

Title: “The Best Exhibit Hall Education”

Speakers: Lynn E. Lawrence Sr.

Time: Two hours and 30 minutes

Target group: Ophthalmic assistants, technicians, technologist, administrative Personnel, Students, Doctors

Level: Technical 2

Prerequisite: Suggested courses: Ocular Anatomy, Contact Lenses, Ocular Diseases, and Testing Procedures

Teaching Method: Lecture and Demonstrations

CE Requested: 2 Hour

Course Description: This course is designed to highlight new technologies and the ability to question the best subject-matter-experts in the industry, vendors on their technology. A demonstration will be performed at every stop in the exhibit hall and attendee questions are encouraged.

Objectives:

1. The value of the OCT and its importance in treating disease
2. Eye Alignment Measurements and Its Value in Patient Eyewear Comfort
3. Advanced Disease Testing Using ERG
4. The expanded use of topography in Contact Lenses and Dry
5. The Use of Lasers in Optometry
6. Ultrasonic Eye Scanning and clinical uses

Timed Outline:

1. The value of the OCT and its importance in treating disease (Heidelberg) (20 minutes)
 - Select a volunteer from one of the attendees
 - Perform GMPE scans/presenting simultaneously
 - Explain the testing
 - Explain why glaucoma testing is so valuable
 - Glaucoma second leading cause of blindness in the world – 3million Americans
 - Optometrists primary eye care providers, monitoring glaucoma before referral
 - Types of testing
 - SPECTRALIS has the lowest variation coefficient on the market, nothing changes of 1-2um compared to 5-6um (twice as long to follow and note progression changes – glaucoma patients don’t have this time to waste)

- APS and Follow ups
 - ONH-RC scan – 24 radial cuts, 3 peripapillary rings (3.5/4.1/4.7) centered on the disc and aligned to the fovea for accurate Garway-Heath sectoral analysis
 - P-Pole V scan – 61 cuts aligned to the patient’s fovea to provide a true degree of their horizontal raphe and provide the most accurate asymmetry analysis, not only for full thickness but GCL as well.
- High level reports
- Questions and answers

2. Eye Alignment Measurements and Its Value in Patient Eyewear Comfort (NeuroLens) (20 minutes)

- The value of eye alignment and how adjustments in the spectacle Rx matters
- Advanced eye-tracking technology enables robust tracking of patients’ eyes in a continuous fashion while the eyes are dissociated, objectively detecting phoria changes as small as 0.01PD.
- Contoured prism lens designs provide reliable symptom relief by addressing trigeminal nerve overstimulation caused by a proprioceptive mismatch between misaligned eyes and the vestibular and muscular systems, which creates a neural conflict.
- New evidence from a parallel arm study shows a mean (\pm SD) improvement in reading speed with a contoured prism design that is almost 70% higher than the mean (\pm SD) improvement in reading speed with other premium lens designs.
- Volunteer from the audience
- Questions and answers

3. Advanced Disease Testing Using ERG (LKC Industries) (20 minutes)

- Diseases that ERG have been used to test and monitor
- What is ERG and why use it
- Get a volunteer from the audience
- The importance of structure and function in the management of Diabetic Retinopathy
- Measuring ganglion cell health with functional testing and, the role it can play in your glaucoma management
- Identifying retinal function in a matter of minutes
- Volunteer from the audience
- Questions and answers

4. The expanded use of topography in Contact Lenses and Dry Eye (Nidek) (10 minutes)

- Different uses for topography
- The importance of accurate topography for fitting specialty contact lenses.
 - Soft contacts

- RGPs
- Scleral Lenses
- Specialty contacts
- Managing your Dry Eye patients with new imaging modalities
 - Surface monitoring/changes
 - Tear film monitoring
- Get a volunteer from the audience

5. The use of Lasers in Optometry (Nidek) (10 minutes)

- Laser uses and types
 - YAG
 - SLT
- When to use the different types of lasers
 - YAG
 - SLT
- Diseases these two lasers are used to treat
 - Glaucoma
 - Posterior capsular haze
- The advantages of utilizing less energy for your YAG capsulotomy and YAG PI procedures.
- Pre-planning your SLT procedures with new navigation features.
- The staff's role in laser use
- Training your staff
- Questions and answers

6. Ultrasonic Scanning of the EYE (DGH) (20 minutes)

- Uses of the A-Scan measuring device
- The importance of measuring axial length in myopic patients
- Different types of biometry devices
- How the A-Scan fits into an optometric myopia practice
- Get a volunteer from the audience
- Questions and answers

7. Scleral Fitting, Insertion, and Removal training (20 minutes)

- Hand and lens cleaning:
 - Do's and Don'ts
- Proper hand soaps to use.
 - Do's and Don'ts
- Lens cleaning/solutions to use for different lens treatments and shipping suggestions.
 - Types of solutions
 - Do's and Don'ts for different solutions
- What are scleral lenses and what corneal conditions are they used for?
 - Dry eyes

- Keratoconus
 - Corneal Disease
- Contacting patients about clothing, makeup, suggestions before appointment.
 - Clothing
 - Make-up
 - Prior to the appointment
- Insertion and removal techniques of scleral lenses.
 - Insertion
 - Removal
- Q&A