

SUMMARY OF LOW VISION PRESENTATIONS AT ARVO 2017

Day	Date	Start Time	End Time	Title	Session Number	Description	Location
Sunday	07/05/2017	8.30	10.30	Light-based treatment strategies for blinding eye disease	101	Symposium [AP, BI, CO, EY, GL, IM, LE, LV, MOI, PH, RC, RE, VI] #1-6 Ophthalmic light-based therapies harness the power and the precision of light and the specificity of light-activated drugs and nanoparticles. The importance of optical properties of cornea, lens and other eye tissues, in the design of the light-based strategies will be highlighted. The success of this approach depends on international and multidisciplinary efforts to create a continuous dialogue in a common language among physicists and engineers among other basic scientists, as well as clinicians. This symposium brings together experts with perspectives from various disciplines to discuss pathways and opportunities for minimally invasive emerging and future light-based strategies to prevent vision loss from diseases including tumors, corneal disease, glaucoma, and diseases of the retina. Moderators: Yeni Yucel (Univ of Toronto/St Michael Hosp), Janis Eells (Univ of Wisconsin - Milwaukee), Timothy Kern (Case Western Reserve University) and David Williams (University of Rochester)	Ballroom 3
Sunday	07/05/2017	8.30	10.15	Retinal degeneration. Models and mechanisms	111	Poster session [RC,LV] #263-294 Board number B0316 - B0347 Moderator: Abigail Hayes (West Virginia University)	Exhibit hall
Sunday	07/05/2017	13.30	15.15	Eye movements	140	Poster session- Poster Range: B0586 - B0601 Moderato: Paul Knox (University of Liverpool)	Exhibit hall
Sunday	07/05/2017	15.15	17.00	Frequency of Visual Impairment and Eye Disease and Their Risk Factors	148	[CL] #834-840 Moderators: Rohit Khanna (LV Prasad Eye Institute) and Rupert Bourne (Anglia Ruskin University)	Room 309
Sunday	07/05/2017	17.15	19.15	Improving global eye health: Beating the odds for neglected and emerging diseases around the world	164	[CO, CL,EY, GEN, GL, IM, LV, MOI] #1165-1170 Vision Diseases affecting eye health and vision constitute a global burden. However, successes in prevention, understanding, diagnosis, treatment and partnerships are needed to improve care for a number of neglected and emerging diseases. Presenting perspectives from five continents, this symposium will bring together diverse experts to describe the impact of key eye diseases on human health in networks of connected communities from local to global levels. Moderators:	Hall G

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						Yeni Yucel (Univ of Toronto/St Michael Hosp), Sheila West (Johns Hopkins Wilmer Eye Inst) and Thomas Ferguson (Washington University)	
Monday	08/05/2017	8.30	10.15	Living With Vision Loss	218	Poster session [CL] - Poster Range: A0297 - A0328 Moderator: Yaping Jin (University of Toronto)	Exhibit hall
Monday	08/05/2017	8.30	10.15	Retinal diseases	222	Poster session [CL, LV] #1486 - 1509 Board number B0167 - B0190 Moderator: Stuart Keel (Centre for Eye Research Australia)	Exhibit hall
Monday	08/05/2017	11.00	12.45	Improving Eye Care Delivery	233	Paper session [CL] - Moderators: Lisa Keay (George Institute for Global Health) and Emily Gower (Wake Forest Health Sciences)	Room 309
Monday	08/05/2017	11.00	12.45	Applications of adaptive optics for retinal imaging and visual function testing	235	Minisymposium [VI, CL, GL, LV, MOI, RC, RE, VN] #1629-1634 New applications of adaptive optics are emerging for in vivo probing of retinal structure and function. The concept of adaptive optics will be explained for a wide variety of techniques, followed by several applications made possible by this technology. Examples include two photon imaging to visualize RPE and other cells, OCT to quantify photoreceptor and choriocapillaris structure, examination of retinal function, cone distributions, single particle blood velocity, ganglion cells, and the relationship between cone structure and function in inherited retinal diseases. These unprecedented views into the retina allow new thinking about the microcircuitry and metabolic support of local retina. The benefits include the potential for earlier and more accurate detection of pathology and more rapid assessment of the outcomes of treatment. Moderators: Ann Elsner (Indiana University) and Thomas Raasch (Ohio State University)	Room 316
Monday	08/05/2017	11.00	12.45	Optical coherence tomography in pediatric neuro-ophthalmology	236	Minisymposium [EY, GL, LV, RC] #1635-1640 Optical coherence tomography (OCT) has revolutionized the diagnosis and treatment of adults with retinal and optic nerve diseases but until recently has not been readily available for use in children. Hand-held OCT now provides the possibility of imaging the retina and optic nerve head in infants and children from birth onwards. This minisymposium seeks to provide an overview of what we can currently achieve using hand-held OCT for the diagnosis and monitoring of pediatric neuro-ophthalmology cases. It also explores the contribution that hand-held OCT makes, improving our understanding of neuro-ophthalmological diseases in childhood. Moderators: Irene Gottlob (University of Leicester) and Frank Proudlock (University of Leicester)	Room 324
Monday	08/05/2017	13.00	14.30	LV Group: Reading with low vision:	251	[LV, VI, CL, EY] The ability to read is an integral task of	Room 308

				What we know and need to know		daily life. People read for their work, for pleasure, for medication management and for managing their finances and personal mail to name just a few. Many patients with low vision experience difficulties with reading. In fact, the number one rehabilitation goal of patients presenting to a low vision clinic is to improve their ability to read. While previous research into reading has increased our understanding of the visual factors that affect reading, there are still important aspects about reading that remain to be addressed. Speakers will describe what low vision research has taught us about the factors that affect reading performance, novel strategies that aim to improve reading ability and new research that needs to be performed to address some of the key gaps in our understanding of reading in people with low vision. Moderators: Chris Dickinson (University of Manchester) and Aurelie Calabrese (Univ of Minnesota)	
Monday	08/05/2017	13.00	14.30	Controversies in Albinism: Why is Their Vision Poor and How Do We Fix It?	260	SIG [EY, RE, RC, VI, GEN] Controversy surrounds the cause of vision loss in albinism limiting the development of new therapies. The SIG will debate the importance and time-course of visual pathway abnormalities arising in albinism and where future treatments can be targeted. Moderators: Murray Brilliant (Marshfield Clinic) and Frank Proudlock (University of Leicester)	Room 324
Monday	08/05/2017	15.45	17.30	The Impact of Low Vision on Mobility	270	[LV] #2044-2049 Moderators: Carrie Huisingsh (University of Alabama at Birmingham) and Joanne Wood (Queensland University of Technology)	Room 308
Monday	08/05/2017	15.45	17.30	Visual Impairment	278	Poster session [CL, LV] #2191 - 2218 Board number A0329 - A0356 Moderator: Alexis Malkin (New England College of Optometry)	Exhibit hall
Monday	08/05/2017	15.45	17.30	Refractive Error	286	Poster session [CL, AP, LV] #2369 - 2405 Board number B0518 - B0554 Moderator: Padmaja Sankaridurg (Brien Holden Vision Institute)	Exhibit hall
Tuesday	09/05/2017	8.30	10.30	The Impact of Low Vision on Function and Everyday Activities	307	[LV] #2479-2484 Moderators: Bradley Dougherty (The Ohio State University) and Walter Wittich (University of Montreal)	Room 308
Tuesday	09/05/2017	8.30	10.30	Visual Fields, Vision Function, Psychophysics I	320	Poster session [GL, LV] #2834 - 2881 Board number B0437 - B0484	Exhibit hall
Tuesday	09/05/2017	11.00	12.45	Retinitis pigmentosa (clinical)	343	Poster session [RE, GEN, LV, RC] #3216 - 3263 Board number B0349 - B0396 Moderators: Yasuhiro Ikeda (Kyushu University) and Stephen Tsang (Edward S. Harkness Eye Institute/Columbia University)	Exhibit hall
Tuesday	09/05/2017	11.00	12.45	Functioning with Low Vision	344	Poster session [LV, CL] #3264 - 3303 Board number B0397 - B0436	Exhibit hall
Tuesday	09/05/2017	11.00	12.45	ER stress and the unfolded protein	325	Minisymposium [BI, GL, LV, PH, RC, RE] #2940-2945	Ballroom 1

				response in ocular health and disease					
Tuesday	09/05/2017	15.45	17.30	AMD imaging II and visual function	366	[RE] #3398-3403		Hall G	
Wednesday	10/05/2017	8.30	10.15	Vision and driving: Lessons learned and future directions	410	Minisymposium [CL, GL, LV, VI] #3800-3803 This minisymposium will review research on vision and driving done from a variety of approaches including on-road driving assessments, driving monitoring systems, self-reported driving, records of motor vehicle collisions, and driving simulators. Speakers will discuss how vision or eye disease affect the ability to perform various tasks related to safe driving or the risk of collision. Moderators: Lisa Keay (George Institute for Global Health) and Ellen Freeman (University of Ottawa)		Room 309	
Wednesday	10/05/2017	8.30	10.15	Retinal prostheses	427	Poster session [RE, LV, MOI] #4175 - 4208 Board number B0531 - B0564 Moderators: Eberhart Zrenner (Centre for Ophthalmology) and Paulo Stanga (Manchester Royal Eye Hospital)		Exhibit hall	
Wednesday	10/05/2017	11.00	12.45	Color vision, low vision	438	[VI] #4297-4303 Moderators: Joseph Carroll (Medical College of Wisconsin) and Aparna Raghuram		Room 316	
Wednesday	10/05/2017	11.00	12.45	Photoreceptor degeneration and retinal rescue strategies	447	Poster session [RC, LV] #4530 - 4555 Board number B0185 - B0210 Moderators: Pamela S Lagali (Ottawa Hospital Research Institute) and Andrey Dmitriev (Northwestern University)		Exhibit hall	
Wednesday	10/05/2017	11.00	12.45	Low Vision Populations, Services and Treatments	452	Poster session [LV] #4658 - 4689 Board number B0565 - B0596 Moderator: Francisco Costela (Schepens Eye Research Institute)		Exhibit hall	
Wednesday	10/05/2017	11.00	12.45	VI Poster 7: Vision in aging and disease	453	Poster session [VI] - Poster Range: B0642 - B0669 Moderator: Walter Wittich (University of Montreal)		Exhibit hall	
Wednesday	10/05/2017	15.45	17.30	Visual Fields, Vision Function, Psychophysics II	471	[GL] #4741-4747 Moderators: John Flanagan (University of California Berkeley) and Ted Maddess (Australian National University)		Ballroom 4	Part 1 was coded as LV
Wednesday	10/05/2017	15.45	17.30	Laser Therapy and MIGS	485	Poster session [GL, LV] #4975 - 4999 Board number B0393 - B0417 Moderators: Carol Toris (Case Western Reserve University) and Anne Coleman (UCLA Medical Center)		Exhibit hall	
Wednesday	10/05/2017	15.45	17.30	Low Vision Devices and Rehabilitation	474	[LV] #4761-4766 Moderators: Gislin Dagnelie (Johns Hopkins Univ) and Shrinivas Pundlik (Schepens Eye Research Institute, Mass Eye and Ear)		Room 308	
Thursday	11-mag	11.30	12.45	Myopic CNV and CSCR	547	Poster session [RE, AP, LV, MOI] #5917 - 5941 Board number B0653 - B0677		Exhibit hall	