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### STATE BOARD OF OPTOMETRY

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



# Continuing Education Course Approval Checklist

TITIE:
Provider Name:
<ul> <li>☑ Completed Application</li> <li>Open to all Optometrists?</li> <li>☑ Yes</li> <li>☑ No</li> <li>Maintain Record Agreement?</li> <li>☑ Yes</li> </ul>
☑ Correct Application Fee
☑ Detailed Course Summary
☑ Detailed Course Outline
□ PowerPoint and/or other Presentation Materials
□Advertising (optional)
☑CV for EACH Course Instructor
<ul> <li>☑License Verification for Each Course Instructor</li> <li>Disciplinary History? □Yes ☑No</li> </ul>

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. Ca	shiering and	Board Use Only	/	
Receipt#	Payor ID	Beneficiary ID		
			GOVERNOR	EDMUND G. BROWN JR.

Course Presentation Date

OPTOMETRY.

STATE BOARD OF OPTOMETR / 70 79 //36 755 2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry.ca.gov



# CONTINUING EDUCATION COURSE APPROVAL **APPLICATION**

## \$50 Mandatory Fee

Course Title

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule, a detailed course outline and presentation materials (e.g., PowerPoint presentation). Applications must be submitted 45 days prior to the course presentation date. Please type or print clearly.

COVNEAT CVIGG-LIMEING	03/15/20	/[15]/[2011]			
Course Provide	er Contact Information				
Provider Name					
	Lang (Middle)				
(First) Provider Mailing Address	(Last) (Mid	idle)			
Provider Maining Address					
Street 3160 J St. City Galvanue	ento State CA Zip 95811	o .			
Provider Email Address <u>spineda@liangvi</u>	gion.com	_			
Will the proposed course be open to all California lice	XYES □ NO				
Do you agree to maintain and furnish to the Board an of course content and attendance as the Board require from the date of course presentation?	res, for a period of at least three years	YES □ NO			
Course Inst Please provide the information below and attach the curri If there are more instructors in the course, please provide Instructor Name					
instructor Name					
keith Liana	۸				
(First)	Last) (Middle)				
(1110)					
License Number 6 69355	License Type <u>medical</u>	<del></del> .			
Phone Number (116) 446-2020	vision. com				
I declare under penalty of perjury under the laws of the this form and on any accompanying attachments sub-	he State of California that all the informa omitted is true and correct. いろいつり	tion submitted on			
Signature of Course Provider	Date	Form CE-01, Rev. 5/16			
1					

				FOR	BOARD ONLY	USE
Course Title	Date(s) of Course	Instructor(s)/Lecturer(s)	CE Hours Requested	Approved	Disapproved	ID#
Toric IOL's	01/18/2017	KEITH LIANG, MD	2			
Corneal Cross-Linking	03/15/2017	(KEITH LIANG, MD)	2			
Review of Eye Drops: Prostaglandins	05/17/2017	KEITH LIANG, MD	2			
Aspheric vs. Non-Aspheric: Night Time Vision	07/19/2017	KEITH LIANG, MD	2			
Tecnis, Symphony & Crystalens AO	09/13/2017	KEITH LIANG, MD	2			
Wavefront Technology: Topography Guided Laser	11/15/2017	KEITH LIANG, MD	2			
Treatments for Macular Degeneration	05/07/2017	KEITH LIANG, MD	2			
Glaucoma: Decisions & Choices	05/07/2017	KEITH LIANG, MD	2			
Ocular Hypertension	11/12/2017	KEITH LIANG, MD	2			
Optical Coherence Tomography of Macula & Optic	11/12/2017	KEITH LIANG, MD	2			

COMMITTEE COMMENTS:



February 23, 2017

State Board of Optometry 2450 Del Paso Road, Suite 105 Sacramento, CA 95834

Dear Boards of Optometry,

Thank you for considering my request for CE approval. I was recently informed by Kristina Eklund that I need to provide a letter to explain why I am not able to provide presentation materials for the scheduled events in 2017. I feel that providing current information to our network of optometrist is very important. I gather presentation information from a variety of information sources- mainly current ophthalmic studies (articles) and ophthalmic meetings that I attend periodically through the year. The Power Point presentations are created from information gathered from ASCRS held in May and AAO conferences held in November; this ensures that the information provided is not only current, but the newest technology that we can offer in the United States.

I have prided myself in the ability to deliver quality information to my optometric network and I have been working with the Board of Optometry for many years to provide CE's. I ask that you strongly consider issuing Continuing Education credits for 2017 as I have many Optometrists who depend on what is offered at my office.

Thank you so much for your consideration.

Keith Liang, MD

Ophthalmologist

Sincerely



### **COURSE SUBJECT MATTER**

<u>Toric IOL's</u> <u>Instructor:</u> Keith Liang, MD

Event Date: January 18, 2017

Toric IOL Staar and Alcon have added a new dimension to cataract surgery to correct Astigmatism. It has allowed for greater post operative satisfaction from patients. Review the preoperative criteria required for successful implantation of the lens. The surgical steps required for successful implantation of the lens in the correct axis.

Corneal Cross-Linking Instructor: Keith Liang, MD

Event Date: March 15, 2017

Corneal Cross-Linking (CXL) has been used to treat issues like keratoconus and corneal ectasia after LASIK surgery since 1997. *Keratoconus* is a vision disorder that occurs when the normally round cornea (the front part of the eye) becomes thin and irregular (cone) shaped. This abnormal shape prevents the light entering the eye from being focused correctly on the retina and causes distortion of vision. The goal is to educate the physical signs to manage these patients pre-operatively and post operatively.

Review of Eye Drops: Prostaglandins Instructor: Keith Liang, MD

Event Date: May 17, 2017

Travatan, Lumigan and Xalatan drops are the family of eye drops that are the primary treatment for glaucoma. The difference will be reviewed and indications for use in the ocular hypertensive and glaucoma patients will be discussed.

Aspheric versus Non-Aspheric: Night-time Vision Instructor: Keith Liang, MD

Event Date: July 19, 2017

The wavefront modified IOL that affect spherical aberration will be reviewed. The latest medical discussion on the lenses affect on improved night time vision will be discussed. Wavefront date both pre and post operatively will be reviewed.

ResTor, Symphony & Crystalens Instructor: Keith Liang, MD

Event Date: September 13, 2017

Premium IOL is gaining greater aceptance in the cataract population. How does an optometrist council his or her patients on these latest advances in IOL surgery. The ideal candidate for each type of lens will be reviewed. How to manage post operative expectations will be a key factor the success of these lenes.

Wavefront Technology: Topography Guided Laser: Instructor: Keith Liang, MD

Event Date: November 15, 2017

Nidek laser from Japan has the obly FDA approved topography guided excimer ablation in the United States. The CATZ sofeware and Final Fit program will be reviewed on problematic patient discussions.

### **OUTLINE**

### Corneal Cross-Linking: Keith Liang, MD

- 1. Corneal Cross-Linking (CXL) has been used to treat issues like keratoconus and corneal ectasia after LASIK surgery since 1997.
  - a. Keratoconus is a vision disorder that occurs when the normally round cornea (the front part of the eye) becomes thin and irregular (cone) shaped. This abnormal shape prevents the light entering the eye from being focused correctly on the retina and causes distortion of vision.
  - Post-LASIK Corneal Ectasia is corneal weakening creating progressive thinning and steepening of the cornea. This also causes loss of best corrected visual acuity (BCVA).
     Incidence of post-LASIK corneal ectasia is estimated to be 1 in 1000 cases of LASIK surgery
- 2. Corneal cross-linking is a technique which combines Riboflavin with UV light to strengthen chemical bonds in the cornea. The goal of the treatment is to halt progressive and irregular changes in corneal shape. These changes are typically marked by corneal thinning and an increase in the curvatures of the cornea, and often lead to high levels of myopia and astigmatism. The most common form of ectasia is keratoconus and less often ectasia is seen after laser vision correction such as LASIK.
- 3. Treatment improves the biochemical properties of the cornea by strengthening the corneal tissue in the anterior stroma. It is the only procedure available that can stop the progression of keratoconus and strengthen the individual collagen fibers in the cornea.

### KEITH LIANG M.D.

# CORNEAL, CATARACT, GLAUCOMA AND REFRACTIVE SURGEON

3160 J STREET SACRAMENTO, CA 95816–4403 (916) 446–2020 <u>kliang@liangvision.com</u>

PRIVATE PRACTICE

CENTER FOR SIGHT CLINIC AND LASER CENTER 1995 – Present

SACRAMENTO EYE SURGICENTER

Medical Director 1999 – Present

3150 J Street

Sacramento, CA 95816

**EDUCATION** 

CHIEF RESIDENCY LSU – Lions Eye Center 1993 – 1994

Cornea and Refractive Surgery

New Orleans, Louisiana

RESIDENCY Louisiana State Univ. Medical Center

1990 - 1994

New Orleans, Louisiana

INTENRSHIP University of Southern California-

Los Angeles County Medical Center

1989 - 1990

Los Angeles, California

MEDICAL SCHOOL University of Southern California-

**Keck School of Medicine** 

1985 - 1989

Los Angeles, California

UNDERGRADUATE University of California at Los Angeles

1982 - 1985

Los Angeles, California

### **MEMBERSHIPS**

American Academy of Ophthalmology
American Board of Ophthalmology
American Society of Cataract and Refractive Surgery
International Society of Refractive Surgery
New Orleans Academy of Ophthalmology
Association for Research in Vision and Ophthalmology

### **PAPERS**

"Introduction to the 13<sup>th</sup> NIDEK International Refractive Symposium: Cyberspace"
Journal of Refractive Surgery, Volume 25, January (Suppl) 2009

"Vision Quest" – By Reed Parsell/photography by 521Productions.com Sacramento Magazine, 174, 176–177, September 2007

"New NSAID Speeds Resolution of Corneal Ulcer" Ophthalmology Management 49–50, January 2006

"Acrysof Restor IOL Presbyopic lens removal and exchange" Cataract & Refractive Surgery Today Volume 6, No. 4: 66–69, April 2006

"Wavefront-Adjusted Treatments on the Nidek EC-5000" Cataract & Refractive Surgery Today 82-84, August 2004

"Cohesive viscoelastic offers predictable protection – Surgeon depends on high-viscosity agent for 95% of cataract cases" – By Lynda Charters, Reviewed by Keith Liang, M.D. Ophthalmology Times 34, February 15, 2003

"A Comparison of the Nidek EC-5000, Visx S2 and Summit Apex Lasers" Review of Ophthalmology Part 3 of 3: 6–7, July 2001

"Fungal Keratitis from Nylon Lawn Trimmers" American Journal of Ophthalmology 114:437–440, October 1992

"Browns Superior Oblique Tendon syndrome After Baerveldt Implant" Archives of Ophthalmology 110:1368, 1992

### **CLINICAL TRIALS**

<u>CRS – NIDEK</u> Clinical treatment of Astigmatism IDE 1999 – 2000 <u>CLARITY Holos</u>-On going study to develop intraoperative aberrometry for Cataract Surgery. <u>ACOES Cross linking investigation</u>- evaluate efficacy of cornea collagen crosslinking in Keratoconus and Ectasia eyes

<u>CRS/ISRS – LASIK Clinical investigation:</u> Evaluate the efficacy of LASIK and submit data to FDA Device Committee 1996 – 1998

<u>CRS/ISRS – VISX</u> Clinical treatment of Astigmatism and high myopia IDE 1996 – 1997

NIDEK PRK Study Site – worked under supervision of Marguerite McDonald M.D. in New Orleans, LA – 1994

<u>AUTONOMOUS</u> – Preliminary monkey treatments at Tulane vivarium under the direction of Marguerite McDonald M.D. – 1994

### **PRESENTATIONS**

**AAO** Intraoperative Aberrometry –HOLOS for refractive cataract surgery. IOL Predictor 2016

**ASCRS** Intraoperative Aberrometry –HOLOS for refractive cataract surgery 2015

**ASCRS- Topography guided laser-** How to use the CATZ and OATZ software to achieve optimal results- NIDEK 2014

**AAO** – Laser assisted Cataract Surgery- Femto LRI incisions with Lensar laser 2013

**OPTOMETRIC** – Semi-annual half-day lectures to local Optometrists regarding various topics in Ophthalmology – 1995 – 2009 – Sacramento, CA

**OPTOMETRIC** – Bi-monthly dinner lectures to local Optometrists regarding various topics in Ophthalmology – 1995 – 2009 – Sacramento, CA

**CRS** – How to remove a multifocal lens – December, 2007 – Las Vegas, NV

**ASCRS** – Akahoshi technique with the millennium system. Bausch & Lomb – 2005 Washington, D.C.

**ASCRS** – Nidek wavefront adjusted myopic treatments utilizing 6.5/7.5 zones compared to non–wavefront treatments – 2004 San Diego, CA

 $\mathbf{ASCRS}$  – Combination Akahoshi pre-chop and flip technique for cataract surgery – 2001

 $\mathbf{ASCRS} - \mathbf{LASIK}$  Video Grand Rounds: Complications and Management-panel member -1999 - 2001

**AAO** – LASIK Video Grand Rounds: Complications and Management-panel member – 1999 – 2001

**ASCRS** – Comparison of NIDEK, VISX and Summit Lasers for the LASIK treatment of myopic astigmatism – 2000

**ASCRS** – Initial clinical pearls for the insertion of Starr Posterior ICL – a beginning surgeon's experience – 2000

**ASCRS** – Results of Mobile VISX Laser in the LASIK treatment of myopic astigmatism – 1999

**FDA DEVICE PANEL** – Gaithersburg, Maryland - presented LASIK data for FDA approval of LASIK procedure – 1998

**LSU- New Orleans Academy-** Pigmentary Dispersion Glaucoma-Peripheral Iridectomy- clinical trial of P.I. in myopic patients with posterior bowing of iris plane 1992

**ARVO-** Flourescein angiographic Histopathological Correlation of Dihematoporphyrin/Argon Laser Treated Vascualture & Subretina Neovasculariztion 1988

### **CERTIFICATION**

2016- ALLEGRETTO WAVE EYE-Q 400HZ

2015 - HOLOS ABERROMETRY FOR CATARACT SURGERY

2014- ZIEMER S FEMTO LDV CRYSTALLINE-BLADE FREE

2013 - Glaucoma- ISTENT IMPLANT

2012 - LENSAR FEMTOSECOND LASER

2008 - Glaucoma - TRABECUTOME SURGERY

2007 – STAAR INTRAOCULAR CONTACT LENS

2007 - MULTIFOCAL REZOOM LENS

2007 – ASTIGMATISM LENS TORIC

2006 - MULTIFOCAL RESTORE LENS

2006 – VERISYSE INTRAOCULAR CONTACT LENS

2005 - Glaucoma - SELECTIVE LASER TRABECULOPLASY

2004 - ALLEGRETTO EXCIMER LASER SYSTEM

2004 – CRYSTALENS

2000 – LADAR VISION EXCIMER LASER SYSTEM

1999 – NIDEK EXCIMER LASER SYSTEM

1996 – VISX EXCIMER LASER SYSTEM

1995 – SUMMIT EXCIMER LASER SYSTEM