinical Electrophysiology of Vision

The objectives of the society are:

- to promote and extend the knowledge of clinical electrophysiology of vision, and
- to promote co-operation and communication among workers in the field of clinical and basic electrophysiology of vision.

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Sponsors

The 2010 Conference Committee is most appreciative of the sponsorship support provided by:

- Electro-Diagnostic Imaging
- Diagnosys LLC
- LKC Technologies
- QIAGEN
- Roland Consult

Further Information

All enquiries should be directed to the conference organisers:

Promaco Conventions Pty Ltd
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Invitation

On behalf of the organising committee, it gives me great pleasure to welcome you to the XLVIIIth ISCEV Symposium to be held in the historic port city of Fremantle, located approximately 12 km from Perth, Western Australia’s vibrant riverside capital. Fremantle is situated at the mouth of the Swan River, an area of cultural significance to our indigenous people, and boasts an amazing mix of old and new. The symposium is timed to enjoy the best of our Mediterranean spring when maximum temperatures reach a pleasant 26°C.

We are delighted to be able to offer you an excellent scientific program, with an array of distinguished international and regional invited speakers supported by high quality orals and posters from ISCEV colleagues and peers. Thank you to all contributors for this exciting and full program.

One of the many highlights of the meeting, the ISCEV Keynote Lecture, will be presented by Prof. Trevor Lamb and past ISCEV President, Prof. Yozo Miyake, will deliver the prestigious Emiko Adachi Award Lecture. The program features two main themes, Electrophysiology, Genetics and Imaging in Retinal Disease and Stimulus Paradigms in Multifocal Electrophysiology, which will be introduced by Invited Lectures from eminent speakers Prof. David Mackey, Prof. John Hecklenlively and Prof. Erich Sutter. We will be hosting a Special Session on Extended Protocols and two pre-conference courses, Clinical Electrophysiology of Vision (Human) and Animal Electrophysiology and Imaging are planned. All in all, this year’s meeting promises to engender lively debate and stimulating discussion on a wide range of topical issues in a relaxed and congenial atmosphere.

A showcase of innovative technological advances, the trade exhibition forms a significant part of the program and we thank our sponsors for their continued support of ISCEV.

In the social program, we would like to share with you our multicultural blend of fine dining, wide open spaces and friendly outdoor lifestyle culminating in a half-day tour of the wine growing region of the Swan Valley. In addition, the welcome reception, gala dinner and Adachi Award networking function will provide ample opportunity for renewing friendships and social interaction. The accompanying person’s program includes a tour of Fremantle and a Perth city tour for shopping and sight seeing.

Having travelled so far, why not make your stay special and experience further the unique natural beauty of our land. You can visit the famous wine-growing region of Margaret River and nearby giant Karri forests, play with whale sharks and dolphins, explore spectacular coral reefs, gorges and caves, or sample some of the seemingly endless other wonders of this vast land.

We look forward with great enthusiasm to welcoming you and your families personally to Fremantle in November.

Enid Chelva and The Visual Electrophysiology Team of Sir Charles Gairdner Hospital

Keynote speaker

Professor Trevor Lamb
Division of Neuroscience,
John Curtin School of Medical Research,
Australian National University

After obtaining a degree in electronic engineering at Melbourne University, Trevor Lamb transferred to physiology, before travelling to Cambridge in 1971 to undertake his PhD. He was based in Cambridge for 25 years, and in 1993 he was elected a Fellow of the Royal Society. In the following year Trevor was promoted to a chair at Cambridge.

In 2002, Trevor Lamb was awarded a Federation Fellowship at the John Curtin School of Medical Research, Australian National University, which he took up in January 2003.

In collaboration with Shaun Collin (University of Queensland) and Ed Pugh (University of Pennsylvania), Trevor has recently embarked on studies of the evolution of the vertebrate eye.

For a detailed profile of Professor Lamb, visit: http://jcsmr.anu.edu.au/org/dns/visual/index.php

Important dates

Earlybird Registration by  
Friday 1 October 2010

Book accommodation by  
Friday 1 October 2010

ISCEV Teaching Courses  
Friday 5 and Saturday 6 November 2010

Conference Program  
Saturday 6 - Wednesday 10 November 2010

Welcome Reception  
Saturday 6 November 2010

Symposium Banquet  
Monday 8 November 2010

ISCEV Excursion and Olympics  
Tuesday 9 November 2010
ISCEV Teaching Courses

The ISCEV Teaching Courses will be held on Friday 5 November and Saturday 6 November in the Fremantle Esplanade Hotel.

**COURSE 1:**
Clinical Electrophysiology of Vision (Human)
Friday 5 and Saturday 6 November 2010 (Two Days)

Presenters: Graham Holder, Ulrich Kellner, Michael Bach, Charlotte Poloschek, Dorothy Thompson, Chris Hogg

Course 1 Registration Fees (inc GST):
- Earlybird* Member A$594 (A$54 GST)
- Earlybird* Non-Member A$660 (A$60 GST)
- General Member A$693 (A$63 GST)
- General Non-Member A$759 (A$69 GST)

* Earlybird Fees must be paid by Friday 1 October 2010

Min 30 / Max 60

Includes: Two day program, morning/afternoon teas and lunches, course notes and Friday evening dinner.

This course will address all aspects of clinical electrophysiology of vision on human subjects. The presenters will cover technical and practical aspects of recording visual electrophysiology tests, including specialised techniques, and will discuss the origin of the components, interpretation of results and their clinical applications. Commercial electrophysiology systems will be used to demonstrate the techniques and participants will have ample opportunity to undertake supervised hands-on recordings on volunteers.

This course would be beneficial to those embarking on study or research in this area, technicians either new in the field or those wishing to improve their training, and clinicians interested in application of Clinical Electrophysiology of Vision.

Contents:
- Introduction to Clinical Electrophysiology
- Test Overview
- Electrotretinography (ERG)
- Multifocal electrotretinography
- The pattern ERG
- Specialised ERG techniques
- Technical aspects of recording
- Diagnosis of retinal dystrophies
- Practical demonstration
- The Visual Evoked Potential
- Paediatric Techniques
- Making the diagnosis
- “Hands-on” workshop

**COURSE 2:**
Animal Electrophysiology and Imaging
Friday 5 November 2010 (One Day)

Presenters: Mathias Seeliger, Christoph Friedburg, Naoyuki Tanimoto, Suresh Viswanathan, Kristina Narfström

Course 2 Registration Fees (inc GST):
- Earlybird* Member A$440 (A$40 GST)
- Earlybird* Non-Member A$484 (A$44 GST)
- General Member A$539 (A$49 GST)
- General Non-Member A$583 (A$53 GST)

* Earlybird Fees must be paid by Friday 1 October 2010

Min 12 / Max 20

Includes: Full day program, morning/afternoon tea and lunch, course notes and Friday evening dinner.

This course will address aspects of electrophysiology of vision and imaging as applied to animals. It would be suitable for those interested in receiving training on conducting animal electrophysiology and imaging experiments in a research or clinical environment, establishing a new animal research facility or expanding their knowledge base in this area. The presenters will cover technical and practical aspects of conducting visual electrophysiology and imaging tests on animals, relate these to clinical interpretation and demonstrate the procedures on a mouse.

Contents:
- Introduction to Animal Diagnostics
- Photoreceptors I: Outer Segment
- Photoreceptors II: Disease Models
- Synapses and Connections
- Bipolar Cells and Inner Retina
- Large Animal Models
- Practical Issues of Mouse ERG Recordings
- Demonstration: Mouse ERG
- Demonstration: Mouse Imaging
- Practical Mouse ERG Recordings
Provisional program

FRIDAY 5 NOVEMBER 2010

8.00am - 8.30am Course Registration

<table>
<thead>
<tr>
<th>ISCEV TEACHING COURSES</th>
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<tbody>
<tr>
<td>COURSE 1: Clinical Electrophysiology of Vision</td>
</tr>
<tr>
<td>Course Director: Professor Graham E Holder</td>
</tr>
<tr>
<td>COURSE 2: Animal Electrophysiology and Imaging</td>
</tr>
<tr>
<td>Course Director: Professor Mathias Seeliger</td>
</tr>
<tr>
<td>6.30pm - 10.00pm ISCEV COURSES DINNER</td>
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<tr>
<td>at Char Char Bull Restaurant, Fishing Boat Harbour</td>
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</tbody>
</table>

SATURDAY 6 NOVEMBER 2010

8.30am - 4.30pm COURSE 1: Clinical Electrophysiology of Vision continued

<table>
<thead>
<tr>
<th>ISCEV Board Meeting</th>
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<tbody>
<tr>
<td>3.00pm - 7.00pm Symposium Registration</td>
</tr>
<tr>
<td>4.30pm - 6.30pm CLINICAL CASES</td>
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<tr>
<td>7.00pm - 9.00pm WELCOME RECEPTION</td>
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<tr>
<td>Fremantle Esplanade Hotel</td>
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SUNDAY 7 NOVEMBER 2010

8.00am Registration

<table>
<thead>
<tr>
<th>CONFERENCE WELCOME</th>
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<tbody>
<tr>
<td>8.30am WELCOME TO COUNTRY</td>
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<tr>
<td>8.45am PRESIDENT’S ADDRESS</td>
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<tr>
<td>Michael Bach</td>
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<tr>
<td>(President ISCEV)</td>
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<tr>
<td>8.55am OPENING ADDRESS</td>
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<tr>
<td>Lyn Beazley</td>
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<tr>
<td>(Chief Scientist, WA)</td>
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<thead>
<tr>
<th>ORAL SESSION 1: PAEDIATRICS</th>
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</thead>
<tbody>
<tr>
<td>9.15am OS1.01 VEP-based acuity estimation revisited after 600 eyes</td>
</tr>
<tr>
<td>M Bach, S Wozniak, CM Poloschek (Germany)</td>
</tr>
<tr>
<td>9.30am OS1.02 ERGs show increased retinal sensitivity following high-dose vitamin A supplementation of very low birthweight infants: the VitAL study</td>
</tr>
<tr>
<td>R Hamilton, H Mactier, L Farrell, D Young, DL McCulloch, MS Bradnam, P Galloway, T Lavy, J MacKinnon, LT Weaver (UK)</td>
</tr>
<tr>
<td>9.45am OS1.03 Neonatal VEPs to transient and steady-state luminance stimuli: normative data</td>
</tr>
<tr>
<td>DL McCulloch, L McGlone, RG Boulton, E Doherty, R Hamilton, MS Bradnam, H Mactier (UK)</td>
</tr>
<tr>
<td>10.00am INVITED LECTURE</td>
</tr>
<tr>
<td>Exploring new possibilities in visual electrophysiology</td>
</tr>
<tr>
<td>EE Sutter (USA)</td>
</tr>
<tr>
<td>10.30am Morning Tea</td>
</tr>
</tbody>
</table>
## Provisional program

### SUNDAY 7 NOVEMBER 2010

#### ORAL SESSION 2: ADVANCES IN MULTIFOCAL TECHNIQUES

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00am</td>
<td>OS2.01</td>
<td>Luminance-balanced multifocal objective perimetry</td>
<td>T Maddess, M Kolic, RW Essex, AC James (Australia)</td>
</tr>
<tr>
<td>11.15am</td>
<td>OS2.02</td>
<td>Dichoptic suppression of mfvep amplitude: effect of retinal eccentricity and simulated unilateral visual impairment</td>
<td>J Leaney, A Klistorner, H Arvind, SL Graham (Australia)</td>
</tr>
<tr>
<td>11.30am</td>
<td>OS2.03</td>
<td>Using multifocal flicker ERGs to detect small signals</td>
<td>H Jägle, E Zrenner, D Nagy (Germany)</td>
</tr>
<tr>
<td>11.45am</td>
<td>OS2.04</td>
<td>A new multifocal LED stimulator for investigating temporal characteristics</td>
<td>SM Walker, DC Smith, AJ Weir, SJ Morrison, AA Foulis, D Keating, S Parks (UK)</td>
</tr>
<tr>
<td>12.00noon</td>
<td>OS2.05</td>
<td>Multifocal photopic negative responses (mfPhNR) in open angle glaucoma (OAG): comparison of measurement techniques</td>
<td>S Viswanathan, AW Van Alstine, WH Swanson, LJ Frishman, JA Grogg (USA)</td>
</tr>
<tr>
<td>12.15pm</td>
<td>OS2.06</td>
<td>Multifocal pupillography using m-sequence method</td>
<td>SG Coupland, V Patel, J Hamilton, P Paquette (Canada)</td>
</tr>
</tbody>
</table>

#### 12.30pm LUNCH

#### ORAL SESSION 3: NEURO-OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.30pm</td>
<td>OS3.01</td>
<td>Correlations of retinal nerve fiber layer thickness with multifocal photopic negative responses, multifocal electrophotography and pattern electrophotography in patients with normal tension glaucoma</td>
<td>TY Lai, YW Yip, DY Leung, DS Lam (Hong Kong)</td>
</tr>
<tr>
<td>1.45pm</td>
<td>OS3.02</td>
<td>Clinical application of the focal photopic negative response to open angle glaucoma</td>
<td>S Machida, K Tamada, T Oikawa, Y Gotoh, D Yokoyama, T Nishimura, M Kaneko, D Kurosaka (Japan)</td>
</tr>
<tr>
<td>2.00pm</td>
<td>OS3.03</td>
<td>An approach of detecting local glaucomatous ganglion cell loss using microperimetry, SAP, mfVEP and fdOCT</td>
<td>M Wang, VC Greenstein, X Zhang, J Liebmann, R Ritch, DC Hood (USA)</td>
</tr>
<tr>
<td>2.15pm</td>
<td>OS3.04</td>
<td>Looking at non-organic visual loss</td>
<td>G Niemeyer, D Barthelmes (Switzerland)</td>
</tr>
<tr>
<td>2.30pm</td>
<td>OS3.05</td>
<td>How useful is electrophysiology in determining cause of visual dysfunction in neuro-ophthalmology patients?</td>
<td>LY Chen, R Mathur, G Cheung, J Cheng, A Chia (Singapore)</td>
</tr>
<tr>
<td>2.45pm</td>
<td>OS3.06</td>
<td>The retinal ganglion cell layer in optic neuropathies as imaged by frequency-domain OCT</td>
<td>HGH Wildberger, B Toeroek, K Landau (Switzerland)</td>
</tr>
</tbody>
</table>

#### 3.00pm Afternoon Tea

#### 3.30pm - 4.00pm Group Photograph

#### 4.00pm - 5.30pm Poster Session A

### 6.00pm EMIKO ADACHI LECTURE

Establishment of the concept of new clinical entities – complete, incomplete CSNB and occult macular dystrophy

Prof Yozo Miyake - Aichi Medical University (Aichi), National Institute of Sensory Organs (Tokyo), Nagoya University (Nagoya), Japan

### 6.45pm MUSICAL INTERLUDE

### 7.00pm - 9.00pm NETWORKING FUNCTION

Island Suite
## MONDAY 8 NOVEMBER 2010

### ORAL SESSION 4: DRUGS, TOXICITY AND MONITORING OF THE VISUAL SYSTEM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30am</td>
<td>OS4.01</td>
<td>New AAO recommendations for screening of hydroxychloroquine and chloroquine retinopathy: role of electrophysiology</td>
<td>ME Marmor (USA)</td>
</tr>
<tr>
<td>8.45am</td>
<td>OS4.02</td>
<td>Multifocal electroretinography findings in patients taking hydroxychloroquine</td>
<td>CMG Cheung, A Chia, R Mathur, C Luu, J Cheng, LY Chen (Singapore)</td>
</tr>
<tr>
<td>8.57am</td>
<td>OS4.03</td>
<td>Expanded data on hydroxychloroquine retinal toxicity confirms importance of early detection to prevent generalized retinal degeneration</td>
<td>JS Lyons (USA)</td>
</tr>
<tr>
<td>9.09am</td>
<td>OS4.04</td>
<td>Electoretinogram recorded on early postoperative days after vitrectomy</td>
<td>M Horiguchi, A Tanikawa, M Kuze, A Nakamura, I Ueda, Y Shimada (Japan)</td>
</tr>
<tr>
<td>9.21am</td>
<td>OS4.05</td>
<td>Cone photoreceptor dysfunction is related to vigabatrin use in children with infantile spasms</td>
<td>J Sienna, T Wright, C Westall (Canada)</td>
</tr>
<tr>
<td>9.33am</td>
<td>OS4.06</td>
<td>Prevalence of vigabatrin attributed toxicity in a large pediatric cohort</td>
<td>CA Westall, T Wright (Canada)</td>
</tr>
<tr>
<td>9.45am</td>
<td>OS4.07</td>
<td>Introduction to ISCEV KEYNOTE LECTURE</td>
<td>The a-wave: contribution of capacitive currents</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>JG Robson, LJ Frishman (USA)</td>
</tr>
<tr>
<td>10.00am</td>
<td></td>
<td>ISCEV KEYNOTE LECTURE</td>
<td>The cellular origin of different components of the electroretinogram</td>
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<tr>
<td></td>
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<td>Professor Trevor Lamb (Australian National University)</td>
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<tr>
<td>10.30am</td>
<td></td>
<td>Morning Tea</td>
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### ORAL SESSION 5: EXTENDED PROTOCOLS

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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00am</td>
<td>OS5.01</td>
<td>Why we need extended protocols</td>
<td>E Zrenner (Germany)</td>
</tr>
<tr>
<td>11.10am</td>
<td>OS5.02</td>
<td>Procedure for ISCEV approval of extended protocols</td>
<td>ME Marmor (USA)</td>
</tr>
<tr>
<td>11.20am</td>
<td>OS5.03</td>
<td>Luminance-response series for the scotopic b-wave</td>
<td>A Messias (Brazil), H Jägle (Germany), F Gekeler (Germany), R Jorge (Brazil), E Zrenner (Germany), JG Robson (USA)</td>
</tr>
<tr>
<td>11.30am</td>
<td>OS5.04</td>
<td>A-wave estimate of phototransduction</td>
<td>MG Brigell, JG Robson (USA)</td>
</tr>
<tr>
<td>11.40am</td>
<td>OS5.05</td>
<td>Photopic negative response (PhNR): proposed extended protocol, #34</td>
<td>LJ Frishman, JG Robson, S Viswanathan (USA)</td>
</tr>
<tr>
<td>11.50am</td>
<td>OS5.06</td>
<td>Long flash ERG</td>
<td>M Kondo (Japan)</td>
</tr>
<tr>
<td>12.00 noon</td>
<td>OS5.07</td>
<td>Sub-microvolt ERG</td>
<td>A Schatz, R Wilke, E Zrenner (Germany)</td>
</tr>
<tr>
<td>12.10pm</td>
<td>OS5.08</td>
<td>S-cone ERG</td>
<td>G Holder (UK)</td>
</tr>
<tr>
<td>12.20pm</td>
<td></td>
<td>DISCUSSION</td>
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<tr>
<td>12.30pm</td>
<td></td>
<td>LUNCH</td>
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</table>
## MONDAY 8 NOVEMBER 2010

### ORAL SESSION 6: RETINAL DISEASE I - ELECTROPHYSIOLOGY, GENETICS AND IMAGING

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
</tr>
</thead>
</table>
| 1.30pm| INVITED LECTURE | Towards a twin study of electrophysiology  
DA Mackey (Australia) |
| 2.00pm| OS6.01   | Transient pupillary light reflex in relation to fundus autofluorescence and perimetry in typical retinitis pigmentosa  
ZQ Yin, Y Liu, DN Liu, XH Meng (China) |
| 2.15pm| OS6.02   | Visualizing the onset of retinitis pigmentosa  
U Kellner, S Weinitz, S Kellner (Germany) |
| 2.30pm| OS6.03   | Preferential loss of S-cone pathway function in the progress of choroidal osteoma  
H Peng, N Zhang, B Lei (China) |
| 2.45pm| OS6.04   | Estimating progression of generalized retinal dystrophies with the flicker ERG  
CM Poloschek, S Wozniak, M Bach (Germany) |

### Afternoon Tea

<table>
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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>3.30pm - 5.00pm</td>
<td>Poster Session B</td>
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### SWAN RIVER CRUISE AND SYMPOSIUM BANQUET

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 6.30pm - 11.30pm | Royal Perth Yacht Club  
Coach transfer departs for river cruise at 6.30pm |

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**We share your vision.**

The University of Western Australia and the Lions Eye Institute share a commitment to research excellence. The University has proudly supported the Institute's critical research, the training of overseas doctors, and the treatment of curably blind and socio-economically disadvantaged patients throughout its 27-year history. If you wish to achieve international excellence, look no further than UWA. We have the resources, values and vision to enable you to succeed at the very highest level.
**TUESDAY 9 NOVEMBER 2010**

8.00am  Registration

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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30am</td>
<td>OS7.01</td>
<td>INVITED LECTURE Clinical analysis and phenotype correlations in Stargardt disease: prognostic factors</td>
<td>Heckenlively</td>
</tr>
<tr>
<td>9.00am</td>
<td>OS7.02</td>
<td>A longitudinal study of the electroretinogram responses in Stargardt-fundus flavimaculatus</td>
<td>K Fujinami, M Michaelides, N Lois, A Webster, AT Moore, AG Robson, GE Holder (UK)</td>
</tr>
<tr>
<td>9.15am</td>
<td>OS7.03</td>
<td>Evaluation of the relationship between inner retinal structure and function in patients with confirmed ABCA4 mutations</td>
<td>I Sliesoraityte, E Troeger, A Kurtenbach, C Kernstock, S Kohl, E Zrenner (Germany)</td>
</tr>
<tr>
<td>9.30am</td>
<td>OS7.04</td>
<td>Expression of incomplete congenital stationary night blindness in a complicated phenotype</td>
<td>AE Weymouth, AJ Vingrys (Australia)</td>
</tr>
<tr>
<td>9.45am</td>
<td>OS7.05</td>
<td>Inner retinal dysfunction in S-cone pathways is associated with reduced glycemic control</td>
<td>MT McFarlane, T Wright, CA Westall (Canada)</td>
</tr>
<tr>
<td>10.00am</td>
<td>OS7.06</td>
<td>Retinal Guanylatcyclase or GuC-activating protein dysfunction: does it make a phenotypical difference?</td>
<td>D Zobor, E Zrenner, B Wissinger, S Kohl, H Jägle (Germany)</td>
</tr>
<tr>
<td>10.15am</td>
<td>OS8.01</td>
<td>Electronic implants provide continuous stable percepts in blind volunteers only if the image receiver is directly linked to eye movement</td>
<td>E Zrenner, H Benav, A Bruckmann, U Greppmaier, A Kusnyerik, A Stett, K Stingl, R Wilke (Germany)</td>
</tr>
<tr>
<td>10.30am</td>
<td>OS8.02</td>
<td>Morphological and electrophysiological changes of inner retina after macular hole surgery</td>
<td>R Kimoto, T Sugawara, E Sato, E Ohoka, F Kajita, S Yamamoto (Japan)</td>
</tr>
<tr>
<td>10.45am</td>
<td>OS8.03</td>
<td>Changes in mfERG response in patients with AMD treated with Ranibizumab</td>
<td>RP Hagan, C Campa, MC Brown, L Milner, SP Harding (UK)</td>
</tr>
<tr>
<td>11.00am</td>
<td>OS8.04</td>
<td>Significant correlations between ERG components and VEGF concentration in aqueous humor in eyes with central retinal vein occlusion</td>
<td>M Kondo, S Yasaki, S Kachi, CH Piao, S Ueno, H Terasaki (Japan)</td>
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</tbody>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00am</td>
<td>OS8.01</td>
<td>Electronic implants provide continuous stable percepts in blind volunteers only if the image receiver is directly linked to eye movement</td>
<td>E Zrenner, H Benav, A Bruckmann, U Greppmaier, A Kusnyerik, A Stett, K Stingl, R Wilke (Germany)</td>
</tr>
<tr>
<td>11.30am</td>
<td>OS8.02</td>
<td>Morphological and electrophysiological changes of inner retina after macular hole surgery</td>
<td>R Kimoto, T Sugawara, E Sato, E Ohoka, F Kajita, S Yamamoto (Japan)</td>
</tr>
<tr>
<td>11.45am</td>
<td>OS8.03</td>
<td>Changes in mfERG response in patients with AMD treated with Ranibizumab</td>
<td>RP Hagan, C Campa, MC Brown, L Milner, SP Harding (UK)</td>
</tr>
<tr>
<td>12.00am</td>
<td>OS8.04</td>
<td>Significant correlations between ERG components and VEGF concentration in aqueous humor in eyes with central retinal vein occlusion</td>
<td>M Kondo, S Yasaki, S Kachi, CH Piao, S Ueno, H Terasaki (Japan)</td>
</tr>
</tbody>
</table>

**ISCEV Excursion and Olympics**

The ISCEV Excursion and Olympics, to be held on Tuesday 9 November, will be an enjoyable and entertaining experience for all delegates. The excursion will visit the beautiful Swan Valley, one of Perth’s premier tourist spots, where delegates will meet a kangaroo or two and enjoy some wine tasting, followed by a few typical Australian outback events. Delegates will be invited to “have a go mate” in the activities.

The day will conclude with a barbecue at a winery alongside the beautiful Swan River, before returning to the Esplanade Hotel around 11.00pm.

**ISCEV Excursion and Olympics**

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The day will conclude with a barbecue at a winery alongside the beautiful Swan River, before returning to the Esplanade Hotel around 11.00pm.
## Provisional program

### WEDNESDAY 10 NOVEMBER 2010

#### ORAL SESSION 9: ANIMAL MODELS, ELECTROPHYSIOLOGY AND IMAGING

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30am</td>
<td>OS9.01</td>
<td>Correlation between mfERG measures of inner retinal function and local ganglion cell-inner plexiform layer thickness in macaque eyes</td>
<td>X Luo, NB Patel, RS Harwerth, LJ Frishman (USA)</td>
</tr>
<tr>
<td>8.42am</td>
<td>OS9.02</td>
<td>Mitochondrial impairment results in increased susceptibility to injury in retinal neurons</td>
<td>YXG Kong, IA Trounce, BV Bui, N Van Bergen, V Chrysostomou, H Waugh, A Vingrys, JG Crowston (Australia)</td>
</tr>
<tr>
<td>8.54am</td>
<td>OS9.03</td>
<td>Role of retinal ganglion cells (RGCs) in generation of rabbit oscillatory potential (OP)</td>
<td>C-J Dong, P Agey, WA Hare (USA)</td>
</tr>
<tr>
<td>9.06am</td>
<td>OS9.04</td>
<td>Successful treatment of nonarteritic anterior ischemic optic neuropathy (NAION) in rodent and primate animal models</td>
<td>MA Johnson (USA), V Touitou (France), NR Miller, JD Nicholson, SL Bernstein (USA)</td>
</tr>
<tr>
<td>9.18am</td>
<td>OS9.05</td>
<td>Light induced retinopathy mimics age-related macular degeneration in rats: histological and mfERG evidences</td>
<td>A Polosa, P Lachapelle (Canada)</td>
</tr>
<tr>
<td>9.30am</td>
<td>OS9.06</td>
<td>Implication of dopamine in the rod retinal response and psychiatric disorders</td>
<td>M Hebert, J Lavoie, J-M Beauleau (Canada)</td>
</tr>
<tr>
<td>9.42am</td>
<td>OS9.07</td>
<td>Arctic reindeer extend their visual sensitivity into the ultraviolet</td>
<td>C Hogg, MM Neveu (UK), KA Stokkan, LP Folkow (Norway), P Cottril, R Douglas, DM Hunt (UK), G Jeffery (Australia)</td>
</tr>
<tr>
<td>9.54am</td>
<td>OS9.08</td>
<td>Impaired rod output control by HCN1 channels disrupts regular rod-cone pathway interaction</td>
<td>N Tanimoto, A Brombas, R Weiler (Germany), P Humphries (Ireland), F Mueller, MW Seeliger (Germany)</td>
</tr>
<tr>
<td>10.06am</td>
<td>OS9.09</td>
<td>Retinal function recovery in retinal degeneration minipigs after human fetal retinal transplantation</td>
<td>SY Li, ZQ Yin, SJ Chen, LF Chen, Y Liu (China)</td>
</tr>
<tr>
<td>10.18am</td>
<td>OS9.10</td>
<td>Gene therapy restores functional and morphological impairment of cone vision in the CNGA3-/- mouse model of achromatopsia</td>
<td>S Michalakis, R Muhlfriedel, N Tanimoto, V Krishnamoorthy, S Koch, MD Fisher, E Becirovic, L Bai, G Huber, SC Beck, E Fahl, H Buning, F Paquet-Durand, X Zong, T Gollisch, M Biel, MW Seeliger (Germany)</td>
</tr>
<tr>
<td>10.30am</td>
<td></td>
<td>Morning Tea</td>
<td></td>
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</tbody>
</table>

#### ORAL SESSION 10: METHODOLOGY

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00am</td>
<td>OS10.01</td>
<td>A multi-centre trial of flicker ERG inter-stimulus interval measurement</td>
<td>MS Bradnam, RG Boulton, R Hamilton D Smith (UK)</td>
</tr>
<tr>
<td>11:15am</td>
<td>OS10.02</td>
<td>Objective measures of present: not present responses in the electroretinogram: the magnitude squared coherence and bootstrap statistics compared</td>
<td>AC Fisher, DM Simpson, MC Brown, RP Hagan, L Milner, MJ Austin (UK)</td>
</tr>
<tr>
<td>11:30am</td>
<td>OS10.03</td>
<td>Assessing the function of the retinal S-cone system</td>
<td>M Sustar, J Brecelj (Slovenia)</td>
</tr>
<tr>
<td>11:45am</td>
<td>OS10.04</td>
<td>Photopic oscillatory electroretinograms</td>
<td>P Lachapelle, S Laporte, M Gauvin, J Racine, A Dargman, JM Little, RK Koenekoop J-M Lina (Canada)</td>
</tr>
<tr>
<td>12:00noon</td>
<td>OS10.05</td>
<td>Human visual system dynamics in normal and abnormal development (amblyopia): insights from chaos theory</td>
<td>MY Boon, CS Suttle, BS Chu (Australia)</td>
</tr>
<tr>
<td>12:15pm</td>
<td>OS10.06</td>
<td>A multilayered approach to the automatic analysis of multifocal ERG waveforms</td>
<td>A Foulis, S Parks, D Keating (UK)</td>
</tr>
<tr>
<td>12:30pm</td>
<td></td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>1:30pm</td>
<td></td>
<td>ISCEV Membership Meeting</td>
<td></td>
</tr>
<tr>
<td>3:00pm</td>
<td></td>
<td>Symposium Closing and Happy Hour</td>
<td></td>
</tr>
</tbody>
</table>
Poster sessions

POSTER SESSION A: Sunday 7 November 4.00pm - 5.30pm

A1 - ERG oscillatory potential evaluation in time and frequency domain
E Jafarzadehpur, H Hashemi (Iran)

A2 - The change of the photopic negative response and oscillatory potentials of the electroretinogram in ocular ischemic syndrome
Y Yang, Y Liu, Z Yin (China)

A3 - Ocular medulloepithelioma presenting as primary glaucoma
YP Li, H Liu, YG Ding, WX Zhang, JX Lin (China)

A4 - Development of retinal function in full-term infants and infants with ROP by F-ERG
M Su, L Chen, ZH Sun, W Zheng, SG Ren, HL Hua (China)

A5 - Ocular dominance plasticity in juvenile Long Evans rats
JP Yao, ZQ Yin, SJ Wang (China)

A6 - Study of visual evoked potential in the children suffering from congenital glaucoma
S Shushtarian, M Jamshidi, M Malek (Iran)

A7 - Diagnosis of optic nerve diseases in patients with senile hypermetameric cataract with flash VEP
SM Shushtarian, M Azarmina, H Azarmina (Iran)

A8 - Seasonal variations in the visual sensitivity of arctic reindeer
MM Neveu, C Hogg (UK), KA Stokkan, LP Folkow (Norway), G Jeffery (UK)

A10 - Evaluation of the photopic negative response in New Zealand white rabbits with retrobulbar optic neuropathy
PP Ko, GG Gum, R Sun, VA Ackley, RAP Carvalho (USA)

A11 - Changes in the photopic negative response of the flash electroretinogram after intravitreal injection of triamcinolone acetonide for macular edema in central retinal vein occlusion
C Chen, C Feng, A Yang, C Mei, L Yi (China)

A12 - Color vision abnormalities in women with autoimmune diseases taking chloroquine
MM Shushtarian N Talebi (Iran)

A13 - Effect of contrasts, 9- or 17-regions and three viewing distances on multifocal steady-state visual evoked potential (MSV)
SN Abdullah, Vaegan, N Al-Dahlawi, CM Suttle, MY Boon, T Maddess (Australia)

A14 - Electrophysiological manifestations in optic neuritis due to solvent abuse – Case Report
BQ Qi, J Mclay, R Lienert (New Zealand)

A15 - Comparison of VEP signals in amblyopic and normal eyes
E Jafazadehpur, M Amiri, H Ashyere (Iran)

A16 - The influence of perindopril on retinal function in diabetic retinopathy
V Neroev, I Tsapenko, M Ryabina, M Zueva, T Okhatimskaya, M Grinchenko (Russia)

A17 - Reliability of acuities determined with the sweep visual evoked potential (sVEP)
WH Ridder III, A Tong, T Floresca (USA)

A18 - Changes in the dc-ERG and retinal pigment epithelium occur quickly after onset of hyperglycemia in mouse models of diabetic retinopathy
IS Samuels, A Cutler, B Anadn-Apte, NS Peachey (USA)

A19 - Correlation between functional and structural assessments by multifocal electroretinography and optical coherence tomography in patients with idiopathic epiretinal membrane
YWY Yip, ACT Fok, JWS Ngai, TTY Lai (Hong Kong)

A20 - Retinal symmetry of the multifocal visual evoked potential in both eyes of normal subjects
SZ Huang, XP Hu, SX Long, FT Jiang, GW Luo, JI Liang, DZ Wu, LA Wu (China)

A21 - The findings of multifocal electroretinogram and spectral domain optical coherence tomography of retinal maculopathy associated with tacrolimus (FK 506)
TH Go, SH Baek, US Kim (Korea)

A22 - Visual assessment of the osteogenesis imperfect mouse as a pathological model of glaucoma with a thin central cornea
AB Brandli, G Kong, B Savarirayan, K Burdon (Australia)

A23 - Transcorneal electrical stimulation as a new treatment modality for degenerative retinal disease – results from a study in patients with retinitis pigmentosa
T Rock, A Schatz, L Nayeche, G Willmann, KU Bartz-Schmidt, E Zrenner, F Gekeler (Germany)

A24 - Contribution of electrophysiology in controversial diagnoses
AP Tormene, C Riva, E Longhin

A25 - The pupil responses to visual attention in multifocal pupillography
Y Rosli, T Maddess, Y Ho, C Carle, M Kolic, AC James (Australia)

A26 - Slow double-flash mfERG paradigm for the detection of glaucoma
HHL Chan, YF Ng, PWK Ting, PHW Chu (Hong Kong)

A27 - Staurosporine-induced deficits in rat retinal function
Ti Tsai, AJ Vingrys, BV Bui (Australia)

A28 - Photopic negative response and photopic oscillatory potentials simultaneously recorded in patients with acute optic neuritis
T Sugawara, S Nonomura, R Kimoto, S Yamamoto (Japan)

A29 - Multifocal electroretinography in type 2 idiopathic macular telangiectasia
PK Rani, R Narayanan, J Chhablani, RK Reddy, S Jalali (India)

A30 - Retinocortical time in normal subjects and in patients with multiple sclerosis
MA Arakelian, NB Mansurina, SY Rogova, AM Shamshinova (Russia)
Poster sessions

POSTER SESSION A continues

A31 - Transcorneal electrical stimulation on a patient with Best vitelliform macular dystrophy
N Ozeki, K Shinoda, H Ohde, K Tsunoda, G Hanazono, I Kimura (Japan)

A32 - The relationship of postoperative visual acuity, OCT and preoperative full field ERG with different stimulation intensities in cataracts
RL Gao, HS Chen, CC Yao, JI Zhang, DZ Wu, JJ Liang (China)

A33 - Use of data-smoothing to reduce variability of a- and b-wave amplitudes and implicit times in luminance response series
T Strasser, T Peters, R Wilke, H Jägle, E Zrenner (Germany)

A34 - Clinical findings of a visual disturbance suspected in association with thinner sniffing
Y Mochizuki, A Mizota, I Kimura, M Tanaka (Japan)

A35 - A case of suspected psychogenic visual disturbance with bilateral pseudopapilledema
R Wakasa, A Mizota, I Kimura, Y Tamiya, M Tanaka (Japan)

A36 - Continuous-wavelet transform as a tool for analyzing and denoising the pattern-reversal visual evoked potential
CS Matsumoto, K Shinoda, S Satofuka, K Seki, H Matsumoto, A Mizota (Japan)

A37 - Comparison of multifocal pattern ERG and full-field pattern VEP recordings
A Kurtenbach, N Ballarin, A Messias, T Rock, E Zrenner (Germany)

A38 - The photopic negative response and optical coherence tomography in patients with non proliferative diabetic retinopathy
YH Ohn, JY Park, SY Jang, TK Park (Korea)

A39 - Unusual retinal dystrophy?
R Mathur, J Cheng, A Chia (Singapore)

A40 - Axonal loss not associated with chronic demyelination after ON-preliminary results
A Klistorner, C Yiannikas, R Garrick, H Arvind, M Korsakov (Australia)

A41 - Electrophysiologic and histopathologic findings in POMGnT1-deficient mice: A model of muscle-eye-brain disease
S Satofuka, A Mizota, K Shinoda, CS Matsumoto, H Takahashi, S Kameya, H Takahashi (Japan)

A42 - The multifocal ERG in assessment of hydroxychloroquine toxicity
E Chelva, J DeRoach, S Laurin, T McLaren, R Price (Australia)

A43 - Contrast sensitivity testing: a comparison of two methods
S Laurin, E Chelva, T McLaren, M Dolliver, R Price (Australia)

A44 - Evaluation of normal data from lateral channels for VEP
M Dolliver, E Chelva, T McLaren, J De Roach, R Price (Australia)

POSTER SESSION B: Monday 8 November 3.30pm - 5.00pm

B1 - Multifocal electroretinography of myopic foveoschisis
BK Loh, R Mathur, J Cheng, C Luo, D Wong (Australia)

B2 - The effect of different forms of light on TGF-β2 secretion of guinea pig retinal pigment epithelial cells in vitro
YJ Qin, CY Wang (China)

B3 - Preliminary study on change of mfERG in RCS rats after OC-RSCs subretinal transplantation
XY Huang, ZQ Yin (China)

B4 - Local perfusion of chondroitinase ABC influences the developmental changes of NR2A in rat visual cortex
W Qin, M Liu, ZQ Yin (China)

B5 - Morphological and electrophysiological modifications of ON-retinal bipolar cell in the RCS rat
CX Zhang, ZQ Yin, LF Chen, CH Weng, YX Zeng (China)

B6 - Objective ERP-based estimation of visual acuity with Landolt C stimuli
SP Heinrich, I Willigmann, M Bach (Germany)

B7 - Investigation of wavelet transform of multifocal visual evoked potential for detecting defects in visual field
J Thie, SL Graham, A Klistorner (Australia)

B8 - A realistic stochastic noise model of the electroretinogram
AC Fisher, A Eleuteri, SP Lake, DM Simpson, CM Brown, RP Hagan, L Milner, MJ Austin (UK)

B9 - Compound heterozygote mutations LEU67ARG and TYR368CYS in RPE65 associated with LCA in a Chinese family
R Sui, F Xu, Q Dong (China)

B11 - Study of the visual evoked potential in subjects undergoing LASIK surgery
SM Shushtarian, E Esmati, N Atefi, AH Najafi (Iran)

B12 - Study of the electrooculogram in subjects undergoing LASIK surgery
SM Shushtarian, N Atefi, E Esmati, AH Najafi (Iran)

B13 - Study of the electroretinogram in patients suffering from retinal hemorrhage
SM Shushtarian, A Hadizadeh (Iran)

B14 - Comparison of electrooculography and Ishihara test in diagnosis of retinal function in the juvenile rheumatoid arthritis patients consuming hydroxychloroquine
SM Shushtarian, E Matini, B Mohtasham Alsharief (Iran)

B15 - Phenotype-genotype correlation for Bothnia dystrophy
M Burstedt, M Kivistö, I Golovleva (Sweden)

B16 - Recording the photopic negative response after intravitreal bevacizumab in exudative age-related macular degeneration
C Chen, C Feng, A Yang, C Mei, Y Lianfang (China)

B17 - ON-pathway retinal deficit in association with congenital disorder of glycosylation (CDG1a)
RJ Lyons, S Grunewald, A Liasis, I Russell-Eggitt, DA Thompson (UK)
Poster sessions

POSTER SESSION B continues

B18 - Analysis of spectral domain optical coherence tomography findings in occult macular dystrophy
YG Kim, SH Baek, SW Moon, HK Lee, US Kim (Korea)

B19 - Study of color vision ability in human beings using the electrooculogram
SM Shushtarian, F Adhami Moghadam, O Taherizadeh Marvast (Iran)

B20 - A case with delayed neurologic damage caused by carbon monoxide poisoning initially suspected as having psychogenic visual disturbances
H Yamazaki, YZ Choi, H Sekine, M Nakamura, M Inagaki, (Japan)

B21 - A case of bilateral acute acquired dysfunction of short-wavelength-sensitive cone systems
H Sakuramoto, K Kuniyoshi, A Nakaq, Y Okazaki, S Takada, C Matsumoto, Y Shimomura (Japan)

B22 - Focal cone ERG changes during retinal degeneration in rhodopsin Pro347Leu transgenic rabbits
S Ueno, M Kondo, T Koyasu, S Yasuda, H Terasaki (Japan)

B23 - A case of acute zonal occult outer retinopathy with abnormal visual evoked potentials
Y Chai, H Yamazaki, K Fujinami, S Yamamoto (Japan)

B24 - Morphological changes of the macula in occult macular dystrophy determined by spectral-domain optical coherence tomography
S Yasuda, M Kondo, S Ueno, Y Ito, H Terasaki (Japan)

B25 - Occult macular dystrophy and retinitis pigmentosa in the same pedigrees
H Kubono, K Tsunoda, K Fujinami, M Fukui, K Shinoda, G Hanazono, Y Miyake (Japan)

B26 - The effects of unilateral exudative age-related macular degeneration on pattern-pulse multifocal visual evoked potentials
F Sabeti, TL Maddess, RW Essex, AC James (Australia)

B27 - Inner retinal function in diabetic rats following acute IOP elevation
K Kohzaki (Japan), AJ Vingrys, BV Bui (Australia)

B28 - Pattern-reversal visual evoked potentials: Usefulness of liquid crystal display monitors as a visual stimulator
K Matsumoto, CS Matsumoto, S Satofuka, K Seki, H Matsumoto, H Funada, K Shinoda, A Mizota (Japan)

B29 - Electrophotographic function of the retina in SOD 3 knockout mice
L Wang, M Burstvedt, L Wachtmeister (China)

B30 - Usher sub-type distribution in the Australian population
E O’Brien, J De Roach, L Hoffmann, T McLaren, E Chelva, T Lamsey (Australia)

B31 - The Australian inherited retinal disease register and DNA bank
J De Roach, T Lamsey, T McLaren, E O’Brien, L Hoffmann, E Chelva (Australia)

B32 - Poor flash VEPs to red LED stimulation; a cautionary tale
PF Weston (Australia)

B33 - Prevalence of vitreoretinal abnormalities in retinitis pigmentosa - an OCT study of Indian eyes
PK Rani, R Narayanan, S Jalali (India)

B34 - Study of clinical profile and electroretinogram (ERG) in patients with rod monochromatism
PK Rani, D Prabhavathi, V Pawan, S Jalali (India)

B35 - Macular dystrophy associated with subfoveal outer segment mini-cystoid lesions: a novel sdOCT sign
S Kellner, S Weinitz, U Kellner (Germany)

B36 - Clinical application of electrical retinal stimulation
K Shinoda, H Ohde, K Tsunoda, G Hanazono, K Inomata, S Matsumoto, A Mizota, N Ozeki, I Kimura, Y Miyake (Japan)

B37 - Genetic diagnosis of Australian families with autosomal recessive retinitis pigmentosa by SNP genotyping cosegregation analyses
RL Paterson, J De Roach, T Lamsey (Australia)

B38 - Two cases of autosomal dominant optic atrophy diagnosed by OPA1 mutation
A Usui, A Mizota, I Kimura, T Hamahata, T Fujimake, A Murakami, M Tanaka (Japan)

B39 - Electroretinographic features in patients with enhanced S-cone syndrome
M Sustar, M Hawlina, J Brecceli (Slovenia)

B40 - Multifocal ERG, chromatic macular ERG and retinocortical time in congenital stationary night blindness
IV Zolnikova, EV Rogatina, IV Egorova (Russia)

B41 - Relationship between multifocal electroretinography and SD0OCT in patients with advanced retinitis pigmentosa
SY Lee, SY Jang, TK Park YH Ohn (Korea)

B42 - Classification of electrophysiology of childhood retinal dystrophies
M Brown, A Chanda, R Hagan (UK)

B43 - Genetic characterization by genotyping microarray of Australian families affected by recessive Stargardt Disease and Cone-Rod Dystrophy
T Lamsey, L Hoffmann, E O’Brien, J De Roach (Australia)

B44 - Genotypic/phenotypic analysis of choroideraemia families in Australia
TL McLaren, EC O’Brien, JN De Roach, HL Hoffmann, EC Chelva, TM Lamsey (Australia)
Social program

Saturday 6 November 2010
Welcome Reception
Poolside, Fremantle Esplanade Hotel
7.00pm - 9.00pm
A perfect opportunity to renew former acquaintances or make some new friends before the symposium sessions start.
Included for full delegates.
Guest tickets: A$66 inc GST

Sunday 7 November 2010
Networking Function
Island Suite, Fremantle Esplanade Hotel
6.00pm - 9.00pm
A musical interlude will follow the Emiko Adachi Award Lecture (partners welcome) and then delegates will adjourn to the Island Suite for some networking and social interaction. Light snacks and wines will be served.
Included for full delegates.
Guest tickets: A$66 inc GST

Monday 8 November 2010
Swan River Cruise and Symposium Banquet
Royal Perth Yacht Club
6.30pm - 11.30pm
The dinner is a highlight of every symposium and this one will be no exception with a cruise along the beautiful Swan River to the Royal Perth Yacht Club for some fine dining and entertainment.
Coach transfer to the East Street Jetty for the cruise, departs from the Fremantle Esplanade Hotel at 6.30pm.
Included for full delegates.
Guest tickets: A$132 inc GST

Tuesday 9 November 2010
ISCEV Excursion and Olympics
includes Swan Valley and Waters Edge Winery
12.00noon - 11.00pm
The traditional ISCEV Excursion and Olympics will be an enjoyable and entertaining experience for all delegates. The excursion will visit the beautiful Swan Valley, one of Perth’s premier tourist spots, where delegates will meet a kangaroo or two and enjoy some wine tasting, followed by a few typical Australian outback events. Delegates will be invited to “have a go mate” in the activities arranged.
The day will conclude with an evening barbecue at a Waters Edge Winery alongside the beautiful Swan River, before returning to the Esplanade Hotel around 11.00pm.
Included for full delegates.
Guest tickets: A$176 inc GST adult / A$88 child 7-12 yrs

Social extras

Thursday 4 to Saturday 6 November 2010
ISCycle Tour
Join your fellow biking enthusiasts on the traditional two and a half day ISCYCLE tour. It will take you through the scenic hills of the Darling Range on the outskirts of Perth, around the majestic Swan River and along the pristine beaches of our beautiful coastline. All you need is an average level of fitness as a support vehicle will be available for those who need a break. Numbers strictly limited. Estimated cost is A$90 inc GST for bike and equipment hire, support vehicle, transport and contingencies.
Please register your interest on the form.

Wednesday 10 November 2010
Golf Afternoon at Royal Fremantle Golf Club
2.00pm – 7.00pm
Estimated cost of A$90 inc GST includes green fees for 18 holes, equipment hire and transport.
Please register your interest on the form.

The Emiko Adachi Award

The Emiko Adachi Award, to the value of $3000, is provided through a generous endowment from Emiko Adachi upon retirement from her position as Professor and Chair of the Department of Ophthalmology at Chiba University, Japan. Hers was a long and glorious career with many honours, culminating in official recognition from the Japanese government. Despite all of this, she remained extraordinarily proud of her long membership of ISCEV, and her outstanding record of service to this society.
The Award is given to those who, in some measure, have matched this record of service to ISCEV.
The Emiko Adachi Award Lecture for 2010 will be given by Professor Yozo Miyake.

Professor Yozo Miyake, MD is currently Chairman of the Board of Directors at Aichi Medical University in Nagoya, Japan. He graduated in 1967 with an MD from Nagoya University, and after receiving the Alcon Award in 1996 he became Professor and Chairman in Ophthalmology in 1997. Professor Miyake received the Yomiuri-Press Medical Award in 1998 and in 2000 was appointed President of ISCEV. He went on to also receive the Japanese Ophthalmological Society Award, the Pfizer Opthalmic Award in 2005 and the De Ocampo Award in 2006. He was appointed Director of the National Institute of Sensory Organs in Tokyo in 2005 and was also Editor-in-Chief for the Japanese Journal of Ophthalmology.

Professor Miyake has also written a book, Electrodiagnosis of Retinal Disease, a valuable resource for clinicians and researchers, which is the first to combine retinal physiology, morphology, and vitreoretinal surgery.
Accompanying Person’s

Two special tours for partners of delegates are offered on Sunday and Monday of the symposium. A minimum of 15 participants is required for each tour to proceed and early booking is required.

Partners are also invited to attend the Official Opening Ceremony on Sunday 7 November.

Sunday 7 November 2010

Discover Fremantle
10.00am - 4:00pm

Fremantle, or “Freo” as it is known to the locals was established as a port in 1829. Supporting the fledgling Swan River Colony the port city soon became the major city in Western Australia and remained so for much of its early history. Fremantle survived the trend of building demolition and has become the best preserved example of a 19th century seaport in the world. Fremantle entered the global stage in 1987 when it played host to the America’s Cup and is set to host the world Sailing Championships in 2011.

Our Fremantle discovery includes a tour of the city which paints a picture of those early settlement days as we visit perfectly preserved examples of 19th century architecture. We will go back in time to the early convict era and tour the Fremantle Prison, built in the 1850’s by the convicts themselves. The prison tour offers a unique opportunity to witness the conditions of the early convicts with its thick limestone walls, solitary cells and gallows. The Prison’s experienced tour guides take visitors on a journey of daring escapes and colourful characters that feature in tales laced with prison humour covering the whole 140 year period of incarceration.

Lunch with a taste of the sea awaits on the fishing boat harbour quayside and following a scenic drive along the sparkling blue waters of our coastline, a viewing of the magnificent pearls of Western Australia awaits.

Cost: A$154 inc GST adult / A$66 child 7-12 yrs
Dress: Casual, comfortable shoes

Monday 8 November 2010

Welcome to Perth
9:00am - 4:30pm

We invite you to spend a day discovering some of the unique experiences to be found in Perth and find your bearings with the help of our friendly guide, who comes armed with expert local and historical knowledge.

First up, we visit the Swan Bells. Take the chance to ring these historic bells which originally hung in the Church belfry of St Martins in the Field, Trafalgar Square, London. The bells date back to before the 15th century. They now ring out over Perth and the Swan River and are the only Royal Bells to ever leave England, gifted to the people of Western Australia during the Australian bicentenary celebrations of 1988.

Next is a visit to Kings Park, the beautiful city centre park with 400 hectares of native bush right overlooking the Central Business District. We will see more of this pristine native bush park and botanical garden with a walk along the tree tops path. The park is also home to the State War Memorial, with the city skyline and Swan River providing a stunning back drop.

Following a leisurely lunch, we move on to the Perth Mint. This fully operational Mint is the only working mint remaining in the southern hemisphere in its original premises. Here we will have the opportunity to watch a gold pouring in the original melt room and learn a little about the “Golden” beginnings to commerce in Western Australia.

We return to the Esplanade Hotel by 4.30pm, in time to freshen up for the Monday night function.

Cost: A$165 inc GST adult / A$66 child 7-12 yrs
Dress: Casual, comfortable shoes

Optional tours

In addition to the organised tours offered to partners, a range of optional tours is available before, during and after the symposium period. Please note that these tours are offered to all visitors to Perth and have not been specially arranged for the symposium.

Visit Discover West Holidays at www.discoverwest.com.au for some ideas of what to see and do.

Discover West also offer a wide range of pre or post conference touring options to all regions of Western Australia - North, South, East and West, one day or extended tours, self-drive, coach or by air. Visit www.discoverwest.com.au for the full range of tours available.
How to register

Delegates can register by email, mail or fax. Full symposium details and a downloadable pdf registration form are also available at:


All delegates (including speakers) must complete a registration form for administrative purposes.

Full Registration includes:

- all lectures, posters and exhibits;
- morning/afternoon teas and lunches;
- Welcome Reception, Emiko Adachi Award Lecture Function, Symposium Dinner and the ISCEV Excursion Day (Olympics)

Method of Payment

Payment must accompany the registration form and should include (as appropriate): registration fees, hotel deposit (one night’s tariff), tours and social functions.

Payments can be made by EFT, credit card, cheque or for international delegates, bank draft in Australian dollars. Personal or company cheques will not be accepted from international delegates. Please note that all payments made by credit card will be subject to a 3% bank fee on the total amount.

Acknowledgement

Registrations received prior to Friday 29 October 2010 will be acknowledged in writing. Delegates are asked to check their confirmation letter and advise the organisers immediately, if changes/amendments are required. For registrations made after Friday 29 October 2010, please telephone or email the secretariat to confirm receipt of your registration.

Dietary Requirements

Delegates with special dietary needs must advise Promaco Conventions via the registration form or in writing to ensure they are suitably catered for.

Registration fees in Australian dollars and inclusive of GST

<table>
<thead>
<tr>
<th></th>
<th>ISCEV Member</th>
<th>Non-member</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full Registration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earlybird*</td>
<td>A$880 (A$80 GST)</td>
<td>A$990 (A$90 GST)</td>
</tr>
<tr>
<td>General</td>
<td>A$946 (A$86 GST)</td>
<td>A$1056 (A$96 GST)</td>
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<tr>
<td>Registration</td>
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<td>A$440 (A$40 GST)</td>
</tr>
<tr>
<td><strong>Student/Trainee/Junior</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration^ Earlybird*</td>
<td>A$737 (A$67 GST)</td>
<td>A$880 (A$80 GST)</td>
</tr>
<tr>
<td>Registration^ General</td>
<td>A$836 (A$76 GST)</td>
<td>A$946 (A$86 GST)</td>
</tr>
</tbody>
</table>

* Earlybird fees must be paid by Friday 1 October 2010
^ Junior Rate also applies to Emeritus Fellows

IMPORTANT NOTE:

Payment in FULL must be received by the symposium secretariat to enable delegates to collect their symposium information and attend the sessions. Please ensure that your organisation/institution has finalised all necessary payments prior to symposium registration day - Saturday 6 November 2010.

Registration Desk

The registration desk in the Fremantle Esplanade Hotel will open from 8.00am on Friday 5 November for the ISCEV courses and on Saturday 6 November from 3.00pm to 7.00pm for symposium registrations. The registration desk will be open daily during the symposium for the collection of delegate kits and general assistance.

Cancellations and refunds

Registration: cancellation of registration must be advised in writing. Cancellations made before Friday 8 October 2010 will incur a penalty fee of A$132. Refunds of fees after this time will only be made in exceptional circumstances. Substitute delegates will be accepted and details must be advised in writing. Please note that cancellations made in the few weeks prior to the symposium, will be processed after the symposium.

Accommodation: cancellation of accommodation must be advised in writing. Each hotel reserves the right to charge delegates for non-arrival on the dates pre-booked and/or no-shows.

Tours and Social Functions: no refunds will be given for tours or social functions cancelled by delegates after Friday 22 October 2010 or missed during the symposium.

If, for reasons beyond the control of the organisers, the symposium were to be cancelled, fees minus deduction of expenses incurred would be refunded.
Venue and location

The Symposium will be held at the Esplanade Hotel corner of Marine Terrace and Essex Street, Fremantle. This relaxed and historic port city has a diverse mix of old and new and the range of activities for all ages is endless.

Tour the streets and discover art and craft galleries and the famous Fremantle Markets. Sample boutique beers in one of the nearby brewery pubs or enjoy seeing the sun set over the ocean.

Fremantle is within easy reach of the beaches of the Indian Ocean, Rottnest Island and Western Australia’s capital, Perth, with the Margaret River wine region only a few hours away.

Airport transfers: Taxi fare to Fremantle is around A$50 from Perth Domestic Airport. Travelling time by car is approximately 45 minutes. Coach transfers to Fremantle operate 24 hours daily to suit flight arrival and departure times. Bookings can be made by calling the Fremantle Shuttle on +61 8 9335 1614 or emailing rez@fremantleairportshuttle.com.au.

Please note that all conference and accommodation enquiries should be directed to the secretariat: Promaco Conventions on telephone: +61 8 9332 2900, facsimile +61 8 9332 2911 or email: promaco@promaco.com.au.

Domestic travel

The longer you wait to book travel - the more you will pay. If you would like to see ALL FLIGHT OPTIONS to the symposium on a single computer screen, then use the latest delegate flight booking technology at www.travelctm.com/bookings. Alternatively, contact Corporate Travel Management (CTM) direct for the best domestic airfare rates available on 1800 630 866 or email: groups@travelctm.com. A service fee applies.

Remember to quote your event code ISCEV2010

Website Links

We hope you find these links useful in planning your trip to Fremantle.

Visit Fremantle: www.visitfremantle.com.au
Fremantle Visitor Centre: www.fremantlewa.com.au
Fremantle Focus: www.fremantle.wa.gov.au
Rottnest Island: www.rottnest.wa.gov.au
What’s On in Perth and Fremantle: www.whatson.com.au

CPD Points

It is expected that the ISCEV Program and Training Courses will be eligible for CPD points from the relevant colleges. Details will be loaded to the website when available.

General Information

Child Care: No arrangements have been made for child care during the symposium. Please check with the concierge at your hotel for assistance with babysitting services during your stay.

Conference Dress: Fremantle weather in November is around 25 degrees Celsius with bright sunny days. Some warm clothing is always recommended, particularly for the evenings.
Conference sessions and evening functions: Smart casual

Goods and Services Tax (GST): A tax refund is not available for goods or services consumed in Australia – and therefore the GST component of conference registration fees, accommodation, tours, etc is not claimable.

Shopping Hours: There are many speciality shops in Perth and Fremantle. Shops are open from 8.30am to 5.30pm, Monday to Friday, (with late night shopping until 9.00pm on Friday), 8.30am to 5.00pm on Saturday and from 12.00 noon to 5.00pm on Sunday. These hours may differ slightly from shop to shop.

Insurance Advice: Registration fees do not include insurance of any kind. It is strongly recommended that at the time you register for the conference and book your travel, you take out an insurance policy of your choice. The policy should include (1) loss of fees/deposit through cancellation of your participation in the conference; (2) loss through cancellation of the conference; (3) loss of international/domestic air fares through cancellation for any reason including force majeure, medical expenses, loss or damage to person or property, additional expenses; and (4) repatriation should travel arrangements have to be altered. The conference secretariat cannot take any responsibility in the event of industrial disruptions OR for any participant failing to arrange his or her own insurance.

Smoking Policy: No smoking is allowed in restaurants, bars and shopping centres in Perth and Fremantle.
Accommodation options

Accommodation has been booked at selected venues (listed below). The rates shown can only be obtained by booking through Promaco Conventions. For rooms required before or after the symposium dates, early booking is essential. Breakfast is not included in the rate unless stated.

Deposit: Bookings require a deposit of one night’s tariff and a credit card guarantee. The deposit is non-refundable. One night’s room rate will be deducted from the supplied credit card if the reservation is cancelled within 30 days of the date required or, if you do not arrive on the date you have nominated. Delegates are to settle their accounts, including incidentals, upon checking out. Your hotel will provide an accommodation tax invoice/receipt.

Amendments: Amendments to accommodation will only be accepted in writing and must be advised to Promaco Conventions in advance. Changes made after Friday 1 October 2010 cannot be guaranteed and will be subject to availability.

Check-in and Check-out: Standard check-in time of 2.00pm and check-out time of 11.00am applies to all venues. Requests for late check-out must be made with the venue as you arrive. Please note that early check-in may require the booking of an additional room night prior, to guarantee immediate access to your room.

Booking deadline: Hotels impose strict release dates for block accommodation bookings. Unused rooms will be released 30 days prior to the conference and accommodation bookings received after Friday 1 October 2010 will be subject to availability.

HOTELS (all costs in Australian Dollars inclusive of GST)

**Fremantle Esplanade** - The venue has 4.5 star facilities including three restaurants, bar, gym, two swimming pools and three spas. www.esplanadedhotelfreemantle.com.au A$235 single/double/twin standard

**Trade Winds Hotel** - 4 star hotel with river views. Twenty minute walk to venue. Regular bus service and taxis also available. www.tradewindsotel.com.au A$205 per night single/double/twin

**Harbour Village Quest Apartments** - Very limited rooms booked. 4 star self-contained, two and three bedroom apartments, ocean views, luxurious facilities, walking distance from the venue. www.questwa.com.au
A$258 per night - 1 bedroom, Fishing Boat Harbour Side
A$292 per night - 2 bedroom, Fishing Boat Harbour Side
A$311 per night - 2 bedroom, Challenger Harbour Side
A$387 per night - 3 bedroom, Challenger Harbour Side

BACKPACKER HOSTELS

Bookings for the following venues must be made directly with the hostels. Accommodation ranges from 8-share at A$24 per night to double ensuite rooms at A$85 per night.


REGISTRATION FORM

INTERNATIONAL SOCIETY OF CLINICAL ELECTROPHYSIOLOGY OF VISION

6 - 10 November 2010
Esplanade Hotel
FREMANTLE

Delegate Information

[Please print in BLOCK letters]

Mr/Mrs/Ms/Dr/Prof First name: .................................................................
Family name:............................................................................................
Position: ....................................................................................................
Organisation: ............................................................................................
Postal address: ..........................................................................................
City: ............................................................................................................
Tel [Bus]: .................................................................................................
Fax [Bus]: .................................................................................................
Mob: .............................................................................................................
Email: ..........................................................................................................:

Special needs [dietary/disability etc] .........................................................

☐ Please DO NOT include my name on the published delegate list.

Registration Fees

Fees in AUD and include GST

<table>
<thead>
<tr>
<th>ISCEV Member</th>
<th>Non-Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Earlybird paid BY 01/10/10</td>
<td>A$880</td>
</tr>
<tr>
<td>Full General paid AFTER 01/10/10</td>
<td>A$946</td>
</tr>
<tr>
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<td>A$440</td>
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<tr>
<td>Student/Trainee/Junior/Emeritus Fellow - Registrations</td>
<td></td>
</tr>
<tr>
<td>Earlybird paid BY 01/10/10</td>
<td>A$737</td>
</tr>
<tr>
<td>General paid AFTER 01/10/10</td>
<td>A$836</td>
</tr>
</tbody>
</table>

ISCEV Teaching Courses

Earlybird must be paid BY 01/10/10

COURSE ONE: Clinical Electrophysiology of Vision (Two days)
Friday 5 and Saturday 6 November 2010: 8.30am - 4.30pm

☐ Earlybird ISCEV Member A$594
☐ Earlybird Non-Member A$660
☐ General ISCEV Member A$693
☐ General Non-Member A$759

COURSE TWO: Animal Electrophysiology and Imaging (One day)
Friday 5 November 2010: 8.30am - 4.30pm

☐ Earlybird ISCEV Member A$440
☐ Earlybird Non-Member A$484
☐ General ISCEV Member A$539
☐ General Non-Member A$583

Social Program

SATURDAY 6 NOVEMBER 2010
WELCOME RECEPTION
7.00pm - 9.00pm
☐ Full registration [included]
☐ Guest tickets @ A$66 x __

MONDAY 8 NOVEMBER 2010
RIVER CRUISE AND SYMPOSIUM BANQUET
6.30pm - 11.00pm
☐ Full registration [included]
☐ Guest tickets @ A$132 x __

SUNDAY 7 NOVEMBER 2010
NETWORKING FUNCTION
7.00pm - 9.00pm
☐ Full registration [included]
☐ Guest tickets @ A$66 x __

TUESDAY 9 NOVEMBER 2010
ISCEV EXCURSION AND OLYMPICS DAY
12.00noon - 11.00pm
☐ Full registration [included]
☐ Adult @ A$176 x __
☐ Child 7-12 @ A$88 x __

TAX INVOICE ABN 68 008 784 585

Social Extras / Accompanying Persons Tours

THUR 4-SAT 6 NOVEMBER 2010
ISCYCLE TOUR
☐ We am/are interested x __
Expected cost: A$90

WEDNESDAY 10 NOVEMBER 2010
GOLF AT ROYAL FREMANTLE
☐ We am/are interested x __
Expected cost: A$90

SUNDAY 7 NOVEMBER 2010
DISCOVER FREMANTLE
10.00am - 4.00pm
☐ Adult @ A$154 x __
☐ Child 7-12 @ A$66 x __

MONDAY 8 NOVEMBER 2010
WELCOME TO PERTH
9.00am - 4.30pm
☐ Adult @ A$165 x __
☐ Child 7-12 @ A$66 x __

Accommodation

[Please book by Friday 1 October 2010]

Bookings at the below rates can only be made through Promaco Conventions. ALL bookings require a deposit of one night’s tariff and a credit card number. The deposit is non-refundable and will be forfeited if you do not arrive on the nominated date. Rates quoted are per room, per night and include GST. Breakfast is not included. Your selected hotel will provide you with an Accommodation Tax Invoice at check-out.

- Fremantle Esplanade (Venue) A$235 Single/Double/Twin
- Trade Winds Hotel A$205 Single/Double/Twin
- Harbour Village Quest Apartments A$258 One Bedroom Fishing Harbour
- A$292 Two Bedroom Fishing Harbour
- A$311 Two Bedroom Challenger
- A$387 Three Bedroom Challenger

BOOKING DETAILS:

Hotel Preference: ............................................ No. of nights: ....................
☐ SINGLE ☐ DOUBLE ☐ TWIN Check-in date: .............................
☐ SMOKING ☐ NON-SMOKING Check-out date: ..........................
I will be sharing with .................................................................

Payment Options

All fees and costs are in AUD and include GST

☐ BANK DRAFT in Australian dollars.
☐ CREDIT CARD - 3% bank fee applies to total.
☐ CHEQUE (Australians only)

CREDIT CARD PAYMENT

Type: VISA / MASTERCARD / AMEX
Cardholder: .................................................................
Expiry date: .................................................................
Payment Amount: .................................................................
Plus 3% Bank Fee: .................................................................
Total to be charged: .................................................................
Signature: .................................................................

If you are an ISCEV Member, please consider donating a tax-deductible amount to the ISCEV Education and Research Foundation. Make cheques payable to ISCEV Research Foundation. Add a separate cheque for the amount to be donated. Please forward your remittance with your completed registration form to: Promaco Conventions ABN 68 008 784 585 PO Box 890, Canning Bridge, WESTERN AUSTRALIA 6153; Tel: +61 8 9332 2900; Fax: +61 8 9332 2911; Email: promaco@promaco.com.au
