Thursday, January 26

Welcome and Introductions
Michael H. Goldstein, MD, MM, Deborah S. Jacobs, MD, David W. Lamberts, MD, William T. Driebe, Jr., MD

1:00 – 1:05 pm

CLAO EDMs and Symposium Moderators
Donald J. Doughman, MD, William T. Driebe, Jr., MD

1:05 – 1:35 pm

• The Corneal Response to Contact Lens Induced Hypoxia

3:05 – 3:25 pm

Posters and Break

3:25 – 4:20 pm

SOLBEC Symposium: Special Contact Lenses Fittings in Brazil
Moderators: Bruce H. Koehler, MD, Cesar Lipener, MD, Ubirajara M. Marques, MD

• Experience with Scleral Contact Lens Fitting
  Tania Schaafner, MD

• Particularities of the Piggy-Back System
  Paulo Ricardo de Oliveira, MD

• Keratoconus: Ten Years of Experience and Management
  Charlene C. May, MD

• Special Situations in CL Fitting: What Can I Do Now?
  Marcelo Sobrinho, MD

4:20 – 5:15 pm

Risk Management (in conjunction with OMIC)
Moderator: Michael H. Goldstein, MD, MMM

• Lessons learned from Malpractice Claims
  Anne M. Wang, RN, PhD and Andrew P. Dran, MD

5:30 – 7:30 pm

Joint Reception With OSLS (Paris Hotel Rivoli Ballroom B&C)

Friday, January 27

Microbial Keratitis: Epidemiology, Diagnosis and Treatment
Moderators: Deepinder K. Dhialv, MD, LA, Bennis H. Jung, MD, Tania Schaafner, MD

• Epidemiology of Corneal Ulcers

• An Update on the Epidemiology of Contact Lens-Related Microbial Keratopathy
  Charlotte Jasin, OD, PhD

• Treatment of Contact Lens Associated Keratitis
  Deepinder K. Dhialv, MD, LA

• Comparison of Cefuroxime/Spectinomycin to Cefazolin and Tobramycin
  Regis P. Kowalski, MD, MS, MAACP

• Report on the Stenoks and Corneal Ulcers Trial
  Stephen McLeod, MD

• Update on Point of Care Testing for Adenovirus
  Shachar Tauber, MD

9:30 – 10:25 am

JCLS Symposium
Moderators: Bruce H. Koehler, MD, David S. Chu, MD

• Introduction and JCLS in Yokohama 2012
  Nobuhisa Maeda, MD

• Long-term Effect of OrthoK Therapy on Axial Length Elongation in Childhood Myopia: A Seven-year Follow-up Study in Japan
  Takahiro Hiraoka, MD

• The Opposite Contact Lens Topology
  Kiyoshi Watanabe, MD

• Dry Eye and Contact Lens...
  Takashi Hamano, MD

10:25 – 10:45 am

Posters and Break

10:45 am – 12:05 pm

Free Papers
Moderators: Warren R. Fagadau, MD, S. Lance Forstot, MD, FACS

• Soft Contact Lens Associated Keratitis, Observations from Clinical Practice
  Edward J. Meier, MD

• Betaine Surface Modification of Silicone Hydrogel Contact Lenses to Increase Wettability
  Gary N. Foulks, MD, FACS

• Risk Factors for Contact Lens Related Microbial Keratitis in 2011
  Arnaud Sauer, MD

12:00 – 1:00 pm

Lunch

1:00 – 2:00 pm

Spotlight on Keratoconus/Oliver H. Dabezies, Jr., MD, Lecture
Moderators: Joseph B. Coliene, MD, Michael H. Goldstein, MD, MMM

• Lessons from CLER
  Joseph T. Barr, OD, MM, FAAO

• Update on Hybrid Lenses...
  Dianne Anderson, OD, FAAO

Oliver H. Dabezies, Jr., MD, Lecture
Introduction: Michael H. Goldstein, MD, MMM

Honorary Moderator: Harold A. Stein, MD

UV Crosslinking – Corrected Evidence-Based Review
Penny A. Askell, MD, FACS, ACOR

Scleral Lenses: Update, Innovations, and Unanswered Questions
Moderators: Muriel M. Schorhagen, OD, FAAO, Sabrina Nihan, MD, FACS

• Scleral Lenses: What We Know... Muriel M. Schorhagen, OD, FAAO

• Use of Anterior Segment OCT for Scleral Lens Assessment
  Amy N. Nsiao, OD, FAAO

• Wavefrontguided Correction of Keratoconus
  Guenyong Yoon, PhD

2:55 – 3:15 pm

Posters and Break

Caesars Palace Hotel, Las Vegas, NV

January 26 - 28, 2012

Program Agenda

CLAO / CLAO ERF Symposium and Congress

Friday, January 27

Innovations in Fitting / Innovations in Therapeutics
Moderators: Sami G. El Hage, OD, PhD, DSc, Deborah S. Jacobs, MD

• The Contribution of Corneal Topography in Fitting Contact Lenses
  Norman Latch, OD, MS, MAAO

• Evolution of Corneal Topography: Aberrometry and Their Application in Contact Lens Fitting
  Sam G. El Hage, OD, PhD, DSc

• Contact Lens Drug Delivery.. Joseph B. Coliene, MD, FACS

• Protecting the Exposed Ocular Surface
  Jeffrey R. Harri, MD, OD, MBA, MAAO

4:10 – 5:05 pm

Update on Ocular Surface Disease
Moderator: Gary N. Foulks, MD, FACS

• The Value of In-office Tear Osmolarity Testing...
  Gary N. Foulks, MD, FACS

• International Workshop on Meibomian Gland Dysfunction
  Fanny A. Ashbel, MD, FACS, MBA

• Innovative Treatment of Meibomian Gland Dysfunction...
  Alan N. Carlsson, MD

• Improving the Diagnosis, Management, and Treatment of Inflammatory Dry Eye...
  Shachar Tauber, MD

5:05 – 7:00 pm

Reception

Saturday, January 28

Contact Lens Solutions: Recent Advances
Moderators: Bruce H. Koehler, MD, Warren R. Fagadau, MD

• Controversies in Balancing Bio-compatibility and Disinfection Efficacy...
  Gary N. Foulks, OD, MS, MAAO

• Polyhexamethylene biguanide (PHMB) as an Effective Disinfectant for adenovirus...
  Eric Romanowski, MD

• Comfort Are We Making Any Progress?
  Ralph P. Stone, PhD

8:35 – 9:50 am

ECOS Symposium
Moderators: Florence Malet, MD, Jean-Pierre Chartrand, MD

• A New Clinical Entity...
  Rene Mary, MD

• Myopia and Contact Lenses: Where Are We?...
  Florence Malet, MD

• Risk Factors for Contact Lens Related Microbial Keratitis in 2011...
  Arnaud Sauer, MD

• Keratoconus Contact Lens Designs Update...
  Ayfer Kamarut, MD

9:50 – 11:05 am

Posters and Break

10:10 – 10:40 am

Contact Lens and Corneal Collagen Crosslinking
Moderators: Sami G. El Hage, OD, PhD, DSc, Joseph B. Coliene, MD, FACS

• Assessment of Silicone Hydrogel Mini-Scleral Contact Lenses After CXL for Keratoconus...
  Sara Werner, Senior, M, WY

• Corneal Collagen Crosslinking Combined with Okerotherapy: Experience in Europe...
  Sam G. El Hage, OD, PhD, DSc

10:40 – 12:15 pm

Presbyopia for Primary Care Providers
Moderators: Samer Yasser, MD, DSc, Peter C. Donshik, MD, Warren R. Fagadau, MD

• Optical Principles of presbyopic-correcting Ophthalmic Lenses...
  Guenyong Yoon, PhD

• Continuing in Contacts: Multifocal Soft Lenses for Presbyopia...
  Harald A. Stein, MD, Lecture

• Innovative Options for Presbyopic Specialty Lens Fitting...
  Dianne M. Anderson, OD, FAAO

12:15 – 1:15 pm

Lunch

Afternoon Joint Session with Sports Vision

Athletes: Symposium and Refractive Surgery
Moderator: David Kirschens, OD, PhD, Daniel Laby, MD

• The Case for Refractive Surgery...
  Michael H. Goldstein, MD, MMM

• The Case Against Refractive Surgery...
  Daniel Laby, MD, MBA, FAOA

• Panel Discussion – Ethics of Refractive Surgery in Elite Athletes...
  David Kirschens, OD, PhD, Michael H. Goldstein, MD, MMM

2:10 – 2:40 pm

Perspectives on Performance
Moderators: Guenyong Yoon, PhD and Deborah S. Jacobs, MD

• Enhancing Vision Performance, the Army’s Perspective...
  Jeffery C. McLane, MD, OD, MBA, FAAO

• Adaptive Optic Vision Simulator and Supernormal Vision...
  Guenyong Yoon, PhD

2:40 – 3:35 pm

Symposium on Ethics
Moderator: Michael H. Goldstein, MM

• Case Discussion on Ethics in Ophthalmology...
  Roberto Pineda II, MD

3:35 – 3:55 pm

Posters and Break

3:55 pm – 4:55 pm

Sports Vision Symposium
Moderator: Daniel Laby, MD

• Automated Psychophysical Test for the Detection of Conclusions in Football Players...
  Ronald Tatoos, MD

• Incident Findings in Professional Baseball...
  David Kirschens, OD, PhD, Daniel Laby, MD

4:55 – 5:00 pm

Closing Remarks

Moderator: Michael H. Goldstein, MD, MMM, Deborah S. Jacobs, MD, David W. Lamberts, MD, William T. Driebe, Jr., MD

5:00 – 7:00 pm

Sports Vision Welcome Reception
Free Papers

Moderators: Warren R. Fagadau, MD, S. Lance Forset, FACS
Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: None

Objectives: At the completion of this course, the attendee will be able to:
1) Explain the long-term effects of contact lens keratitis.
2) Explain the limitations of current treatment regimens.
3) Recognize cases of contact lens induced hypoxia.
4) Explain the role of contact lens hygiene in the prevention of contact lens keratitis.

Description: This symposium will present an overview of the pathophysiology of contact lens keratitis and the latest advances in its management.

Contact Lens Solutions: Recent Advances

Moderators: Bruce H. Koffler, MD, Warren R. Fagadau, MD
Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: The participant should be familiar with the chemistry of contact lens care solutions.

Objectives: At the completion of this course participant should be able to:
1) Define the balance between biocompatibility and disinfection efficacy.
2) Discuss the effectiveness of PMAHs as a disinfectant for adenoviruses.
3) Summarize improvements in solution formulation.

Description: This symposium will review the effectiveness of certain types of contact lens systems as biocompatible versus disinfection solution efficacy.

ECCSO Symposium

Moderators: Florence Maht, MD, Jean-Pierre Chartrand, MD
Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: The participant should be familiar with theories on myopic and basic contact lens fitting.

Objectives: At the completion of this course participant should be able to:
1) Define risk factors for D2 related keratitis.
2) Discuss contact lens effects on myopia.
3) Compare new designs for CLs used to treat keratoconus.

Description: The European Contact Lens Society (ECCSO) was invited to put on this special international Symposium. Well-known ophthalmologists from Europe will present on recent approaches to risk in their practices.

Contact Lens and Corneal Collagen Crosslinking

Moderators: Sam G. El Hage, OD, PhD, DSc, Joseph B. Ciolino, MD, FACS
Technical Level: I
Audience: All Eye Care Professionals
Prerequisites: The participant should be familiar with contact lenses for the treatment of keratoconus.

Objectives: At the completion of this course participant should be able to:
1) Assess vision findings in professional baseball.
2) Assess vision findings in professional basketball.

Description: This symposium will consider how vision enhance is able to impact performance of the athlete.

Symposium on Ethics

Moderator: Michael H. Goldstein, MD, MM, Technological Level: II
Audience: All Eye Care Professionals
Prerequisites: None

Objectives: At the completion of this course, the attendee will be able to:
1) Identify ethics considerations in the eye care practice.
2) Discuss bioethics in the context of patient care.
3) Recognize and discuss the ethical implications of new vision correction technologies.

Description: This symposium will review some ethics cases and provide for a participant question and answer session.

Sports Vision Symposium

Moderators: Stephen D. McLeod, MD, FACS
Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: None

Objectives: At the completion of this course, the attendee will be able to:
1) Identify ethics considerations in the eye care practice.
2) Assess vision findings in professional baseball.
3) Assess vision findings in professional basketball.

Description: This symposium will discuss the pros and cons of refractive surgery for athletes and provide for a participant question and answer session.

Sports Vision Training Program

Moderators: Jeffery Johnson, MD, FAAO, MBA - "UV Crosslinking – Current Evidence Based Review"

Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: None

Objectives: At the completion of this course participant should be able to:
1) Assess vision findings in professional baseball.
2) Assess vision findings in professional basketball.
3) Assess vision findings in professional hockey.

Description: This symposium will cover new developments in the area of contact lens care and corneal collagen crosslinking.

Progress for Presbyopia/Harald A. Stein, MD, Lecture

Moderators: S. Lance Forset, FACS, Peter C. Donahue, MD, Warren R. Fagadau, MD
Technical Level: II
Audience: All Eye Care Professionals
Prerequisites: None

Objectives: At the completion of this course participant should be able to:
1) Describe the optical principles of presbyopia correction.
2) Discuss options for specialty lens fits in presbyopic correction.
3) Explore the use of alternative intraocular lenses.

Description: This symposium will review the ever-expanding contact lens and intraocular lens market for the treatment of presbyopia. This symposium also includes a named lectureship.

CLAO / CLAO ERF Symposium and Congress

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The 2012 CLAO/CLAO ERF program is supported in part by educational grants from the following companies: Abbott Medical Optics, Inc., Bausch and Lomb, Inc., Vistakon®, Division of Johnson & Johnson Vision Care, Inc. (“JJVCI”) with funds provided by JJVCI.

Technical Level: Level I - No technical background required - Level II - Some technical background required - Level III - Significant technical background required
David S. Chu, MD - Dr. Chu received his MD from New York Medical College at Valhalla and his Ophthalmology residency from the University of Washington. He is a Diplomate of the American Board of Ophthalmology and the American Board of Ophthalmology and was awarded the Francis L. Fisher Achievement Award by the American Society of Pediatric Ophthalmology and Strabismus. Dr. Chu served as the Chairman of the Department of Ophthalmology at the University of Connecticut School of Medicine from 1993 to 2009 and is currently the Director of the nonsurgical services at the Connecticut Eye Institute.

Jeoffry M. Cleland, MD, MS, MD, MBA, FAAD - Dr. Cleland is originally from Washington State and began his academic life at Central Washington University where he received his Bachelor of Science in Biology in 1988. He then continued his education at Pacific University College of Optometry where he received his Doctor of Optometry degree in 1993. Dr. Cleland completed a residency in Ophthalmology at the University of Washington in 1993.

Despinder K. Dhaliwal, MD, LAc - Dr. Dhaliwal is an Associate Professor of Ophthalmology at the University of Washington, School of Medicine. She is the Director of the Refractive Surgery Service, Director of the Laser Vision/Aesthetic Surgery International (LVASI) Program, and Director of the Vision Surgery Fellowship. She directs the Laser Vision/Aesthetic Surgery International (LVASI) Program and is co-Director of the Cornea Service and Cornea Fellowship. She directs the LASIK program at the University of Washington and is currently the Director of the Integrative Eye Care, which is currently the role of osteopathic medicine in treating ophthalmic eye diseases.

Penny A. Asbell, MD, FACS, MBA - Dr. Asbell is currently Professor of Ophthalmology at Mount Sinai School of Medicine and Director of the Cornea Service. She has extensive interest in research and laboratory work, especially in corneal surgery, ocular surface disease, and infectious keratitis and has published over 200 peer-reviewed articles and has lectured worldwide. She is currently honored by the American Academy of Ophthalmology with the Life Achievement Honor Award.

Paulo Ricardo de Oliveira, MD - President of the International Medical Retina Centers, President and Director of the Clinica Retina in Sao Paulo, Brazil. He is a recipient of numerous national and international awards, including the 2010 Dr. Christian Barna Award for Excellence in Retinal Disease care.

Desmond Fonn - Desmond Fonn is a senior scientist at the National Eye Institute, National Institutes of Health, and is the Director of a national research program in Ocular Immunology. He is also the Team Ophthalmologist for the New York City Marathon. He is a graduate of the University of California, Santa Barbara with a Bachelor of Science in Chemistry and a Master of Science in Microbiology.

Stefanie Hennigfeld, MA - Dr. Hennigfeld is currently a research assistant at the National Eye Institute, National Institutes of Health, and is a member of the Ocular Immunology and Inflammation Branch of the National Eye Institute. She is a recipient of the 2010 Dr. Christian Barna Award for Excellence in Retinal Disease care.

J. Angelo Green, PhD - Dr. Green received his B.S., with honors in biology, from the University of Washington, Seattle, Washington, in 1987. He earned his M.S. in Microbiology and Immunology from the University of California, San Francisco, in 1991, and his Ph.D. in molecular biology from the University of California, San Francisco, in 1995. After completing two years of postdoctoral fellowship at the National Cancer Institute, he joined the Food and Drug Administration (FDA) in 2009 as an FDA Commissioner’s Fellow. Dr. Green is currently an assistant professor in the Department of Ophthalmology and Visual Science at the University of Rochester.

Bennie H. Jang, MD - Dr. Jang is currently an Associate Professor of Ophthalmology and Co-Chair of the Cornea Service at the University of California, San Francisco. He is also the Chief of the Department of Ophthalmology at the San Francisco General Hospital, and he is the Director of the Francis L. Fisher Foundation. He is a fellow of the American Academy of Ophthalmology.

Lynette Johns, MD, FAAD - Dr. Lynette Johns has been the senior ophthalmology resident at the University of California for 10 years. She is currently the Chief of the Department of Ophthalmology at the University of California, San Francisco. She is a fellow of the American Academy of Ophthalmology.

Takohiro Hirasaka, MD - Dr. Hirasaka is an Assistant Professor in the Department of Ophthalmology, Institute of Clinical Medicine, University of Tsukuba, in Japan. He is currently a visiting professor at the University of Tokyo School of Medicine in 1993 and completed postgraduate training in 1999. In 2003, he assumed the present post as a professor in the Department of Ophthalmology, Institute of Clinical Medicine, University of Tsukuba.

J. Angelo Green, PhD - Dr. Green received his B.S., with honors in biology, from the University of Washington, Seattle, Washington, in 1987. He earned his M.S. in Microbiology and Immunology from the University of California, San Francisco, in 1991, and his Ph.D. in molecular biology from the University of California, San Francisco, in 1995. After completing two years of postdoctoral fellowship at the National Cancer Institute, he joined the Food and Drug Administration (FDA) in 2009 as an FDA Commissioner’s Fellow. Dr. Green is currently an assistant professor in the Department of Ophthalmology and Visual Science at the University of Rochester.

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Lynette Johns, MD, FAAD - Dr. Lynette Johns has been the senior ophthalmology resident at the University of California for 10 years. She is currently the Chief of the Department of Ophthalmology at the University of California, San Francisco. She is a fellow of the American Academy of Ophthalmology.
Regis P. Kawakatsu, MS, MJASCOP - University of Pittsburgh, Pittsburgh, PA. Associate Professor of Optometry, Associate Director, Charles T. Campbell Ophthalmic Microbiology Laboratory. Clinical Ophthalmic Microbiologists for the Mayo Clinic (SOCCEM) - Active member of AAVC, OWSG, ISOPD, CLAO, and EVER. Numerous peer-reviewed abstracts and is a member of international societies in clinical ophthalmic microbiology and anti-infective drug discovery.

Daniel Laby, MD - Dr. Laby is trained in Ophthalmology and specializes in Pediatric Ophthalmology and Strabismus. Dr. Laby attended the George Washington University School of Medicine receiving his medical degree in 1997. He completed his residency in Ophthalmology at the University of Rochester in 1997 and is a fellow of the American Society of Ophthalmology. He currently practices at the Rochester Eye Institute of the University of Southern California, Keck School of Medicine.

Mohinder M. Merchea, OD, PhD, MBA, FAAO, FBCLA - Professor of Ophthalmology – Catholic University of Campinas, São Paulo State, Brazil; Head of the Brazilian Contact Lens and Cornea Society (SOBLEC) and is currently Finance Director of the Brazilian Contact Lens, Cornea and Ocular Surface Society (SBSOEBC). He is also a current member of the Scientific Board of the British Contact Lens Association and the submission of a manuscript to the Journal of Ocular and Vitreoretinal Research.

Nobuhisa Mizuki, MD - Dr. Mizuki is the professor and chairman of the Departamento de Oftalmologia at the Federal University of Espirito Santo in Vitoria, Brazil. He is also an investigator of the Escola de Medicina da Universidade Federal de Minas Gerais with an interest in contact lens-related ocular surface disorders, inflammation and infections.

Luiz Antonio de Souza, MD - Dr. de Souza is a clinician and researcher at the Instituto Nacional de Câncer in Brazil. He is also a current member of the Sociedade Brasileira de Medicina do Olho (SBMO) and the Brazilian Ophthalmological Society (SBOEBC). Dr. de Souza's research interests are focused on corneal diseases and contact lens-related disorders.

Janet C. Sigal, PhD - Dr. Sigal is a Professor in the Department of Ophthalmology at the University of California, San Francisco. She is also a current member of the Ocular Surface Society and the American Academy of Ophthalmology. Dr. Sigal has conducted several studies on the role of角膜基质的代谢在泪液和角膜基质的生理功能中。
Recent studies show that orthokeratology lens wear can have a positive effect on reducing axial length growth. The purpose of this study was to evaluate the axial length changes in two patients who had worn orthokeratology lenses for a significant period of time. The methods involved measuring the axial length at baseline and every 6 months using A-scan ultrasonography. The results showed a significant reduction in axial length growth in both patients, with a mean decrease of 0.12 mm per year. These findings suggest that orthokeratology lens wear may have a role in the management of myopia.

**Conclusion:** The use of orthokeratology lenses in myopic patients can lead to significant reductions in axial length growth, making them a potential option for managing myopia progression.

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**References:**


OBJECTIVES OF THE SYMPOSIUM AND CONGRESS

The primary objective of the CLAO / CLAO ERF Symposium and Congress is to provide a forum where the latest clinical and basic research in the field of contact lenses and anterior segment ocular science may be presented.

To this end, the scope of the CLAO / CLAO ERF Symposium and Congress includes symposia on innovations on contact lens, dealing with the anterior segment of the eye.

Information on Continuing Education Credits will be available with the final program.

Meeting Attire: Business Casual

STATEMENT CONCERNING ANTICOMPETITIVE CONDUCT

The purpose of this meeting is to discuss and act on matters related to the science of contact lenses and not to discuss or pursue the business interests of any individual or any other company or business entity. Each person in attendance at this meeting should be aware of and must proceed with caution and alertness towards the requirements and prohibitions of federal and state antitrust laws. No one should engage in discussions, either at this meeting or in private conversations, of the business plans or contemplated activities of our individual medical entities or the plans and activities of any other company or business entity. We should concern ourselves only with the science of contact lenses as set forth in the agenda for this meeting.

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