

# American Society of Ocularists Annual Conference

Chicago, Illinois  
September 30 – October 3, 2022

## Preliminary Program Schedule

as of October 3, 2022  
*proposed NEBO credits shown in red*

### Friday, September 30, 2022

12:00pm – 4:00pm	<b>Board of Directors Meeting</b>
12:00pm - 3:00pm	<b>Education Committee Lunch &amp; Meeting</b>
2:00pm - 5:30pm	<b>ASO General Registration</b>
4:15pm - 5:15pm	<b>Fellow Committee Meeting</b>
6:30pm - 8:00pm	<b>ASO Welcome Reception</b>

### Saturday, October 1, 2022

8:00am – 9:00am	<b>Breakfast</b>	
9:00am – 9:05am	<b>Welcome</b> President: Kendahl Quimby, BCO, BADO Program Co-Chairs: Michelle Bullard, BCO, BADO & Melissa Frederick, BCO, BADO	
9:05am – 10:35am	<b>Course #707: Fitting Technique Overview - Panel Discussion</b> Moderator: Michelle Bullard, BCO, BADO Panel Member Presentations: <b>Empirical Fitting</b> Stephen Haddad, BCO, BADO This presentation will discuss the fundamentals of the Empirical approach to fitting an Ocular Prosthesis. An organized method of steps used by the speaker will be highlighted. Advantages and disadvantages as well as best use scenarios will be presented.	<b>6</b>

### **Modified Impression**

Hillary Yeager-Davis, BCO, BADO

A modern take on the Modified Impression Method, as part of the panel discussion on multiple fitting techniques. Based on the Journal of Ophthalmic Prosthetics Article and methodology developed by Lee Allen. This course focuses on the impression and informed modification of a wax pattern to get the desired balanced appearance.

### **Empirical Impression/LeGrand Method**

John Brinkley, BCO, BADO

This talk will center on discussions on techniques for artificial eye fitting using the LeGrand Method for Empirical Impression taking, and troubleshooting.

10:45am – 11:45am

### **Course #620: Reconstructive Surgery of the Anophthalmic Socket; Eyelid Surgery to Facilitate Artificial Eye Fitting**

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Allen Putterman, MD

The presentation will describe the technique that Putterman and Scott described for the reconstruction of total ocular socket and symblepharon contracture cases. Our custom-made C-shaped mucous membrane covered conformer has its midperiphery attached to the superior and inferior orbital rims, thereby forcing the ends of the conformer deep into the ocular socket. This creates a large space that can easily retain an artificial eye. Removal of 4 triangles in the dermis of a dermal fat graft, as described by Putterman and Migliori, improves movement of the artificial eye. Ptosis surgery with the Muller's muscle-conjunctival resection procedure, devised by Putterman and Urist, can lift the drooped upper eyelid and allow fitting with a smaller artificial eye. It also decreases the retracted lower eyelid and improves the upper eyelid crease position. The lecture will also describe the trans-marginal rotation entropion procedure to treat cicatricial entropion in anophthalmic socket patients. Lastly, a lateral canthotomy technique will be presented to elongate the horizontal palpebral fissure in congenital microphthalmic cases, and a lateral tarsal strip to tighten and lift the lax, retracted lower eyelid.

11:45am – 1:30pm

### **Lunch On Your Own**

12:00pm - 1:30pm

### **Canadian Society of Ocularists Meeting**

1:30pm – 2:30pm

### **Course #622: Entropion and Ectropion**

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Elizabeth Chiang, MD

Entropion and Ectropion are two conditions where the eyelid position is altered. This presentation will include a discussion of eyelid anatomy and causes of eyelid malposition. Evaluation of the patient and surgical repair of ectropion and entropion will be reviewed.

2:40pm – 3:55pm

**Course 661: Medical Advisory Seminar** Moderator:  
Stephen Haddad, BCO, BADO

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**Lectures presented by:**

Daniel Rootman, MD

Anne Bartletter, MD

Donald Fox, MD

Sophie Liao, MD

**Joseph LeGrand, Sr. Award Recipient Talks:**

2021 Nicole Walker, BCO, BADO

*Family Resources for Microphthalmia and Anophthalmia*

This course will discuss potential challenges parents may face when receiving an initial diagnosis of microphthalmia and/or anophthalmia and the importance of education and support from all health care professionals. The different resources available to facilitate the foundation of a solid support network and understanding of the diagnosis will be explored.

2022 Chelsea Webb, BCO, BADO

*Complex Scleral Lens Fitting*

This presentation will discuss the complications that can arise when fitting a scleral lens prosthesis for a phthisical eye. The talk will review some of the common complications that an Ocularist may face and what possible solutions there are to a successful scleral lens prosthesis fit.

4:15pm – 5:15pm

**Course 830: Student Lecture Workshop**

Moderator: Nicole Walker, BCO, BADO

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**1. Emily Brunson, COO Intern**

The Human Gaze: A Paleoanthropological Perspective using *Au. afarensis*

*The human gaze plays a large role in communication. This is an adaptation that has developed over thousands of years at a level that is not found in other primate species. Australopithecus afarensis is Homo sapien's oldest known relative, so what insights could the "Southern Ape" give us on our patients' physiology and function?*

**2. Jay McClennen, CCA, CFm, COO Intern**

Combining Digitally Printed Iris Buttons with the Paint Shell Technique

*There are 600 digital irises in my practice ready to choose when matching to the patient. This system has proven to help in producing the highest level of realism for my patients. However, in most cases, I chose to also do some overpainting on the digital image to further*

*enhance the match to the patient especially when they present with unique characteristics in their iris colors. This talk will show how I combine my process of hand painting over digital irises while incorporating the paint shell technique to have that last look with the patient.*

**3. Emily Barbour, COO Intern**

**Mold-making: Basics and a Bit More**

*The basis of the talk being about the fabrication of stone molds-- but I will also be adding in a bit about silicone molds as well as a demonstration using both techniques to fabricate new impression trays for our office.*

**4. Sarah Borzon, COO Intern**

**Intro to Applications of 3D Printing in Ocularistry**

*I will be presenting a primer on the applications of 3D printing in ocularistry. There are few research teams and they present a hybrid approach. This combines technology along with a knowledge of ocularistry and artistic techniques. Through this talk I will show major concepts and challenges in combining 3D printing with the work that we do.*

**5. Savanah Wilt, COO Intern**

**Anophthalmia- Closing the Gap Between Patient and Provider**

*This discussion will share different approaches to treatment of anophthalmia as well as resources for interns to deepen their understanding of this condition.*

**6. Kimberly Robles, COO Intern**

**Case Study on Microphthalmia**

This presentation will show my experience working with microphthalmia. The process using expanding conformers with the child and the parents. Including a therapy that the parents wanted to incorporate.

**7. Rahel Feil, COO Intern**

**Color Blindness**

I will explain color vision deficiency and color blindness with their characteristics and will give an overview about life with CVD, diagnosis, consequences and possible treatment. I am also presenting an example of a patient of ours and tell about his experiences as a person with color vision deficiency and his first attempt to wear color vision glasses, that are supposed to improve color vision.

8:00am – 9:00am	<b>Breakfast</b>	
9:00am – 10:00am	<b>Course #631: Socket Surprises</b> David Yoo, MD	<b>4</b>
10:10am - 11:40pm	<b>Course #907: How to Deliver a Great Speech</b> <b>Learn what it means to prepare-write-perform a great presentation!</b> Valerie Smith, DTM, Toastmasters Public Relations Manager	<b>6</b>
	<p>This is a 50-minute Lecture and a 35-minute Workshop. Public Speaking can be challenging, when you are not sure how to prepare and present yourself to patients, doctors and others effectively. This course will help you in your day-to-day communications as well as give you the steps to prepare for delivering a great speech, from research, choosing the right topic, understanding your audience, and how to present your speech effectively. After you've learned the aesthetics of preparing a speech presentation, there will be an interactive breakout session to create an introduction, amongst your group and selective leaders will be able to present their group's introduction after the breakout session. This lecture will transform you on making the right appearance and giving an effective speech presentation for your next meeting.</p>	
11:40am – 1:00pm	<b>Lunch on Your Own (ASO)</b>	
11:40am - 1:00pm	<b>COO Luncheon / Lecture</b> <b>COO Course 9006: The Ocularist and Cosmetic Optics</b> Jean Thompson, BCO, BADO, FASO	
	<p>This course will cover the hidden gem that is cosmetic optics. It's important for the ocularist to understand the available options with cosmetics optics to guide patients to the best result possible. There are occasions where the ocularist cannot achieve the most optimal result with the prosthesis alone and when combining this with cosmetic optics it can change the overall appearance dramatically for the better.</p>	
1:00pm - 2:15pm	<b>Course #773: Fitting Scleral Shells</b> Marcus Soper, BCO, FASO, FCLSA	<b>4</b>
	<p>The fitting and fabrication of scleral shells often challenges the ocularist. Creating a life-like comfortable prosthesis over a living globe requires the ocularist to analyze each case with regard for anatomical structure of the existing globe and resulting cosmesis. This course will address a systematic approach to avoiding many problems while giving solutions to overcoming those that do arise.</p>	
2:15pm – 3:15pm	<b>Proceed to Convention Center for Joint Session</b>	

**Course 660: Joint Scientific Session** **5**  
**with the American Academy of Ophthalmology “Prosthetic and Surgical Management of Congenital Anophthalmia and Microphthalmia”**

Introduction by David Gougelmann, BCO, BADO

Co-Chairs: David Gougelmann, BCO, BADO & Swapna Vemuri, MD

Congenital anophthalmia and microphthalmia present special challenges for both the Ocularist and Ophthalmologist. This symposium will examine the history, present and future prosthetic and surgical management procedures and outcomes. Proposed topics include Boney orbital expansion with orbital volume augmentation using expandible surgical and nonsurgical devices. Along with management of congenital anomalies of orbital structures not limited to eyelids, associated with congenital anophthalmia and microphthalmia. Ophthalmologists and Ocularists will attend this joint symposium to discuss and review the comprehensive management of congenital anophthalmia and microphthalmia.

**Prosthetic Management of Congenital Microphthalmia**

Shirley D. Weyland, BCO, BADO, FASO

Early ocular intervention is critical when treating a patient with microphthalmia. As a result of the small and intricate dimensions of the orbit, frequent visits to the ocularist are important to ensure that the expansion of the orbital bone structure is achieved. This presentation will examine the challenges and techniques used to treat patients with microphthalmia as well as when to start treatment and how to achieve success.

**Surgical Management of Congenital Microphthalmia**

Scott M. Goldstein, MD

Congenital microphthalmia is a rare disease where one or both eyes are small at birth. It is usually accompanied by poor or absent vision in the eyes involved. The differential diagnosis includes congenital anophthalmia and congenital cystic eye. Often, microphthalmia is accompanied by a cyst due to improper closure of the fetal fissure during embryogenesis. Management can be difficult. Goals of treatment include normal facial, orbital, and eyelid development and ability to comfortably wear an ocular prosthesis when vision is poor or absent. This talk will discuss surgery for microphthalmos with cyst including indications and timing of surgery, alternatives to surgery, cyst removal with and without enucleation, sclerosing therapies for the cysts found in this disorder, and avoidance of complications.

**Prosthetic Management of Congenital Anophthalmia**

Marie-France Clermont, BCO, BADO, FASO

The absence of an eye or both eyes due to a congenital malformation such as anophthalmia can be a difficult situation for the child and family. The management of a congenital anophthalmic socket is a challenge for the ophthalmologist and the ocularist. The primary goal is to create symmetry with the companion eye. The ideal management relates to early expansion therapy,

utilizing larger-size conformers to help the eye socket to develop properly. This is followed by the fabrication of an ocular prosthesis. In some extreme cases of anophthalmia a surgical plan might be necessary.

### **Surgical Management of Congenital Anophthalmia**

Thomas Johnson, MD

Clinical anophthalmos is a rare disorder in which one eye or both eyes are either absent or exceedingly small and malformed at birth. True congenital anophthalmos is the complete absence of ocular tissue present. Left untreated, this condition results in tight phimotic orbits with lid and bone hypoplasia combined with facial asymmetry. Treatment of choice includes gradual expansion of the soft tissue and bony tissues with gradually expanding conformers followed by implant placement in the orbit after maximal expansion has occurred. Lid surgeries can be added after expansion to augment the cosmetic outcomes. This presentation will address the early and late treatment for this disorder. Also, descriptions of the pitfalls of overly aggressive and inappropriate surgery of these cases will be discussed.

### **Question and Answer Session**

### **2022 Ruedemann Lecture: Protecting the Inferior Cul de Sac**

Kenneth V. Cahill, MD

Inferior conjunctival cul-de-sac instability is a common problem in the optimal fitting of an ocular prosthesis. It tends to increase with time. This presentation will review the anatomy of the lower lid and inferior orbit. Techniques to minimize the compromise of the inferior cul-de-sac with enucleation and evisceration surgery will be described. Options for managing the anophthalmic socket and ocular prosthesis to maintain the inferior fornix will be offered. This will include ptosis, extruding implants, inadequate orbital tissue volume, orbital fat prolapse, and horizontal lower the laxity. Conjunctival shrinkage disease and socket contracture are an occasional problem and current theories and treatment options will be included.

6:00pm – 7:00pm      **Reception & Silent Auction**

7:00pm - 10:00pm      **Closing Night Banquet**

## **Monday, October 3, 2022**

7:00am – 8:00am      **Breakfast**

8:00am – 9:15am      **Course #790: John J. Kelley, Sr. Mini-Max**      **5**  
Moderator: Melissa Frederick, BCO, BADO

- Vanessa Pederson, BCO, BADO  
*Abstract Shapes When Fitting*  
The majority of the time in our careers as ocularists we tend to make the

same shapes over and over, so much so that we can almost do them in our sleep. On occasion we may run into some issues with a socket or a client's lids that calls for us to create some very abstract shapes in order to either get the prosthesis to stay in place or get the lids to look as close to the original as possible. I'm going to show you one of the most irregular shapes I've had to make, and the decisions behind the process, in hopes that you may take away a different approach to a tricky fit.

- Kuldeep Raizada, PhD, BCO, BADO, FAAO  
***Challenges following Pandemic in Prosthetic eye users***  
We have experienced a significant rise in the poor care and socket inflammation following the pandemic. This presentation will discuss how we came to solve this issue.
- Ruth Müller-Welt, Dipl.  
***Identifying the Best Solution using Different Techniques***  
The course describes a way for ocularist and patient for how to find the best fitting method of artificial eyes in Germany. Approximately 90 % of patients with anophthalmia (phthisis bulbi) receive an artificial eye that is made of glass as glass is still the standard material of choice for ophthalmic prostheses. At the Institute of Artificial Eyes in Stuttgart, we have been able to fit patients also with prostheses from acrylic for more than 20 years now, thanks to the great support of our friend and colleague Randy Trawnik. Working with prostheses made of both, glass and acrylic, is a challenge, but also unique in Germany and Switzerland.
- Chandra Chawan, PhD, FSLs  
***Plasma Treatment and Hydra Peg Coating on Custom Ocular Prosthesis***  
Plasma surface treatment and soft hydrogel coating on contact lenses has been a standard of practice in Optometry since many years now. It has shown great results on comfort and eye socket sensitivity especially for patients with dry eyes. The same technology can be now used for our patients who are using custom made artificial eyes and scleral shells. This talk will discuss this technology as it relates to ocular prostheses.

9:15am - 10:15am

**Course #728: A Method for Creating an Orbital Prosthesis for an Exenterated Socket**

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Donald Kluge, BCO, BADO

Orbital exenteration while being a lifesaving surgery leaves the patient in great need of help for prosthetic rehabilitation. The purpose of this presentation is to introduce ocularists to the possibility of creating an orbital prosthetic for the patient in need, when an anaplastologist, prosthodontist or maxillo-facial prosthodontist is not available. This is a step-by-step demonstration of "a" Method to create a facial prosthesis for an exenterated socket, From initial examination of socket to final dispensing of finished prosthesis.

10:15am – 10:45am Annual Business Meeting Sign In

10:45am – 11:45am Annual Business Meeting

12:00pm – 1:00pm Post ABM Board of Directors Meeting

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Courses of the College of Ocularistry are shown in burgundy print. Only registered COO Interns may attend the COO Luncheon / Lecture held at this conference. COO Interns will participate in two online courses in addition to the luncheon lecture in this program.

**Course 7010: The Advancement of Fitting and Fabrication Tools, Materials and Their Uses**

Mike Barrett BCO, BADO,

1 hour Tested

This course will demonstrate machinery, tools and materials that were used in past as well as present day procedures. We will also discuss the advantages and disadvantages of some of the procedures, equipment, and materials.

**Course 7015: Fitting and Fabrication Concerns For the Scleral Shell**

Willie Danz BCO BADO FASO

1 hour Tested

This course will cover various fitting criteria for scleral shells. Not every globe is a suitable candidate for a scleral shell and others need specific considerations. We will discuss how to identify these traits and strategies to address certain challenges present during scleral shell fitting. Fabrication techniques are closely tied to fitting techniques and we will discuss which fabrication strategies work best for certain circumstances.