

February 23-24, 2018
The Oxford Hotel, Denver, Colorado, USA

	FRIDAY, FEBRUARY 23, 2018
8:00 – 9:00 AM	SESSION I: FUNDAMENTALS OF OPHTHALMIC OPTICS <i>Moderator: Ray Applegate, OD, PhD</i>
9:00 – 9:30 AM	Fundamentals of Ophthalmic Optics <i>Austin Roorda, PhD</i>
9:00 – 10:15 AM	SESSION II: VIRTUAL REALITY AND BINOCULAR VISION <i>Moderator: Geunyoung Yoon, PhD</i>
9:00 – 9:15 AM	The Inseparable Link Between Vision and Eye Movements <i>Michele Rucci, PhD</i>
9:15 – 9:30 AM	Rendering Natural Eye Aberrations Drives Accommodation Effectively <i>Marty Banks, PhD</i>
9:30 – 9:45 AM	Extended Depth of Focus and Convergence-accommodation Conflict <i>Geunyoung Yoon, PhD</i>
9:45 – 10:00 AM	Understanding Natural Statistics of the Visual World to Support Immersive Experiences in AR/VR <i>Marina Zannoli, PhD</i>
10:00 - 10:15 AM	Open Discussion
10:15 – 10:35 AM	Coffee Break
10:35 – 11:50 AM	SESSION III: OCULAR ANTERIOR SEGMENT IMAGING MODALITIES FOR ACCOMMODATION RESTORATION <i>Moderator: Adrian Glasser, PhD</i>
10:35 – 10:50 AM	Anterior Segment Imaging for Accommodation Restoration <i>Adrian Glasser, PhD</i>
10:50 – 11:05 AM	The ArcScan Insight 100 Anterior Segment Imaging System <i>Andy Levien</i>
11:05 – 11:20 AM	The Sonomed Escalon VuMAX HD Ophthalmic Ultrasound <i>Enrique Pfeiffer, MD</i>
11:20 – 11:35 AM	The Leica Optical Coherence Tomography (OCT) System <i>Joe Vance</i>
11:35 – 11:50 AM	Open Discussion
11:50 AM – 1:05 PM	SESSION IV: ADVANCES IN RESEARCH IN VISION AND OPHTHALMOLOGY WITH ADAPTIVE OPTICS <i>Moderator: Austin Roorda, PhD</i>
11:50 – 12:05 PM	Innovation in Adaptive Optics Imaging <i>Jennifer Hunter, PhD</i>
12:05 – 12:20 PM	AOSLO for Vision Testing <i>Will Tuten, OD, PhD</i>
12:20 – 12:35 PM	TBD <i>Sowmya Ravikuma, PhD</i>
12:35 – 12:50 PM	TBD
12:50 – 1:05 PM	Open Discussion
1:05 – 2:15 PM	LUNCHEON (all attendees)

2:15 – 3:30 PM	SESSION V: ADVANCES IN CORNEAL COLLAGEN CROSSLINKING <i>Moderator: Michael Mrochen, PhD</i>
2:15 – 2:30 PM	Advances in Corneal Collagen Crosslinking <i>Michael Mrochen, PhD</i>
2:30 – 2:45 PM	Depth Dependent Evidence of CXL with Compression OCT Elastography <i>Vinicius De Stefano, MD</i>
2:45 – 3:00 PM	TBD <i>Sabine King</i>
3:00 – 3:15 PM	TBD <i>Daniel Neal, PhD</i>
3:15 – 3:30 PM	Open Discussion
3:30 – 4:55 PM	SESSION VI: EMERGING REFRACTIVE AND PRESBYOPIA TECHNOLOGY <i>Moderator: Geunyoung Yoon, PhD</i>
3:30 – 3:45 PM	Correcting Corneal Refractive Error with fs-Laser Refractive Indexing <i>Scott MacRae, MD</i>
3:45 – 4:00 PM	New IOL Design <i>Harilaos Ginis, PhD</i>
4:00 – 4:15 PM	Hyperopia Correction with SMILE Lenticules – A Comparison Between Clinical Data and Biomechanical Simulations <i>Michael Mrochen, PhD</i>
4:15 – 4:30 PM	New IOL Design for Presbyopia Correction <i>Harilaos Ginis, PhD</i>
4:30 – 4:40 PM	VisAbility Micro Insert Surgery for Presbyopia Results, Improving Near Vision Without Distance Compromise <i>Barrie Soloway, MD</i>
4:40 – 4:55 PM	Open Discussion

	SATURDAY, FEBRUARY 24, 2018
8:30 – 10:05 AM	SESSION VII: EXTENDED DEPTH OF FOCUS TECHNOLOGY <i>Moderator: Geunyoung Yoon, PhD, Ronald Krueger, MD</i>
8:30 – 8:45 AM	Optical Properties of Presbyopic Solutions <i>Pablo De Gracia, OD, PhD</i>
8:45 – 9:00 AM	Overview of the Mechanism and Utility of EDOF Lenses in Clinical Practice <i>Karolline Rocha, MD, PhD</i>
9:00 – 9:15 AM	The SMARRT IOL for Monitoring, Multifocality and Magnification <i>David Smadj, MD</i>
9:15 – 9:30 AM	Trifocal vs. EDOF IOL technologies, and how to maximize efficacy, while minimizing symptoms <i>Damien Gatinel, MD, PhD</i>
9:30 – 9:40 AM	A New Approach to Contact Lens Presbyopia Correction with fs-Laser Refractive Indexing <i>Len Zheleznyak, PhD</i>
9:40 – 9:50 AM	Comparison of Ray-tracing, Hartmann-Shack, Autorefractometry and Manifest Refraction in Echelette's Achromatic Intraocular Lenses <i>Joseana Lopes Ferreira, MD</i>
9:50 – 10:05 AM	Open Discussion

10:05 – 11:30 AM	SESSION VIII: CORNEAL BIOMECHANICS Moderator: <i>William Dupps, MD, PhD</i>
10:05 – 10:20 AM	TBD <i>Cynthia Roberts, PhD</i>
10:20 – 10:35 AM	Finite Element Modeling Applications in Ectasia Detection and Treatment <i>Ibrahim Seven, PhD</i>
10:35 – 10:45 AM	Non-contact Technique for Direct Corneal Strength Measurement <i>Dimitri Chernyak, PhD</i>
10:45 – 11:00 AM	New Clinical Metrics of Corneal Biomechanics with Dynamic Scheimpflug Videography (Corvis) <i>Sven Reisdorf, PhD</i>
11:00 – 11:15 AM	Open discussion
11:15 – 11:30 AM	Coffee Break
11:30 – 12:45 PM	SESSION IX: CONTACT LENS TECHNOLOGY FOR MYOPIA PREVENTION Moderator: <i>Jason Marsack, PhD</i>
11:30 – 11:45 AM	Establishing an Academic Myopia Control Clinic <i>Eric Ritchey, OD, PhD</i>
11:45 – 12:00 PM	Myopia Control - An Industry Perspective <i>Arthur Back, B Optom, PhD</i>
12:00 – 12:15 PM	Eye's Response to Simultaneous Dual-focus Lenses <i>Baskar Arumugam, BS Optom, PhD</i>
12:15 – 12:30 PM	Peripheral Retinal Image Quality with Bifocal Contact Lenses <i>Geunyoung Yoon, PhD</i>
12:30 – 12:45 PM	Open Discussion
12:45 – 2:00 PM	Luncheon (all attendees)
2:00 – 3:15 PM	SESSION X: NEW TECHNOLOGIES - DIAGNOSIS AND TREATMENT Moderator: <i>Ronald Krueger, MD</i>
2:00 – 2:15 PM	A New Aberration Basis for Better Ocular Wavefront Analysis <i>Damien Gatinel, MD, PhD</i>
2:15 – 2:30 PM	Important Refractive Surgery Lessons from Big Data <i>Steven Schallhorn, MD</i>
2:30 – 2:45 PM	A New, Low Cost Measure of Centration and Tilt <i>Craig See, MD</i>
2:45 – 3:00 PM	Evaluating optical corrections across modalities using visual image quality metrics <i>Gareth Hastings Mphil, B. Optom</i>
3:00 – 3:15 PM	Open Discussion
3:00 – 3:45 PM	SESSION XI: REFRACTIVE PLANNING Moderator: <i>Ronald Krueger, MD</i>
3:00 – 3:15 PM	Custom Planning Cataract Surgery Outcomes Based on Objectively Measured Refraction Needs with a Wearable Device <i>Michael Mrochen, PhD</i>
3:15 – 3:30 PM	Planning Topographic Guided LASIK for Irregular Astigmatism and Astigmatism Disparity <i>Ronald Krueger, MD</i>
3:30 – 3:45 PM	Worldwide SMILE Outcomes <i>Steven Schallhorn, MD</i>

3:45 – 5:00 PM	SESSION XII: FREE PAPERS Moderator: <i>Ray Applegate, OD, PhD</i>
3:45 – 4:00 PM	SMILE Complications <i>Caio Meister, MD</i>
4:00 – 4:15 PM	Simulated Effect of Posterior Corneal Astigmatism on Limbal Relaxing Incision Treatment Outcomes <i>Huawei Zhao, PhD</i>
4:15 – 4:30 PM	Free paper <i>Tom Padrick, PhD</i>
4:30 – 4:45 PM	Free Paper
4:45 – 5:00 PM	Voting and Awards