



2022 National Conference

*October 1-3, 2022
Chicago, IL*

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AACO National Meeting 2022 Schedule

*Times listed in CST

Saturday, October 1, 2022

INSTRUCTION COURSES

Embassy Suites Magnificent Mile Salon D,E,F,G

8:00 AM - 9:45 AM **Instruction Courses I**

Moderator: Anthony Yamarino CO[®], COA

8:00 AM **Complex Strabismus**

David Hunter MD, PhD, Sarah Mackinnon MSc, CO[®], OC(C), COMT, Sarah Whitecross MSc, CO[®], OC(C), Kaila Bishop MSc CO[®], OC(C), Kristyn Magwire CO[®], Samantha Pape, CO[®]

9:00 AM **A Little Snip to Ditch the Glasses?**

Greg Ostrow, MD

9:30 AM **Discussion**

9:45 AM Break

10:00 AM - 12:00 PM **Instruction Courses II**

Moderator: Bevin Bithell CO[®]

10:00 AM **A Browns out of the Blue**

Veronica Picard CO[®], Lauren Pendarvis CO[®]

10:45 AM **Cloak and Dagger – the Great Masquerader**

Amanda Lieb CO[®], COT, Veronica Picard CO[®], Christopher Catalano COA

11:30 AM **Ocular Motor Apraxia**

Gabby Waldusky CO[®], Julie May COA, Orthoptic Student Children's Wisconsin, Alexander Khammar MD

12:00 PM – 1:15 PM Lunch Break

1:15 PM – 3:15 PM **Instruction Courses III**

Moderator: Sarah Whitecross CO[®], OC(C), MSc

1:15 PM **The Agonies of Orthoptics: An Audience with Aunt Mya Stenia**

Sally Murray CO[®], Jorie Jackson CO[®], Charlotte Anne Houston CO[®], Judy Petrunak Higgins CO[®], Tara Bragg CO[®]

2:00 PM **Life and Vision Threatening Diseases Presenting with Double Vision**

Collin McClelland MD, Vivek Patel MD, Courtney E Francis MD

3:00 PM **Discussion**

3:15 PM Break

3:30 PM – 5:00 PM **Instruction Courses IV**

Moderator: Megan Furlong CO[®], MHA

3:30 PM **President's Symposium on Diversity, Equity, and Inclusion:**

"The Importance of Collecting Demographic Data in a Professional Organization Incorporating Diversity, Equity, and Inclusion Standards."

Chantel Devould-Henderson CO[®], COA, Tara Bragg CO[®], Megan Evans CO[®]

4:00 PM **Synoptophore – YES YOU CAN!!**

Lindsay Klaehn CO[®], OC(C), COT, Andrea Kramer CO[®], Tia Bod CO[®], COT

4:45 PM **Discussion**

5:00 PM Adjourn

Sunday, October 2, 2022
SCIENTIFIC SESSIONS
Embassy Suites Magnificent Mile Salon D,E,F,G

8:00 AM - 9:00 AM Professional Development with FOREA: Developing or Advancing your Career as an Orthoptist

Kyle Arnoldi CO[®], Rachael Jenkins CO[®], Amanda Yonkers CO[®], Sally Murray CO[®], Anthony Yamarino CO[®], Philip Villanueva CO[®], Alex Christoff CO[®], Kim Merrill CO[®]

9:00 AM - 10:00 AM Student Symposium

Moderator: Anna Schweigert CO[®]

9:00 AM **Fusional Stability of Patients in Bifocals Vs. Single Vision Lenses for High AC/A Accommodative Esotropia**

Aleah Bolinger, Orthoptic Student, University of Iowa

9:15 AM **The Challenges of Determining the Differential Diagnosis in a Patient with an Unusual Presentation of Vertical Strabismus**

Brooke Hollar BSc, Orthoptic Student, Vanderbilt University

9:30 AM **The Effect of Performing Dark Adaptometry During ISCEV Standard Full Field Electroretinography**

Kalpiti Patel COT, OSA, Orthoptic Student, University of Iowa

9:45 AM **Night Blindness - What Does That Mean?**

Ashley Johnson COA, Orthoptic Student, University of Iowa

10:00 AM **Discussion**

10:15 AM – 12:15 PM AACO National Annual Business Meeting

3:45 PM – 5:00 PM AAO/AOC[®]/AACO Sunday Symposium. McCormick Convention Center Room [E450](#)

“Managing Pediatric Cataract Patients - The Whole Story”

Symposium Chairs: Alex Christoff CO[®] and Alejandra G de Alba Campomanes MD

Welcome / Background: Alejandra G de Alba Campomanes MD

Introductions: Alex Christoff CO[®]

Indication for Systemic and Genetic Work Up

Elias Traboulsi MD

Surgical Indications and Timing: When to Operate

Deborah Vanderveen MD

The Role of IOL, Artisan, and Sutured Lenses

Erick Bothun, MD

Aphakic Contact Lenses in Children – Techniques and Challenges in Compliance

Ronald Biernacki CO[®], COMT

Amblyopia Treatment and Binocularity Outcomes

Wanda Ottar Pfeiffer CO[®]

Strabismus Associations

Marla Shainberg CO[®]

Glaucoma Complications

Raymond G Areaux Jr MD

Access to Care, Treatment Compliance

Alejandra G de Alba Campomanes MD

Wrap Up / Discussion: Alejandra G de Alba Campomanes, MD

7:30 PM - 11:00 PM AACO President’s Reception (Embassy Suites Magnificent Mile Chicago Ballroom)

Monday, October 3, 2022
SCIENTIFIC SESSIONS
Embassy Suites Magnificent Mile Salon D,E,F,G

- 8:00 AM – 10:00 AM** **AAP Section on Ophthalmology/AACO Joint Symposium: "Eye care in the United States in 2022: Orthoptists and Pediatric Ophthalmologists as Collaborators in the Care of Immigrants and Refugees"**
Moderator: Jennifer Lambert CO®
- 8:00 AM **Pediatric conditions, diseases, and health issues seen in the immigrant and refugee community, as well as discussion on advocacy and current legislative issues related to pediatric care in immigrant and refugee children.**
Yessenia Castro MD
- 8:30 AM **Forms of ocular disease, ocular trauma, and other conditions found in the immigrant and refugee community.**
Natalie Weil MD
- 9:00 AM **Tips/tricks/examples of how to examine and best approach new immigrant children and their families as it related to an eye exam**
Kimberly Merrill CO®
- 9:15 AM **Case reports of various eye conditions in which both the patient’s health and immigrant/refugee status were important in diagnosis**
Anna Schweigert CO®
- 9:30 AM Panel Q&A and Discussion
- 10:00 AM – 10:15 AM Break
- 10:15 AM - 11:45 AM** **Scientific Session II – New Technologies and Applications**
Moderator: Leslie France CO®
- 10:15 AM **The Effect of Abnormal Posture on Binocular Control in Adults with Neurodegenerative or Skeletal Abnormalities**
Gill Roper-Hall DBOT CO®
- 10:30 AM **What Can We Do to Assist Children with Craniofacial Abnormalities to Improve their Spectacle Wear?**
Alejandra de Alba Campomanes MD
- 10:45 AM **New Technology Accurately Monitors Patching in Amblyopia**
Omondi Nyong’o MD
- 11:00 AM **Application of Lean/Six Sigma in Pediatric Ophthalmology**
Jonathan Russell CO®
- 11:15 AM **Rectus Muscle Advancement for the Treatment of Ocular Misalignment following Scleral Buckle**
Mitchell Strominger MD
- 11:30 AM **Discussion**
- 11:45 AM – 1:00 PM** Lunch Break

Monday, October 3, 2022 (cont.)
SCIENTIFIC SESSIONS
Embassy Suites Magnificent Mile Salon D,E,F,G

1:00 PM – 2:15 PM Scobee Memorial Lecture and Award Presentations

1:00 PM **Introduction:** Judy Petrunak Higgins CO®

1:15 PM **Scobee Memorial Lecture: “Thyroid Eye Disease: An insight into the future and a look at the past: An Orthoptist’s Perspective**
Rachael Jenkins CO®

2:00 PM **Awards:** Judy Petrunak Higgins CO®

2:15 PM **Honor Certificate Presentation**

2:30 PM - 3:30 PM Scientific Session III: Strabismus Management
Moderator: Dusty Gronemyer CO®

2:30 PM **Strabismus in Congenital and Acquired Hydrocephalus**
Anna Schweigert CO®

2:45 PM **The Effect of Refractive Amblyopia on the Frisby Stereotest**
Kaajal Nanda CO®

3:00 PM **What? Me Botox? Yes You Can!**
Douglas Fredrick MD

3:15 PM **Discussion**

3:30 PM - 3:45 PM Break

3:45 PM - 5:15 PM Scientific Session VI: Research Studies
Moderator: Samantha Pape CO®

3:45 PM **Acquired Strabismus in Patients with Childhood Strabismus**
Kim Merrill CO®, Anna Schweigert CO®

4:00 PM **Select Cases in Tertiary Eye Movements**
Michael Struck MD

4:15 PM **Getting to the Point: An Orthoptist's Guide to Non-surgical Strabismus Management**
Sally Murray CO®

4:30 PM **Oculopalatal Myoclonus: Evaluation and Clinical Management**
Megan Evans CO®

4:45 PM **Discussion**

5:00 PM Adjourn

Target Audience

Orthoptists, orthoptic students, ophthalmic technicians with experience in pediatric or neuro-ophthalmology, pediatric and neuro-ophthalmologists, residents, and fellows.

Course Level

Intermediate to advanced.

Overall Program Objectives

Educational Objectives: at the conclusion of the National Meeting, participants will be able to:

- Describe recent medical advances in the diagnosis, treatment, and management of conditions encountered while practicing orthoptics within the pediatric ophthalmology and adult strabismus community.
- Apply improved techniques, use methods to compare and contrast current practices, and critically review empirical clinical research in order to provide the best possible treatment options for patients with strabismus and disorders of ocular motility and binocular vision.
- Demonstrate methods of analysis and ethical treatment of patients.
- Practice orthoptics with a new-found expertise based upon new methods discussed and demonstrated.

Specific Program Objectives

To review current therapies and new advances in diagnosis and management of diseases in each area of orthoptics, pediatric ophthalmology, and strabismus with particular emphasis on the following topics:

- Pediatric and Adult strabismus
- Amblyopia
- Analyzing medical literature
- Topics in Neuro-ophthalmology
- Diplopia
- Clinical Education in Orthoptics
- Strabismus Surgery



**ATTENTION ALL AACO MEMBERS:
Our future needs YOU!**

**Sunday, October 2, 2022, 10:15am – 12:15pm
CENTRAL STANDARD TIME**

AACO NATIONAL BUSINESS MEETING

**Join us on Sunday October 2, 2022 at 10:15 AM in Salon D,E,F,G for our
annual AACO Business Meeting**



President's Reception

Sunday, October 2, 2022, 7:30pm-11:00pm
CENTRAL STANDARD TIME



Embassy Suites Downtown Magnificent Mile

Presenting Sponsor



Instruction Course Abstracts

Saturday, October 1, 2022

8:00 AM - 5:00 PM

Complex Strabismus

8:00 - 9:00 AM

David Hunter MD PhD, Sarah MacKinnon MSc CO→ OC(C) COMT, Sarah Whitecross MSc CO→ OC(C), Kaila Bishop MSc CO→ OC(C), Kristyn Magwire CO→, Samantha Pape CO→

This case-based workshop will present and discuss complex vertical strabismus cases of varying etiology. Focus will be on initial diagnosis, clinical course as well as surgical and non-surgical management. Cases will be presented to pediatric ophthalmologist, Dr. David Hunter, to allow for an expert opinion on diagnosis and management.

A Little Snip to Ditch the Glasses?

9:00 - 9:30 AM

Greg Ostrow MD

The lecture will present cases of patients who have been treated with small amounts of prism for small angle strabismus. There will be an interactive discussion along with case presentations and surgical options for treatment of small angle strabismus.

A Browns out of the Blue

10:00 - 10:45 AM

Veronica Picard CO→, Lauren Pendarvis CO→

Brown Syndrome is an ocular motility disorder with the hallmark finding of limitation of elevation in Adduction with acquired cases occurring much less frequently. Three examples of pediatric patients with acquired Brown syndrome will be presented, supported by a literature review, defining clinical characteristics, MRI findings, associated etiologies and potential treatment options.

Cloak and Dagger - The Great Masquerader

10:45 - 11:30 AM

Amanda Lieb CO→ COT, Veronica Picard CO→, Christopher Catalano COA

Myasthenia is a chronic autoimmune, neuromuscular disease that causes weakness in muscles that worsens after periods of activity and improves after periods of rest. This condition is well known in the ophthalmology community, particularly the strabismus, neuro ophthalmology and oculoplastics departments and manages to find its way onto every list of differential diagnoses. We will discuss two cases of atypical presentations, with laboratory findings, videos, relevant clinical characteristics and treatment options.

Ocular Motor Apraxia

11:30 - 12:00 PM

Gabby Waldusky CO→, Julie May COA, Orthoptic Student Children's Wisconsin, Alexander Khammar MD

Ocular motor apraxia is an uncommon, supranuclear disorder of ocular motility that is sometimes associated with strabismus. Associations include bilateral lesions of the frontoparietal cortex, agenesis of the corpus

callosum, hydrocephalus and Joubert syndrome. Ocular motor apraxia is associated with the inability to generate normal voluntary horizontal saccades. The inability to change horizontal fixation leads to head thrusts that overshoot the target followed by a rotation of the head back in the opposite direction once fixation is established. The head thrust may improve in late childhood. An appropriate clinical evaluation is recommended for these children.

The Agonies of Orthoptics: An Audience with Aunt Mya Sthenia

1:15 - 2:00 PM

Sally Murray CO→, Jorie Jackson CO→, Charlotte Anne Houston CO→, Tara Bragg CO→, Judy Petrunak Higgins CO→

A panel discussion to answer questions submitted anonymously by AACO members 30 days prior to this meeting. Aunt Mya will present as many questions as possible to the panel - starting with those most frequently asked. No question shall be shied away from, and audience participation will be greatly encouraged. The aim is to include a diverse range of orthoptists on the panel with differing backgrounds and experience to ensure as wide a range of expertise as possible.

Life and Vision Threatening Diseases Presenting with Double Vision

2:00 - 3:00 PM

Collin McClelland MD, Vivek Patel MD, Courtney E Francis MD

Diplopia may be the presenting feature of life and vision threatening disease. Orthoptists are often on the front lines in the evaluation of double vision and must remain cognizant of these diagnoses. Utilizing a case-based approach, we will highlight real-world clinical pearls that will facilitate early diagnosis of the most dangerous disorders presenting with diplopia.

President's Symposium on Diversity, Equity and Inclusion: "The Importance of Collecting Demographic Data in a Professional Organization Incorporating Diversity, Equity, and Inclusion Standards"

3:30 - 4:00 PM

Chantel Devould-Henderson CO→ COA, Tara Bragg CO→, Megan Evans CO→

The American Association of Certified Orthoptists (AACO) is the American professional member association of certified orthoptists. The organization was established in 1940. Since the inception of the association, no documented data exists of the demographic composition of the members. This panel discussion will present initial demographic data collected and surveilled by the AACO ad hoc committee on Diversity, Equity, and Inclusion. and its significance. Secondly, it will introduce the mission of this new committee and its significance.

Synoptophore – YES YOU CAN!!

4:00 - 4:45 PM

Lindsay Klaehn CO→ OC(C) COT, Andrea Kramer CO→, Tia Bodi CO→ COT

Through the presentation of cases, we will demonstrate how the synoptophore can be used to identify fusion status, fusion potential and specific barriers to fusion along with other tips and pearls. Presented cases will illustrate when, why and how to use simultaneous perception slides, motor fusion slides, and torsion slides, as well as how to apply findings to patient management.

Scientific Session I

Sunday, October 2, 2022

8:00 AM - 10:15 AM

Professional Development with FOREA: Developing or Advancing your Career as an Orthoptist

8:00 - 9:00 AM

Kyle Arnoldi CO→, Rachael Jenkins CO→, Amanda Yonkers CO→, Sally Murray CO→, Anthony Yamarino CO→, Philip Villanueva CO→, Alex Christoff CO→, Kim Merrill CO→

Please join us at this free, informal event where AACO members can learn how to advance their careers into areas such as Leadership, Volunteerism, Advocacy for Advancement of Orthoptics, and Negotiating with Employers. Each topic will be discussed round table style and chaired by an orthoptist knowledgeable and experienced in that area. Attendees will rotate from table to table during the 60-minute event to make the most of their time. There will be prizes!

Fusional Stability of Patients in Bifocals Vs. Single Vision Lenses for High AC/A Accommodative Esotropia

9:00 - 9:15 AM

Aleah Bolinger

Orthoptic Student University of Iowa

There is controversy as to whether patients with high AC/A accommodative esotropia should be treated with bifocals or single vision lenses (SVL). Recently, some of our pediatric ophthalmologists have chosen not to prescribe bifocals due to studies questioning their fusional benefit.

The Challenges of Determining the Differential Diagnosis in a Patient with an Unusual Presentation of Vertical Strabismus

9:15 - 9:30 AM

Brooke Hollar BSc

Orthoptic Student Vanderbilt University

Adult vertical strabismus has a variety of differential diagnoses, including fourth nerve palsy, thyroid eye disease, skew deviation, and myasthenia gravis (MG). An unusual presentation of vertical diplopia due to a right hypotropia in a 53-year-old African American male will be discussed. In this case report we will review the unusual progression of this patient's vertical strabismus over the course of two years. We will examine this patient's ocular history, sensorimotor examinations, neuroimaging studies, and treatment(s) utilized to resolve his diplopia. We will discuss, in detail, what is known about the epidemiology and etiology of vertical strabismus.

The Effect of Performing Dark Adaptometry During ISCEV Standard Full Field Electroretinography

9:30 - 9:45 AM

Kalpit Patel COT, OSA

Orthoptic Student University of Iowa

Electroretinograms (ERG's) are diagnostic tests that record and measure the electrical activity of the retina including the photoreceptors (rods and cones), inner retinal cells (bipolar and amacrine cells) and the ganglion cells., we can measure the functionality of the rods and cones with the full field ERG (ffERG) and, when

combined with Dark Adaptometry (DA), we can measure the rate of recovery and adaptation of the rods and cones. Though it is suggested that DA can be done during the (ffERG, there was no documentation of the effect that combining these procedures has on the results of either test. The purpose of this research project was to determine if performing DA during the 20-minute dark adaptation period in the ffERG would influence the results of either the DA or the ffERG.

Night Blindness - What Does That Mean?

9:45 - 10:00 AM

Ashley Johnson COA

Orthoptic Student University of Iowa

There are many types of inherited retinal disorders (IRD) with each affecting photoreceptors differently, and affecting a child's ability to see in the dark. The term "night blindness" is a broad term that generalizes the wide spectrum of decreased vision problems in the dark that some distinct IRDs may have. The severity of night blindness within certain IRDs has been falsely overestimated or misunderstood. This study aims to demonstrate the actual severity of night blindness in some of the more common IRDs so that we can help families to better understand their daily functional needs. The purpose of this study is to measure the light levels of common daily functional activities and compare these findings to the results of the dark adaptation test in patients with several types of IRDs.

AAO/AOC®/AACO Sunday Symposium: “Managing Pediatric Cataract Patients - The Whole Story”

McCormick Place Convention Center Room [E450](#)

Symposium Chairs: Alex Christoff CO® and Alejandra G de Alba Campomanes MD

Time: 3:45 PM– 5:00 PM CST

Abstract: Pediatric cataract surgery has evolved dramatically over the past 20 years, with remaining controversies and challenges surrounding timing of surgery, use of intraocular implants, adherence with amblyopia and visual rehabilitation treatment, and difficult-to-treat complications such as glaucoma and strabismus. Despite the controversy, there remain fundamentals of management that are sometimes overlooked. This symposium will discuss the management of the pediatric cataract patient from a holistic perspective. Topics will include the identification of associated systemic conditions, management of partial cataracts, indication and timing of surgical intervention, etc. Additionally, postoperative management of amblyopia, refractive error, strabismus, and other eye movement disorders will be reviewed.

Welcome / Background

Program Co-Chair: Alejandra G de Alba Campomanes MD, San Francisco, CA

Introductions

Program Co-Chair: Alex Christoff CO®, Baltimore, MD

Indication for Systemic and Genetic Work Up

Elias Traboulsi MD, Cleveland, OH

Surgical Indications and Timing: When to Operate

Deborah Vanderveen MD, Boston, MA

The Role of IOL, Artisan, and Sutured Lenses

Erick Bothun MD Rochester, MN

Aphakic Contact Lenses in Children – Techniques and Challenges in Compliance

Ronald Biernacki CO®, Nashville, TN

Amblyopia Treatment and Binocularity Outcomes

Wanda Pfeiffer CO®, Iowa City, IA

Strabismus Associations

Marla Shainberg CO®, Memphis, TN

Glaucoma Complications

Raymond G Areaux Jr MD, Minneapolis, MN

Access to Care, Treatment Compliance

Alejandra G de Alba Campomanes MD, San Francisco, CA

Wrap-Up/ Q&A

Program Co-Chair: Alejandra G de Alba Campomanes MD, San Francisco, CA

AAP/AACO Symposium
Monday, October 3, 2022
8:00 AM - 10:00AM



American Association
of Certified Orthoptists

AAP Section on Ophthalmology/AACO Joint Symposium: "Eye care in the United States in 2022: Orthoptists and Pediatric Ophthalmologists as Collaborators in the Care of Immigrants and Refugees"

8:00 AM - 10:00 AM

Yessenia Castro MD, Natalie Weil MD, Kimberly Merrill CO→, Anna Schweigert CO→

According to the American Academy of Pediatrics, *"Children of immigrants are the fastest growing population of children in the United States and have contributed to the entire growth in the nation's child population over the past decade. Immigrant families are racially and ethnically diverse and immigrate for a variety of reasons that may include seeking economic opportunity, reuniting with family, fleeing war or violence. Pediatricians can play a special role in supporting the health and well-being of immigrant children in the United States. By recognizing the unique challenges and strengths that many immigrants experience; pediatricians can identify effective practice strategies and relevant resources that support health within the community."* As integral members of the pediatric care team, orthoptists and pediatric ophthalmologists also contribute valuable support and care to this special population, as they present with distinctive conditions and pathology related to their specific backgrounds and histories.

Pediatric conditions, diseases, and health issues seen in the immigrant and refugee community, as well as discussion on advocacy and current legislative issues related to pediatric care in immigrant and refugee children" - Yessenia Castro, MD

Forms of ocular disease, ocular trauma, and other conditions found in the immigrant and refugee community" - Natalie Weil, MD

Tips/tricks/examples of how to examine and best approach new immigrant children and their families as it relates to an eye exam" - Kimberly Merrill CO→

Case reports of various eye conditions in which both the patient's health and immigrant/refugee status were important in the diagnosis" - Anna Schweigert CO→

Scientific Session II
Monday, October 3, 2022
10:15 - 11:45 AM

The Effect of Abnormal Posture on Binocular Control in Adults with Neurodegenerative or Skeletal Abnormalities

10:15 - 10:30 AM

Gill Roper-Hall, DBOT, CO→

Adults with diplopia seen in a neuro-ophthalmology practice may have other comorbidities that interfere with standard management of strabismus. These include abnormal posture in Parkinson disease; nuchal rigidity in Progressive Supranuclear Palsy; weakness in cervical musculature from demyelinating disease, myasthenia gravis or stroke; kyphosis from osteoporosis; scoliosis; and restricted head mobility following cervical injuries or surgical fusion. An ocular deviation may be manifested or exacerbated in the default gaze position caused by the habitual posture. These deformities pose clinical testing challenges, especially when a chin or head rest is required. Marked spinal curvature or limited neck flexion may interfere with intubation or obtaining a supine operating position. Patients with abnormal posture combined with strabismus may require modifications in standard surgical or spectacle management to utilize the gaze direction with the least deviation and allow comfortable fusion.

What Can We Do to Assist Children with Craniofacial Abnormalities to Improve their Spectacle Wear?

10:30 - 10:45 AM

Alejandra deAlba Campomanes, MD, MPH

Adequate refractive correction and compliance with glasses is a key issue in pediatric ophthalmology clinical practice and essential in the management of amblyopia. The outcome of many complex interventions and invasive surgical treatments is often limited by difficulties with adherence to refractive correction and amblyopia treatment. Children with craniofacial syndromes and other anatomical abnormalities often need to wear glasses. Strabismus and amblyopia are common in this patient population but due to different anatomical abnormalities, properly-fitting glasses are not commonly accessible. Pediatric eye care providers can leverage existing technology to create custom-fit, patient-tailored glasses that can be manufactured using commercially available 3D printers. CT/MRI 3D reconstructions of the face and skull to provide excellent visualization of the anatomical landmarks needed for computer-assisted design of frames but these studies are not always available. To overcome this, we developed an in-office surface scanning application using a smartphone infrared camera to create a 3D model with sufficient resolution for 3D-designing and subsequent 3D-printing of custom eyewear. We have successfully fit glasses for children with a range of abnormalities including microtia, Apert syndrome, hypertelorism and periorbital tumors. Cases of patients that were previously unable to wear spectacle correction due to non-standard anatomy will be presented to illustrate our current workflow and outcomes. By leveraging available, easy-to-use technology we have improved our ability to customize spectacles for patients and increase their compliance with glasses which should improve amblyopia outcomes.

New Technology Accurately Monitors Patching in Amblyopia

10:45 - 11:00 AM

Omondi Nyong'o, MD

We have evaluated the acceptability of a novel occlusion dose monitor (ODM) for glasses wearers with amblyopia. The novel ODM consists of a patch worn over the glasses, a logger affixed to the frames, and a system that processes the logged data for interpretation by an algorithm. In this pilot study, pediatric amblyopes (ages 2–8) were recruited for a cosmesis test of a sham logger for a 1-week period. Patients were then recruited to test a functional ODM for a 2-week period and their parents were asked to document patch wear in a diary. Feedback was solicited using a modified Pediatric Eye Disease Investigator Group (PEDIG) Amblyopia Treatment Index (ATI). Five children tested the sham logger, and eight children tested the functional ODM. Early feedback recommended aesthetic modifications including the use of colored shrink wrap to affix the logger to the frames. The modified patch did not reduce patients' willingness to wear the patch as compared to a standard patch. ODM-recorded wear correlated with diary-recorded wear. The specific timestamps for wear were identical for patients with good ODM-diary concordance. The novel ODM is acceptable for parents and children and correlates with diary records of patch wear.

Application of Lean/Six Sigma in Pediatric Ophthalmology

11:00 - 11:15 AM

Jonathan Russell CO →, MBA

A basic introduction to Lean/Six Sigma tools to better improve clinical efficiencies

Rectus Muscle Advancement for the Treatment of Ocular Misalignment following Scleral Buckle

11:15 - 11:30 AM

Mitchell Strominger MD

Reestablishment of ocular alignment following scleral buckle procedures is fraught with difficulty and limited literature. The primary etiology of the deviation is thought to be secondary to scarring of the extraocular muscles and restrictive in nature. We report our experience in the surgical management of these patients.

53rd Annual Richard G. Scobee, MD Memorial Lecture

Monday, October 2022

1:00 - 2:15 PM

Salon D,E,F,G



Scobee Lecturer: Rachael Jenkins, CO

Each year, the AACO honors the memory of Dr. Richard Scobee for his outstanding contributions to American orthoptics. This year marks the 53rd Richard G. Scobee Memorial Lecture delivered by the distinguished and accomplished orthoptist, Rachael Jenkins.

Rachael was born and raised in Birmingham, England. Her introduction to orthoptics began as a young girl diagnosed with anisometropic amblyopia and exotropia. The orthoptist who provided care to Rachael as a child was the same orthoptist who, several years later, allowed Rachael the opportunity to shadow her in an orthoptic clinic—her first mentor, Ms. Trimlett from Bromsgrove Hospital.

Rachael attended the Sheffield/Leeds School of Orthoptics at Royal Hallamshire Hospital in Yorkshire, England. She received her Diploma of British Orthoptics in 1986, worked for a short time as a novice orthoptist in the UK, and then set her sights to work abroad. In 1988, Dr. Gunter von Noorden offered Rachael an orthoptic position in Houston, TX and fortunately for all, she accepted. Dr. von Noorden and Rachael's senior colleague, Cindy Avilla, encouraged Rachael to certify in the US, join the AACO and contribute to the study of orthoptics and oculo-motility with Texas Children's Hospital-Baylor College of Medicine as her platform. Both professionally and scholastically, Rachael began her American career with full force.

After Dr. von Noorden's retirement in 1998, Rachael remained in Texas, taking positions with Dr. Melinda Rainey, with whom she fostered a close friendship, and later with Dr. Charlise Gunderson. In 2015, Rachael moved to the rolling mountains of Asheville, TN to work for Dr. Robert Wiggins, a former pediatric ophthalmology fellow of Baylor with whom she helped train decades ago.

Rachael is well recognized in the AACO both nationally and in the southern region for her numerous presentations, courses and publications. She is the primary author of five publications in the American Orthoptic Journal, and secondary author of several peer-reviewed ophthalmology journals including Ophthalmology, Journal of Pediatric Ophthalmology and Strabismus and the American Journal of Ophthalmology. She has contributed as an author in the AAO Basic and Clinical Science Course/Strabismus Section. Rachael is particularly intrigued by ocular torticollis, craniofacial syndromes, thyroid eye disease, and, as she says, “the lost art or orthoptic sensory testing.” Her publications, courses and presentations reflect these interests.

Each year the Scobee lecturer is rigorously chosen by committee for one’s outstanding scholastic contributions to orthoptics, ocular motility and pediatric eye disease. However, in addition to her scholastic contributions, Rachael has also generously given her talents to American orthoptic organizations. She has earned the AACO Honors Certificate and Lancaster Award; served on the AACO Board of Directors, American Orthoptic Council, AOJ Editorial Board, and FOREA Board of Directors. Rachael is the current president of FOREA and the recent president-elect of the AACO. Rachael has a passion for mentoring young orthoptists, improving the visibility of orthoptics in ophthalmology and educating physicians of the value of orthoptics.

On behalf of the Richard G. Scobee Memorial Committee and the AACO membership, it is my honor to announce the 53rd Richard G. Scobee Memorial Lecture entitled, “Thyroid Eye Disease; An insight into the future and a look at the past: An Orthoptists perspective” by Rachael Jenkins CO®.

Judy Petrunak Higgins CO→
Chair, AACO Richard G. Scobee Memorial Committee

2021 Richard G. Scobee Lecture Abstract

Monday, October 3, 2022

1:00 - 2:15 PM

**Thyroid Eye Disease; An insight into the future and a look at the past: An Orthoptists perspective
Rachael Jenkins CO→**

Thyroid Eye Disease is a debilitating orbital disease that can cause painful symptoms, disfigurement, diplopia and loss of vision. The diagnosis and management of strabismus associated with thyroid eye disease will be covered in this talk. Orthoptists are an important part of the medical team for these patients. We provide help in diagnosis, management and provide a supportive role in the ophthalmology clinic. The strabismus can be complicated and difficult to treat and manage. The types of strabismus, the typical extra ocular muscle restrictions and the ways in which it can be treated will be covered.

The newest treatment for thyroid eye disease is Teprotumumab. This is a medical treatment that was FDA approved in January 2020. It has been shown to significantly decrease proptosis and improve ocular motility as well as other signs and symptoms. A series of patients who have been treated with Teprotumumab over the past 2 years will be reported. The effect on the ocular motility and diplopia specifically will be shown in detail.

Scientific Session III
Monday, October 3, 2022
2:15 - 3:15 PM

Strabismus in Congenital and Acquired Hydrocephalus

2:30 - 2:45 PM

Anna Schweigert CO→

Neuro-ophthalmological findings in association with hydrocephalus is well known in the medical field and vastly described in the literature. This lecture will review the strabismus characteristics in patients with congenital or acquired hydrocephalus.

The Effect of Refractive Amblyopia on the Frisby Stereotest

2:45 – 3:00 PM

Kaajal Nanda CO→

Purpose: To identify the expected degree of stereo-acuity measured by the Frisby Stereotest, in various degrees of unilateral and bilateral refractive amblyopia.

Methods: A prospective investigation of 22 patients, with a clinical diagnosis of unilateral or bilateral refractive amblyopia. All patients were aged 4-12 years and seen between February-November 2021. All patients were recruited to the study at their first return visit with new glasses as prescribed by our physicians, following a cycloplegic refraction. All patients had a full orthoptic exam including the near Frisby Stereotest, visual acuity assessment, an induced tropia test (ITT) using a 20 diopter base-in prism- to reveal any fixation preference (which qualified as amblyopia for the purpose of this study). All tests performed are part of our routine examination.

Results: Regression analysis was performed on the data to identify a correlation between variables. We compared the Frisby scores with the maximum visual acuity difference between the eyes, the amblyopic visual acuity, the non-amblyopic visual acuity, and the spherical equivalent of the patients' refractions. Analysis revealed a strong relationship between both the visual acuity difference and the Frisby score ($R^2=0.41$), and the amblyopic visual acuity and Frisby score ($R^2=0.53$). There was no relationship between the anisometropia based on spherical equivalent refractions ($R^2=0.0007$).

Conclusion: Given the moderate-strong correlation noted between visual acuity and stereo-acuity, we suggest that the Frisby Stereotest can be utilized to imply possible refractive amblyopia and allow earlier intervention which may lead to more successful outcomes.

What? Me Botox? Yes You Can!

3:00 – 3:15 PM

Douglas Fredrick MD

When determining therapeutic options to treat children and adults with strabismus all modalities, including patching, exercises, prisms, surgery AND botulinum toxin should be considered. We will discuss the history of the development of Botox as well as the indications for treatment and techniques for its administration.

Scientific Session VI
Monday, October 3, 2022
3:30 - 5:00 PM

Acquired Strabismus in Patients with Childhood Strabismus

3:45 – 4:00 PM

Kimberly Merrill CO→, Anna Schweigert CO→

Acquired strabismus may emerge as a symptom of a series of neurological and systemic diseases we routinely diagnose and treat in our clinics. Occasionally, the affected patients have a history of pediatric strabismus. The sensory adaptation and previous eye misalignment that are common in pediatric and longstanding strabismus may mask an acquired deviation, creating unnecessary delay in the diagnosis and treatment of several serious diseases. Cases will be presented to offer guidelines for the examination and treatment of patients with a history of childhood strabismus who develop a neurogenic or restrictive disease affecting their extraocular muscles.

Select Cases in Tertiary Eye Movements

4:00 -4:15 PM

Michael Struck, MD

A series of case reports of patients with abnormal tertiary eye movements will be presented.

Getting to the Point: An Orthoptist's Guide to Non-surgical Strabismus Management

4:15 – 4:30 PM

Sally Murray CO→

Orthoptic exercises can offer a reasonable alternative to surgical correction in a specific subset of patients, it has also been shown to improve long term outcomes when used in conjunction with surgical management. This talk will cover the assessment of suitable patients, the range of exercises of exercises available to an orthoptist and how to administer them.

Oculopalatal Myoclonus: Evaluation and Clinical Management

4:30 – 4:45 PM

Megan Evans CO→

2022 FOREA Travel Grant Recipient

Oculopalatal myoclonus (OPM) is a rare neuro-ophthalmological disorder characterized by vertical pendular nystagmus associated with synchronous movements of the palate and can include other anatomical structures such as the tongue, pharynx and larynx. It is an acquired event that generally occurs following a stroke but does not usually appear until 8-12 months post-CVA. Once established, the condition is usually intractable. It is caused by secondary changes, which can be verified on MRI, representing hypertrophic degeneration of the inferior olivary nucleus. Affected patients often have an INO or motor palsies as a consequence of the stroke. OPM is accompanied by oscillopsia and diplopia and a halting speech pattern; patients are very symptomatic. In this educational review, description of the characteristics of OPM, the pathophysiology of this condition, therapeutic and surgical management options and challenges will be presented. Clinical details in two patients will be provided via supportive videos

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Please visit the AACO Website for the most up-to-date information regarding the number of available CE credits.

Course evaluations will be conducted electronically this year.
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- Complete course evaluation surveys sent to your email.

IJCAHPO

- Attend in-person sessions ONLY
- Record your attendance at each session by signing in at the registration desk each day.
- Complete course evaluation surveys sent to your email.

Recordings of the meeting will be posted to the AACO Online Learning Center shortly after the meeting.
Online Learning Center: <https://aaco.mclms.net/en/>

AACO Officers and Representatives

Please visit the AACO leadership webpage for the most recent list of AACO officers and representatives
<https://aaco.memberclicks.net/aaco-leadership-2022>

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Save the Date - Future Meetings

March 11-16, 2023

Orlando, FL

NANOS - North American Neurology-Ophthalmology Society
www.nanosweb.org

March 29 - April 2, 2023

New York City, NY

AAPOS Annual Meeting
<https://aapos.org/meetings/annual-meeting2023>

April 23-25, 2023

New Orleans, LA

ARVO - Association for Research in Vision and Ophthalmology
<https://www.arvo.org/annual-meeting/>

May 18-20, 2023

Baltimore, MD

AACO Eastern Region Meeting
<https://www.orthoptics.org/2023-eastern-regional-meeting>

May 31 - June 3, 2023

Lima, Peru

CLADE Congress
<https://cladeweb.com/congreso-2023/>

June 15-18, 2023

Montreal, Quebec

TCOS and COS Annual Meeting
<https://tcos.ca/english/>

November 3-6, 2023

San Francisco, CA

AAO / AACO National Meeting

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Congratulations to the 2022 AACO Travel Grant recipients:
Megan Evans CO→

For information on the 2023 Travel Grant, visit <http://forea.net/educational-travel-grant/>



AOC/IJCAHPO CE Credit Reporting Form

Program Sponsor: AACO

Program/Course Title: AACO National Meeting 2022 – Day 1 Instruction Courses

Program Location: Chicago, IL

Program Date: Saturday, October 1, 2022

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Laura Kirkeby, CO, OC(C)
Vice President

September 20th 2022
Date

Day 1 CE Program:

	AOC
1. Hunter et al - Complex Strabismus	1.0 Core
2. Ostrow, G - A Little Snip to Ditch the Glasses?	0.5 Core
3. Picard et al - A Browns out of the Blue	0.75 Core
4. Lieb et al - Cloak and Dagger - The Great Masquerader	0.75 Core
5. Lindholm et al - Ocular Motor Apraxia	0.5 Core
6. Murray et al - The Agonies of Orthoptics	0.75 Core
7. McClelland et al - Life and Vision Threatening Diplopia	1.0 Core
8. Devould-Henderson et al - DEI Symposium	0.0
9. Klaehn et al - Synoptophore - YES YOU CAN!!	0.75 Core
10. Discussions	0.75 Core

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Program Sponsor: AACO

Program/Course Title: AACO National Meeting 2022 – Day 2 Scientific Sessions, AAO/AACO/AOC Sunday Symposium

Program Location: Chicago, IL

Program Date: Sunday, October 2, 2022

This is to certify that _____ has successfully completed
Day 2 of the AACO National Meeting CE program via Classroom Learning and has earned
the following number of continuing education (CE) credit hours:

2.5 American Orthoptic Council (AOC) Core
0.0 American Orthoptic Council (AOC) Non-Core

Laura Kirkeby, CO, OC(C)
Vice President

L. Kirkeby

September 20th 2022
Date

Day 2 CE Program:

AOC

1. FOREA - Professional Development	0.0 / 0.0
2. Bolinger, A - Bifocals vs. SVL for High AC/A	0.25 Core
3. Hollar, P - Unusual Vertical Strabismus	0.25 Core
4. Patel, K - Dark Adaptometry during Full Field ERG	0.25 Core
5. Johnson, A - Night Blindness - What does that mean?	0.25 Core
6. Discussion	0.25 Core
7. AAO/AOC/AACO Sunday Symposium	1.25 Core

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Program Sponsor: AACO

Program/Course Title: AACO National Meeting 2022 – Day 3 Scientific Sessions, AAP/AACO Symposium, Scobee Memorial Lecture

Program Location: Chicago, IL

Program Date: Monday, October 3, 2022

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6.50 American Orthoptic Council (AOC) Core
0.0 American Orthoptic Council (AOC) Non-Core

Laura Kirkeby, CO, OC(C)
Vice President

L Kirkeby

September 20th 2022
Date

Day 3 CE Program:

AOC

1. AAP/AACO Symposium	2.0 Core
2. Roper-Hall, G - Abnormal Posture and Binocular Control	0.25 Core
3. de Alba Campomanes, A - Improving Spectacle wear	0.25 Core
4. Nyong'o, O - Patching Monitoring Technology	0.25 Core
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9. Murray, S - Non-surgical Strabismus Management	0.25 Core
10. Fredrick, D - What? Me Botox? Yes You Can!	0.25 Core
11. Struck, M - Tertiary Eye Measurements	0.25 Core
12. Nanda, K - The Effect of Refractive Amblyopia on the Frisby Stereotest	0.25 Core
13. Merrill et al - Acquired Strabismus in Patients with Childhood Strabismus	0.25 Core
14. Evans, M - Oculopalatal Myoclonus	0.25 Core
15. Discussions	0.75 Core