
OSSC eNewsletter - June 2020

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Reply-To: OpticsAge@gmail.com

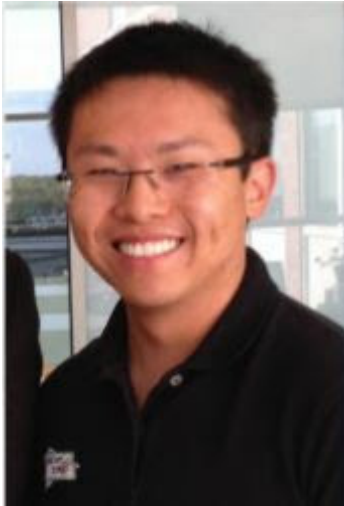
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Newsletter Volume 26, Number 9

June 2020



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From the President:

Dear OSSC Membership and Friends,

Hard to believe, we are now already at the endpoint of our program year, capping what is sure to be one of the most memorable years in the OSSC history. 2019 – 2020 was met with a slew of unique challenges that our (and many other organizations) have never had to confront prior. We started off with the highest attended OSSC meeting in a decade with our amazing tour and talk on the James Webb Space Telescope at Northrop Grumman Space Park. At the same time, we had to cancel our first meeting in history (schedule to be at JPL in March), and transition to online only for the rest of the year. In the end, through strong leadership and the dedicated efforts of our membership, the OSSC is poised to come out of this pandemic as strong as it's ever been!

At the same time, we would be tone deaf not to acknowledge the issues that have lead to the widespread demonstrations around the country (and the world). I want to echo the sentiments expressed by our national partners (OSA and SPIE) as we are committed to creating an organization in which everyone feels welcome regardless of their background.

I would like to thank Dr. Alexander Fast of UC Irvine's Beckham Laser Institute for his great talk last month! Despite the unfortunate disruptions that occurred, we our membership was treated to a presentation that I'm sure we'll be hearing about

in the future! That said, we have instituted a new set of procedure for our online meetings that I have lined out in an email blast that has recently been sent. Please make sure to register for our meeting on our website to ensure that you will get the login information for our great talk with Don Pearson of Äpre Instruments on Wednesday June 10th, at 6:00PM PST.

It is also with great sadness that I have to announce the passing of one of our longtime members, Dr. Antonio Méndez, Ph.D. Antonio was a long time Board of Directors member, and his loyalty, dedication, enthusiasm, and insight will be sorely missed. No amount of words can adequately summarize Antonio's contributions to the optics and photonics community, so please visit our website for our tribute and his obituary. On behalf of the OSSC Leadership, we send our deepest condolences to Antonio's family, and will honor him the next time we are able to gather in person.

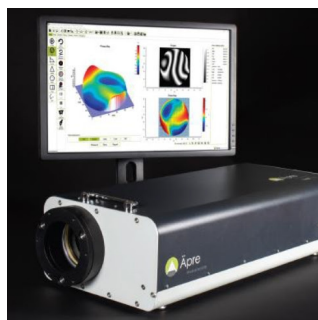
Finally, I want to remind everyone that we have our annual OSSC Elections coming up! We have a great roster of candidates (as we do every year), so please make sure you vote on our website! Just a reminder, we will have a separate OSSC Business/Election Meeting later this month (separate from our talk on 06/10). This meeting will be short (< 30mins), and will include our standard presentations such as our Secretary and Treasurer's report, in addition to announcing next year's Board of Directors. Please do your best to attend, as we need quorum of members to have a certified election!

In closing, I would like to reiterate how honored I am to have been able to serve as your President for the second time. No words can express that gratitude that I have for being entrusted with the premier OSA Subchapter in the world, a fact that I strongly stand behind. This is only possible due to the continuing support of our great membership base, and for that you have my enternal thanks! Although this year didn't go exactly as we had planned or hoped, the fact that we have stuck together through these trying times gives me great pride in how strong our society is. I'm looking forward to being a part of this great community long into the future, and contributing all that I can to ensure that it stays as strong as it has even been!

Thanks you so much everyone! I'm looking forward to seeing all of you at our last two meetings, and in person before we know it!

Humbly yours,

Bo Wang, President 2019 - 2020



Upcoming OSSC Meeting
Wednesday 10 June
On-line Webinar:
OSSC Annual Meeting
and a talk on
Spectrally Controlled Interferometry
for the
Measurement of Flat and Spherical
Optics
by
Donald Pearson II, Äpre Instruments

Abstract: Conventional interferometry is widely used to measure spherical and flat surfaces with nanometer level precision but it is often plagued by back or multiple surface reflections. At this meeting a new method of isolating the measurement surface by controlling the spectral properties of the source will be described (Spectrally Controlled



OSSC Annual Meeting: 6:00pm
OSSC's recently nominated Board of Directors for the 2020-2021 year will be presented along with Membership and Treasury reports.
Dinner: On your own
Presentation: 6:30pm
Limit may be 150 people
Please register by 5 June
No fee for this on-line webinar
Webinar Log-in details will be emailed just before Meeting.
Register here
Download Flyer and share with friends and colleagues!

Interferometry - SCI). Using spectral modulation of the interferometer's source enables formation of localized fringes where the optical path difference is non-zero. As a consequence, it becomes possible to form white-light like fringes in common path interferometers, such as the Fizeau or Twyman-Green. ÄPRE's SCI technology does not require mechanical phase shifting, resulting in simpler instruments and offers the ability to upgrade existing interferometers. Furthermore, SCI allows absolute measurement of distance, including radius of curvature of lenses, in a single setup with the possibility of improving the throughput and removing some of the pitfalls of inaccurate measurements.

In Memorium

The **Society** mourns the loss of our good friend and colleague Dr. Antonio Méndez. An innovator, educator and mentor, Antonio served the Southern California optical community throughout his decades-long career. He will be missed.

Private services have been arranged for family. In lieu of flowers, the family suggests donations to a charity of the donor's choice.

Share Dr. Méndez's Obituary with colleagues

Antonio's OSSC Bio



From the Editor:

Hello OSSC members and fellow readers,

I would like to take this time and space to thank Bo for coming into my life and the lives of the OSSC Leaders and Members and many others that he has had such a positive impact; especially those at Vital Link OC and all the students they help.

This issue of the OSSC's Images eNewsletter will be my last contribution and I will leave this and more to the next set of OSSC officers and leaders as it is now a time for renewal. It is my belief that the current situation with the COVID-19 and protests across the country will subside in the coming weeks and months and a rebirth of some kind will take place. I am not sure where the new OSSC Leadership will go with this eNewsletter, as the Social Media platforms Bo has put in place may better serve the community; I am not a Social Media person; so I will leave that in your hands.



For now, I will take a small bit of time and space to share with you how and when my OSSC journey started; now that it is time to draw it to a close.

Below, is an image of my California Community College Teaching Credential from 1989, when I taught my first course at Pasadena City College titled 'Medical Applications of Lasers'. I was an Optical Engineer and Project Leader working for IOLAB – a Johnson & Johnson Company at that time. Subsequently, in 1991, I wrote a letter (on my IOLAB letterhead) to Prof. Roy McCord of Irvine Valley College's Laser Electro-optics program. This is basically the same program that my good friend Dr. Brian Monacelli took over in 2008 and is now moving to Pasadena City College. Then in early 1993, my IOLAB colleague and friend, Mark Bandhauer (still an OSSC Member and Past President) asked me to give a talk about our work at IOLAB and we also provided tours of our facilities.

In the Fall of 1995, I was appointed to the OSSC Board of Directors as the Scholarship Chair and subsequently served as the Programs Chair in 1996-1997 and was elected Councilor in 1997-1998. After that I took a few years off to spend time with our Son who was going through Middle School, Boy Scouts and High School; before I became active again in the OSSC in 2003, when I also Founded the Optics Institute of Southern California (OISC) to do more Optics Outreach Programs.

During this time I was both a volunteer at Irvine Valley Colleges' (IVC) CACT @ ATEP Optics and Laser program and a part time instructor. In the Fall of 2007 I became the OSSC President, we had moved the IVC program to the ATEP campus. At the end of 2007 I subsequently left the IVC program to start the UC Irvine Optical Engineering & Instrument Design Programs, which began in the Fall of 2009. (See the Ball Lens Lamp animation below from 2012!!)

So it has been a good run and I thank you all for the opportunity to serve the OSSC; which has been my professional home for over 25 years. The OSSC is in very good hands, despite the very unusual circumstances our country and our world seems to find itself.

Be Well, Do Good Works & Keep in Touch,

Sincerely,

Donn M. Silberman

OSSC Past President & Fellow

Current OSSC Newsletter Editor



March 1, 1991



Roy McCord
Irvine Valley College

Dear Roy,

The enclosed resume and instructor certificate can serve as an introduction to my qualifications to be an instructor in the laser (optics) program at IVC. In addition, I have recently just finished teaching a course at Pasadena City College titled Medical Laser Applications and Biomedical Optics.

I would like to become involved with the program at IVC to help students learn about lasers and optics, and help you further develop the program. I really enjoy working with students while they discover new interests, and I would like the opportunity to help develop a laser/optics program in the Saddleback area.

I will be taking a day off work in April to bring a laser and some literature to Moulton Elementary School, and I would like to meet with you on that day.

Please call me at your convenience to acknowledge the receipt of this letter, and discuss dates that we might meet.

Sincerely,

Don
Donn M. Silberman

phone (714) 399-1326 work
(714) 581-2579 home



OPTICAL SOCIETY
OF SOUTHERN CALIFORNIA

MEETING NOTICE

IOLAB Plant Tour / Lecture by Donn M. Silberman Wednesday, March 3, 1993 at 6:30 p.m.



SPEAKER: Donn M. Silberman, received his B.S. in Engineering Physics (with honors in Physics) from the University of Arizona in 1983. During his school years at the U of A, he worked at the Optical Sciences Center, taught undergraduate physics labs, and was president of the local Society of Physics Students chapter. His senior honors project, "Optical Levitation", was published in the Journal of Undergraduate Research in Physics. He then worked at Melles Griet Laser Products Division developing the green and infrared HeNe lasers. In 1984 he began working at Spectron Development Laboratories researching particle sizing and laser velocimetry. This work led to a position at American Hospital Supply Corp. (Baxter) where he investigated in-vivo Doppler laser velocimetry and other fiber optic biomedical sensors. Currently, he is a Sr. R&D (Optical) Engineer and Optics Group Leader at IOLAB Corp., a Johnson & Johnson Company, where he leads the companies multifocal intraocular lens (IOL) projects. He has given presentations at SPIE and OSA conferences on Image Quality Evaluation of Multifocal Intraocular Lenses, and hold two patents on novel multifocal IOL designs.

SUBJECT: IOL AB, a Johnson & Johnson Company is committed to the continuous improvement of vision care and the surgical treatment of cataracts. IOLAB Corp. has taken a leadership role in developing multifocal IOLs for pseudophakic patients. These lenses have the ability to correct for both near and distance vision after cataract extraction. This represents a significant improvement over monofocal IOLs that require the patients to wear eye glasses most of the time. A presentation on this technology will follow an introductory video on cataracts, eye surgery, and IOL manufacturing technologies. A tour of the IOLAB manufacturing facility will complete the evening's proceedings. Spouses and guests with an interest in eye care and vision are encouraged to attend.

BUSINESS: A new job listing service has been made available for Corporate Members who have positions available. Please call Tols Desile at JPL at (818) 354-9517 to list your openings. Job openings will be announced at the following meeting.

PLACE: IOLAB Corp., 300 IOLAB Drive, Claremont, CA (Map on back)

TIME: Wednesday, March 3, 1993. Dinner, cafeteria style (full meal) served at 6:30 p.m. The speaker will follow at approximately 7:00 p.m. Tour from about 7:15 - 7:30 p.m. No cameras or recording equipment allowed.

RSVP: Call Sherron or Gale at ORA, (818) 795-9101. **Please call in reservations (with all names) for tour (even if not eating dinner) by Friday, March 3.** As always, guests and spouses are most welcome. Dinner is \$15.00. For meeting or membership information, please call the OSSC hotline at (909) 399-1799 x6300 (Do not use # key).

President	Vice President	Treasurer	Past President
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Ball Lens Lamp



UCIrvine | Extension

The above animation was used in my Geometric Optics course at UC Irvine starting back in 2012. My wife had purchased a pair of these lamps for our night stands and we still have them today. The idea was to convey the topic of Ball Lenses and flat mirrors together as a simple optical assembly; with a nice object (the OPN magazine cover) to show how the images are created. I hope you enjoy this short vignette.



UCI Optical Engineering 10 yrs - Photonics Spectra
from Sept 2019 Photonics Spectra Magazine

The following courses are part of **Certificate Programs** in:

Optical Engineering and **Optical Instrument Design**

There was an Information Session - Monday 19 August

OSSC Fellow Donn Silberman was the guest speaker.

[Recorded Session Here](#)

Summer 2020 courses began in Early July:
Advanced Lens Design
Optomechanical Component Design
Introduction to Fiber Optics

*Five Year Program Review in progress
now - your input is requested.*

*What are the current trends in the industry that you see
emerging that are going to change the way we look at
Optics?*

*What are some things we can be doing for future
outreach?*

*We are also looking for either one person or a group of
people to do a lunch time webinar series (3-4) over a
year period of time on Hot and Trending Topics in
Optics. If you may be interested in doing this please let
me know. We want to serve the local community along
with our student groups in the programs through these.
Please email your thoughts directly to: Jennifer Spitzer
Mortensen j.mortensen@uci.edu*

Past UCI Optical Engineering Webinars

[UCI DCE Financial Aid for Optics Programs](#)

Go to the links above to learn more about the
courses and programs.

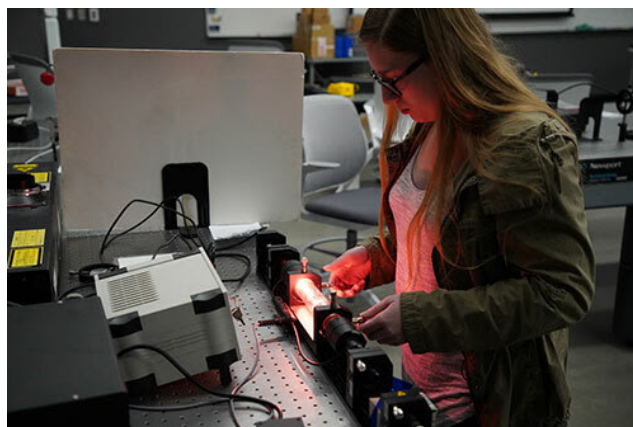
15% discount for **OSSC** Members on courses
Required for a Certificate.

Email: **Kadie Heck**

with confirmed **OSSC** Membership
to receive discount code.

[Instructors Wanted to Teach:](#)

[Optical Engineering and Optical Instrument Design!](#)



Laser Tech Training Program

With the current situation regarding On-Campus Educational instruction, the Laser Tech Training Program is planned to be moved to Pasadena City College this summer with courses beginning this Fall. This, however is subject to change depending of circumstances.

Check back here over the coming months to see updates. The following notes will remain true.

Laser and Photonics Technology instructors lead hands-on, laboratory-driven classes, utilizing state-of-the-art industrial equipment, based on the industry-guided photonics curricula written by industry professionals. In addition to laboratory skills, students are offered one-on-one support and career advice, including résumé and LinkedIn profile building.

For Information Contact:

Prof. Brian Monacelli, Ph.D.

[Brian's email](#)

Read a related article in **SPIE's** new
Photonics Focus magazine titled....

[Where is the New Collar Workforce?](#)

[Optics companies large and small face a hiring
shortage
for skilled technicians](#)

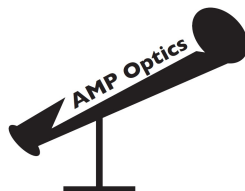
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WEBSITE SPONSORS



Website Sponsors are *Corporate Members* that make an additional donation to support the **OSSC.ORG** website. They enjoy all the **benefits** of *Corporate Membership* AND have their company logo and link prominently displayed along the left side of our website. Website Sponsorship dues are \$200 per year. **New Members** may select the Website Sponsor option when applying for membership using the link below. **Current Members** may select the Website Sponsor option when renewing their membership



MOTION | POSITIONING



during the April to June renewal period or at other times by contacting the [Membership Chair](#).
All Website Sponsors may contact the [Website Team](#) to add or update their company link or logo or to resolve other website issues.
For general membership questions, please contact the [Membership Chair](#).
Become a [Corporate Member or Website Sponsor](#)!

Corporate Members



OSSC Corporate Members display their products at the December 2012 Corporate Member Appreciation Meeting.

Corporate Members benefit the **Optical Society of Southern California** through their generous donations of time, talent and financial resources. Corporate Membership dues are \$100 per year.

Aerotech	Inrad Optics	Physik Instrumente
Alluxa	Isuzu Glass	Precision Glass & Optics
AMP Optics	Laser Components	Precision Optical
Åpre Instruments	Mark Optics	Quartus Engineering
AVS Southern California Chapter	Mendez R & D Associates	Raytheon Space and Airborne Systems
Cambridge Technology	Micro Laser Systems	Reynard Corporation
Campbell Engineering	Mindrum Precision	Spectrum Scientific
Collins Optronics	Newport Corporation	Starrett Metrology Systems
Curt Deckert Associates	Newport Thin Film Laboratory	Supply Chain Optics
Diverse Optics	Ohara Corporation	Synopsys
e-Las Americas	Optic Systems Group	Trio Optics
Facebook Connectivity	Optikos	II-VI Optical Systems
4D Technology	Optiforms	UC Irvine Division of Continuing Education
Hadland Imaging	OptoSigma	Zemax
Infinite Optics		

This list of OSA Student Chapters in California is current as of Jan 1, 2020.

The OSSC Board would like one volunteer to reach out one of these OSA / SPIE Student Chapters and become a contact that one college or university student chapter and optics community. Please contact Donn Silberman if you would like to v

- California Institute of Technology - OSA Student Chapter
- Cal Poly Pomona Optics & Photonics Club
- Stanford University, Stanford Optical Society
- University of California, Berkeley, "PhotoBears" (Joint OSA, SPIE & IEEE Student Chapter)
- University of California, Riverside, Photonics Society (Joint SPIE & OSA Student Chapter)
- University of California, San Diego, Light Quantum at UCSD
- University of California, Santa Barbara, Photonics Society, (OSA, SPIE & IEEE Student Chapter)
- Irvine Valley College (IVC) Student Chapter (not active)
- San Francisco State University, OSA Student Chapter (not active)
- University of California, Davis, Optics Club (not active)
- University of California, Irvine, Photonics@UCS (Joint OSA & SPIE Student Chapter) (not active)
- University of California, Los Angeles (Joint OSA & SPIE Student Chapter) (not active)
- University of California, Merced (not active)



The OSSC Optics Outreach Programs have had a long history of success over many years. Our current outreach leader, Anthony E. Ocegüera, from Cal Poly Pomona's Optics & Photonics Club, has helped us continue reaching many young people around Southern California. This current academic year outreach programs have been greatly reduced due to the COVID-19, so we need to bring our efforts on-line. Please Check out this new offering from OSA and pass it on to many. [Optics 4 Kids](#)

WELCOME NEW MEMBERS

Manoj Bikumandla
Tara Holloway
Ken S Kidwell
Marjorie Lui
Josue Monterrosa
Andrew D Nelson
Patrick J O'Hara
Cristobal Ramon
Michael Rezac
Blair L Unger
Benjamin W White

OSSC welcomes *Individual* and *Corporate*
Members who joined (or rejoined) in the last 60 days.

***We value your membership
and appreciate your support!***



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