



EYEWIRE

WINTER 2025

ARIZONA ASSOCIATION OF DISPENSING OPTICIANS

Advancing Arizona's
Opticians since 1956

**UNITY, BUILDING OUR FUTURE
TOGETHER.**

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Welcome to 2025! AADO is working on an in person continuing education seminar in mid-May 2025. I hope to see opticians attending en masse!

Arizona has fought off efforts to make our state an unlicensed one for opticians over the past eight years, using legislative funds provided by AADO.

Sit back and picture how your future will look if Arizona ever lost the fight for being a licensed state for opticians. If you work for a big box entity, you could be transferred to a different department, your pay scale could be reduced and your employers could have unqualified employees running optical. The public would be at risk, not receiving a product that meets the industry standards or exceeds the patient's needs in their eyewear. Independent doctors will reduce pay for opticians, making it impossible to make a living wage.

I take pride in my knowledge as a licensed optician, knowing that I am educating my patients and providing them with the latest technology in their eye care needs. This knowledge, for me, is garnered at our continuing education seminars. If licensing goes away in Arizona, continuing education won't be necessary and all will suffer! Opticians, with lower wages and the public with sub standard care! I see apathy now about losing our licensing. I can only imagine the dejection of what losing wages will do to opticians.

Please think about the consequences of not becoming a member of AADO! Your membership provides a legislative fund to fight for and keep Arizona a licensed state! Which equates to keeping a higher wage for Opticians!

Don't lose the ability to provide for your family, join AADO NOW!!

Lucy Dunn, President AADO

Lucy A. Dunn, LDO

Save The Date

Sunday June 1st, 2025

In-Person Spring/Summer ABO-NCLE CE EVENT



DoubleTree by Hilton Phoenix North

10220 North Metro Parkway East, Phoenix, Arizona, 85051

602-997-5900/800-222-TREE

FUN-PRIZES-RAFFLES-EDUCATION-FOOD

Contact AADO For More Information

Director@aado.info

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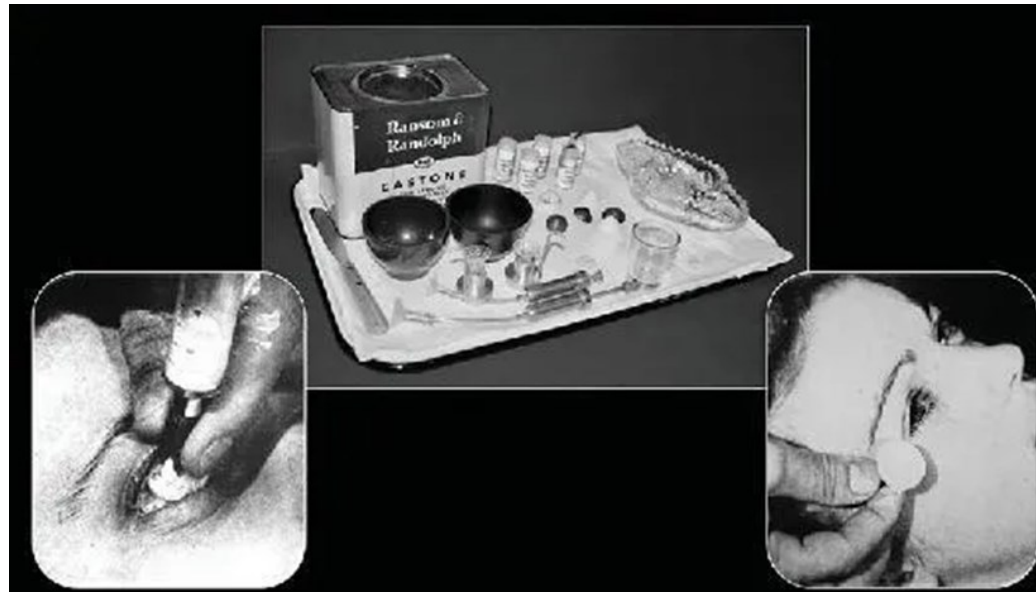


Sept. 2023

HISTORY OF CONTACT LENSES Early CL Manufacturing

PATRICK J. CAROLINE & CRAIG W. NORMAN

IN THE 1920S, the only commercially available contact lenses were German: the Zeiss ground glass lenses manufactured in Jena and the Müller Söhne blown-glass lenses fabricated in Wiesbaden (Bowden, 2009). In 1930, Zeiss released the Zeiss-Dallos scleral design, incorporating design changes suggested by 26-year-old Hungarian ophthalmologist Josef Dallos (Bowden, 2009). Thus began Dallos's lifelong obsession with contact lenses, and from 1930 to 1960 he was the driving force behind much of the worldwide innovation in contact lens design, fitting, and manufacturing. Perhaps Dallos's greatest contribution to the emerging contact lens industry took place in 1933, when, after much experimentation, he perfected a technique for taking impressions (molds) of the eye. The molding compound he used was Negocol (a material derived from seaweed) that was heated to 106° to 108° and injected onto the anesthetized eye (1% tetracaine) (Sabell, 1988). The Negocol "fixed" or set as it cooled, and Dallos converted the mold into a positive cast with a wax-like preparation called Hominite. Later he used a positive made for the individual patient's eyes. In later years, the Negocol was replaced with a molding compound called Moldite and the brass mold was replaced with a positive casting compound called Castone (Mann et al, 1996) (Figure 1). cast made of brass, molding the glass lens over the brass mold and made any necessary adjustments to the fit by grinding (Sabell, 1988). Many historians believe this was the first modern scleral lens custom-



In the late 1930s, Dallos moved from Hungary to England, where he perfected the technique for manufacturing glass sclerals. Soon, individuals from around the world were flocking to London to replicate Dallos's manufacturing and fitting techniques (Mann et al, 1996). One of these individuals **IN THE 1920S**, the only commercially available contact lenses were German: the Zeiss ground glass lenses manufactured in Jena and the Müller Söhne blown-glass lenses fabricated in Wiesbaden (Bowden, 2009). In 1930, Zeiss released the Zeiss-

IN MEMORIAM



John William Lamb LDO

February 16, 1927 – November 20, 2024

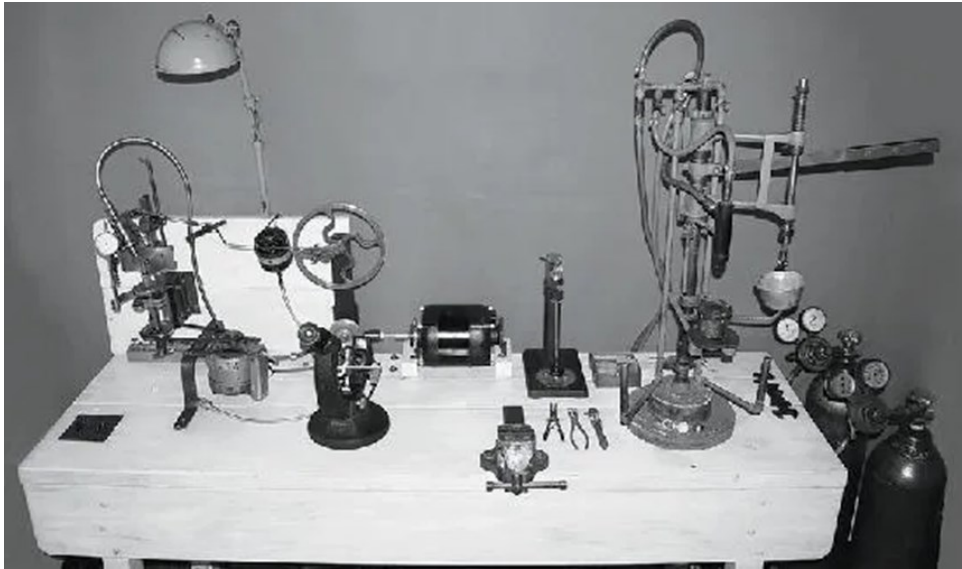
John William Lamb, 97, of Tempe passed away. God called our loving father, grandfather, great-grandfather, uncle, and friend home on Wednesday, November 20, 2024. His quiet kindness and love will be missed by all. John was the longest, continuously licensed optician in the state of Arizona. John's deepest desire was to help people in need, especially with their eye sight. He donated countless hours of his time and materials to be sure people had the glasses they needed to see the world, especially children. No one walked out of his optical businesses without some kind of help with their vision, no matter their ability to pay.

(Continued from page 3)

Dallos scleral design, incorporating design changes suggested by 26-year-old Hungarian ophthalmologist Josef Dallos (Bowden, 2009). Thus began Dallos's lifelong obsession with contact lenses, and from 1930 to 1960 he was the driving force behind much of the worldwide innovation in contact lens design, fitting, and manufacturing. Perhaps Dallos's greatest contribution to the emerging contact lens industry took place in 1933, when, after much experimentation, he perfected a technique for taking impressions (molds) of the eye. The molding compound he used was Negocol (a material derived from seaweed) that was heated to 106° to 108° and injected onto the anesthetized eye (1% tetracaine) (Sabell, 1988). The Negocol "fixed" or set as it cooled, and Dallos converted the mold into a positive cast with a wax-like preparation called Hominite. Later he used a positive cast made of brass, molding the glass lens over the brass mold and made any necessary adjustments to the fit by grinding (Sabell, 1988). Many historians believe this was the first modern scleral lens custom-made for the individual patient's eyes. In later years, the Negocol was replaced with a molding compound called Moldite and the brass mold was replaced with a positive casting compound called Castone (Mann et al, 1996) (Figure 1). Figure 1. The Dallos technique for impression molding of the eye. » was Philip

(Continued on page 5)

Beilby from Perth, Australia, who began manufacturing glass and later plastic contact lenses for industry pioneers Ida Mann, Donald Ezekiel, and Kenneth Brown. Our story now shifts to 2017, when the authors were contacted by Donald Ezekiel and told that Philip Beilby had given him his original “Dallos” scleral lens manufacturing bench, complete with the molding and grinding devices for the fabrication of glass scleral lenses.



(Figure 2). The bench consists of the molding device in which a square piece of glass was heated through a mixture of natural gas and oxygen.

As the glass began to sag and become malleable, the brass mold was plunged into the glass and left to cool (Figure 3A available online). The residual glass was removed with a grindstone until the appropriate diameter had been achieved. The edges were rounded and polished and, finally, the power was ground onto the anterior surface of the glass lens (Figure 3B available online). The bench was donated to the Contact Lens Museum in Oregon, where today it stands as the only remaining glass scleral lens manufacturing apparatus in the world. Full references are available with the online version of this article.

Patrick Caroline is an associate professor of optometry at Pacific University. He is co-curator of the Contact Lens Museum. He is a consultant or advisor to Katt Inc.

Craig Norman is an adjunct faculty member at the Michigan College of Optometry’s Vision Research Institute. He is co-curator of the Contact Lens Museum. He has received speaking honoraria or consulting fees from ABB Optical Group, Bausch Medical, Contamac, Euclid Systems, GPLI, Lentechs, Oculus USA, and Valley Contax.

AADO Eye Trivia

A
Z A
S S O
C O F D
I S P E N
S I N G O P
T I C I A N S

www.eyechartmaker.com

How does pregnancy affect the eyes?

Hormones that support a developing fetus cause fluid retention. This extra fluid changes your eyes in ways that may result in blurry vision. They include: Changes to the shape or thickness of your corneas.



When England's famous London Bridge was replaced in the 190s, the original was purchased, dismantled, shipped stone by stone and reconstructed in Lake Havasu City, Arizona, where it still stands today.

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National CE Day

March 13, 2025

5PM PST, 7PM CST, 8PM EST

ANSI Standards

WITH

Michael Vitale

**See your state
association for
ticket
information!**



**State Associations
contact for
participation
information**



AADO SPECIAL EVENT

March 13, 2025 5:00PM PST

ANSI Standards with Michael Vitale

1hr ABO CE via ZOOM

AADO Members- \$15/ Non-members- \$25

Sponsored by D & D Management & AADO

Current ABO-NCLE CE requirements for certification are:

- * ABO only = 12hrs NCLE only = 18hrs Dual certification = 21Hrs
- * ABO-NCLE accepts Arizona's 12Hrs requirement for approval.
- * If Arizona should ever lose our LDO Statue you would need to obtain an additional 9Hrs of CE at your cost to remain certified! Membership in AADO would cost less!!

Support AADO- Stay Certified/Keep Your License!

AADO members receive a FREE Rules and Regulations on-line test for certification. Can't find those CEs you did?

AADO CE is digital and can be retrieved if necessary!

Attention all ABO-NCLE Certified Opticians

AADO CE is approved for your ABO-NCLE certification requirements. Become an affiliate member and enjoy member price savings on education.



AADO is Proud to Offer:

Virtual Opticians Learning Track

The Virtual Opticians Learning Track (VOLT) is a clear, concise, and comprehensive training program offering a student-centered, multilevel approach to learning opticianry. Our distinctive program is a blended style of learning that includes virtual modules, instructional videos, interactive knowledge checks, and access to facilitators. If you are in a sponsored apprenticeship, involved in on-the-job training, or a clinical student entering optometry, the VOLT program will meet your individual needs from the basics to mastering optics and opticianry. Whether you are an individual or an employer, IO Tech's VOLT program is your best choice.

IO Tech provides you with a clear, comprehensive training resource at an affordable price, because you deserve access to a quality learning experience.

VOLT includes 5 comprehensive units, comprised of 23 modules, over 138 lessons, and over 1000 questions. See below to view the VOLT outline.

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What Makes IO Tech Different?

We are opticians training opticians—we know what you need to learn and how to advance your knowledge and skills. We are dispensing opticians that collaborated with the best in opticianry education, along with learning analysts to produce **VOLT—the Virtual Opticians Learning Track.**

**How VOLT Bridges the Gap—
In-person to online**

- Provide a sequential learning process at the most granular level possible
- Self-paced—online & interactive that mirrors and compliments in-person education
- Introduce information that makes sense as part of the eyecare and vision care team
- **Extensive ABO & NCLE preparation**—questions with solutions to problems in real time. Removes the guesswork to which equation and why
- 5 Learning Tracks, 138 lessons, plus extensive instructional videos on tools and adjustments—much needed lessons
- Sequential and gated units to progress forward
- Over 1,000 questions
- Rx analysis and lens designs broken down in the simplest form
- Real life practice role-modeling where you learn the how and the why of product selection
- Earn a Certificate of Completion in Ophthalmic

**New to this Learning Space:
A BONUS TRACK**

Created to introduce our candidates and sponsors to the latest in technology for products, services and resources available in our industry. This is presented as an ungated Track for immediate review upon purchase.

**Comprehensive Contact Lens Unit
included but optional**

**VOLT is the FIRST PROGRAM to offer
a Mentor/Sponsor Track**

We want to guide & support the mentor/sponsor too by offering a refresher or an in-depth review for the advisors who provide guidance.

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