



**IMAGING and
PERIMETRY
SOCIETY**

**24th IPS Meeting
August 11-13, 2022
Berkeley, California**

	Clinical Imaging and Perimetry	New Technology	Structure-Function	Artificial Intelligence
Thursday August 11				
08:15	Breakfast: Exhibits & Networking			
08:55	Welcome to the Conference: John Flanagan & Linda Zangwill			Presenting Author
	Session 1: Big Data & Motion. Moderators: John Flanagan & Linda Zangwill			
09:00	A prospective longitudinal study to investigate corneal hysteresis as a risk factor of central visual field progression			Alireza Kamalipour
09:10	Using large scale visual field data from clinics in England to examine associations between socio-economic status			Mehal Rathore*
09:20	Power to the People: Estimating the Detectability of Change in Individual Patients' Visual Field Series			Fabian Yii*
09:30	Discussion			
09:45	Measurement of fixational eye movements during visual field testing			Takuya Ishibashi*
09:55	Moving vs. Static Stimuli for Perimetry: Patient Experience			Donovan Redtomahawk
10:05	Moving vs. Static Stimuli for Perimetry: Repeatability and Defect Detectability			Stuart Gardiner
10:15	Discussion			
10:30	Break: Exhibits & Networking			
	Session 2: Virtual Reality & Home-Based Monitoring. Moderators: Lyne Racette & Jonathan Dennis			
11:00	Quantitative Visual Field Tests using Tablets and Virtual Reality Headsets			Chris Johnson
11:10	Acceptability of home-based visual field testing for glaucoma monitoring: A qualitative study of patients' views			Tamsin Callaghan
11:20	High-precision bundle-based tracking of visual fields at home in patients with glaucoma			Benjamin Backus
11:30	Discussion			
11:45	Lens Fogging in Virtual Reality Visual Field Devices in a Remote Setting			Annika Patel
11:55	Visual field testing with a commercially available head-mounted display			Jenny Bosten
12:05	Acceptability of home-based visual field testing for glaucoma monitoring: Accuracy and reliability data			Peter Campbell
12:15	Discussion			
12:30	Lunch: Exhibits & Networking			
12:45	Carl Zeiss Meditec Lunchtime Symposium: Ryo Asaoka MD, PhD. "Reliability Indices: Are They Reliability Measures"			
	Session 3: Artificial Intelligence – Imaging. Moderators: Andrew Turpin & Michael Wall			
13:30	Keynote: Naama Hammel MD. From Code to Clinic: Challenges in translating ML models into real world products			Introduction: Linda Zangwill
14:00	Ability of Machine Learning to Predict Functional Loss from Optical Coherence Tomography in Glaucoma Patients			Davide Scandella
14:10	Deep Learning Models Based on Unsegmented OCT RNFL Circle Scans Provide Accurate Detection of Glaucoma			Mark Christopher
14:20	Sex judgment using parameters of color fundus photographs in growth phase			Takehiro Yamashita
14:30	Discussion			
14:45	The influence of including OCT in POAG clinical trial endpoint determinations: Evidence from the OHTS3 20-yr follow-up			Linda Zangwill
14:55	An evaluation of an OCT-based Method for detecting glaucoma in a Reading Center setting			Don Hood
15:05	Discussion			
15:15	Break: Exhibits & Networking			
	Session 4: New Strategies and Devices. Moderators: Michael Patella & Takashi Nishida			
15:45	Evaluation of a visual field test strategy AIZE-EX			Hiroki Nomoto*
15:55	Characteristic findings of functional visual loss with perimeter imo			Akihiko Sugino
16:05	The efficiency of detection of a glaucoma visual field defect using a tablet perimetry tool: The Multi-Stimulus vision tester			Fumi Tanabe*
16:15	Discussion			
16:30	New portable binocular perimeter imo vifa			Chota Matsumoto*
16:40	High density perimetry and foveal avascular zone in glaucoma.			Augusto Paranhos Jr.
16:50	Discussion			
17:15	Close			
Friday August 12				
08:15	Breakfast: Exhibits & Networking			
	Session 5: Clinical Imaging and Perimetry. Moderators: Linda Zangwill & Stuart Gardiner			
09:00	Keynote: Brad Fortune OD, PhD. Clinical-Pathologic Correlations Informing S-F Relationships During Progression			Introduction: Linda Zangwill
09:30	The invisibility of Scotomas Pt 1: Scotoma Carving with Loss of High-Level Cells			Eli Peli
09:40	The invisibility of Scotomas Pt 2: Replacement with Loss of Photoreception			Eli Peli
09:50	Discussion			
10:00	Detection of glaucoma progression based on changes of the circumpapillary RNFL thickness between two OCT scans			Emmanouil Tsamis
10:10	Characterization of retinal nerve fiber layer and ganglion cell layer inner plexiform thickness in the OHTS3 20-yr follow-up			Evan Walker
10:20	Discussion			
10:30	Break: Exhibits & Networking			
11:00	Aulhorn Lecture: Allison M. McKendrick PhD, BSOptom. "Can Structural Information Improve Perimetry?"			Moderator: Chris Johnson
11:25	Discussion			

	Session 6: Diabetes, OCTA and Summation. Moderators: Donald Hood & Tony Redmond	
11:30	Evaluating early diabetic retinal neuron damage using contrast increments and decrements	Allison McKendrick
11:40	Initial OCTA vessel density loss is associated with faster visual field loss in glaucoma	Takashi Nishida
11:50	Detecting glaucomatous loss in the photopic full-field ERG: Influence of chromatic contrast, flash duration and flicker	Brad Fortune
12:00	Discussion	
12:15	Examining Spatial, Temporal and Spatiotemporal Summation in Age-Related Macular Degeneration	Aoife Hunter
12:25	Spatial summation in the glaucomatous macula: a model for retinal ganglion cell damage	Giovanni Montesano
12:35	Discussion.	
12:45	Lunch: Exhibits & Networking	
13:00	Topcon Health Lunchtime Symposium: Donald Hood PhD. "What OCT Can Tell Us About Visual Fields?"	
15:00	Transportation to William Hill Estate Winery, Napa, CA	
Saturday August 13		
08:15	Breakfast: Exhibits & Networking	
	Session 7: Structure – Function. Moderators: Brad Fortune & Allison McKendrick	
09:00	Keynote: William Tuten OD, PhD. "Measuring Human Vision at the Cellular Scale"	Introduction: John Flanagan
09:30	Integration of structural data into perimetric examinations	Josephine Evans*
09:40	Concordance between objectively-detected RNF bundle defects in enface OCT images and conventional structural	Riccardo Cheloni
09:50	Discussion	
10:00	Recovery of a laser retinal damage case observed with adaptive optics retinal imaging and microperimetry	Yiyi Wang
10:10	Comparing the structure-function relationship between the strategies of SITA standard and KOWA Smart	Yuri Fujino
10:20	Discussion	
10:30	Break: Exhibits & Networking	
	Session 8: Clinical Perimetry and New Technology. Moderator: Mitch Dul and Chris Johnson	
11:00	Area Modulation Perimetry Reveals Retinal Ganglion Cell Dysfunction in Early Glaucoma	Pádraig Mulholland
11:10	Short-term visual field improvement after initial intraocular pressure lowering therapy in newly diagnosed glaucoma	Peter Reddingius
11:20	Perimetric testing of patients with ocular hypertension in the English Hospital Eye Service	Stephen Kelly
11:30	Discussion	
11:45	Influence of Myopic Correction and Axial Length on ON-OFF Perimetry	Stephen Dellostritto
11:55	Influence of Open Angle Glaucoma on ON-OFF Perimetry	Jia Tan
12:05	Discussion	
12:15	Lunch: Exhibits & Networking	
12:30	Heidelberg Eng. Lunchtime Symposium: Kouros Nouri-Mahdavi MD, PhD. "Detection of Glaucoma Progression: Lessons Learned from the Macula"	
13:15	Business Meeting	
14:15	IPS Lecture: Michael Patella OD. "Lessons Learned after 40 years of Wandering in the Wilderness of Clinical Perimetry"	Moderator: John Flanagan
14:40	Discussion	
	Session 9: Central Scotomas and Microperimetry. Moderator: Chris Johnson	
14:45	Central and Cecocentral Scotomas and Neuro-Ophthalmic Revisionist Approach	Steven Newman
14:55	Properties of measurements from the S-MAIA microperimeter in people with intermediate AMD in the MACUSTAR study	Bethany Higgins
15:05	Discussion	
15:15	Break: Exhibits & Networking	
	Session 10: New Tools and Techniques. Moderators: John Flanagan & Ryo Asaoka	
15:45	Keynote: Dimitri Azar MD, PhD. "Artificial Intelligence in Diagnosis of Ophthalmic Diseases"	Introduction: John Flanagan
16:15	The Java Open Visual Psychophysics (JOVP)	Iván Marin-Franch
16:25	Using artificial responses to speed up perimetric tests	Andrew Turpin
16:35	Invariance of test-retest variability with spot stimulus configuration	Tony Redmond
16:45	Discussion	
17:00	Suprathreshold approaches to spatially mapping the visual field in advanced glaucoma	Jonathan Dennis
17:10	Increasing spatial sampling in perimetry: a case series exploration of clinician of stimuli preferences relative to	Vasanth Muthusamy*
17:20	Discussion	
17:30	Closing Remarks: John Flanagan & Linda Zangwill	
18:30	IPS Banquet and National Songs	

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