



## Message from the Secretary-General

Dear ISCEV community,

Due to the continued challenges of the COVID-19 pandemic, it was not possible to have an ISCEV Symposium this year. Although there was no Symposium, there was a Standards Session and a Membership Meeting, and these were held virtually. The Standards Session was held twice in one day, at times designed to maximize availability across multiple time zones. The Membership Meeting served multiple purposes, allowing for: acceptance of the 2020 Membership Meeting notes, the opportunity to question and exonerate the ISCEV Board and the ISCEV Treasurer and the opportunity to hold elections. Regarding the elections, several new officers were elected and two members-at-large were re-elected; details are provided later in this News Extra. This year, there is only one election that needs to be voted upon, that of member-at-large. There are three vacant positions and there were eight members nominated. Their statements are provided in this News Extra, they are provided to inform members prior to voting in the e-ballot (as a reminder, paid Regular, Family, Corporate, Emeritus Type I and Honorary members may vote). There will not be a vote for a future ISCEV Symposium location this year, because the planned future locations (Liverpool, UK, Kyoto, Japan and Montebello, Canada) have each been moved forward by one year to 2022, 2023 and 2024.



I look forward to seeing everyone at the ISCEV Symposium in Liverpool in 2022 and wish everyone a safe and happy year.

*Karen Holopigian, ISCEV Secretary General*

## The Director of International Communications

Dear ISCEV members, friends and colleagues:

I am always glad when another ISCEV News Extra is done. And that means for you: now you can influence ISCEV by your vote again! This newsletter contains eight (8!) member-at-large statements. For voting, we will use e-vote again, this worked very well so far. All paid members (not junior or emeritus type II) will receive voting details in a few days. The “paid” status means you have paid the membership dues for 2020 (apologies for this sordid content).

How to pay the membership dues? This is detailed here: [iscev.wildapricot.org/DuesPayment](https://iscev.wildapricot.org/DuesPayment)

Said page is also accessible from the ISCEV homepage, right yellow box, near bottom, “Membership Dues Payment”. In case of any questions or problems, don’t hesitate to contact me:

[michael.bach@uni-freiburg.de](mailto:michael.bach@uni-freiburg.de)

*Michael Bach, ISCEV DoIC*

# Election Results

## Results of elections during the 2021 membership meeting

**Member at large:** Dr. Josefin Nilsson has nearly finished her first term and was eligible and willing to stand for a second term. The membership approved Josefin's re-election for a second term by a majority.

**Member at large:** Professor Shi-Ying Li has finished his first term and was eligible and willing to stand for a second term. The membership approved Shi-Ying's re-election for a second term by a majority.

**Treasurer:** Professor Mathias Seeliger has nearly completed his second term as Treasurer. We thank him for his great service to ISCEV and are grateful he will remain on the board in an advisory role on a year-to-year basis. The Board received one nomination for this position, Dr. Jan Kremers. There were no further nominations from the floor. By a majority, the membership elected Jan as Treasurer of ISCEV.

**Editor In Chief:** Professor Pierre Lachapelle has nearly completed his second term as Editor In Chief, *Documenta Ophthalmologica* and we thank him for his great service to ISCEV. The Board received one nomination for this position, Professor Daphne McCulloch. There were no further nominations from the floor. By a majority, the membership elected Daphne as Editor In Chief.

**Director of Education:** Dr. Dorothy Thompson temporarily kept this post following the 2020 ISCEV Virtual Meeting when she was elected as Vice-President of Europe/Africa. The Board received one nomination for this position, Dr. Suresh Viswanathan. By a majority, the membership elected Suresh as Director of Education.

**Members at Large:** Dr. Mary Johnson has nearly completed her second term as a member at large and we thank her for her great service to ISCEV. Eight members were selected to go forward to an e-vote for member at large and their information is provided in this News Xtra for voting decisions. These members are: Professor Carl Arndt, Professor Henry Chan, Dr. Allison Dorfman, Professor AyaAllah Farouk, Professor John Grigg, Professor Seong-Woo Kim, Dr. Jason McAnany and Professor Maja Šuštar. Please find their candidate statements below.

**Auditors:** Dr. Allison Dorfman and Professor Sven Heinrich have both served one term. They both agreed to serve a second term. By a majority, their appointments to a second term as auditors was ratified by the membership.

## Awards

**The Emiko Adachi Award:** This award has been generously endowed by Professor Emiko Adachi since her retirement from the Department of Ophthalmology at Chiba University in Japan. The criteria for this award are: The recipient shall be a member of ISCEV, have a record of outstanding service to ISCEV over a long period and shall have made a significant scientific contribution to clinical electrophysiology of vision.

Two Adachi award winners were awarded at the 2019 Symposium: Professor Pierre Lachapelle and Dr. Mitch Brigell. Since neither has been able to present in 2020 or 2021, Dr. Brigell will present at the Liverpool Symposium in 2022 and Professor Lachapelle will present at the Kyoto Symposium in 2023.

There were no Dawson, Dodt or Marmor Awards presented in 2021 since there was no scientific symposium. The upper age limit for eligibility for the Dodt award will be extended by 1 year in 2022 since there was no award presented in 2021. There were also no travel grants awarded in 2021.

# Future Symposia

## 59th ISCEV Symposium and Courses: 2022: Liverpool, England

Dates: 3–6 Aug 2022: Courses 1–2 Aug 2022. Organizers: Professor Tony Fisher & BriSCEV. Symposium Coordinators: Mr. Richard Smith / Prof. Colin Barber.

Liverpool is a historic city; it is safe and family friendly. Travel to Liverpool is easy and not very expensive. Travel from Europe is via the John Lennon Airport, travel from outside Europe is via Manchester International Airport which is 1 hour away with many direct flights and travel from London is via a high-speed train ride.

The meeting will be held in collaboration with BriSCEV (British Society for Clinical Electrophysiology of Vision) with overlap between the meetings. The courses will be held on the 1–2 August. One day will be shared with BriSCEV. The venue is the University of Liverpool with inexpensive university accommodation and other hotels close by with other housing options. Registration costs will be at the lower end, Liverpool is inexpensive. Some places being considered for the Symposium include the Maritime Museum, the Art Museum, an Evening Dinner Cruise on the Mersey. Other sights include Cathedrals, Penny Lane and other exhibits relating to the Beatles. Liverpool is not far from the stunning scenery of Wales and the Lake District.

## 60th ISCEV Symposium and Courses: 2023: Kyoto, Japan

Dates: 15–18 Mar 2023: Courses 13–14 Mar 2023. Organizer: Professor Masayuki Horiguchi. Symposium Coordinator: Professor Mineo Kondo.

Professor Horiguchi welcomes everyone to Kyoto. The congressional venue is ICC Kyoto (Kyoto International Conference Center). The venue has several different rooms for the ISCEV dinners; the Welcome Reception will be held in Swan Hall. A traditional Japanese meal will be served at the gala dinner.

The Symposium timetable is 13–14 March for the courses; board meeting on the 14th. The Symposium will be 15–18 March, with a tour on 17 March and Gala dinner on 18 March.

There are many hotels available in Kyoto; the fees vary from \$96–485 USD per day; these costs could change after COVID. There are many wonderful places for the accompanying person's tour. Some of these include the Bamboo forest, a handicraft center, temples, castles and market places.

## 61st ISCEV Symposium and Courses: 2024: Montebello, Canada

Dates: 16–20 Sep 2024: Courses 14–15 Sep 2024. Organizer: Dr. Allison Dorfman and Dr. Anna Polosa Symposium Coordinator: Dr. Mitch Brigell.

The team is currently planning on holding the symposium at the Fairmont Le Château Montebello. The resort is located along the Ottawa river and has a private marina for our group with boating activities, indoor and outdoor pools, a golf course and beautiful terraces and views. Fall is a breathtaking time of year to visit and we have therefore opted for a September meeting. There is an abundance of space for all meetings, oral and poster sessions as well as for exhibitors, coffee breaks and networking opportunities.

The Fairmont Le Château Montebello is known for their outstanding gastronomy, and we have negotiated an extremely competitive rate per day including both accommodations and all 3 meals! US\$350 for a standard room and US\$400 per day for a deluxe room. All your meals will be taken care of during the Symposium.

Registration fees should be in the range of that for recent ISCEV meetings (i.e., approximately \$700 USD for ISCEV members, \$550 USD for junior (e.g. YSCEV) members).

We are sensitive to the fact that the COVID pandemic has hit many individuals as well as businesses quite hard (and our current selected venue is no exception); our goal is to maintain the 2024 symposium affordable for attendees without compromising any aspect. We will continue to explore the very best accommodations and meeting spaces within approximately a 100km radius of Montreal, prior to firmly committing ourselves and the society. We will happily present you our advanced plans at the 2022 meeting in Liverpool.

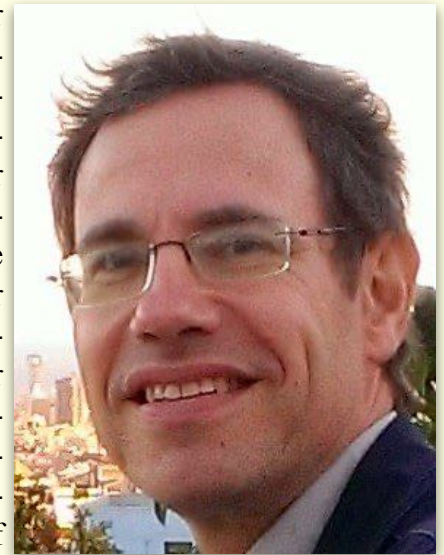
We look forward to reuniting with you all on Canadian soil at long last in 2024!

The ISCEV 2024 Canadian team: *Allison L. Dorfman, Anna Polosa, Pierre Lachapelle, Mercedes Gauthier, Michelle McKerral, Julie Racine, Jacqueline Orquin, Marie Sylvie Roy, Marc Hébert, Dave St-Amour and François Tremblay.*



# Candidate statement Member-at-large Carl Arndt

It is a great honor to have been nominated for a ISCEV board position – member at large. Electrophysiology has been part of my clinical work from the very beginning of my training as ophthalmologist. I had the extreme privilege of discovering simultaneously ophthalmology and electrophysiology with my mentor Professor Jean Claude Hache at Lille University Hospital in Northern France. Later in my career, I worked with Professor Christian Hamel in Montpellier on Inherited Retinal Diseases Genetic and I became aware of the importance of precise phenotyping in which clinical visual electrophysiology plays a major role. Ever since I have conducted and participated in a large amount of French and European multicenter studies in particular with Lille University Hospital (Doctor Sabine Defoort) and Montpellier University Hospital (Professor Isabelle Meunier). Thus I have co-authored a large number of papers on retinal inherited diseases. Since 2008, I am an academic ophthalmologist working in Reims University Hospital, France and in 2016 I was appointed as Head of the Department of Ophthalmology and of the Discipline of Ophthalmology, University of Reims.



Although being a clinical Ophthalmologist and Retinal Surgeon, Clinical Electrophysiology has always been a very important part of my clinical practice and teaching in Retinal Inherited Diseases and Neuro-ophthalmology. I have built up a Visual electrophysiology unit in 2003 at Montpellier University Hospital and then in 2008 at Reims University Hospital. Both are active units performing more than 600 recordings per year. I serve as a board member of the French of Ophthalmology (SFO) and the French Society for Clinical of Electrophysiology and Vision (SEVE). I have published 63 peer reviewed papers including *Hum Mol Genet*, *Retina*, *Ophthalmology*, *IOVS*, *Documenta Ophthalmologica*. My research work includes medical and surgical retina, neuro-ophthalmology.

ISCEV is a beautiful Society which provides guidelines to every clinician who performs Clinical Electrophysiology, and it is also a Family as I discovered when I became a member in 2006. The yearly meetings provide a unique opportunity for discussing very specialized issues in Clinical and Experimental Electrophysiology. In this post COVID situation, maintaining the quality of the meeting and the pleasure of sharing interesting subjects with colleagues remains a challenge. I had the extreme privilege to organize the 2018 meeting in Reims and I would be delighted to participate with the acquired experience to contribute to the organization of ISCEV in the coming years as a board member at large.

## Selected publications

- Garcia T, Sanchez S, Litré CF, Radoi C, Delemer B, Rousseaux P, Ducasse A, Arndt C. Prognostic value of retinal nerve fiber layer thickness for postoperative peripheral visual field recovery in optic chiasm compression. *J Neurosurg*. 2014 Apr 4 [Epub ahead of print]
- Arndt C, Leclercq I, Nazeyrollas P, Durlach A, Ducasse A, Movesayan I, Socquard E, Clavel C, Malloy M, Pullinger C, Kane J, Durlach V. Association of endothelial lipase Thr-111-Ile polymorphism with proliferative retinopathy in type 2 diabetic patients. 2014 (*Diabetes and Metabolism*)
- Setrouk E, Hubault B, Zambrowski O, Nazeyrollas P, Delemer B, Durlach V, Ducasse A, Arndt C. Circadian disturbance and idiopathic central serous chorioretinopathy. *Graefes's Archive Graefes Arch Clin Exp Ophthalmol*. 2016 Nov;254(11):2175-2181
- Boulagnon C, Ducasse A, Patey M, Diebold MD, Arndt, C. Cytopathology of Vitreous Humor Samples in Routine Practice. *Acta Cytol*. 2016 ;60(1):65-73
- Meunier I, Bocquet B, Labesse G, Zeitz C, Defoort-Dhellemmes S, Lacroux A, Mauget-Faysse M, Drumare I, Gamez AS, Mathieu C, Marquette V, Sagot L, Dhaenens CM, Arndt C, Carroll P, Remy-Jardin M, Cohen SY, Sahel JA, Puech B, Audo I, Mrejen S, Hamel CP. A new autosomal dominant eye and lung syndrome linked to mutations in TIMP3 gene. *Sci Rep*. 2016 Sep 7;6:32544
- Manes G, Joly W, Guignard T, Smirnov V, Berthemy S, Bocquet B, Audo I, Zeitz C, Sahel J, Cazevieuille C, Sénéchal A, Deleuze JF, Blanché-Koch H, Boland A, Carroll P, Geneviève D, Zanlonghi X, Arndt C, Hamel CP, Defoort-Dhellemmes S, Meunier I. A novel duplication of PRMD13 causes North Carolina macular dystrophy: overexpression of PRDM13 orthologue in drosophila eye reproduces the human phenotype. *Hum Mol Genet*. 2017 Aug 21\*
- Arndt C, Costantini M, Chiquet C, Mauget-Faysses M. Comparison between multifocal ERG and C-Scan SD-OCT (“en face” OCT) in patients with a suspicion of antimalarial retinal toxicity: preliminary results. *Documenta Ophthalmologica* 2018 136(2)
- Tourbah A, Gout O, Vighetto A, Arndt C. MD1003 (High-Dose Pharmaceutical-Grade Biotin) for the Treatment of Chronic Visual Loss Related to Optic Neuritis in Multiple Sclerosis: A Randomized, Double-Blind, Placebo-Controlled Study. 2018, *CNS Drugs*
- Henry A, Boulagnon C, Menguy T, Arndt C. CD160 Expression in Retinal Vessels Is Associated With Retinal Neovascular Diseases. 2018, *IOVS*
- Gruchociak S, Djerada, Z, Afriat, M, Chia V, Santorini M, Denoyer A, Arndt C MD, PhD\* Comparing Intravitreal Air And Gas For The Treatment Of Vitreomacular Traction. *Retina* 2019

# Candidate statement Member-at-large Henry Chan

It is an honour to be nominated for the position of member-at-large. My career is highly focused in the area of clinical electrophysiology of vision beginning with my PhD from The Hong Kong Polytechnic University. My main research area is multifocal electroretinogram (mfERG). I have applied mfERGs as well as other tests of visual electrophysiology in, for example, aging eye, glaucoma, retinitis pigmentosa and myopia. Apart from focusing on the understanding of the electrophysiological mechanisms in retina, I also contribute to improve the sensitivity of the clinical mfERG in the diagnosis of retinal diseases. More than 70% of all my publications are directly related to visual electrophysiology. Apart from human study, I am also involved in animal studies.



Currently, I am the Associate Professor in the School of Optometry, The Hong Kong Polytechnic University, Hong Kong, China where I am in charge of the Visual Electrophysiology Clinic in our School. I am also the Honorary Associate Professor of the Department of Ophthalmology and was an Honorary Associate Professor of the School of Biomedical Sciences (formerly named Department of Anatomy) in the University of Hong Kong, an Honorary Research Fellow of the School of Life & Health Sciences in Aston University, UK and I hold a Fellowship of the American Academy of Optometry (FAAO). I leverage my expertise to assist colleagues and collaborators in their studies in the area of visual electrophysiology. My research collaborations are not only within Hong Kong, but also with Aston University, Harvard Medical School, University of California (Los Angeles), Duke University, North Carolina State University, University of Melbourne, Queensland University of Technology, Jinan University, etc.

I joined the family of ISCEV since 2000 in Sydney. It was my first ISCEV meeting and I deeply enjoyed the atmosphere of ISCEV. Within these two decades, I had joined numerous ISCEV meetings, including Sydney (2000), Orford (2001), Nagoya (2003), Glasgow (2005), Fontevraud (2006), Morgantown (2008), Padova-Abano Terme (2009), Perth (2010), Quebec (2011), Ljubljana (2015), Miami (2017). I also led my 13 post-graduate students and post-doc fellows to join the big family of ISCEV. I strongly encourage the young researchers to join the family of ISCEV and contribute to visual electrophysiology together. It would be my great honour to serve as the board member of ISCEV. As a member-at-large, I would work to support more local / regional education and to encourage research mentorship / collaborations to increase the number of junior members in ISCEV.

## Grants related to visual electrophysiology

I have obtained 5 General Research Fund Awards from Research Grant Council, HKSAR, 1 Research Matching Grant Scheme from University Grant Council, HKSAR, 1 Health and Medical Research Fund from Hong Kong Government, HKSAR, 1 Large Equipment Grant and Research Facility Grant from HK Polytechnic University, 2 Collaborative research industrial funds, and I am Co-PI for 1 Post-doc Fellowship Scheme from HK Polytechnic University.

## Selected Publications related to visual electrophysiology

- Choi KY, Wong HY, Chan HHL. Utilizing Advanced Technology to Facilitate Diagnosis of Rare Retinal Disorders - A Case of Bietti Crystalline Dystrophy. *Optom Vis Sci* 2021 doi: 10.1097/OPX.0000000000001763.
- Fung MMY, Choi KY, Chan HHL. The effect of simultaneous dual-focus integration on the global flash multifocal electroretinogram in the human eye. *Ophthalmol Physiol Opt* 2020;41:171-178.
- Lakshmanan Y, Wong FSY, Zuo B, So KF, Bui BV, Chan HHL. Posttreatment Intervention with Lycium Barbarum Polysaccharides is Neuroprotective in a Rat Model of Chronic Ocular Hypertension. *Invest Ophthalmol Vis Sci* 2019;60:4606-4618.
- Lakshmanan Y, Wong FSY, Yu WY, Li SZC, Choi KY, So KF, Chan HHL. Lycium Barbarum Polysaccharides rescue neurodegeneration in an acute ocular hypertension rat model under pre- and post-treatment Conditions. *Invest Ophthalmol Vis Sci* 2019;60:2023-2033.
- Li ZC, Yu WY, Choi KY, Lam CHI, Lakshmanan Y, Wong FSY, Chan HHL. Subclinical decrease in central inner retinal activity is associated with myopia development in children. *Invest Ophthalmol Vis Sci* 2017;58:4399-4406.
- Lung JCY, Swann PG, Chan HHL. The multifocal on- and off-responses in the human diabetic retina. *PLoS One* 2016;11(5):e0155071.
- Chin MP, Siong KH, Chan KH, Do CW, Chan HHL, Cheong AMY. Prevalence of visual impairment and refractive errors among different ethnic groups in schoolchildren in Turpan, China. *Ophthalmol Physiol Opt* 2015;35:263-70.

# Candidate statement Member-at-large Allison L. Dorfman

I am extremely honored and grateful to be considered for a Member-at-Large position on the ISCEV Board. I began my PhD training in the field of Visual Electrophysiology under the supervision of Dr. Pierre Lachapelle at McGill University in 2000. As luck would have it, our team would be hosting the ISCEV meeting in Mont Orford, Canada the following year in 2001. As such, my first ISCEV experience that year was a very up close and personal one. It became abundantly clear to me in those early years that ISCEV was unlike any other society.



While my thesis work was focused on the characterization of retinal structure and function as well as therapeutic intervention in the animal model of oxygen induced retinopathy, I was always fascinated by translational "bench to bedside" research. And so, while continuing my pre-clinical studies in this field working towards my degree, I decided to pursue a position at the Montreal Children's Hospital Visual Electrophysiology Clinic in 2002. This afforded me the opportunity to see pediatric and adult patients presenting with a variety of retinal disorders for diagnostic testing or as part of our ongoing research studies and clinical trials. I also became very involved with the training, supervision and monitoring of graduate and undergraduate students as well as ophthalmology residents and staff in clinical and experimental visual electrophysiology. This experience ultimately led me to my current position at the Centre Hospitalier Universitaire Sainte-Justine where I run the diagnostic visual electrophysiology laboratory. This role, in conjunction with my affiliate position in the department of Ophthalmology at McGill University, continues to provide me the opportunity to contribute to numerous conferences, departmental grand rounds, resident teaching, presentations and publications.

ISCEV has had a significant impact on both my professional and personal life. It is quite rare to find a society that combines scientific abundance along with camaraderie and, simply put, fun! It has been my pleasure to serve ISCEV in various roles throughout the years. I have just completed my first term as an auditor and have been re-elected for a second term. I was the Dodt Award convenor for two consecutive years and have been on the planning committees for the 2001, 2011 and 2020 ISCEV symposiums. I am also thrilled to be a co-symposium organizer for the upcoming ISCEV 2024 meeting! I sincerely hope to have the opportunity to continue to serve the society in this new role as a Member-at-Large and look forward to engaging some of the younger members as they begin or are in the early stages of their own journeys in the field.

## Current Position

Clinical Neurophysiologist – Diagnostic Visual Electrophysiology, CHU Sainte-Justine and Res Center (Feto-maternal and Neonatal Pathologies), Dept. of Ophthalmology; Affiliate of the Dept. of Ophthalmology and Visual Sciences, McGill University, Montreal, Quebec.

## Training and Experience, Committees and Memberships

2002–2008, 2012–2017 Clinical Neurophysiologist-Diagnostic Visual Electrophysiology, Montreal Children's Hospital  
2010–2019 Research Associate, Montreal Children's Hospital Research Institute (MCH-RI)  
2003–2010 Doctor of Philosophy, Pharmacology and Therapeutics McGill University/MCH-RI  
2002–2003 Master of Science, Pharmacology and Therapeutics McGill University/MCH-RI  
2000–2002 Student Researcher, Pharmacology and Therapeutics McGill University/MCH-RI  
1996–2000 Bachelor of Science, Physiology Major, Pharmacology Minor McGill University

ISCEV member and symposium planning committee member in 2001, 2011, 2020; co-symposium organizer for the 2024 ISCEV symposium; Child Health and Human Development (CHHD) of the MUHC-RI Retreat Organizing Committee 2016; Journal reviewer for *Documenta Ophthalmologica*, *Acta Ophthalmologica* and *Current Eye Research*; Chief local liaison for the XIX Biennial Meeting of the International Society for Eye Research (ISER) support staff committee, 2010; FRSQ Réseau Vision annual meeting committee member, 2002–2007, 2009–2010.

## Selected publications

- R. BENEISH\*, A.L. DORFMAN\*, A. KHAN, RC POLOMENO, P. LACHAPELLE. Organic Visual Loss Measured by Kinetic Perimetry and Retinal Electrophysiology in Children with Functional Amblyopia. *Doc Ophthalmol.* 2021 Aug;143:1-16. Epub 2021 Jan 30  
\*Equal first co-authors
- A.L. Dorfman, M. GAUVIN, D. VATCHER, J.M. LITTLE, R.C. POLOMENO, P. LACHAPELLE. Ring analysis of multifocal oscillatory potentials (mfOPs) in cCSNB suggests near-normal ON-OFF pathways at the fovea only. *Doc Ophthalmol.* 2020 Oct;141:99-109
- D. Vatcher, A.L. Dorfman, Y. Shen, J.Y. You, V. Sun, A. Khan, R.C. Polomeno, P. Lachapelle. Revealing a retinal facilitatory effect with the multifocal ERG. *Doc Ophthalmol.* 2019 Apr;138:117-124
- M. Gauvin, A.L. Dorfman, P. Lachapelle. Recording and Analysis of the Human Clinical Electroretinogram. *Methods Mol Biol.* 2018;1715:313-325
- M. GAUVIN\*, A.L. DORFMAN\*, N. TRANG, M. GAUTHIER, J.M. LITTLE, J.M. LINA, P. LACHAPELLE. Assessing the Contribution of the Oscillatory Potentials to the Genesis of the Photopic ERG with the Discrete Wavelet Transform. *Biomed Res Int.* 2016;2016:2790194. \*Equal first co-authors



# Candidate statement Member-at-large AyatAllah Farouk

It is my great pleasure to be included in the highly esteemed ISCEV board elections for the position of member-at large. I would be highly honored to serve on the ISCEV board. Currently I hold the position of Professor of Clinical Neurophysiology, Faculty of Medicine, Cairo university, Kasr Alainy Hospital

I have been working in clinical electrophysiology for more than 25 years, including visual electrophysiology. Among my scientific activities, I have supervised 21 thesis, and shared in discussion of 12 thesis of different aspects of clinical neurophysiology.

I have been an Organizer, Chair, co-chair, Moderator and speaker in many national and international conferences and webinars, including the 58th ISCEV symposium 2020 where I was honored to present a talk.

Clinical neurophysiology is an autonomous medical specialty and deals with all types of electrophysiological diagnostic methods including visual electrophysiology with collaboration with other specialties as ophthalmology, neurology, pediatrics, rheumatology, etc.

ISCEV has been incredibly important for continuous learning and working with standards which is highly important for visual electrophysiologists from all over the world.

As an ISCEV board member at large, I would like to expand the ISCEV audience to ensure understanding and application of clinical electrophysiology of vision according to ISCEV standards especially in Africa and middle East for the developing countries.

## Committees and Memberships

- Secretary of the Clinical Neurophysiology chapter in the Egyptian Society of Neurology, Psychiatry & Neurosurgery(ESNPN)
- Committee Member in the international relations in the American clinical neurophysiology society (ACNS)
- Member of ISCEV
- Member of the AANEM society
- Referee in the promoting Egyptian committee of professors and associate professors of Neurology.

## Selected publications

- Utility of Pattern Electroretinogram (PERG) in detection of ganglion cell dysfunction in Hypertensive patients, European congress of clinical neurophysiology (ECCN) 2021 mini-Congress, October, 2021
- Post COVID-19 optic neuritis: Two Egyptian case reports, 25th World Congress of Neurology (WCN), October, 2021
- Role of multifocal electroretinogram in assessment of early retinal dysfunction in hypertensive patients, European Journal of Ophthalmology 2020-06-12
- Could phototherapy reverse visual deficits in patients with relapsing remitting multiple sclerosis? Journal of medical science and clinical research 2015, JMSCR Volume 03 Issue 5



# Candidate statement Member-at-large John Grigg

I am honoured to be considered for the ISCEV board position - member at large. I have worked in clinical visual electrophysiology for more than 25 years. I am an academic ophthalmologist and currently hold the position of Professor of Clinical and Experimental Ophthalmology and Head of the Discipline of Ophthalmology, The University of Sydney.



ISCEV through the wonderful work of its members has importantly developed standards for the testing that we do. This is unique in medicine and provides the foundation for objective functional vision assessments in our practice. With ever increasing precision in the delivery of eye health care objective functional assessment is increasingly important to match the structural outcome measures. Regulatory agencies are now requiring these functional outcomes for clinical trials. Genomic therapies and the biologic agents for inflammatory eye disease are just some of the areas requiring objective measures.

As clinicians gain a greater appreciation of the importance of visual electrophysiology in their practice the demand grows. It is this increasing demand that provides opportunities and challenges. To meet the increasing demand, we need to look for ways to scale up the delivery of services. This may include triage and screening protocols in addition to the full rigorous home base testing. To meet the demand and expand capacity ISCEV will need to be proactive in developing the workforce including technical staff, vision scientists and ophthalmologists. Covid has shown that we can adapt to online delivery of meetings and courses. Building on the excellent ISCEV symposia we will need to take the courses to the people.

Since 2008 I have been the Postgraduate coursework coordinator for Ophthalmology at Sydney University overseeing Masters degree programs in ophthalmic basic science, international ophthalmology and short courses in ocular pathology, paediatric ophthalmology cataract and biometry. All programs are delivered online. This background has facilitated the collaboration with University College London and ISCEV members to develop an online course for technicians.

I am Fellowship trained (Australia & UK) in paediatric ophthalmology, glaucoma, inherited retinal diseases and visual electrophysiology. My clinical responsibilities include inherited eye disease and glaucoma clinics at both Sydney Eye Hospital and The Children's Hospital, Westmead, Sydney. At both these centres I lead the clinical visual electrophysiology services. These are busy services assessing over 800 patients a year. I have overseen the development our clinical electrophysiology case presentation sessions into meetings that are now welcoming participants from across the country and recently the region.

I have contributed to conference organisation as scientific program chair for the Royal Australian and New Zealand College of Ophthalmologist's annual scientific meeting 2009-12 and Co-chair the 2017 Asia -ARVO scientific meeting. I have journal editorial experience as Paediatric Ophthalmology section editor of 'Clinical and Experimental Ophthalmology' 1997 to 2008 and currently paediatric ophthalmology Section Editor Asia Pacific Journal of Ophthalmology and editorial board member Documenta Ophthalmologica. I have published more than 140 peer reviewed papers which have been cited more than 4111 times with 60 publications and 2156 citations in the last 5 years.

ISCEV has provided a rich network of enthusiastic mentors, friends and colleagues who have greatly encouraged and contributed to the development of the visual electrophysiology service that I am privileged to lead in Sydney. Visual electrophysiology has become an integral component of all our retinal units as well as the place to go for diagnostic dilemmas. This reputation has brought electrophysiology into the mainstream clinical care pathways.

The ISCEV member board member at large if elected would provide an opportunity to give back to the organisation and assist in leading the organisation as we manage the increasing requirements in the genomic era.

## Selected publications

Williams L, Javed A, Sabri A, Morgan D, Huff C, Grigg J, .... Jamieson R, DeAngelis M (2019). ALPK1 missense pathogenic variant in five families leads to ROSAH syndrome, an ocular multisystem AD disorder. *Genetics in Medicine* 21(9):2103–2115

Nash B, Symes R, Goel H, Dinger M, Bennetts B, Grigg J, Jamieson R (2018). NMNAT1 variants cause cone and cone-rod dystrophy. *European Journal of Human Genetics* 26(3):428-33

Tasneem A, Arsiwalla, Elisa E. Cornish, Phuc Vuong Nguyen, Maria Korsakova, Haipha Ali, Nonna Saakova, Clare L. Fraser, Robyn V. Jamieson, John R. Grigg; Assessing Residual Cone Function in Retinitis Pigmentosa Patients. *Trans. Vis. Sci. Tech.* 2020;9(13):29. doi: <https://doi.org/10.1167/tvst.9.13.29>

Zada M, Cornish EE, Fraser CL, Jamieson RV, Grigg JR. Natural history and clinical biomarkers of progression in X-linked retinitis pigmentosa: a systematic review. *Acta Ophthalmol.* 2020 Nov 30. doi: 10.1111/aos.14662. Epub ahead of print

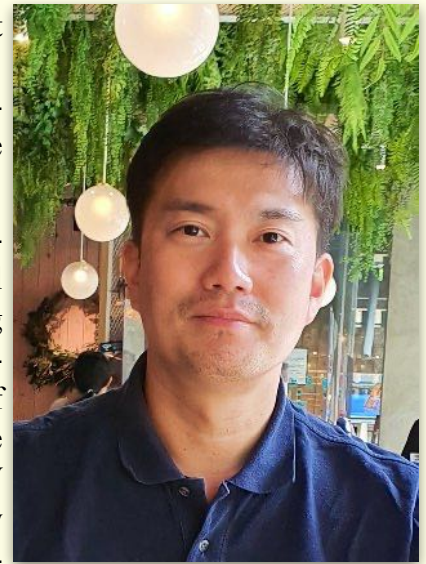
MacGregor S, Ong J, An J, Han X, Grigg J, et al. (2018). Genome-wide association study of intraocular pressure uncovers new pathways *Nature Genetics.* 50(8):1067-71



# Candidate statement Member-at-large Seong-Woo Kim

I am greatly honored to be a candidate for the ISCEV board position – member at large. ISCEV defines the duties of the officers by-laws as follow; Member at large: positions are intended mainly for the purpose of encouraging new people to participate in ISCEV leadership and to gain experience which will equip them for future Board of Officer positions.

I will be actively support the ISCEV board of the officers to do their duties comfortably and promptly. And if possible, I would like to participate in the educational work like spreading the electrophysiological understanding of vision to young physicians and enhancing the clinical understanding of such diseases related to vision to young engineers. I believe that this interconnection between researchers of different academic backgrounds will be the most important strategy to enhance the ISCEV leadership. I cannot forget the moment when I first attended the ISCEV meeting in Perth, Australia back in 2010. The atmosphere of conference was totally different from those of other big sized international academic meetings. Surely, ISCEV meetings have always been very pleasant and heartwarming as well as academically very enthusiastic for me. In 2019 I contributed to 57th ISCEV Symposium and Courses in Seoul as a member of the organizing team. I have studied animal electrophysiology for long time and published many papers on electrophysiology of middle to large sized animals, including not only ERG but also VEP (even in mini pigs and non-human primates). I have published 80 SCI(E) papers on retinal diseases and basic research, some of which include electrophysiology. I am currently working not only as an active reviewers of many renowned ophthalmology journals but also as an editorial board member of 'Scientific Reports' journal.



## Current Position

Professor, retina subspecialty, dept. of Ophthalmology at Korea University College of Medicine, Seoul, Korea

## Training and Experience

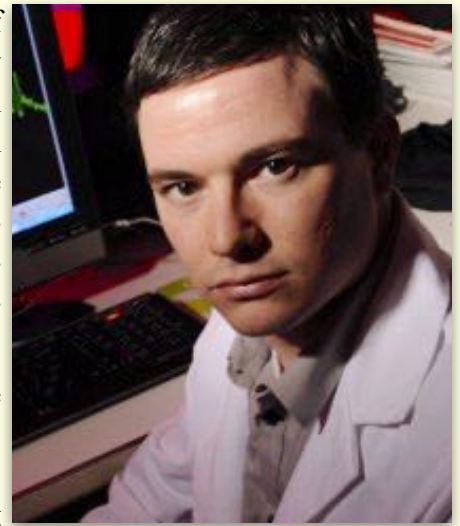
- 1998 MD, Korea University College of Medicine
- 2006-2007 Fellow in Retina subspecialty, Korea University Guro Hospital
- 2008 PhD, Korea University College of Medicine
- 2014.9~2015.8 visiting scientist, Supervisor: Prof. Eberhart Zrenner, Institute for Ophthalmic Research Universitätsklinikum Tübingen, Germany
- Committees and Memberships
- Member in ISCEV and ARVO
- Board Member in the Korean Society for Clinical Electrophysiology of Vision
- Current Research Project (Principal Investigator)
- 2017.06~2022.06 Development of an implantable retinal prosthesis by the Bio & Medical Technology Development Program of the NRF, funded by the Korean government (\$4,000,000), MSIP (NRF-2017M3A9E2056458)
- 2020.03~2023.02 Drug induced animal model development in non-human primate by Basic research project in science and engineering of the NRF, funded by the Korean government (\$ 300,000), MSIP (NRF- 2020R1A2C1005729)

## Selected SCI(E) publications associated with electrophysiology

- Normative Data of Axial Length, Retinal Thickness Measurements, Visual Evoked Potentials, and Full-field Electroretinography in Female, Wild-type Minipigs. Choi KE, Anh VTQ, Oh JH, Yun C, Kim SW\*. TVST. 2021 accepted
- An experimental pig model with outer retinal degeneration induced by temporary intravitreal loading of N-methyl-N-nitrosourea during vitrectomy. Choi KE, Anh VTQ, Kim JT, Yun C, Cha S, Ahn J, Goo YS, Kim SW\*. Sci Rep. 2021:11:258.
- Morphologic and electrophysiologic findings of retinal degeneration after intravitreal sodium iodate injection following vitrectomy in canines. Ahn SM, Ahn J, Cha S, Yun C, Park TK, Kim YJ, Goo YS, Kim SW\*. Sci Rep. 2020:10:3588.
- The effects of intravitreal sodium iodate injection on retinal degeneration following vitrectomy in rabbits. Ahn SM, Ahn J, Cha S, Yun C, Park TK, Kim YJ, Goo YS, Kim SW\*. Sci Rep. 2019:9:15696.
- Development of a Post-vitrectomy Injection of N-methyl-N-nitrosourea as a Localized Retinal Degeneration Rabbit Model. Ahn SM, Ahn J, Cha S, Yun C, Park TK, Goo YS, Kim SW\*. Exp Neurobiol. 2019:28:62-73.
- Comparison of ring 1 parameters in 37-segment multifocal electroretinography between onset and offset conditions of ring 2 to 4 in normal subjects. Yoo JH, Yun C, Oh J, Kim SW\*. Int J Ophthalmol. 2019:12:73-78.
- Evaluation of polyesteramide (PEA) and polyester (PLGA) microspheres as intravitreal drug delivery systems in albino rats. Peters T, Kim SW, Castro V, Stingl K, Strasser T, Bolz S, Schraermeyer U, Mihov G, Zong M, Andres-Guerrero V, Herrero Vanrell R, Dias AA, Cameron NR, Zrenner E. Biomaterials. 2017:124:157-168. (co-1st author)
- The Effects of Alcohol on Visual Evoked Potential and Multifocal Electroretinography. Kim JT, Yun CM, Kim SW\*, Oh J, Huh K. J Korean Med Sci. 2016:31:783-789

# Candidate statement Member-at-large Jason McAnany

It is an honor to be nominated for the position of member-at-large. As a brief background, I completed my post-doctoral studies in clinical electrophysiology with Drs. Jerry Fishman and Ken Alexander at the University of Illinois in Chicago, where I am currently an Associate Professor of Ophthalmology. In addition to directing the Clinical Electrophysiology Service at the Illinois Eye Infirmary, I also lead the Clinical Electrophysiology and Psychophysics Research Laboratory. Our National Eye Institute-funded lab is focused on developing novel approaches for assessing visual function in patients who have inherited (R01-EY029796) and acquired (R01-EY026004) retinal disorders.



I have been an active member of ISCEV since 2012. Recently, I have had the privilege of serving as an Editorial Board Member of our Society's journal, *Documenta Ophthalmologica*. In ardent support of our journal, our group has published eight articles in *Doc Oph* over the last five years. In addition to being

the primary channel for ISCEV members to record our work, *Doc Oph* plays an essential role in communicating our standards. To this end, I served as a member of the "PhNR extended protocol group," which published the extended protocol for PhNR measurement in 2018. As a member-at-large, I would work with our new Editor-in-Chief, Prof. Daphne McCulloch, to further the success of the journal, which is of such importance to our Society.

As a member-at-large, I would also support the growth of our Society, with particular emphasis on involving young scientists and physicians. It is through the recruitment, participation, and education of new members that ISCEV will have continued future success. Young members, in particular, are needed to ensure that the understanding and application of clinical electrophysiology of vision will be promoted long into the future. I have been involved in local and national educational activities to promote clinical electrophysiology, such as developing the new American Academy of Ophthalmology EyeWiki for electroretinography (with pages for VEP and EOG to be released soon).

Through the annual meetings that I have been fortunate to attend, I have learned that our Society is unlike any other. I have had the privilege of authoring/co-authoring 11 ISCEV meeting abstracts over the last 5 years. Collaborative projects presented at the 2017/2019 meetings were selected for the Marmor Award, which has greatly accelerated the development of a soft, disposable corneal ERG electrode for human and veterinary use. The annual meetings have all been enriching and illuminating experiences, both professionally and personally.

In sum, I am eager to serve our Society as a member-at-large in order to further the mission of, and give back to, a remarkable organization from which I have benefited tremendously.

## Current Position

Associate Professor of Ophthalmology (with tenure); Illinois Eye Infirmary; University of Illinois at Chicago

Adjunct Associate Professor of BioEngineering, University of Illinois at Chicago

### Training and Experience

Assistant Professor of Ophthalmology (2011-2017); University of Illinois at Chicago; Illinois Eye Infirmary

NIH K99/R00 Research Fellow with Drs. Kenneth Alexander and Gerald Fishman (2006-2011); Illinois Eye Infirmary

PhD; University of Illinois at Chicago (2006)

MA; University of Illinois at Chicago (2003)

## Recent Publications (selected from 33 peer-reviewed articles in the last 5 years)

- McAnany JJ, Persidina O, Park JC. Clinical electroretinography in diabetic retinopathy: A review. *Surv Ophthalmol*. 2021; S0039-6257(21)
- Park JC, Collison FT, Fishman GA, McAnany JJ. Electrophysiological and pupillometric abnormalities in PROM1 cone-rod dystrophy. *Transl Vis Sci Technol*. 2020;9(9):26
- McAnany JJ, Chen YF, Liu K, Park JC. Nonlinearities in the flicker electroretinogram: A tool for studying retinal dysfunction applied to early-stage diabetic retinopathy. *Vision Res*. 2019;161:1-11.
- McAnany JJ, Park JC. Cone photoreceptor dysfunction in early-stage diabetic retinopathy: Association between the activation phase of cone phototransduction and the flicker electroretinogram. *Invest Ophthalmol Vis Sci*. 2019;60:64-72
- McAnany JJ, Park JC. Temporal frequency abnormalities in early-stage diabetic retinopathy assessed by electroretinography. *Invest Ophthalmol Vis Sci*. 2018;59:4871-4879.

# Candidate statement Member-at-large Maja Šuštar

I am honoured to be nominated for the position of a member-at-large on the ISCEV board. I am currently working as the head of a Laboratory for clinical electrophysiological diagnostics in Eye Hospital, University Medical Centre Ljubljana, Slovenia. My first experience with electroretinography was through my graduation thesis at Biological University, which was based on the ERG of *Drosophila* with several known mutations in the phototransduction cascade. Afterwards, in 2005, I got the position of young researcher and PhD student under the mentorship of prof. Jelka Breceelj at the Eye Hospital. At that time, I also visited my first ISCEV meeting. It was in Glasgow and I was amazed by the kindness and supportiveness of the society towards young people, entering the world of visual electrophysiology. Two years later, in Hyderabad, I received an Eberhardt Dodt award. Since then, I am (more or less) regular visitor of ISCEV meetings, as well as I helped with the organisation of the 2015 ISCEV meeting in Ljubljana. I have finished my PhD at the Medical University in 2010, my field of research was investigation and development of several (at that time yet non-standardised) ERG techniques: On-Off ERG, PhNR and S-cone ERG. I had an opportunity to share our findings as a co-author of two ISCEV guidelines for extended ERG protocols. During my PhD training I have visited prof. Graham Holder's Laboratory in Moorfields, as well as Pierre Lachapelle's Laboratory in Montreal. Although these were shorter visits, I was happy for an opportunity to learn from the best. My current research interests are focused on modelling the ERG responses and identification of the waveform components, important for detection of certain retinal pathologies. However, my main occupation at the Eye Hospital since 2005 is recording and interpretation of visual electrophysiological responses in children and adults. My mentor prof. Jelka Breceelj, who established our Laboratory together with prof. Marko Hawlina, made a statement to strictly follow ISCEV standards, guidelines and all the main innovations, presented at the ISCEV symposia. In such manner, we perform the following tests on a regular basis: EOG, full-field ERG (+extended protocols: On-Off ERG, PhNR and S-cone ERG, DA red ERG), mfERG, PERG, multichannel VEP to pattern-reversal, pattern-onset and flash stimulation and sweep VEP. My mentor also passed on to me the knowledge of non-invasive paediatric electrophysiology that she learned from prof. Tony Kriss and prof. Dorothy Thompson. More than half of our patients are infants and little children. Our long history of experiences and cooperation with Great Ormond Street Hospital recently set forth a collaborative review article, published in *Eye*. As an associate professor I also take part in teaching of undergraduate and graduate students. As someone whose career is based on everyday clinical electrophysiological recording and research of new electrophysiological techniques I may contribute to development of clinical electrophysiology of vision. Therefore, it would be a great honour to serve as a member-at-large of ISCEV society.



## Selected Publications

- Handley SE, Šuštar M, Pompe MT. What can visual electrophysiology tell about possible visual-field defects in paediatric patients. *Eye*. 2021 Jul 16:1-20.
- Sustar M, Holder GE, Kremers J, Barnes CS, Lei B, Khan NW, Robson AG. ISCEV extended protocol for the photopic On-Off ERG. *Documenta Ophthalmologica*. 2018 Jun;136(3):199-206
- Frishman L, Sustar M, Kremers J, McAnany JJ, Sarossy M, Tzekov R, Viswanathan S. ISCEV extended protocol for the photopic negative response (PhNR) of the full-field electroretinogram. *Documenta Ophthalmologica*. 2018 Jun;136(3):207-11
- Cvenkel B, Sustar M, Perovšek D. Ganglion cell loss in early glaucoma, as assessed by photopic negative response, pattern electroretinogram, and spectral-domain optical coherence tomography. *Documenta Ophthalmologica*. 2017 Aug;135(1):17-28
- Gauvin M, Sustar M, Little JM, Breceelj J, Lina JM, Lachapelle P. Quantifying the ON and OFF contributions to the flash ERG with the discrete wavelet transform. *Translational vision science & technology*. 2017 Jan 1;6(1):3-
- Sustar M, Perovšek D, Cima I, Stirn-Kranjc B, Hawlina M, Breceelj J. Electroretinography and optical coherence tomography reveal abnormal post-photoreceptor activity and altered retinal lamination in patients with enhanced S-cone syndrome. *Documenta Ophthalmologica*. 2015 Jun;130(3):165-77
- Sustar M, Hawlina M, Breceelj J. Electroretinographic evaluation of the retinal S-cone system. *Documenta ophthalmologica*. 2011 Dec;123(3):199-210
- Sustar M, Cvenkel B, Breceelj J. The effect of broadband and monochromatic stimuli on the photopic negative response of the electroretinogram in normal subjects and in open-angle glaucoma patients. *Documenta ophthalmologica*. 2009 Jun;118(3):167-77
- Sustar M, Stirn-Kranjc B, Hawlina M, Breceelj J. Photopic ON-and OFF-responses in complete type of congenital stationary night blindness in relation to stimulus intensity. *Documenta ophthalmologica*. 2008 Jul;117(1):37-46
- Sustar M, Hawlina M, Breceelj J. ON-and OFF-response of the photopic electroretinogram in relation to stimulus characteristics. *Documenta ophthalmologica*. 2006 Jul;113(1):43-52.