

Wednesday, October 12

9:00 AM 1 hour Room 309
P-01 Papers: Optometric Education
 Moderators: XXX

9:00 AM. **EVALUATION OF A RATING SCALE FOR CLINICAL ABILITY OF OPTOMETRY STUDENTS (110002)**

Bradley Dougherty, BS, MS, OD Anupam Laul, BSc, OD, FAAO, Ohio State University

9:15 AM. **ENHANCING STUDENT ENGAGEMENT IN OPTOMETRIC EDUCATION (110973)**

Jay M. Rumsey III, OD, FAAO, Chris Woodruff, OD, FAAO, Gregory M. Fecho, OD, Nova Southeastern University College of Optometry

9:30 AM. **COMPARISON OF STUDENT AND FACULTY ATTITUDES TOWARD ACADEMIC ENTITLEMENT (110990)**

Nancy B. Carlson, OD, FAAO, Barbara McGinley, MA, New England College of Optometry

9:45 AM. **ENGAGED LEARNING IN OPTOMETRIC EDUCATION (110926)**

Rebecca L. Kammer, OD, FAAO

10:15 AM 1 hour Room 309
P-02 Papers: Public Health
 Moderators: XXX

10:15 AM. **WHICH FACTORS INFLUENCE PATIENTS' UTILISATION OF EYE CARE? (110120)**

Blanka Golebiowski, PhD, BOptom, Ulrike Stahl, PhD, Lisa Keay, BOptom, PhD, Fiona Stapleton, BSc, MSc, MCOptom, PhD, FAAO, University of New South Wales

10:30 AM. **EVALUATION OF OPHTHALMIC TECHNICIANS THE ONLY EXISTING REFRACTIVE SERVICE PROVIDERS IN MOZAMBIQUE (110451)**

Kajal R. Shah, BSc, MCOptom

10:45 AM. **VISUAL FIELD DEFECTS INDUCED BY FRAMES WITH WIDE TEMPLE WIDTHS (110072)**

Jessica M. Beauregard, Briana Gerry, Jessica Haake, Tiffany Khong, Holly M. Knight

11:00 AM. **BARRIERS CONTRIBUTING TO DIABETICS NOT RECEIVING ANNUAL DILATED EYE EXAMINATIONS (110102)**

Arraya Paksin-Hall, OD, FAAO, Robert J. Dole VA Medical Center, Michelle L Dent, OD, FAAO, Robert J. Dole VA Medical Center, Elizabeth Ablah, PhD

2:00 PM 1.5 hours Room 302
P-03 Papers: Perimetry
Moderators: XXX

2:15 PM. **FUNDUS PERIMETRY WITH NOVEL EYE MOVEMENT CORRECTION (110568)**

Ann E. Elsner, PhD, FAAO, Matthew Muller, MS, MBA, Aeon Imaging

2:30 PM. **ASSESSING AGREEMENT BETWEEN THRESHOLD STRATEGIES IN ADAPTIVE OPTICS SCANNING LASER OPHTHALMOSCOPE-BASED MICROPERIMETRY (AOSLO-MP) (110746)**

William S. Tuten, OD, MS, Pavan Tiruveedhula, MS, Austin Roorda, PhD, University of California Berkeley

2:45 PM. **MEASURING ROD PHOTORECEPTOR FUNCTION WITH A MICROPERIMETER (110929)**

Michael Crossland, PhD, MCOptom, FAAO, Andrew Stockman, PhD, UCL Institute of Ophthalmology

3:00 PM. **DICHOPTIC PERIMETER FOR LOW VISION APPLICATIONS (110095)**

Henry Apfelbaum, BA, Eli Peli, MSc, OD, FAAO, Schepens Eye Research Institute

3:15 PM. **SENSITIVITY OF INTRINSICALLY PHOTSENSITIVE RETINAL GANGLION CELLS TO FLICKERING LIGHT (110956)**

Holly E. Moose, PhD, Puneet Sodhi, Andrew Hartwick, OD, PhD, Ohio State University

2:00 PM 1.75 hours Room 310
P-04 Papers: Binocular Vision/Pediatrics
Moderators: XXX

2:00 PM. **ACCOMMODATIVE LAG AFTER DISCONTINUING BIFOCAL WEAR (110253)**

David A. Berntsen, OD, PhD, FAAO, Donald O. Mutti, OD, PhD, FAAO, Karla Zadnik, OD, PhD, FAAO, Ohio State University

2:15 PM. **ACCOMMODATIVE ACCURACY UNDER INDUCED CUE CONFLICT DURING DEVELOPMENT (110110)**

Tawna L. Roberts, OD, FAAO, T. Rowan Candy, MCOptom, PhD, FAAO, Indiana University

2:30 PM. **CHANGES IN READING PERFORMANCE IN SCHOOL-AGED CHILDREN WITH SYMPTOMATIC CONVERGENCE INSUFFICIENCY AFTER TREATMENT WITH VISION THERAPY (110562)**

G. Lynn Mitchell, BS, MAS, FAAO, Mitchell M. Scheiman, OD, FAAO, FCOVD, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Pennsylvania College

of Optometry at Salus University, Chris Chase, PhD, FAAO, Western University of Health Sciences - College of Optometry, Eric Borsting, OD, MS, FAAO, Southern California College of Optometry, Marjean T. Kulp, OD, MS, FAAO, Ohio State University, Susan A. Cotter, OD, MS, FAAO, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Southern California College of Optometry, CITT-RS Study Group

2:45 PM. **IMPROVEMENT IN ACADEMIC BEHAVIORS AND ATTENTION FOLLOWING SUCCESSFUL TREATMENT OF CONVERGENCE INSUFFICIENCY IN SCHOOL-AGED CHILDREN (110567)**

Eric Borsting, OD, MS, FAAO, G. Lynn Mitchell, BS, MAS, FAAO, Mitchell M. Scheiman, OD, FAAO, FCOVD, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Chris Chase, PhD, FAAO, Marjean T. Kulp, OD, MS, FAAO, Susan A. Cotter, OD, MS, FAAO, Diplomate, Binocular Vision, Perception & Pediatric Optometry, CITT-RS Study Group

3:00 PM. **ORAL READING IMPROVES WITH TREATMENT OF SYMPTOMATIC CONVERGENCE INSUFFICIENCY IN SCHOOL-AGED CHILDREN (110740)**

Chris Chase, PhD, FAAO, Western University of Health Sciences - College of Optometry, Eric Borsting, OD, MS, FAAO, G. Lynn Mitchell, MAS, FAAO, Mitchell M. Scheiman, OD, FAAO, FCOVD, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Lisa Higson, Southern California College of Optometry, Alex Tadros, Western University of Health Sciences - College of Optometry, CITT-RS Study Group

3:15 PM. **EFFECTIVENESS OF TWELVE VERSUS SIXTEEN WEEKS OF OFFICE-BASED VERGENCE/ACCOMMODATIVE THERAPY (110298)**

Kristine B. Hopkins, OD, MSPH, FAAO, Diplomate, Binocular Vision, Perception & Pediatric Optometry, G. Lynn Mitchell, MAS, FAAO, Ohio State University, Marjean T. Kulp, OD, MS, FAAO, Mitchell M. Scheiman, OD, FAAO, FCOVD, Diplomate, Binocular Vision, Perception & Pediatric Optometry, CITT-RS Study Group

3:30 PM. **MEASURING CONVERGENCE INSUFFICIENCY IN A POPULATION OF PATIENTS WITH SCHIZOPHRENIA (110931)**

Mark Bolding, Kristine B. Hopkins, OD, MSPH, FAAO, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Paul Gamlin, PhD, Adrienne Lahti, MD, University of Alabama at Birmingham

2:00 PM 1 hour Room 208
P-05 Papers: Anterior Segment & Dry Eye
Moderators: XXX

2:00 PM. ***P. AERUGINOSA* ISOLATES FROM THE SCUT STUDY (NON-CONTACT LENS WEARERS) REVEALS MULTIPLE GENOTYPES AND VARIABLE PHENOTYPES (110171)**

Chelsia Leong, University of California Berkeley, Arjay Clemente, Connie Tam, James J. Mun, BA, Avanti Ghanekar, Nisha Acharya, Nisha Acharya, Suzanne M. M.J Fleiszig, OD, PhD, FAAO

2:15 PM. STATIN USE TYPE 2 DIABETES AND AGE-RELATED CATARACT: WATERLOO EYE STUDY (110953)

Carolyn M. Machan, OD, University of Waterloo, Patricia K. Hrynychak, OD, FAAO, University of Waterloo, Elizabeth L. Irving, OD, PhD, University of Waterloo

2:30 PM. THE REPEATABILITY AND AGREEMENT OF THREE OPTICAL COHERENCE TOMOGRAPHY SYSTEMS ON CORNEAL EPITHELIAL THICKNESS (110980)

Lili Ge, MD, School of Ophthalmology and Optometry, Wenzhou Medical College, Aizhu Tao, School of Ophthalmology and Optometry, Wenzhou Medical College, Meixiao Shen, MSc, Bascom Palmer Eye Institute, Jianhua Wang, MD, PhD, Bascom Palmer Eye Institute, Fan Lu, MD, School of Ophthalmology and Optometry, Wenzhou Medical College

2:45 PM. DOES DEFOCUS CONTRIBUTE TO OCULAR DISCOMFORT? (110018)

Subam Basuthkar Sundar Rao, BS (Optom), Mphil, University of Waterloo, Trefford Simpson, PhD, University of Waterloo

3:00 PM 2 hours Room 311
P-06 Papers: Contact Lenses #1
 Moderators: XXX

3:00 PM. THE EFFECTS OF SOFT BIFOCAL CONTACT LENSES ON MYOPIA PROGRESSION IN CHILDREN (110642)

Jeffrey J. Walline, OD, PhD, FAAO, Lisa Jones-Jordan, PhD, FAAO, Ohio State University, Katie L. Greiner, OD, MS, Ohio State University, Mary McVey, OD, MS, Private Practitioner

3:15 PM. MYOPIA CONTROL WITH ORTHOKERATOLOGY CONTACT LENSES IN SPAIN (MCOS): VISION-RELATED QUALITY OF LIFE BENEFITS BETWEEN ORTHOKERATOLOGY VS. SPECTACLES (110918)

Jacinto Santodomingo-Rubido, OD(EC), PhD, MCOptom, FAAO

3:30 PM. CLINICAL PERFORMANCE OF SILVER SALT-INFUSED SILICONE HYDROGEL CONTACT LENSES OVER SIX MONTHS OF DAILY WEAR (110432)

Carol Lakkis, PhD, FAAO, FBCLA, FACO, Clinical Vision Research Australia, Frank Anastasopoulos, MSc, Clinical Vision Research Australia, Jared Slater, BOptom, Clinical Vision Research Australia, Brian Pall, OD, MS, FAAO, Johnson & Johnson Vision Care

3:45 PM. **ONE YEAR FOLLOW-UP OF DAILY DISPOSABLE SILICONE HYDROGEL LENS WEAR VS. SPECTACLE WEAR IN NEOPHYTES (110943)**

Jason J. Nichols, OD, MPH, PhD, FAAO, Diplomate, Cornea, Contact Lenses, Kathrine E. Osborn, FAAO, Johnson & Johnson Vision Care, Terri Henderson, MS, Johnson & Johnson Vision Care, Jeffrey J. Walline, OD, PhD, FAAO, Ohio State University

4:00 PM. **DEMOGRAPHIC FACTORS AFFECT OCULAR COMFORT DURING CONTACT LENS WEAR (110748)**

Percy Lazon de la Jara, PhD, Brien Holden Vision Institute, Rachael Peterson, PhD, FAAO, Brien Holden Vision Institute, Thomas Naduvilath, PhD, Brien Holden Vision Institute, Eric Basil Papas, PhD, MCOptom, FAAO, Vision Co-operative Research Centre

4:15 PM. **ASSOCIATION BETWEEN ASYMMETRY AND VISION-RELATED QUALITY OF LIFE IN KERATONUS (110516)**

Lisa Jones-Jordan, PhD, FAAO, Jeffrey J. Walline, OD, PhD, FAAO, Ohio State University, Loraine T. Sinnott Ohio State University, Steven M Kymes, PhD, Washington University Medical School Dept. of Ophthalmology & Visual Sciences, Karla Zadnik, OD, PhD, FAAO, Ohio State University

4:30 PM. **DEMONSTRATING CONTENT VALIDITY OF CLUE: CONTACT LENS USER EXPERIENCE (110128)**

Terri Henderson, MS, RJ Wirth, PhD Michael Henderson, MS, Johnson & Johnson Vision Care, Colleen M. Riley, OD, MS, FAAO, Johnson & Johnson Vision Care

4:45 PM. **IMPACT OF QUESTIONNAIRE LENGTH ON QUALITY OF RESPONSES (110139)**

Michael Henderson, MS, RJ Wirth, PhD, Terri Henderson, MS, Johnson & Johnson Vision Care, Kathy Lorenz, Johnson & Johnson Vision Care

3:00 PM 1.25 hours Room 207
P-07 Papers: Optics & Refraction #1
Moderators: XXX

3:00 PM. **CLINICAL SAFETY PERFORMANCE OF OPTI-K LASER PROCEDURE FOR HYPEROPIA AND PRESBYOPIA (110307)**

Sherry Audycki, OD

3:15 PM. **DIFFERENCES IN REGIONAL CORNEAL PARAMETERS BETWEEN EMMETROPE AND MYOPIC ASTIGMAT (110626)**

Tsz Wing Leung, Bsc (Hons) in Optometry, Andrew Kwok-cheung Lam, PDOptom, MPhil, PhD, FAAO, Chea-su Kee, PhD

3:30 PM. **MYOPIA CONTROL WITH ORTHOKERATOLOGY CONTACT LENSES IN SPAIN (MCOS): REFRACTIVE AND BIOMETRIC CHANGES (110916)**

Jacinto Santodomingo-Rubido, OD(EC), MSc, PhD, MCOptom, FBCLA, FAAO, Menicon Co., Ltd., Cesar Villa Collar, OD(EC), MSc, PhD, FAAO, Clinica Oftalmològica Novovision, Bernard Gilmartin, PhD, FAAO, Aston University, Ramon Gutierrez-Ortega, MD, PhD, Clinica Oftalmològica Novovision

3:45 PM. **QUALITY OF LIFE IN WEST POINT CADETS SEEKING REFRACTIVE SURGERY (110011)**

Susan J. Gromacki, OD, MS, FAAO, Edward Trudo, MD, Chris Eastburg, MS, Kathy Yusuf, Marianne Aurigemma, COA, ABOC, Keller Community Hospital

4:00 PM. **WAVEFRONT-GUIDED CUSTOMIZED SCLERAL LENS TO CORRECT HIGHER ORDER ABERRATIONS IN KERATOCONUS (110155)**

Geunyoung Yoon, University of Rochester Eye Institute, Lynette K. Johns, OD, FAAO, Boston Foundation for Sight, Olga Tomashevskaya, Boston Foundation for Sight, Chris Ducharme, Boston Foundation for Sight, Ramkumar Sabesan, University of Rochester Eye Institute, Hong-Gam Le, Boston Foundation for Sight, Deborah Jacobs, MD, Boston Foundation for Sight, Perry Rosenthal, MD, Boston Foundation for Sight

Thursday, October 13

10:00 AM hours Room 311
P-08 Papers: Contact Lenses
 Moderators: XXX

10:00 AM. **INCIDENCE OF CORNEAL INFILTRATIVE EVENTS WITH A NEW CONTACT LENS SOLUTION (110251)**

Daniel Tilia, BOptom (Hons), MOptom, Percy Lazon de la Jara, PhD, Varghese Thomas, BSc, Mark Duncan Perry Willcox, BSc(hons), PhD, Brien A. Holden, BAppSc, PhD, DSc, OAM, FAAO, Brien Holden Vision Institute

10:15 AM. **CHARACTERIZING CORNEAL INFILTRATES FROM A 2010 CASE CONTROL STUDY OF SOFT CONTACT LENS WEARERS (110796)**

Robin L. Chalmers, OD, FAAO, Lisa Keay, BOptom, PhD, Jami R. Kern, PhD, Meredith E. Jansen, OD, MS, Dawn Y. Lam, OD, FAAO, Beth T. Kinoshita, OD, FAAO, Heidi Wagner, OD, MPH, FAAO, Luigina Sorbara, OD, MSc, FAAO, Diplomate, Cornea & Contact Lenses, Mark A. Bullimore, MCOptom, PhD, FAAO, Joseph P. Shovlin, OD, FAAO, Loretta B. Szczotka-Flynn, OD, PhD, FAAO

10:30 AM. **A SURVEY TO INVESTIGATE LAPSED CONTACT LENS WEARERS IN CANADA (110416)**

Kathryn A. Dumbleton, MSc, MCOptom, FAAO, Craig A. Woods, PhD, MCOptom, FAAO, Lyndon W. Jones, PhD FCOptom FAAO, Desmond Fonn, OD, DipOptom, MOptom, FAAO, Centre for Contact Lens Research - University of Waterloo

10:45 AM. IMPACT OF CONTACT LENS CASE HYGIENE GUIDELINES ON CONTACT LENS CASE CONTAMINATION (110479)

Yvonne Wu, BOptom, Yuu Juan Teng, BOptom, Mary Nicholas, BOptom, Najat Harmis, BSc, Hua Zhu, PhD, Mark Duncan Perry Willcox, BSc(hons), PhD, Fiona Stapleton, BSc, MSc, MCOptom, PhD, FAAO

11:00 AM. COMPARISON OF PATIENT COMPLIANCE WITH REPLACEMENT INTERVALS BETWEEN 2-WEEK AND 1-MONTH SOFT LENS WEARERS IN AN URBAN ACADEMIC CLINIC ENVIRONMENT (110281)

Daniel G. Fuller, OD, FAAO, Charles G. Connor, PhD, OD, FAAO, Southern College of Optometry

11:15 AM. PATIENT AGE AND COMPLIANCE WITH CONTACT LENS HYGIENE LENS CASE REPLACEMENT AND HYGIENE (110425)

Sheila B. Hickson-Curran, BSc (Hons), MCOptom, FAAO, Robin L. Chalmers, OD, FAAO, Indiana University

11:30 AM. COMPARING CONTACT LENS COMPLIANCE AND COMPLICATIONS IN A UNIVERSITY CLINIC WITH PRIVATE OPTOMETRY OFFICES (110257)

Kathryn A. Dumbleton, MSc, MCOptom, FAAO, Craig A. Woods, PhD, MCOptom, FAAO, Lyndon W. Jones, PhD, FCOptom, FAAO, Desmond Fonn, OD, DipOptom, MOptom, FAAO, Centre for Contact Lens Research - University of Waterloo

11:45 AM. PATIENT COMPLIANCE: IS AN ELECTRONIC REMINDER SYSTEM EFFECTIVE WHEN IT COMES TO REPLACING CONTACT LENSES AS DIRECTED? (110315)

Janelle Routhier, OD, FAAO, Royce Carvalho, MBA, Elizabeth Kreul-Starr, JD, MBA, Johnson & Johnson Vision Care

1:30 PM 1 hour Room 210
P-09 Papers: Low Vision
 Moderators: XXX

1:30 PM. RETINAL FIXATION LOCUS IN PATIENTS WITH BILATERAL CENTRAL SCOTOMAS FOR TARGETS EXPECTED TO PERCEPTUALLY FILL-IN (110760)

Joshua D. Pratt, BS, Joy Ohara, Harold E. Bedell, PhD, FAAO, Stanley Woo, OD, MS, FAAO, University of Houston

1:45 PM. EFFECTIVENESS OF READING ADDITIONS FOR CHILDREN AND YOUNG ADULTS WITH LOW VISION (110521)

Balsam Alabdulkader, Bsc, MSc, Susan J. Leat, PhD, FAAO, FCOptom, University of Waterloo

2:00 PM. EFFECT OF STRABISMUS ON DETECTION IN THE RING SCOTOMA OF A MONOCULAR BIOPTIC TELESCOPE (110603)

Amy L. Doherty, Alex R. Bowers, PhD, FAAO, MCOptom, PremNandhini Satgunam, BS(Opt), MS, PhD, Gang Luo, Schepens Eye Research Institute, Eli Peli, MSc, OD, FAAO, Schepens Eye Research Institute

2:15 PM. PREDICTING DRIVING PERFORMANCE OF OLDER PEOPLE ATTENDING A CLINICAL DRIVING ASSESSMENT PROGRAM (110999)

Alex R. Bowers, PhD, FAAO, MCOptom, Schepens Eye Research Institute, R. Julius Anastasio, MA, Schepens Eye Research Institute, Margaret O'Connor, MD, Beth Israel Deaconess Medical Center, Ann Hollis, OTR/L, Beth Israel Deaconess Medical Center, Todd Horowitz, PhD, Brigham Womens Hospital

3:30 PM 2 hours Room 309

P-10 Papers: Retinal Imaging and Glaucoma

Moderators: XXX

3:30 PM. UNDIAGNOSED AND OVER DIAGNOSED GLAUCOMA IN THE UNITED STATES (110545)

Mark W. Swanson, OD, MSPH, FAAO

3:45 PM. MEDICATION USAGE FOR GLAUCOMA IN THE UNITED STATES (110156)

Mark W. Swanson, OD, MSPH, FAAO

4:00 PM. PATIENTS' KNOWLEDGE ABOUT GLAUCOMA AND THEIR UTILISATION OF EYE CARE (110127)

Fiona Stapleton, BSc, MSc, MCOptom, PhD, FAAO, Ulrike Stahl, PhD, Blanka Golebiowski, PhD, BOptom, University of New South Wales

4:15 PM. COMBINING CENTRAL CORNEAL THICKNESS AND CORNEAL HYSTERESIS TO DIFFERENTIATE PRIMARY OPEN-ANGLE GLAUCOMA FROM OCULAR HYPERTENSION (110678)

Melynda Torres, OD, Denise Pensyl, OD, MS, FAAO, Michael Sullivan-Mee, OD, FAAO, Diplomate, Glaucoma, Kathy D. Halverson, OD, FAAO

4:30 PM. EFFECT OF TOPICAL ANESTHESIA ON PARAMETERS OBTAINED USING THE OCULAR RESPONSE ANALYZER (110964)

Leigha Davis, Southern College of Optometry, Freddy Chang, OD, PhD, Southern College of Optometry, Pinakin Gunvant, OD, PhD, FAAO, Western University of Health Sciences - College of Optometry

4:45 PM. **CLINICAL EVALUATION OF MULTI-PARAMETER CORRECTION EQUATIONS FOR GOLDMANN APPLANATION TONOMETRY (110813)**

Pinakin Gunvant, OD, PhD, FAAO, Western University of Health Sciences - College of Optometry, Ahmed Elsheikh, PhD, University of Liverpool, David Garway-Heath, MD, Moorfields Eye Hospital

5:00 PM. **EVALUATION OF INTRAOCULAR PRESSURE ESTIMATES OBTAINED USING ICARE TONOMETER (110851)**

Pinakin Gunvant, OD, PhD, FAAO, Western University of Health Sciences - College of Optometry, Meredith Cohler, OD, Private Practitioner, Erin Hocking, OD, Private Practitioner

5:15 PM. **PERIPAPILLARY VASCULAR CHANGES IN THE NON HUMAN PRIMATE GLAUCOMA MODEL USING SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY (110481)**

Nimesh Patel, OD, FAAO, Ronald S. Harwerth, OD, PhD, FAAO, University of Houston

3:30 PM 1.5 hours Room 208
P-11 Papers: Optics & Refraction #2
Moderators: XXX

3:30 PM. **TOWARDS A STANDARD FOR SPECIFYING PERIPHERAL OCULAR ABERRATIONS (110390)**

David A. Atchison, MScOptom, PhD, DSc, FAAO, Queensland University of Technology, Ankit Mathur, PhD, Queensland University of Technology, Dion Scott, PhD, Queensland University of Technology, W. Neil Charman, DSc, University of Manchester, Andreas Hartwig, BSc, University of Manchester

3:45 PM. **USE OF 4 DIFFERENT GROWTH CURVES TO DESCRIBE MYOPIA PROGRESSION IN INDIVIDUAL CHILDREN (110691)**

Li Deng, PhD, Jane Gwiazda, PhD, FAAO, Frank Thorn, OD, PHD, FAAO, New England College of Optometry

4:00 PM. **CONTROLLING LENS INDUCED MYOPIA IN CHICKENS WITH PERIPHERAL LENS DESIGN (110421)**

Sarah E. Guthrie, PhD, Centre for Contact Lens Research - University of Waterloo, Jill Woods, BSc(Hons) MCOptom, Centre for Contact Lens Research - University of Waterloo, Nancy J. Keir, BSc(Hons), OD, PhD, FAAO, Centre for Contact Lens Research - University of Waterloo, Sally M. Dillehay, OD, EdD, FAAO, Visioneering Technologies Inc., Mark Tyson, BS Mech. Eng., MBA, Visioneering Technologies Inc., Richard A. Griffin, OD, Visioneering Technologies Inc., Desmond Fonn, OD, DipOptom, MOptom, FAAO, Centre for Contact Lens Research - University of Waterloo, Lyndon W. Jones, PhD, FCOptom, FAAO, Centre for Contact Lens Research University of Waterloo, Elizabeth L. Irving, OD, PhD, University of Waterloo

4:15 PM. **CHANGES IN OCULAR SHAPE AND PERIPHERAL REFRACTIVE ERRORS IN INFANT MONKEYS DURING RECOVERY FROM EXPERIMENTALLY INDUCED MYOPIA (110470)**

Juan Huang, Li-Fang Hung, OD, PhD, Earl Smith III, OD, PhD, University of Houston

4:30 PM. **MYOPIA ONSET PREDICTION IN SCHOOLCHILDREN (110959)**

Karla Zadnik, OD, PhD, FAAO, Loraine T. Sinnott, Donald O. Mutti, OD, PhD, FAAO, Ohio State University

4:45 PM. **IMPOSED PERIPHERAL HYPEROPIC DEFOCUS ON THE MARMOSET RETINA AFFECTS EYE GROWTH AND REFRACTIVE STATE (110987)**

Alexandra Benavente-Perez, OD(EC), MS, PhD, Ann Nour, BA, David Troilo, PhD, FAAO, State University of New York College of Optometry

Friday, October 14

10:00 AM hours Room 312
P-12 Papers: Ocular Disease
 Moderators: XXX

10:00 AM. **NEW INSIGHTS INTO MORPHOLOGIC CHARACTERISTICS OF DIFFERENT TYPES OF DRUSEN AS REVEALED BY SD-OCT (110889)**

Elena Zaharova, OD, MS

10:15 AM. **THE EFFECT OF EXCESS LIGHT ON THE ACCUMULATION OF LIPOFUSCIN IN YOUNG ADULTS (110623)**

John R. Hayes, PhD, David K Glabe, BS, Pacific University

10:30 AM. **COMPARATIVE ANALYSIS OF PATHOLOGY ASSOCIATED WITH AGE-RELATED MACULAR DEGENERATION USING POLARIZATION SENSITIVE IMAGING (110681)**

Dean A. VanNasdale, OD, FAAO, Ann E. Elsner, PhD, FAAO, Todd David Peabody, OD, FAAO, Victor E. Malinovsky, OD, FAAO, Kimberly D. Kohne, OD, FAAO, Christopher Clark, BS OD, Indiana University

10:45 AM. **RETINAL STRUCTURE AND FUNCTION ASSOCIATIONS IN PATIENTS WITH DIABETIC MACULAR EDEMA (110569)**

Wendy W. Harrison, OD, PhD, FAAO, Midwestern University Arizona College of Optometry, Marcus Bearse, PhD, University of California Berkeley, Kavita Prashant Dhamdhare, MD, BAMS, PhD, University of California Berkeley, Shirin Barez, MD, University of California Berkeley, Marilyn Schneck, PhD, University of California Berkeley, Anthony J. Adams, OD, PhD, FAAO, University of California Berkeley

11:00 AM. ASSOCIATION OF CONE PHOTORECEPTOR PACKING DENSITY AND PHOTORECEPTOR LAYER THICKNESS IN HEALTHY SUBJECTS (110116)

Toco Yuen Ping Chui, BSc, MSc, Indiana University, Hongxin Song, Ph.D, University of Rochester Eye Institute, Christopher Clark, OD, Indiana University, Joel Papay, Indiana University, Liang Zhao, Indiana University, Bryan P. Haggerty, Indiana University, Stephen A. Burns, FAAO, Indiana University, Ann E Elsner, PhD, FAAO, Indiana University

11:15 AM. TREATMENT OF ACUTE ONSET LEBER'S HEREDITARY OPTIC NEUROPATHY WITH THE NOVEL EXPERIMENTAL DRUG EPI-743 (110970)

Jerome Sherman, OD, FAAO, State University of New York College of Optometry, Alfredo Sadun, MD, PhD, University of Southern California

11:30 AM. INTRAVITREAL PROCRIT IN EYES WITH GEOGRAPHIC ATROPHY SECONDARY TO AGE-RELATED MACULAR DEGENERATION (110653)

Carolyn Majcher, OD, Pennsylvania College of Optometry at Salus University, Stephen Sinclair, MD, Private Practitioner, Weiye Li, MD, PhD, Peter Presti, Georgia Institute of Technology

11:45 AM. INITIAL EFFICACY OF ORAL CHROMOPHORE QLT091001 FOR LEBER CONGENITAL AMAUROSIS PATIENTS WITH LRAT OR RPE65 MUTATIONS (110920)

Mark A. Bullimore, MCOptom, PhD, FAAO, QLT Inc., Gislin Dagnelie, PhD FAAO, Johns Hopkins University - Wilmer Eye Institute, Ava K. Bittner, OD, FAAO, Johns Hopkins University - Wilmer Eye Institute, David Saperstein, MD, PhD, Robert Koenekoop, MD, PhD, McGill University - Ophthalmology

10:00 AM 2 hours Room 208
P-13 Papers: Contact Lenses
 Moderators: XXX

10:00 AM. EFFECT OF PHOSPHOLIPID DEPOSITS ON ADHESION OF BACTERIA TO CONTACT LENSES (110335)

Negar Babaei Omali, Nicholas Proschogo, PhD, University of New South Wales, Hua Zhu, PhD, Brien Holden Vision Institute, Zhao Zhenjun, PhD, Brien Holden Vision Institute, Jennie Diec, BOptom, Brien Holden Vision Institute, Roya Borazjani, PhD, Alcon Research Ltd, Mark Willcox, PhD, Brien Holden Vision Institute

10:15 AM. TEAR INFLAMMATORY MEDIATORS IN CONTACT LENS-RELATED DRY EYE (110657)

Padmapriya Ramamoorthy, BS Optom, MS, Jason J. Nichols, OD, MPH, PhD, FAAO, Diplomate, Cornea & Contact Lenses, Ohio State University

**10:30 AM. THE IMPACT OF LACTOFERRIN AND LIPIDS ON KINETIC
LYSOZYME DEPOSITION ON CONTACT LENSES (110771)**

Alan Ng, BSc, Lyndon W. Jones, PhD, FCOptom, FAAO, Miriam Heynen, MSc,
Centre for Contact Lens Research - University of Waterloo

**10:45 AM. EFFECTS OF MULTIPURPOSE DISINFECTING SOLUTION
COMPONENTS ON CORNEAL CELL CYTOKINE PRODUCTION (110459)**

Mark Duncan Perry Willcox, BSc(hons), PhD, University of New South Wales, Cole
Nerida, PhD, Brien Holden Vision Institute, Renxun Chen, BSc, University of New
South Wales, Linda Garthwaite, BSc, Brien Holden Vision Institute

**11:00 AM. DYNAMIC *IN VIVO* DEHYDRATION OF DAILY DISPOSABLE
CONTACT LENSES USING A GRAVIMETRIC METHOD (110214)**

Jose Manuel Gonzalez-Meijome, PhD, Private Practitioner

**11:15 AM. INCUBATION SOLUTION COMPOSITION IMPACTS IN VITRO
PROTEIN UPTAKE TO SILICONE HYDROGEL CONTACT LENSES (110546)**

Salsabeel Jadi, BSc, Miriam Heynen, MSc, Doerte Luensmann, PhD, Dipl Ing (Fh) AO,
Lyndon W. Jones, PhD, FCOptom, FAAO, Centre for Contact Lens Research -
University of Waterloo

**11:30 AM. MOLECULAR IMPRINTED SILICONE HYDROGEL
MATERIALS FOR CIPROFLOXACIN DRUG DELIVERY (110429)**

Alex Hui, OD, Centre for Contact Lens Research - University of Waterloo, Heather
Sheardown, PhD, McMaster University, Lyndon W. Jones, PhD, FCOptom, FAAO,
Centre for Contact Lens Research - University of Waterloo

**11:45 AM. FULL RANGE EVALUATION OF CONTACT LENS FITTING BY
NOVEL OPTICAL COHERENCE TOMOGRAPHY (110988)**

Jianhua Wang, MD, PhD, FAAO, Meixiao Shen, Bascom Palmer Eye Institute, Lele Cui,
School of Ophthalmology and Optometry - Wenzhou Medical College, Dexi Zhu, School
of Ophthalmology and Optometry - Wenzhou Medical College, Ming Li, School of
Ophthalmology and Optometry - Wenzhou Medical College, Lili Ge, School of
Ophthalmology and Optometry - Wenzhou Medical College, Michael Wang, University
of Miami

2:00 PM 1 hour Room 208
P-14 Papers: Optics & Refraction #3
 Moderators: XXX

**2:00 PM. CILIARY MUSCLE THICKNESS AND ACCOMMODATIVE LAG
IN ADULTS (110338)**

Mallory K. Kuchem, BS, Loraine T. Sinnott, Chiu-Yen Kao, PhD, Melissa D. Bailey,
OD, PhD, FAAO, Ohio State University

2:15 PM. **COMPARISON OF PROGRESSIVE ADDITION LENSES BY DIRECT MEASUREMENT OF SURFACE SHAPE (110840)**

Thomas W. Raasch, OD, PhD, FAAO, Ching-Yao Huang, Allen Yi Ohio, Mark A. Bullimore, MCOptom, PhD, FAAO, Ohio State University

2:30 PM. **COMPARISON OF THREE TECHNIQUES FOR MEASURING PROGRESSIVE ADDITION LENSES (110850)**

Mark A. Bullimore, MCOptom, PhD, FAAO, Ohio State University, Ching-Yao Huang, Ohio State University, Allen Yi, Ohio State University, James E. Sheedy, OD, PhD, FAAO, Pacific University, Andre Bret, Pacific University, Thomas W. Raasch, OD, PhD, FAAO, Ohio State University

2:45 PM. **CHANGES IN RETINAL CURVATURE ACROSS THE VERTICAL MERIDIAN IN MYOPES AND HYPEROPES USING SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY (110040)**

Christopher Clark, OD, Ann E. Elsner, PhD, FAAO, Yuen Ping Toco Chui, Dean A. VanNasdale, OD, FAAO, Indiana University

4:15 PM hours Room 208
P-15 Papers: Visual Function
 Moderators: XXX

4:15 PM. **BLUR ADAPTATION AND CONTRAST SENSITIVITY (110372)**

Fuensanta A. Vera-Diaz, OD, PhD, The New England College of Optometry, Sarah Kark Boston University School of Medicine, Russell L. Woods, BOptom, MCOptom, PhD, FAAO, Schepens Eye Research Institute, Eli Peli, MSc, OD, FAAO, Schepens Eye Research Institute

4:30 PM. **INTEGRATION ACROSS SPATIAL FREQUENCIES FOR FACE IDENTIFICATION (110693)**

Gregory Wingren, BA, Deyue Yu, PhD, Susana TL Chung, OD, PhD, FAAO, University of California Berkeley

4:45 PM. **CONE NUMEROSITY AND CONE CONTRAST SENSITIVITY (110854)**

Jeff C. Rabin, OD, MS, PhD, FAAO, John Gooch, MD, Steven Wright, OD, MS, USAF School of Aerospace Medicine

5:00 PM. **SIMULATED QUANTUM SAMPLING OF SLOAN OPTOTYPES (110923)**

Andrew D Carkeet, BAppSc(Optom), Shauna Tan, Vu Nguyen Queensland University of Technology, Elyse Seeto, Daniel Ko, Alexander Ng, Queensland University of Technology

5:15 PM. **LADDER CONTOURS ARE DETECTABLE IN THE VISUAL PERIPHERY (110005)**

Andrew M. Haun, PhD, Matthew Straight, Eli Peli, MSc, OD, FAAO, Schepens Eye Research Institute

5:30 PM. **A NEW PEDIATRIC CONTRAST SENSITIVITY TEST (110124)**

Angela Brown, PhD, FAAO, Delwin Lindsey, PhD, Kevin Guckes, Alyse Schwartz, Ohio State University

5:45 PM. **IMPROVING THE CONTRAST SENSITIVITY PERIMETRY (CSP) TEST (110588)**

Victor E. Malinovsky, OD, FAAO Brad M. Sutton, OD, FAAO Julie K. Torbit, OD, FAAO Mitchell W. Dul, OD, MS, FAAO William H. Swanson, PhD, FAAO Ivan Marin-Franch, PhD, Indiana University, Ivan Marin-Franch, PhD, Indiana University

Sunday, October 15

8:00 AM 2 hours Room 309
P-16 Papers: Dry Eye and MGD
Moderators: XXX

8:00 AM. **PREVALENCE OF COMPUTER VISION SYNDROME (CVS) AND DRY EYE IN OFFICE WORKERS (110500)**

Joan K. Portello, OD, MPH, MS, FAAO, Mark Rosenfield, OD, PhD, FAAO, Diplomate, Binocular Vision, Perception & Pediatric Optometry, Yuliya Bababekova, BS, State University of New York College of Optometry

8:15 AM. **WHAT DOES FLUORESCENCE QUENCHING REVEAL ABOUT TEAR BREAK-UP VERSUS SLOW THINNING OF THE TEAR FILM? (110688)**

Carolyn G. Begley, OD, MS, FAAO, Haixia Liu, PhD, Indiana University, Ziwei Wu, PhD, Indiana University, Trefford L Simpson, DipOptom, MSc, PhD, University of Waterloo

8:30 AM. **THE INFLUENCE OF DIVALENT CATIONS ON TEAR FILM STABILITY (110638)**

Xiaojia Eric Wei, Zhenjun Zhao, Mark Duncan Perry Willcox, BSc(hons), PhD, Brien Holden Vision Institute

8:45 AM. **EVALUATION OF INTEROBSERVER AGREEMENT IN MEIBOMIAN GLAND DYSFUNCTION ASSESSMENT (110501)**

Daniel R Powell, OD, Gregory Hopkins, OD, Lisa Jones-Jordan, PhD, FAAO, Ohio State University, Jason J. Nichols, OD, MPH, PhD, FAAO, Diplomate, Cornea & Contact Lenses, Kelly K. Nichols, OD, MPH, PhD, FAAO, Diplomate, Public Health, Ohio State University

9:00 AM. IMAGING MEIBOMIAN GLAND STRUCTURES USING THE OCULUS KERATOGRAPH (110775)

Sruthi Srinivasan, PhD, BS Optom, FAAO, Kara L. Menzies, BSc, Luigina Sorbara, OD, MSc, FAAO, Diplomate, Cornea & Contact Lenses, Lyndon W. Jones, PhD, FCOptom, FAAO, Centre for Contact Lens Research - University of Waterloo

9:15 AM. AN EXPLANATION FOR REFRACTORY DRY EYE SYMPTOMS DESPITE SIGNIFICANT IMPROVEMENT IN DRY EYE SIGNS POST-TREATMENT FOR MEIBOMIAN GLAND DYSFUNCTION (MGD) (110010)

Pedram Hamrah, MD, Massachusetts Eye and Ear Infirmary, Yureeda Qazi, MD, Massachusetts Eye and Ear Infirmary, Caroline Blackie, OD, PhD, FAAO, TearScience, Donald R. Korb, OD, FAAO, Korb Associates

9:30 AM. EFFICACY EVALUATION OF SYSTANE[®] ULTRA LUBRICANT EYE DROPS IN POSTMENOPAUSAL WOMEN WITH DRY EYE (110069)

Jillian F. Meadows, BS, Lisa Jones-Jordan, PhD, FAAO, Mirunalni Thangavelu, MS, Kelly K. Nichols, OD, MPH, PhD, FAAO, Diplomate, Public Health, Ohio State University

9:45 AM. INFLUENCE OF EYE POSITION ON THE SCHIRMER TEAR TEST (110217)

Etty Bitton, OD, MSc, FAAO, Marie-Pier Landreville, Marie-Claude Forget, Universite de Montreal L'Ecole d'optometrie

10:00 AM 1.5 hours Room 210

P-17 Papers: Contact Lenses
Moderators: XXX

10:00 AM. HYDROGEN PEROXYDE AS A BETTER ALTERNATIVE CARE REGIMENT FOR RGP AND RIGID CONTACT LENSES (110380)

Dan D. Samaha, BSc, OD, Guillaume Lafleur, OD, Langis Michaud, OD, FAAO, Diplomate, Cornea and Contact Lenses, Universite de Montreal L'Ecole d'optometrie

10:15 AM. EFFECT OF DK/T ON CORNEAL HYSTERESIS AFTER 30 NIGHTS OF OVERNIGHT ORTHOKERATOLOGY (110607)

Thao N. Yeh, OD, Harry M. Green, OD, PhD, Britney Kitamata-Wong, Shiyin Wang, BA, Yixiu Zhou, PhD, Meng C. Lin, OD, PhD, FAAO, Clinical Research Center UC Berkeley School of Optometry

10:30 AM. THE EFFECT OF MASKING ON SUBJECTIVE RESULTS WITH DAILY DISPOSABLE CONTACT LENSES (110290)

Nancy J. Keir, BSc(Hons), OD, PhD, FAAO, Doris Richter, OD, MASc, Centre for Contact Lens Research - University of Waterloo, Doerte Luensmann, PhD, Dipl Ing (Fh) AO, Centre for Contact Lens Research - University of Waterloo, Megan Despres, OD, Centre for Contact Lens Research - University of Waterloo, Craig A. Woods, PhD,

MCOptom, FAAO, Centre for Contact Lens Research - University of Waterloo, Peter D. Bergenske, OD, FAAO, CIBA VISION Corporation, Mary S. Fahmy, OD, CIBA VISION Corporation, Desmond Fonn, OD, DipOptom, MOptom, FAAO, Centre for Contact Lens Research - University of Waterloo

10:45 AM. **THE USE OF SYNERGEYES CLEARKONE HYBRID CONTACT LENSES IN KERATOCONUS AND ECTASIA PATIENTS (110412)**

Angela Shin, Clark Yung Hsian Chang, OD, MS, FAAO, Kristen Fry, OD, MS, FAAO, Peter Hersh

11:00 AM. **CONTRAST SENSITIVITY FUNCTION WITH DIFFERENT PUPIL SIZE ILLUMINANCE AND GLARE IN ASSYMETRIC MULTIFOCAL SOFT LENS FITTING IN PRESBYOPIC PATIENTS (110993)**

Helena Neves, BOptom, Leticia Isla-Paradelo, BOptom, MSc, University of Minho, Lopes-Ferreira Daniela, BOptom, University of Minho, Jorge Jorge, University of Minho, David Madrid-Costa, PhD, Universidad de Valencia, Jose Manuel Gonzalez-Meijome, PhD, University of Minho

11:15 AM. **HIGHER ORDER ABERRATIONS REDUCE VISUAL FUNCTION IN ECTATIC CORNEAS TREATED WITH A PROSTHETIC DEVICE (110164)**

Lynette K. Johns, OD, FAAO, Boston Foundation for Sight, Geunyoung Yoon, PhD, University of Rochester Eye Institute, Olga Tomashevskaya, Boston Foundation for Sight, Deborah Jacobs, MD, Boston Foundation for Sight, Hong-Gam Le, Boston Foundation for Sight, Perry Rosenthal, MD, Boston Foundation for Sight