**Spectacle Courses**

**Advanced Optics – Through the Looking Glass**  
*Presented by Phernell Walker*  
Ophthalmic Optics encompasses geometric, applied, and physiological optics. Optical formulae play a vital role in understanding these lens arrays. Join Master Optician, Phernell Walker in this fun course as he shares his own latest formulae combination to identify the refractive index of the unknown material, explore ramifications of lens horizontal and vertical tilt, advanced resolving and resultant prism, and prism of focal lens designs and more.

**Advanced PAL Designs – What do all these Additional Measurements Really Do?**  
*Presented by Frank Pigneri*  
Dispensers today are faced with many PAL designs with additional benefits to the patients when using the advanced personalized designs. This course will provide the insight and understanding of the "WHY" behind the additional measurements needed for advanced PAL designs.

**Blue Light Special...HEV**  
*Presented by Jackie O’Keefe Lincoln*  
Blue light is causing quite a buzz in our Ophthalmic world. These potentially harmful light waves come at us artificially and naturally. Yet, there is a dark side to blue light known as High Energy Visible (HEV) light. HEV exposure increases the risk of Macular Degeneration, cataracts and disrupts our daily circadian rhythms. This course will explore the electromagnetic spectrum, the visible light spectrum, dig deeper into the mysteries of HEV and offer solutions.

**Clinical Approach to Spectacle and Contact Lens Design Formulas**  
*Presented by Blair Wong*  
The goal of this course is for participants to develop a level of comfort in the practical use of optical formulas in their everyday practice as they apply to the design of both prescription spectacles and contact lenses.

*Presented by Jaysun Barr*  
A practical workshop style introduction to entry-level lens finishing. Attend this step-by-step workshop style seminar to get better acquainted with the basics of In-Office Finishing (IOF). Truth is, today’s highly accurate and user friendly technology really makes it easy to “finish what you started”, eliminating the need for costly complete Rx outsourcing to a lab, while maintaining majority control. The result is elevated revenue, profits, and patient service offerings for any optical-based business. See for yourself how easy it can be, while complementing your existing practical Opticianry skill set by gaining a basic understanding of the process. You may just decide edging is something you wish to make part of your “daily grind” like many other Opticians who wouldn’t have it any other way!
**Lensology – When Millimeters Count!**  
*Presented by Deb Kotob*

The purpose of this seminar is to review eyeglass lens basics. It will cover the anatomy of the eye as it relates to the refraction and focusing of light images on the retina. The types of ametropes/refractive errors as well as accommodation and presbyopia will be reviewed. The corrective lens required to correct each type of refractive error will be discussed; including how it functions to focus light on the retina. For each type of corrective lens, we will review Opticians’ considerations. Lens types, materials, styles and various manufacturing, surfacing and edging step/procedures will be discussed as well as frame selection, fitting techniques, tips and guidelines.

**Let’s Get Techie with Variable Tint Lenses (VTL)**  
*Presented by Jackie O’Keefe Lincoln*

Variable tint lenses are convenient, really cool, comfortable and, of course, profitable. Yet what makes this technology so unique? How are they made? How do they work? What considerations need to be addressed when recommending VTL lenses to the patient? These common questions, and others, will be addressed during this course to help you better understand the properties and recommend based on our findings. So, let’s drill deeper into the properties of variable tint lenses together.

**Managing the Effects of Unequal Refractive Errors**  
*Presented by Diane Drake*

Patients want to know what their glasses will look like and we spend time discussing that with them. But...how will they see with their glasses? That’s an even more important question. Unequal refractive errors not only have an effect on how glasses will look, but how a person sees or even “IF” they see WELL. This course will present answers to these questions presenting both spectacle and contact lens options in the discussion.

**Murphy Dispensed Eyeglasses**  
*Presented by Roy Ferguson*

This presentation covers material defined by the ABO Advanced Certification Examination Content Area and the National Contact Lens Examiners Advanced Certification Examination, Customer Relations: Establish and maintain effective customer/patient and practitioner interactions. This course assumes little or no knowledge of the topic covered. The focus of the presentation is to increase knowledge and application by the attendee. This session is intended to be generic in nature and will be presented in an objective manner.

**Near Vision Lenses**  
*Presented by Jamie Brady*

This course will describe, in detail task specific, near vision lenses. This course will explain why we need to better utilize these lens products and how Opticians can best assist patients by better understanding near vision lenses. This course will examine near vision task specific lenses by virtually every major manufacturer, insurer (VSP) and laboratory currently available. Using a Rotlex Class Plus lens analyzer the lenses have been measured and are pictured depicting their points of focus. With this knowledge, an Optician can both better understand how these lenses actually work and which designs focus at what
distances. This is a solution to a problem in our industry. Many Opticians use only a few near vision lenses in their practices. This course will broaden their understanding and knowledge of the entire lens classification.

**Night Vision**  
*Presented by Deb Kotob*  
All human vision, including scotopic or adapted dark vision, begins with chemical reactions that take place within the photoreceptive, light detecting, cells within the retina. These photoreceptive cells are rods and cones.

**Prism: Everything You Need to Know**  
*Presented by Phernell Walker*  
Prism is not a four letter word, but can be frustrating for some. This fun and interactive course makes understanding and calculating prism easy. We will explore both prescribed and accidental prism. Students will learn about Geometric Optics of Light, Prentice Rule Made Easy, decenteration, prism distribution methods, verify prescribed prism, compounding and resolving prism, and prism thinning.

**The DNA of Ophthalmic Lenses**  
*Presented by Jackie O’Keefe Lincoln*  
Ophthalmic lenses have unique properties like lower specific gravity, higher safety, precise optics and thinner profiles. Each lens has its own story. Becoming familiar with lenses is a great place to start when relating to patients’ visual concerns, recommending and troubleshooting when there is a complaint. This course drills deeper and explores unique properties of plus, minus, cylinder, multifocals, progresses, prisms and the plethora of material choices. We will continue with a hands-on breakout session to help identify lenses.

**The Science, Art, and Attitude of Frame and Lens Selection**  
*Presented by Laurie Pierce*  
Every day we experience the challenge and opportunity to communicate value differences in frames and lenses with our clientele. How do we communicate the differences in value in a $79.00 frame and a $479.00 frame? How about a $200.00 PAL and a $600.00 PAL? This course will outline the variables of frame construction and lens design, including materials used and methods of fabrication. Samples will be demonstrated showing the details in construction and design that can make all of the difference in the value of the frames and lenses. Helpful tips in communicating frame and lens features and benefits will round out this session. Don't play a guessing game. Present the best with confidence, and watch your business grow.

**The Secrets of Advanced Prism**  
*Presented by Diane Drake*  
This course will present information including splitting prism, compounding prism, prism notation, resultant prism, and resolving prism. An understanding of basic prism would be helpful for the learner to comprehend the more advanced knowledge in this course. This course will be a more advanced level regarding prism.
Troubleshooting: What’s Wrong with My New Glasses  
Presented by Phernell Walker  
Every Optician has heard these famous words, what’s wrong with my new glasses? Troubleshooting and solving vision and other eyewear complaints takes critical thinking and a little investigative work at times. In this course, Phernell Walker, Master Optician, will share his HPC approach for solving some of the toughest challenges that manifest in prescription eyewear.

Understanding the Optics of Strong and Larger Lenses  
Presented by Laurie Pierce  
As frames fashions increase in size we must review the optical concepts that ensue. The majority of optical aberrations occur in the periphery of the lens. When we dispense smaller eye sizes, this is not as urgent. However, as eye sizes increase, so do optical aberrations. Additionally, as lenses increase in power, additional optical concepts must be applied. This course will focus on the major optical aberrations and prismatic effects that occur in larger and stronger lenses, and their optical solutions.

What Are Lens Aberrations and What Can We Do About Them?  
Presented by Diane Drake  
This course will present information regarding lower order lens aberrations as well as higher order aberrations. It will explain the role that lower order lens aberrations have played in lens design and the effect these aberrations have on patient vision.

Contact Lens Courses

Anterior Segment Disease: Problems Faced by the Contact Lens Patient  
Presented by Michael Stewart