

Newsletter



Alexandre Chan, PharmD, MPH, FCCP, FISO, BCPS, BCOP, APh
Professor and Chair

The UCI Department of Clinical Pharmacy Practice (DCPP) would like to welcome everyone back to campus! We hope you all took the time to relax, reflect, and recharge this summer. This year the School of Pharmacy & Pharmaceutical Sciences will welcome its third Doctor of Pharmacy cohort, class of 2027.

The DCPP had a very busy summer. We would first like to congratulate Dr. Megan Nguyen for being promoted to Health Sciences Clinical Professor, as of July 1, 2023. Then in August, we welcomed Dr. Kevin Wang, who joined us as an Associate Professor of Teaching. Additionally, Dr. Shawn Griffin and Dr. Keri Hurley, have recently received funding for their research projects. Several of our clinical faculty made a major presence at the Asian Conference on Clinical Pharmacy meeting in Haiphong, Vietnam. Our faculty are truly making great strides!

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In this newsletter, you will learn more about our clinical faculty and their innovative work through their clinical services, patient-centered research, and roles within professional organizations. Dr. Christine Cadiz and Dr. Herman Johannesmeyer will introduce us to their involvement with professional organizations. Dr. Larry Lovett will be sharing the second part of his two-part series on the history of Clinical Pharmacy and how far we have come.

Please mark your calendars for our upcoming Department Seminar on October 10th from noon-1pm and for our APPE + Preceptor Fair scheduled on November 8th from 5-8pm. There are more details included in this newsletter. I hope to see you there! ●

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Involvement with Professional Organizations

Christine Cadiz, PharmD
Health Sciences Associate Clinical Professor



Chair of the Student and Postgraduate Trainee Committee

Over the course of my career in pharmacy, I have highly valued my involvement in professional organizations. These experiences provide a great opportunity for professional growth, advancement of the profession, and giving back to the community.

This year, I am serving as Chair of the Student and Postgraduate Trainee Committee in the Education and Training PRN within the American College of Clinical Pharmacy (ACCP). The committee supports students and post-graduate fellows with opportunities for scholarships, engagement with pharmacists, and involvement with committee initiatives. Additionally, the PRN put on a webinar specifically designed to address the needs of learners in the modern day – are our traditional methods serving our learners in the best way possible? This year also marks the first of my three-year term on the Board of Directors of the California Society of Health-Systems Pharmacists. One of my recent professional goals has been to learn more about advocacy and policy development. As the board liaison to the Government Affairs Advisory Committee, I have been able to review bills before the state legislature that are of interest to the organization, participate in discussions to recommend CSHP positions and priorities, and vote on CSHP positions for legislative action on bills that affect pharmacy practice. With my

continued involvement within pharmacy professional service, I look forward to continuing to work alongside brilliant and passionate colleagues and sharing this passion for advancement of the pharmacy profession with students and new practitioners. ●

Involvement with Orange County Society of Health-System Pharmacists

Herman Johannesmeyer, PharmD
Health Sciences Assistant Clinical Professor

Staying involved in professional organizations has been helpful for me to build relationships and meet new people. Sometimes this manifests as meeting someone on the other side of the world; however, in my experience, organizational involvement is also a great way to meet people in our own professional “backyard.”

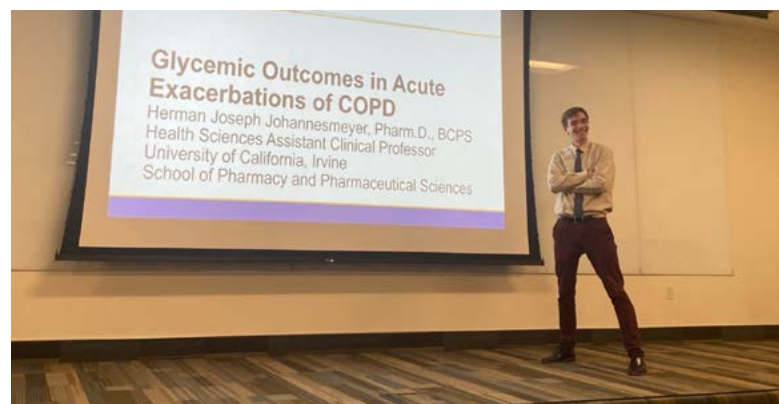
One of the professional organizations that I have been involved in is the Orange County Society of



Health-System Pharmacists (OCSHP), an affiliate chapter of the California Society of Health System Pharmacists (CSHP). Over the years I've held a number of different positions within OCSHP, including Event Outreach and Relations Chair, Membership Chair, Delegate to the CSHP House of Delegates, and President. My current role within OCSHP is that of Director at Large. In this role, I have the freedom of broadly giving advice to the OCSHP board of directors on what initiatives could be beneficial for both the Society and, by extension, pharmacists within the Orange County area. This can include social meetups, educational sessions, or engaging in health fairs, to name a few.

A few salient activities that I have been actively engaged in through OCSHP over the last few months have been health service and medical education. On May 13th, 2023, OCSHP worked alongside the UCI pre-health club AED to provide

blood pressure and blood glucose screenings at The Hub OC, a community resource center in Orange, CA. A few UCI Doctor of Pharmacy students even came out to help! Additionally, on July 25th, I gave a continuing education talk to our OCSHP members on glycemic outcomes during acute exacerbations of chronic obstructive pulmonary disease. ●



UCI Clinical Pharmacy Faculty Chaired and Presented Sessions at the **22nd Asian Conference on Clinical Pharmacy Meeting** in Haiphong, Vietnam



Zot! Zot! Zot!

A team of faculty from DCPP chaired and presented education sessions at the Asian Conference on Clinical Pharmacy meeting in Haiphong, Vietnam from July 13-15, 2023. This was the 22nd conference, has been hosted annually by different countries around Asia. Approximately 300 delegates from 14 countries attended the conference in Vietnam.

We are happy to report that faculty members from DCPP were heavily involved at the conference: Dr. Lee Nguyen and Dr. Megan Nguyen co-organized and conducted an Antibiotic Stewardship pre-conference workshop on July 12, 2023.



Dr. Aya Ozaki, Dr. Christine Cadiz, Dr. Alex Chan, and Dr. Joyce Lee spoke at various plenary and parallel sessions at the main conference. Over the conference, attendees were very interested and impressed with the quality of the presentations

given by UCI faculty. Many faculty members have also fostered potential research and practice collaborations with faculty and pharmacists attending the conference. ●



Dr. Megan Nguyen and Dr. Lee Nguyen co-organized and spoke at the pre-conference workshop.



Dr. Aya Ozaki spoke to a large crowd about cardiovascular diseases in a parallel session.



Plenary session given by Dr. Joyce Lee.



Dr. Christine Cadiz served as a co-chair and a speaker during a parallel session.



Dr. Alex Chan served as a Board Member on the ACCP Board.

The PharmD – Born in California

Larry Lovett, PharmD



We know from our textbooks that colleges of pharmacy were first established in East Coast urban centers in the United States, i.e., Philadelphia in 1821 and Boston in 1823. But did you know that like blue jeans, fortune cookies, the Internet, Mickey Mouse, and skateboarding, the modern Doctor of Pharmacy degree is a product of California? California has played a significant role in the advancement of pharmacy practice over the last seven decades particularly in the area of Clinical Pharmacy, as outlined in the last DCPD Newsletter.

An early version of the Doctor of Pharmacy degree was first introduced at the Philadelphia College of Pharmacy in 1895 for students who elected to take an additional, third year of postgraduate pharmaceutical science coursework. By 1915, the 3-year Doctor of Pharmacy was known as “PharD”,

while four-year pharmacist graduates were awarded a Bachelor of Science. The PharD approach was not supported by the American Association of Colleges of Pharmacy (AACP) and was later abandoned.¹

In 1948 AACP authorized colleges of pharmacy to award an elective Doctor of Pharmacy (PharmD) degree after the completion of a six-year undergraduate program. At the time, the entry-level pharmacist degree was the five-year B.S.Pharm. The University of Southern California (USC) School of Pharmacy, in 1950, became the first school to offer the modern six-year PharmD degree that included two years of prerequisites and a four-year pharmacy curriculum, however, this was not a clinically-oriented program. The University of California San Francisco (UCSF) School of Pharmacy also adopted the 6-year (non-clinical) PharmD in 1954. By 1960, USC and UCSF awarded about 100 PharmD degrees. In 1968, UCSF required didactic therapeutics courses for their PharmD students. By the late 1960s, UCSF and USC were beginning to graduate clinically-trained pharmacists.²

By 1970, there were seven pharmacy schools in the US that awarded the PharmD to about 240 graduates. There was also increasing interest in post-graduate pharmacy residencies, whereby ASHP-accredited programs graduated about 100 pharmacy residents that same year. The Accreditation Council for Pharmacy Education (ACPE) fully accredited ten PharmD programs in 1977, including those at UCSF, USC, and UOP. Supercharged by federal funding and a mandate for clinical training of student pharmacists, the transition to PharmD programs was rapidly



spreading across the country following California's example. Within a sole entry-level degree by 2000.³

While discussing the evolution of PharmD programs in California, we need to acknowledge the influence of two remarkable change agents. There are others who contributed significantly, but two individuals, Margaret M. McCarron, MD at USC and Mary Anne Koda-Kimble, PharmD at UCSF, are distinguished in helping to produce high-quality, clinically-trained pharmacists in California. Margaret McCarron was a devoted physician, revered teacher, and mentor to thousands of physicians and pharmacists at USC for over 42 years. As Associate Medical Director of the LAC+USC Medical Center and Professor at the USC School of Pharmacy, Dr. McCarron's innovative teaching of pharmacy students reinforced the transition to Clinical Pharmacy as she vigorously endorsed the role of pharmacists on the health-care team. She demanded that pharmacists begin "thinking like physicians" while evaluating patients, monitoring therapies, interpreting lab results, and adjusting a patient's therapy.⁴ Mary Anne Koda-Kimble graduated from UCSF and joined their new clinical faculty who drove the conversion to the pioneering clinical pharmacy practice and PharmD curriculum as described in the last DCPN Newsletter. Dr. Koda-Kimble skillfully trained student pharmacists in therapeutics, while assuming increasingly more administrative responsibility until she was ultimately appointed Dean of the School of Pharmacy...the first female dean of a top-ranked pharmacy school. For 14 years, Dr. Koda-Kimble brought leadership to PharmD education and practice. She is a founding editor of *Applied Therapeutics: The Clinical Use of Drugs*. That was the first clinical pharmacy textbook based on patient case histories and became the gold standard for patient-centered drug therapeutics.⁵

There was a time in pharmacy history when pharmacists were prohibited from discussing



Margaret M. McCarron, MD




Mary Anne Koda-Kimble, PharmD

the contents of a prescription with patients and pharmacists could not place the drug name on a prescription label. This was considered a violation of the hallowed physician-patient relationship! Now pharmacists are mandated by state and federal laws to counsel patients about their medications. This author recalls debates between pharmacists in the 1970s around whether pharmacists should abandon the sale of cigarettes and tobacco products. Today, pharmacists are taking a lead role in managing smoking cessation programs. From soda fountains and merchandizing to pharmaceutical care, the expansion of community-based clinical pharmacy practice in California and across the country since the 1980s has been amazing.³ California pharmacists are now leaders in administering immunizations (most notably COVID-19 vaccines); managing MTM; and furnishing nicotine replacement therapy, self-administered hormonal and emergency contraception, HIV PrEP and PEP, naloxone, Paxlovid, and travel medications. Look how far we've come as PharmDs!

The UCI School of Pharmacy & Pharmaceutical Sciences will award their first PharmD degrees to the inaugural Class of 2025. This is a historic achievement. UCI has joined the 75-year history of innovative PharmD education in California. As Dean Jan Hirsch is fond of sharing, "*Audentes fortuna iuvat*. Fortune favors the bold." We look forward to watching our UCI PharmD graduates become future leaders and change agents in pharmacy practice. Go forth and be bold!





Larry Lovett, PharmD is a Volunteer Clinical Professor with the UCI Department of Clinical Pharmacy Practice. He was the Lead Pharmacist of the successful UCI Health-Bren Center COVID-19 Vaccination Program. Dr. Lovett earned his PharmD at UC San Francisco. He was one of the first clinically-trained pharmacists to complete the hospital pharmacy residency at UCI Medical Center. Dr. Lovett joined Long Beach Memorial Medical Center as a clinical pharmacist, moved up to become Director of Pharmacy, and later created the first Discharge Pharmacist position over a four-decade career. He was instrumental in developing the Pharmacy Technician Training Program at Cerritos College. ●

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UCI School of Pharmacy & Pharmaceutical Sciences

APPE + Preceptor Fair Class of 2025

Network with students as they prepare for APPEs & enjoy a private reception with UCI SPPS leadership

Nov 8, 2023 | 5-8p

UCI College of Health Sciences

856 Health Sciences Road, Irvine CA

