

One who mixes ingredients, drugs or medications: a pharmacist

Kāwili Lā'au

The Daniel K. Inouye College of Pharmacy at the University of Hawai'i at Hilo
Summer 2018 • Volume 10, Issue 4



The Hōkūle'a Influence *Congratulations Class of 2018*



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HILO

Dean's Message



Readers may wonder what does a canoe using ancient wayfinding techniques have to do with graduating pharmacists? In my view, the visit to Hilo from the famed Hōkūlea one month before the Class of 2018 departs for the world to start their careers is significant for a few reasons.

The Hōkūlea was constructed in order to revitalize Hawaiian culture and discover how the Polynesian people explored the Pacific. UH Hilo's College of Pharmacy was constructed in order to revitalize the economy and community of Hawai'i Island while discovering new ways to give the community something for which to be proud. As Daniel K. Inouye said, he wanted to ensure that every island had a center of excellence, and he attributed that moniker to our College. Just as the Hōkūlea broke new ground by being the first voyaging canoe to sail with all Polynesian navigation, the College of Pharmacy set records for meeting milestone after milestone to become the first and only pharmacy school in the Pacific region. Both signify events that were uncertain in their future but dedicated, skilled leaders made them work.

Stories in this issue further show the connection by demonstrating how we continue the voyage with new, trailblazing activities. Certainly the graduation photos of the Class of 2018 show happy faces, but behind that, we are sending out a new group of dedicated health care providers who are prepared to learn skills as their profession evolves. Their leadership is exemplified in stories about participation in national organizations as well as community involvement, such as Relay for Life and the Merrie Monarch parade, while learning essential skills for their careers in hospitals or in laboratories.

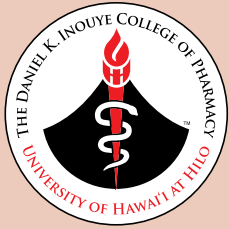
These students gain invaluable experience working in labs with world-renowned faculty. Our research story in this issue also shows Hōkūlea-style collaboration when scientists from both Departments of Pharmaceutical Sciences and Pharmacy Practice are working together under the guidance of a Hawaiian healer. They are constructing a groundbreaking project to use ancient Hawaiian medicine for new and novel uses, and the students learn by example.

We also show first-year student pharmacists getting their first taste of seeing how the legislative process affects their education, while explaining how the bills that were passed this year affect their profession.

All the while, our alumni are making waves all over the country, working in hospitals, retail or individually, continuing to spread knowledge they gained right here in our classrooms and community. They are perhaps the biggest connection to the voyaging canoe, because as they embark on the path of their pharmacy careers, they have the power to change the lives of every one they meet. The story of Hōkūlea teaches them to embrace our host culture while inspiring every single life they touch.

A handwritten signature in black ink that reads "Carolyn".

Carolyn Ma
Dean



Kāwili Lā'au

Summer, 2018
Volume 10, Issue 4

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Kāwili Lā'au is the magazine for the only
College of Pharmacy in the Pacific region,
the University of Hawai'i at Hilo



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On the Cover: In April, a replica of a traditional Polynesian voyaging canoe sailed into Hilo to inspire, educate and entertain. Top left: Dr. Susan Jarvi presented an educational booth and (bottom group photo from left) Cathlyn Goo, Kara Paulachak, Dean Carolyn Ma, Po Navigator Chad Kālepa Baybayan, San Ly, Vance Hill, Kevin Phu (Photos by Tracey Niimi)



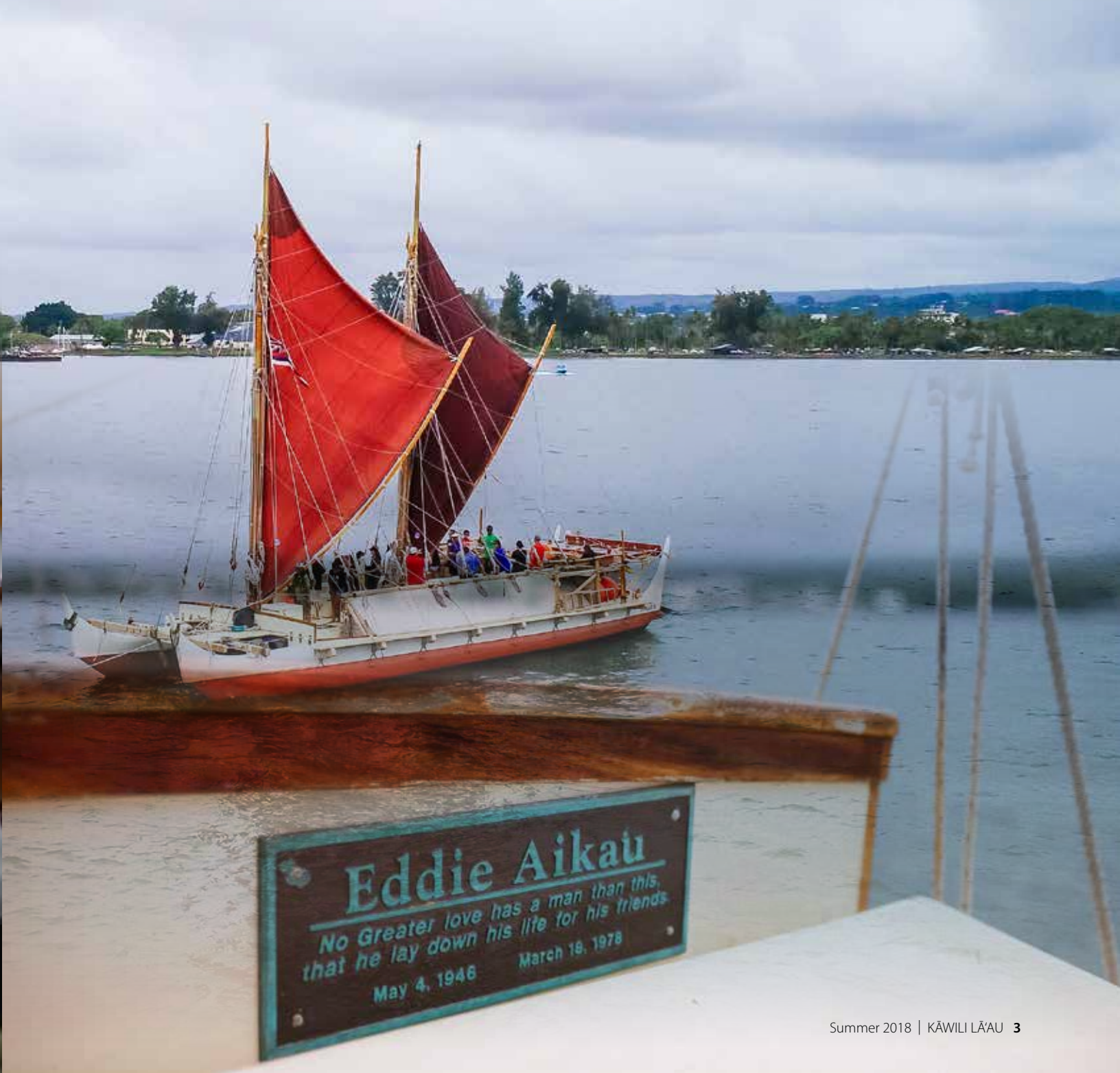
Inspiration comes in many forms

Hökūlea, a replica of a traditional Polynesian voyaging canoe, breezed into Hilo Bay in April and some lucky DKICP representatives were not only able to tour the legendary vessel but were invited to take a trip out into the Hilo Bay.

The Hōkūle'a came to Hilo as the follow-up neighbor islands educational event to share the incredible learnings of the three-year Mālama Honua Worldwide Voyage. Dean Carolyn Ma was accompanied on a tour of the famous canoe by Cathlyn Goo, Kara Paulachak, San Ly, Vance Hill, Kevin Phu, all members of the Class of 2019. After the tour and some instructions on sailing, Po Navigator Chad Kālepa Baybayan invited them to go for a ride out into Hilo Bay.

Launched in 1975 by the Polynesian Voyaging Society, the Hōkūle'a is best known for a 1976 Hawai'i to Tahiti voyage completed exclusively with Polynesian navigation techniques. The famed canoe was on a six-month statewide journey visiting numerous communities throughout the state, including Hawai'i Island for the month of April.

During the visit to Hilo, UH Hilo co-sponsored an educational expo for the community to welcome the crew of the historically accurate boat at the Wailoa Pier on April 21. Dr. Susan Jarvi represented the Daniel K. Inouye College of Pharmacy with an informational booth about Rat Lungworm Disease. (Photos by Tracey Niimi)



Eddie Aikau
*No Greater love has a man than this,
that he lay down his life for his friends*
May 4, 1946 March 19, 1978

Commencement Day

Members of the Class of 2018 entered the Edith Kanaka'ole Multi-purpose Stadium in Hilo at 9 a.m. Saturday, May 12 to be bestowed with the right to use "Dr." before their names.

Pharmacy graduates were among candidates for more than 900 degrees and certificates at University of Hawai'i at Hilo's Spring 2018 commencement. There were 74 PharmD's awarded and 68 graduates who also earned a Bachelor of Arts in Pharmacy Studies (BAPS) this year.

The keynote speaker was Henk Rogers, a Dutch-born video game entrepreneur and leading clean energy advocate. A University of Hawai'i graduate, he says he is committed to "the mission of stewarding the environment through developing non-carbon, clean energy sources." The student speaker was Matthew Ruiz, Jr, a sociology major who will be entering UH Hilo's Master of Arts in Teaching program this summer.

Thousands of families and friends, teachers and mentors, packed the stadium to watch the carefully choreographed march of the graduates as they took their seats. Many faculty

members showed their support and donned the garb of their graduating institution and marched in with the students.

Patiently waiting for hundreds of other graduates receiving undergraduate degrees, certificates and master's degrees, students from the professional pharmacy program filled the first four rows in the center of the biggest venue in Hilo.

When it was time for them to enter the stage, they walked, one by one, as their name was called, first to Interim Associate Dean for Academic Affairs Dr. Aaron Jacobs, who took the ceremonial hood from over their arm. They then approached Dean Carolyn Ma, who placed it over their heads, signifying success at completing the program. Then on to Interim Chancellor Marcia Sakai, who presented them with their diplomas.

Afterwards, many graduates stayed at the stadium to pose for pictures, receive masses of colorful flower leis

and make plans for more celebrations.

With this solemn but festive event, the Class of 2018 takes its place in the annals of The Daniel K. Inouye College of Pharmacy and moves forward to begin their pharmacy careers. (Photos by Cherie Baldugo, Class of 2020)







Dr. Paula Zeszotarski (left) with Matt Chen



Dr. Aaron Jacobs (left) with Jessica Lee



Dr. Aaron Jacobs (left) with Christopher Nakagawa

Luncheon sets celebration in motion

Soon-to-be graduates returned to Hilo from their respective rotation sites and celebrated the official kickoff for 2018 graduation celebrations during a luncheon held at the Hilo Yacht Club on May 10. This class was also given an opportunity to have a hard-hat tour of the permanent building currently being built.

Dean Carolyn Ma welcomed the students and faculty to the beautiful ocean setting and accepted the Class of 2018 yearbook from Class President Niaz Nafisi. (see related speech). Director of Student Services Daryl Masanda acted as emcee.

After a hooding demonstration by Drs. Ma, Aaron Jacobs and Lara Gomez, the following students received the annual awards:

Matt Chen was presented the American Pharmacists Association Senior Recognition Certificate by Dr. Paula Zeszotarski. The American Pharmacists Association Senior

Recognition Certificate is awarded to a graduating senior for making the greatest contribution to the APhA-ASP Chapter. It is the outstanding work performed by this student that provided other members with a more fulfilling, productive and enjoyable learning experience.

Jessica Lee received the Lilly Achievement Award by Dr. Aaron Jacobs. The award recognizes scholastic achievement in the professional curriculum and academic achievements made in pharmaceutical research.

Christopher Nakagawa was presented the 2018 Mylan Excellence in Pharmacy Award by Dr. Aaron Jacobs. The award is given for academic achievement, professional motivation and a demonstrated ability to communicate drug information.

DKICP alum and Assistant Professor Dr. Jarred Prudencio represented the University

of Hawai'i Alumni Association when he reminded the audience they would soon be DKICP alum and urged them to continue the camaraderie they developed.

"By becoming a member, you will have the opportunity to network with your classmates, other alumni, pharmacists in the community and former faculty members," he told the soon to be alum.

The Alumni Association currently offers scholarships and supports activities like the annual Career Fair, P4 Interview Day on Oahu and the Graduation Recognition Celebration. (Photos by Tracey Niimi)



Director of Student Services Daryl Masanda

Excerpts from Dean Carolyn Ma at Graduation Luncheon

“Class of 2018, you are the eighth class to graduate from this college and there are many of us, from faculty, staff, parents, who are very proud of this life defining accomplishment. You are carrying on this young college’s mission in providing health, education, research and service to people of this community, state and across the world. There are 74 of you graduating with the PharmD degree, with 16 of you headed for first year residency in Hawai’i or on the mainland.

Last year I started a new tradition of giving a one word adjective that best describes my and the faculty’s, impression of the graduating class. I’ve heard the faculty describe you as a happy class, you work together as a team, are able to tease but still support each other, and you care about yourselves, and for each other.

The word that I would describe this particular Class of 2018 is “jocund.” It means marked by or suggestive of high spirits and lively mirthfulness.

My personal congratulations on finishing pharmacy school. Your education here has been unique, culturally significant, an education that gave you a glimpse of this states’ Native Hawaiian heritage and place.

You have learned the core values of being a pharmacist – collaborative, empathetic, compassion, resourceful and committed, to your patients, to your students, to each other. You don’t necessarily have all the answers, but have developed the ability for a higher level of thinking, and practicing your core values of empathy, compassion and resourcefulness, certainly keys to your success as a health care professional.

You are bound together as a class, because of the hours/days/months and years you have spent, to hone your skills, your mind, and your compassion to fulfill the mission of this college.

One task is left – to pass boards and after you pass the boards, then the real work comes, and that is to work as a pharmacist. You will represent a profession that is highly respected and revered for trust and integrity. Our health care partners want to work with you, they know your value and what you bring to the table. Keep the collaborative spirit alive, be humble, and helpful. How you interact with your patients and colleagues should always be with the highest of values and morals. ”

Graduation Recognition Ceremony 2018

The night before officially receiving their Doctor of Pharmacy degree, the Class of 2018 joined their families, faculty, friends and colleagues for a celebration banquet at UH Hilo Campus Center Dining Hall (Sodexo). On Friday May 11, everyone was there to do one thing: celebrate.

Director of Student Services Daryl Masanda served as Master of Ceremonies for the graduation celebration, where approximately 200 people gathered to honor the grads-to-be. He gave them all the signal to enjoy a buffet dinner, after which Dean Carolyn Ma welcomed everyone and congratulated the new graduates.

In her remarks (see sidebar), Dean Ma described the Class of 2018 as “jocund,” defined as cheerful and merry. She explained: “This class has supported each other through four years with selfless support and joy that sometimes can be tested in the competition of obtaining grades, rotations, and residencies. This class contains hallmark leaders in our professional organizations, fraternities. And most notably, this class led the effort of the designation of

our modular campus as the first blue zones community on campus.”

Before naming the preceptor and faculty of the year, she was able to recognize Hawai'i State Representative Chris Todd in the audience for advocating the passage of a bill that will help compensate preceptors for volunteering their service to the college.

To punctuate that milestone, she named the 2018 Preceptor of the year, Dr. Mark Mierzwa from Hawai'i State Hospital. Also named was faculty preceptor of the year Dr. Jarred Prudencio, assistant professor in the Department of Pharmacy Practice who practices in the ambulatory care clinic of Hawaii Island Family Medicine clinic. (See related stories at end of this issue).

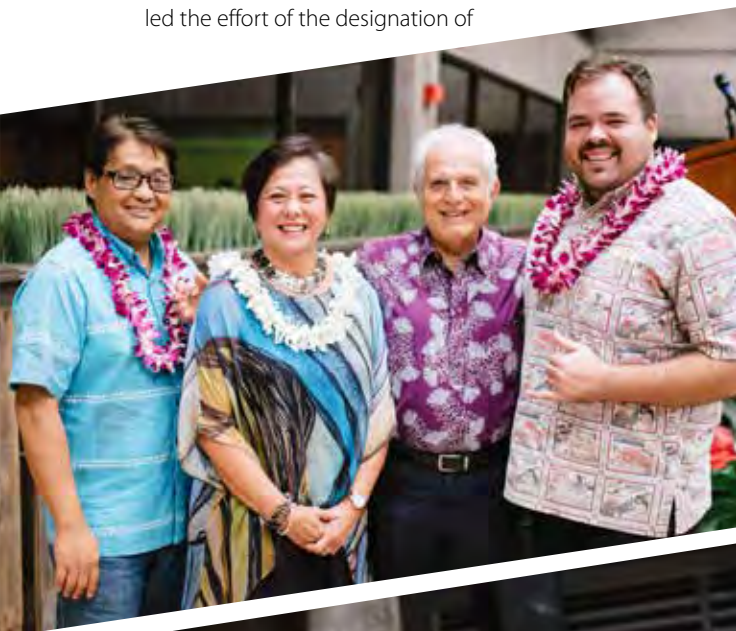
“The return of alumni in the role as highly trained and dedicated faculty is epitomized in Dr. Prudencio who graduated in the Class of 2015. Dr. Prudencio has taken on numerous duties as the student APHA organization advisor and the review course for the NAPLEX licensing board exam.” Dean

Ma noted.

More highlights of the evening included speeches by Class President Niaz Nafisi and Valedictorian Quan Truong. Dr. Dana Lynn Koomoa-Lange led Danielle Niimi and current students Noelle Lovesy and Hoku Richie in a hula performance entitled “Lepe ‘Ula’ula by Na Palapalai” dedicated to the Class of 2018.

At the end, every classmate present was able to speak on their own behalf in front of their peers, family and faculty.

Faculty and staff who assisted with the event included Lily Pua-Kaipō, Donna Ohora, Christina Method, Reid Kubo, Jeryd Teramoto, and Robert Birdsall. Pacific Floral Exchange and Chris Iha donated the floral and foliage used in the ceremony. The Office of Student Services also coordinated the logistics for the entire event.



Excerpts from Dean Carolyn Ma's Remarks at Graduation Recognition Ceremony

Parents, spouses, friends and family, four years ago, you sent us an individual and tasked this college with the responsibility of turning your student into a pharmacist. From what I saw at yesterday Dean's luncheon, the arrow has hit squarely on the target. Indulge me a few moments to be a little more descriptive and tell your families how you have as student pharmacists already made an impact.

These two stories come from faculty and preceptors who have spent this last year in close mentorship of applying what your students have learned in a classroom into a clinical setting. My first story may seem rather a routine task for most pharmacists and pharmacy students working in a hospital but the outcome has significant ramifications especially if you are someone how has ever had to be admitted into the hospital or undergone a serious procedure.

It's a scary experience. Pharmacists are considered drug therapy experts, and as a basic responsibility, will often counsel patients on their medications prior to their discharge. In this case, a patient, a week after having a heart stent placed due to a heart attack, was readmitted to a

second hospital where our faculty and student are working. When a patient undergoes this type of surgery, they are often given a combination of two drugs to help thin their blood, making it easier for the blood to move through the stent.

A few days prior to discharge, one of our student pharmacists went in to counsel the patient on his medications before he left the hospital. The student gave him information on how to take the medication, when to take it, what side effects to look out for, should he take the medication with food or without food and, most importantly in this case, that he shouldn't stop taking the medication without first consulting with his physician. At the end of the counseling session, the patient expressed his thanks and said: "I wish there had been some one like yourself to tell me to continue taking my medications after I was discharged the first time." If you've ever been in a hospital or had surgery, you realize this small intervention or education could play a significant part in keeping someone out of the hospital or undergoing another procedure.

In another one of our rotations, we are studying the impact of having multiple professions work together. In this case, nurses and pharmacists and medical fellows are working in a clinic in a middle school on O'ahu, and they also teach nursing and pharmacy students in this clinic. During one school clinic, a 12-year-old boy showed up with multiple open wounds on his leg that had developed into a bad infection. The pharmacy and nursing students worked together to ask the child questions about his infection and then suggested some antibiotics, after determining there were no drug allergies, calling in the pre-

scription to the local pharmacy and helping with medication cost and drug coverage. That story in itself is compelling enough, but let's take this one step further. After more discussion, the faculty brought up some issues of social determinants of care and hygiene. Discussion ensued and it

was determined that the child lived in public housing, and often sleeps on a concrete floor, with sporadic bathing and clothes laundering due to the numbers of family in the household. This resulted in providing additional education on proper hygiene, provision of bandages and antibiotic ointment.

These two stories are just two examples of the impact your graduate has already made on patients. Many more of these stories will come in their decades long career that I can assure you, will be filled with moments where you know that your intervention helped to make someone's life a little bit better.

Graduates, I am so very proud of you and wish you well in your next life-defining endeavor. I ask you to think of analogy of a bow and arrow. The bow is the part of the pairing gives the energy to the arrow. The harder you pull on the bow, the more energy is directed into the arrow. You have in the past four years, pulled back on the bow more than several times. You now set your bow and arrow on a new goal, to always serve your fellow human beings in health and wellness, with compassion, with the highest morals and values. Mahalo for the privilege of being your dean, and with great excitement, I look forward to the honor of being your colleague.

“...stories will come in their decades long career that I can assure you, will be filled with moments where you know that your intervention helped to make someone's life a little bit better.”

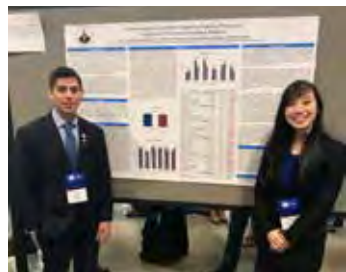


APhA 2018 Annual Meeting attracts leaders from DKICP

by Kara Paulachak (Class of 2019)

The American Pharmacists Association 2018 Annual Meeting and Exposition (APhA Annual) was held this spring, from March 16-19 in Nashville, TN -- Music City Center. The conference offered students and established professionals alike the opportunity to experience four full days of innovative education, interactive debates and discussions, and an extensive exhibit hall.

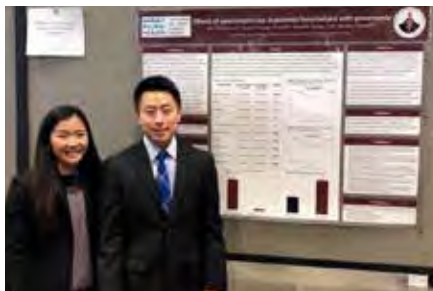
There were 10 student pharmacists in attendance from DKICP, representing the American Pharmacists Association – Academy of Student Pharmacists (APhA-ASP), the Hawai'i Student Society of Health-Systems Pharmacy & the Academy of Managed Care Pharmacy (HSSHP/AMCP), Rho Chi, and Phi Lambda Sigma (PLS). For APhA-ASP, Rho Chi, and PLS, this conference also represented national meetings where students of these organizations attended special meetings and elections dictating the futures of these organizations at large. Students who attended the conference were also able to attend continuing education (CE) sessions on various topics such as antimicrobial stewardship, new drugs of 2017, and more. In addition, there were various workshops and residency roundtable discussions in which to participate.



Rene Chavez (left) and Kara Paulachak (both Class of 2019)

For members of APhA-ASP, there were sessions that mirrored the APhA national sessions, including an opening session, two House of Delegates sessions, and a closing session. At the House of Delegates sessions, Kathleen Nguyen (Class of 2020, Chapter Delegate of APhA-ASP) represented the voice of the chapter on the national level, and cast her vote on policies that would gain the approval and support of the APhA-ASP in its entirety. At the opening and closing general sessions, the national awards were given to the top chapters in the nation. While our chapter did not win an award, our International Pharmaceutical Student's Federation (IPSF) efforts, headed by Jhoana Gonzales (Class of 2020, International VP of APhA-ASP), were recognized during the ceremony. In addition, members were able to attend meetings for each of the operations (Heart, Diabetes, Immunization, Generation Rx, and OTC medication safety) and learn about what other chapters around the country were doing, and what improvements could be made to our local chapter.

At the expo, attendees were able to learn about the new developments in the pharmacy world, including latest vaccines, medications, medication administration devices, and much more. Students were also able to get professional headshots done for free! The expo hall also encompassed the poster presentations, where students and faculty alike were able to showcase their research on various healthcare topics. Dr. Bryce Fukunaga and Dr. Aryn You from DKICP Department of Pharmacy Practice presented a poster on the "Effects of vancomycin use in patients hospitalized with pneumonia,"



DKICP faculty members Dr. Aryn You, and Dr. Bryce Fukunaga



From left: Dr. Mari Cid (DKICP Alum Class of 2017), Dr. Aryn You, Henry Quach (Class of 2021) and Dr. Bryce Fukunaga



Henry Quach (Class of 2021) during the National Patient Counseling Competition

National Patient Counseling Competition at APhA annual conference helps improve skills

By Henry Quach (Class of 2021)

During the 2018 APhA Annual, I had the privilege of representing DKICP in the National Patient Counseling Competition. This was a very enriching experience and a clear highlight to my first year in professional pharmacy school. Preparation for the competition began weeks prior to APhA Annual with the help of two DKICP alumni and current DKICP faculty members, Dr. Bryce Fukunaga and Dr. Jarred Prudencio. They reviewed medications with me and taught me to predict complications based on different patient attributes. They helped me to develop my counseling technique and gain confidence for the competition. Their guidance along with the well wishes of classmates, faculty and family encouraged me to do well.

The counseling competition at APhA Annual consisted of three parts: orientation, the preliminary round and the finalist round. At orientation, we had the opportunity to meet fellow competitors and look through previous patient profiles. The winner of the 2017 NPCC was also there to answer any questions and offer tips. During the Preliminary Round, we were asked to counsel a babysitter on an Augmentin Suspension (a combination penicillin-type antibiotic used to treat a wide variety of bacterial infections) for a child. The babysitter was worried about side effects and how to keep track of when the child was receiving medication. I assured her that side effects were rare and offered to help make a schedule to keep track of the medication. In the Finalist Round, students counseled on the use of an EpiPen and were challenged with a more complex counseling situation involving a patient that displayed characteristics such as belligerence, anxiousness and apathy.

While I didn't make it to the finalist round, this was one of the most incredible experiences for me. Preparing for the competition forced me to improve my skills as a communicator and patient educator. I now feel more confident in my ability to counsel patients on safe and effective medication use. I had two big takeaways from participating in the APhA National Patient Counseling Competition: 1) Effective, quality patient consultations take just a few minutes but make a world of difference. The extra moments spent on patient care can ensure safe usage and prevent adverse drug reactions. 2) DKICP "Pharmily" is SO supportive. I received well wishes from faculty and students in the hall and my own Class of 2021, led by faculty member Mr. George Karvas signed a card full of encouragements for me. It was amazing to know I had such a positive support group behind me. I am thankful for the opportunity to represent and will carry these lessons with me as I progress in my journey through pharmacy school.

(Class of 2019) and Kara Paulachak (Class of 2019) presented on the "Implementation of a Health Screening Training Process for Second and Third Year Pharmacy Students."

Overall, the conference was a wonderful experience for attendees. There was much to be gained from all of the educational sessions, debates, and speeches. The exposition was full of new and relevant information, and the individual meetings for each of the student organizations inspired attendees to bring back new ideas and improve our local operations.



From left: Henry Quach (Class of 2021), Kathleen Nguyen (Class of 2020), Kara Paulachak (Class of 2019), Veronica Wong (Class of 2019), Brandi Chun (Class of 2020)

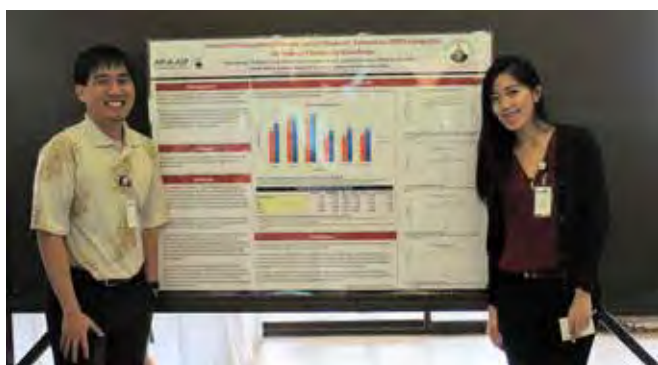
Hawai'i Pharmacists Association 2018 Annual Meeting

By Robyn Rector (Class of 2020)

The 2018 Hawai'i Pharmacists Association (HPhA) annual meeting took place at Kapiolani Community College April 28-29. HPhA is the largest professional pharmacy association in Hawai'i and is comprised of more than 200 pharmacists, technicians, and students who represent various fields within pharmacy practice ranging from community, hospital, ambulatory, distributors and academia.

The event is structured to provide invaluable educational and networking opportunities for all who attend. Student pharmacist volunteers from the Daniel K. Inouye College of Pharmacy (DKICP) assist with the program in exchange for complimentary registration to attend all events during the conference. Volunteering provides a special back-stage experience that surely facilitates connections to pharmacy leaders and upcoming pharmacists within our Hawai'i community. Attendance at this event is an incredible opportunity for students to gain exposure to professional presentations, as well as engage in activities with pharmacists and other pharmacy students.

DKICP student presidents from the Hawai'i Student Society of



Nick Tsoi (left) and Veronica Wong presented research at the HPhA annual meeting.

Health-Systems Pharmacists (HSSHP) and American Pharmacists Association-Academy of Student Pharmacists (APhA-ASP) serve on the HPhA board and share student perspectives on current topics within the organization. HPhA is volunteer-driven, with members who work diligently to shape the future of healthcare and optimal use of medications to benefit the people of Hawai'i and the Pacific.

Camlyn Masuda, assistant professor in the Department of Pharmacy Practice who was the chairperson of the HPhA annual meeting, said the program included a robust range of knowledgeable speakers, including many DKICP professors and alumni. She



Stacy Lu explained research

also cited the volunteers who gained experience in event planning, including Corey Major, an undergraduate student volunteer who is applying to pharmacy school.

"This year's HPhA Annual meeting was a success," she declared. "To put on such an extensive event, we need to thank the number of student volunteers who helped with the reception, including Athena Borhauer, Brandi Chun, Kara Paulachak, Robyn Rector and Nancy Wong."

Some of the most memorable experiences from the annual meeting were the presentations by current post-graduate year-one and year-two residents, which revolved around research projects conducted during their residency. Observing these recent graduates was an eye-opening glimpse into the professionalism and education required to be a competitive residency candidate while showcasing some of the available residency programs in Hawai'i. The presentations also provided insight into the type of projects a student could pursue when entering a residency program.

In addition to pharmacy residents, presenters included seasoned clinicians who are current leaders in pharmacy practice, a Narcotics Enforcement Division (NED) agent, a Drug Enforcement Administration (DEA) agent, Department of Health Representatives, and directors of pharmacy operations within local insurance companies. The information shared was up-to-date and directly applicable to Hawai'i.

DKICP student pharmacists helped to create two research posters that were presented at the meeting: 1) "Impact of International Pharmaceutical Student Pharmacist (IPSF) Campaigns on Student



DKICP members of HPhA

Pharmacist Knowledge.” By student pharmacists Trish Huynh, Nicholas Tsoi, Matt Chen, Veronica Wong, and Dr. Jarred Prudencio; originally presented at the ASHP Midyear Clinical Meeting, December 2017 in Orlando, FL. and 2) “Evaluation of a refill reminder program designed to optimize patient adherence to direct oral anticoagulants.” By student pharmacist Stacy Lu and Pharmacists Drs. Laura E Lum, and Emily Y Kim.

First-year student pharmacist Brittany Luna said the meeting offers significant educational and professional growth opportunities, such as presentations with a broad range of topics that were delivered each hour. Particularly memorable, she said, was a talk by Dr. Lara Gomez, DKICP Director of Clinical Education, who explained the goals of preceptors.

“Although this meeting can be a little overwhelming to a first-year student bombarded with new and numerous topics and information, I was very glad to be introduced early on to the current realm of the pharmacy world,” Brittany said.

Students who would like to get involved with the Fall General Membership Meeting or Spring Annual Meeting are strongly encouraged to take advantage of this local conference. HSSH and APhA-ASP are available to facilitate volunteering opportunities or discuss the Leadership Enrichment Funds (LEF) that DKICP awards to students to assist with the costs of the meeting. Dr. Masuda urged student pharmacists to start planning research projects and be prepared to submit a poster for presentation at the meetings next year.

Speakers at 2018 HPhA Annual Meeting

Name of presenter	Organization	Title of presentation
GayAntonette Subia, PharmD	PGY1 resident, Queen’s Medical Center, Honolulu, HI	Safety of Continued Midodrine Use in Patients Post-Septic Shock
Zi Yang Zhang, PharmD	PGY1 resident, Queen’s Medical Center, Honolulu, HI	Risk Factors for Hypoglycemia in Hospitalized Patients Without Diabetes
Kristine Luong, PharmD	PGY2 resident, Queen’s Medical Center/ University of Hawai’i at Hilo Daniel K Inouye College of Pharmacy (DKICP) Honolulu, HI	Early Venous Thromboprophylaxis in Traumatic Brain Injury Patients
Chad Kawakami, PharmD, BCPS	University of Hawai’i at Hilo Daniel K Inouye College of Pharmacy, Hilo, HI	Parkinson’s Disease (PD) and PD Psychosis
Nadine So, PharmD	PGY1 resident, UH Hilo Daniel K. Inouye College of Pharmacy, Hilo, HI	Vancomycin Trough Levels and Outcomes in Patients with Pneumonia
Kelsea Mizusawa, PharmD	PGY1 resident, UH Hilo Daniel K. Inouye College of Pharmacy Hilo, HI	The Impact of Pharmacy-Driven Individualized Plans of Care on Postoperative Opioid Use and Pain Control in Patients Undergoing Elective Joint Arthroplasty
Lara Gomez, PharmD	University of Hawai’i at Hilo Daniel K Inouye College of Pharmacy, Hilo, HI	Your Turn to “Precept”
Kara Izumi, BCPS, BCNSP, BCCCP	Queen’s Medical Center, Honolulu, HI	Specialized Nutritional Support in Hospitalized Patients: Optimizing Parenteral Nutrition
Jared Redulla	State of Hawai’i Narcotics Enforcement Division, Honolulu, HI	Pharmacy Crime and Robbery
Christopher Breuer, PharmD	PGY1 resident, Tripler Medical Center, Honolulu, HI	Effect of Decreasing Default Dispense Quantity on Prescribing of Opioids
Emily Holcomb, PharmD	PGY1 resident, Tripler Medical Center, Honolulu, HI	Polypharmacy Review Process in the Army Medical Home
Linnea Tokushige, PharmD	PGY1 resident, Kaiser Health Plans, Honolulu, HI	Dabigatran Versus Warfarin Evaluation of Risks in Special Populations
Fred Cruz, RPh	CVS/Caremark, Honolulu, HI	HIV Update
MichaelMakaimoku, PharmD	PGY1 resident, Veteran’s Administration, Honolulu, HI	A Pharmacists-Run Alcohol Use Disorder Clinic for Veterans
Macey Wiens, PharmD	PGY1 resident, Veteran’s Administration, Honolulu, HI	Pharmacist Run Lithium Phone Clinic to Improve Lithium Monitoring at the Veterans Affairs Pacific Islands Health Care System: An Evidence Based Practice Project
Thaddeus Pham	Department of Health, Honolulu, HI	How Can I Help You? Intersections With Hepatitis in Hawai’i
John Callery	Honolulu District Office, Drug Enforcement Administration, US Department of Justice, Honolulu, HI	Opioids in 2018 Past, Present, Future
Rane Shoji, PharmD	’Ohana Health Plan, Honolulu, HI	Answers to your common questions for insurance companies
Evelyn Chock, PharmD	HMSA, Honolulu, HI	Answers to your common questions for insurance companies

New funding promotes research in deadly lung diseases

Dr. Leng Chee Chang

People with underlying lung diseases such as bronchiectasis, cystic fibrosis, asthma, and chronic obstructive pulmonary (COPD) stand to benefit from research at the Daniel K. Inouye College of Pharmacy that was recently funded by the Hawai'i Community Foundation (HCF). Dr. Leng Chee Chang, Associate Professor in the Department of Pharmaceutical Sciences, is the principal investigator working on the project entitled "Antimicrobial Activity of Hawaiian Medicinal Plants against Nontuberculous Mycobacteria."

Co-Principal Investigators for the project are Dr. Supakit Wongwiwatthanakit, Professor in DKICP's Department of Pharmacy Practice, as well as Dr. Jennifer R. Honda, Faculty Instructor from the Department of Biomedical Research, Center for Genes, Environment, and Health at National Jewish Health in Denver, Colorado. Dr. Honda has evaluated the efficacy of endogenous antibiotics against NTM in vitro and is an expert in NTM biology in Hawai'i and organism pathogenesis.

Q: Why is this project important?

Dr. Chang: Nontuberculous mycobacteria (NTM) are common in the environment found in water and soil. People can come into contact with NTM bacteria through simple, daily activities, such as showering or gardening. Exposure to this aerosolized bacteria can lead to NTM entering the lungs. In most healthy individuals, the NTM bacteria are cleared from the lung naturally and do not cause infection. However, in some people, the bacteria may infect the airways and lung tissue leading to increased risk of getting NTM lung disease (NTMLD). This causes inflammation in the respiratory system. Without treatment, many people, but not all, will develop a progressive and chronic lung infection characterized by cough, shortness of breath, fatigue, and often weight loss. However, treatment for NTM lung disease is challenging because of the long duration of therapy, which includes a combination of drugs. Relapse following therapy is common and may result in substantial morbidity and mortality.

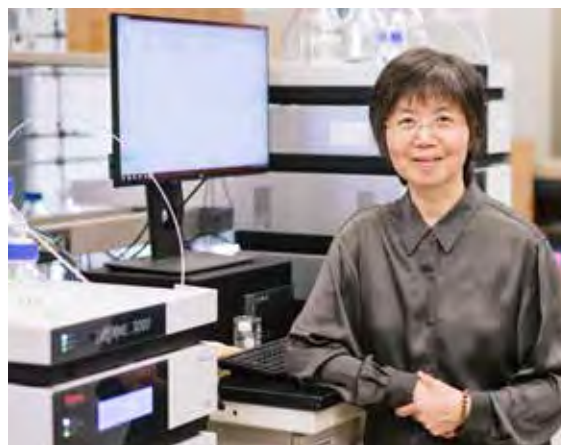
In recent years, NTMLD has been reported to be increasing globally as well as in the U.S. Hawai'i has been identified as the state with the highest prevalence of NTMLD when compared with the national average. NTM are commonly found in the Hawai'i environment. At a cohort study of Kaiser Permanente Hawai'i, the most frequently isolated NTM were the *Mycobacterium avium* complex (MAC) and *Mycobacterium abscessus*. The highest occurrences were among Japanese, Chinese, and Vietnamese patients.

Q: How do you plan to carry out your research?

Dr. Chang: This proposal will investigate the applicability of *Waltheria indica* ('uhaloa) and *Morinda citrifolia* (noni), two Hawaiian medicinal plants as antimicrobial agents against NTM strains isolated from Hawai'i. Two specific aims are 1) to test anti-mycobacterial activity of 'uhaloa, and noni extracts against NTM from Hawai'i; and 2) isolate and identify antimicrobial compounds from any promising crude extracts that might be discovered in aim 1.

Our respected Hawaiian healer, Kumulomi Dane Kaohelani Silva, will provide the traditional preparation methods of 'uhaloa in an oil form.

From consultation with Kumu Silva, 'uhaloa may be used both internally and externally, and is used to treat a variety of ailments including asthma, skin inflammation, tuberculosis, and infectious diseases. Many versions of decoction, or extracting the essence, of 'uhaloa are also used



Dr. Leng Chee Chang



Also in Dr. Chang's lab...

A group of students from SKA Academy of Art & Design in Duluth, Georgia visited and worked in Dr. Leng Chee Chang's laboratory for about a month this summer. They were shown here with Ms. Leng Kar Chang (far right), who is their instructor and Dr. Leng Chee Chang's sister.

The students received hands-on experience working in a professional environment while learning new techniques for doing research, such as extraction, separation of natural product, and performing antioxidants assays. One student will also perform anti-inflammatory in Dr. Tamara Kondratyuk's lab.

In addition, these students have the opportunity to be immersed and explore the Hawaiian culture by visiting the historical and geographical landmarks that Hawaii has to offer.

They were (from left) Johnhan Guo, Elizabeth Lough, Dr. Leng Chee Chang, Marisa Gu, Kevin Lin, Priscilla Yan Lin, Mandi Zhu, and Ms. Leng Kar Chang. (Photo by Tracey Niimi)



as an oral rinse, inhaler, for sore throat and tooth abscesses, and as a poultice for wound infections.

We will prepare 'uhaloa extracts and fermented noni juice and send these extracts and fractions for further anti-NTM testing. DKICP will focus and isolate bioactive compounds that show anti-NTM activity.

Q: Who will be affected by the results of this research?

Dr. Chang: Hawai'i residents with NTM lung disease and patients with a history of lung conditions, like bronchiectasis and cystic fibrosis are more likely to develop NTM infection. Moreover, Hawai'i has a higher prevalence rate of asthma and COPD when compared with the national average.

Q: What do you have planned for the future of this research?

Dr. Chang: First, we need to identify extracts that show anti-NTM activity. Once bioactive compounds are identified from extracts, we will plan to test the compounds against NTM in vitro. Noni extract have been used for treating asthma, tuberculosis and respiratory diseases. Also, 'uhaloa are often use by native healers for infections in in Hawai'i. The identification of active constituents with minor cytotoxic properties in medicinal plants with anti-NTM is significant. In particular, FDA-approved drugs that specifically treat NTMLD do not exist at the current time when the need for NTM-directed therapies is greatest. The low cost of herbal remedies should increase access to their use as alternative treatments for infections for people in Hawai'i, the nation, and the world.



Back row (from left): Afjalus Siraj, Ahammad Uz. Zaman, Dallas Freitas, John Cordova, Ingo Koomoa-Lange
Front row (Left to Right): Sasha Kovacs, Samiul Huq Atanu, John Jacob, Alex Lindsay, Nathan Sunada, Italo Espinoza-Fuenzalida (not pictured: Chunshun Li)

'Mini' Research Symposium sharpens skills

The Daniel K. Inouye College of Pharmacy held a Mini Research Symposium from 3-6 p.m. in Classroom 1 on April 10.

DKICP postdoctoral associates and students presented and shared their research. This includes the PharmD student pharmacists as well as undergraduate students from the INBRE and SHARP programs.

"The symposium was meant as an opportunity to get together and share the research experience," said Ingo Koomoa-Lange, a faculty member on the organizing committee from the Department of Pharmaceutical Sciences. "For the students, it was an important opportunity to sharpen their presentation skills."

Other committee members were Drs. Leng Chee Chang, Cherie Chu, Aaron Jacobs Camlyn Masuda and Ghee Tan.

Presenters, along with their mentors and their topics were:

John Alex Cordova, "Calcium Imaging Tools," Koomoa-Lange Labs

Dallas Freitas, "Ion Channel Recordings in Neuroblastoma," Koomoa-Lange Labs

Italo Espinoza-Fuenzalida, "Novel Approach for Drug Screening," Koomoa-Lange Labs

Nathan Sunada, "Neuroblastoma Drug Resistance," Koomoa-Lange Labs

Alexandria Lindsay, "Biomarker Analysis in Urine as Part of a Cancer Survivor Exercise Study," Connelly Lab

John Jacob, "Rat Lung Worm – Development of Death Assay," Jarvi Lab

Sasha Kovacs, "A Medicinal Plant Extract," Chang Lab

Kh. Ahammad Uz. Zaman, "Endophytic Fungus from Local Soursop Plants - Promising Antiproliferative Activity," Cao Lab

Md. Afjalus Siraj, "Cytotoxic Constituent of the XILP5; a Fungal Endophyte of *Morinda citrifolia* Linn. (Noni) Leaf," Tan Lab

Md. Samiul Huq Atanu, "*Morinda citrifolia* (Noni) and its Constituents as Inhibitors of Tumor Cell Invasion, Metastasis and Angiogenesis," Tan Lab

Chunshun Li, "Bio-active Metabolites from Hawaiian Endophytic Fungi," Cao Lab

Items from DKICP historical collection displayed at campus library

By Patricia Jusczak, Associate Specialist, Department of Pharmacy Practice and Donna Ohora, Pharmacy & Health Sciences Information Resource Coordinator

"Pharmacy History" was on display through July in the Edwin H. Mookini Library lobby. Ephemera, or collectible memorabilia, that were on display are part of the DKICP's archive, originally created and maintained by former faculty member Mimi Pezzuto and librarian Helen Wong-Smith. Items included hand pill-rolling equipment, a vintage capsule maker, vintage mortar and pestle, scales and weights, and distinctive containers for products to treat a variety of illnesses. Faculty member Pat Jusczak provided text that highlighted the evolution of the profession.

"The display is both informative and entertaining and I have seen many student, faculty and community members stop to view the pharmacy artifacts and read about them with interest," shared Thora Abarca, Acting Library Director. The Hawaiian Collection Librarian Mary Louise Haraguchi and her student assistants Maysyvelle Sistoza and Hannah Pavao were instrumental in coordinating the display. Maysyvelle, a student of the Class of 2021 enjoyed working with artifacts from the archive and learning more about the profession she has chosen to pursue.

Many items used to compound medications in ancient times are still used in pharmaceutical compounding today. The mortar and pestle, possibly the first pharmaceutical equipment, is used to



From left, first-year DKICP student pharmacist Maysyvelle Sistoza posed with Hannah Pavao, a student worker in the Hawaiian collection at Mookini Library.

crush, grind and mix ingredients. Systems of weights and measures evolved to the current metric system and can be compared to the earlier apothecary systems on display.

The relevance of items such as those on display are discussed in the "History of Pharmacy" elective course, where students reflect on discoveries and events in history that influenced the way medicine and pharmacy are currently practiced.

Complementing the historical display were two posters by Professor Sue Jarvi on loan from the Rat Lungworm Disease (RLWD) lab. These posters were part of the work showcased in the inaugural Research Day held at Prince Kuhio Plaza March 17.

Please contact DKICP librarian, Donna Ohora at dohora@hawaii.edu with ideas for future displays.



Legislative update: 2018 proves important year for health care bills

The Hawai'i State Legislature passed important health care bills in the 2018 session that directly affect the pharmacy profession, including addressing workforce issues and battling the opioid crisis. Additionally, DKICP received critical funding for research on rat lungworm disease as well as part of the Capital Improvement Plan to go towards remodeling the modular facilities.

Senate Bill 2298, Act 043: Healthcare provider tax credits

Hawai'i becomes the fourth state to pass a bill to give tax credits to preceptors, following Georgia, Maryland and Colorado. It allows pharmacists, advanced practice registered nurses and physicians to receive income tax credits for acting as preceptors in volunteer-based supervised clinical training rotations provided to eligible students that enable the students to obtain an eligible healthcare professional degree or certificate.

After Dec. 30 this year, preceptors can receive a tax credit of \$1,000 per volunteer-based supervised clinical training rotation, up to \$5,000 a year.

Preceptors are volunteers who offer professional instruction, training, and supervision to students and residents seeking careers as healthcare providers throughout Hawai'i. The tax credit is a way to build capacity for clinical education at in-state academic programs that are nationally accredited for the training of medical, nursing, or pharmacy professionals. All health professional programs require a significant experiential program not only in time but in skilled preceptors, who are necessary for all of the state's health professional programs

Dean Carolyn Ma, along with DKICP faculty and students, submitted testimony in support of the bill. Dean Ma stated: "Over the last four years, we have seen a significant decline in our two major required experiential rotations ambulatory care and hospital acute care. This tax credit will hopefully help incentivize preceptors to continue this form of service or build back the cadre of clinical educators. Without some incentive or compensation such as this tax credit, we will continue to see declining volunteer offerings. This will lead to an increasing inability for our students to fulfill their graduation requirements, as well as a need to continue decreasing class size."

SB 2247: Prescriptive authority for opioid antagonists

Pharmacists received authorization to prescribe, dispense, and provide related education on opioid antagonists to individuals at risk of opioid overdose without the need for a written, approved collaborative agreement.

Members of the Board of Pharmacy, Walgreen Co., Times Pharmacy, and Kaiser Permanente testified that requiring pharmacists to obtain and maintain a written acknowledgment form may result in fewer pharmacists offering opioid antagonists, such as naloxone, which have been proven to prevent deaths from opioid overdose. The Senate committee found "...that the written acknowledgment form, while well-intentioned, may provide a needless barrier to opioid antagonist access without offering significant protections to



Governor David Ige signed several bills on July 11 concerning the management of the opioid crisis. In the back row, second from the right is Dr. Aryn You, Assistant Professor in the Department of Pharmacy Practice, who is on the Governor's multi-agency Task Force to fight opioid abuse.

consumers." The committee also found that "prohibiting pharmacists from requiring an appointment prior to prescribing an opioid antagonist forestalls the opportunity for pharmacists to discuss the use and effect of the opioid antagonist with the individual receiving the prescription."

Rat Lungworm Disease research

DKICP research programs related to the prevention, control and treatment of rat lungworm disease were awarded a recurring funding provision of \$300,000 from the House Finance and Senate Ways and Means committees.

The funding will go towards research for both bench and understanding clinical management, Dean Ma said. Rep. Chris Todd, D-Hilo, who led the legislative effort to support research in Professor Susan Jarvi's Rat Lungworm project, credited "half a dozen lawmakers" — including several East Hawai'i representatives and senators — and several people at the university with finally getting the funding added to the budget.

In the Jarvi lab, it will support finding tests on deworming procedures, produce washes, filters, ultraviolet systems and more. Dr. Jarvi also said she wants to expand studies they've been doing to develop a blood test as an alternative to the spinal tap doctors currently use to diagnose the disease. Dr. Louis Lteif, assistant professor in the Department of Pharmacy Practice, is working with the RLW subcommittee on clinical management in reviewing cases in order to develop an understanding of risk factors, clinical treatment guidelines and a better understanding of long-term effects of the disease and disease management.

Renovation of modular facilities

DKICP will receive a portion of the Capital Improvement Plan funds in order to renovate the modular facilities to accommodate pharmaceutical science and the analytical lab equipment, offices and graduate student workspaces that have been housed at rented facilities 10 miles away from campus on Stainback Highway. The move will allow the College to go from being housed in six locations throughout Hilo to one area on campus once the permanent building is complete.



A group picture of those who came out to support our team at Relay For Life

DKICP shows support for fight against cancer in Relay For Life 2018

By Brittany Luna (Class of 2021)

DKICP raised more than \$1800 and won several competitions at the annual Relay For Life fundraiser March 9-10. The event, which is held from 6 p.m. to 6 a.m. (to prove that we don't sleep because neither does cancer) is the only overnight on-campus event that happens once a year.

This event brings the whole community together to raise money and awareness to end cancer. Relay For Life hosts game, entertainment, and food for all ages.

The theme for the event this year was "The Amazing Race To End Cancer." The 2018 DKICP team represented the country of Mexico and sold quesadillas at "La Farmacia Quesadilla."

DKICP won many first places: team fundraising, highest participant fundraising (Brooke Higa, Class of 2021), the Relay Royalty Pageant (Shane Naeole, Class of 2021, as "Cardi DD"), the Relay Team Olympics (third-year team with Ibuprofen & Salopas), Cookie Face (Sean Domingo, Class of 2021), and Frozen T-shirt Contest (Nichole Chaffin, Class of 2021).

In addition, DKICP had more than 20 volunteers who shared "Why Do You Relay?" for a commercial and five brave professors/staff who raised money by getting pied in the face by



Shane Naeole competed in the Relay Royalty Pageant as Cardi DD and won 1st place while raising \$113.



The participants in the Relay Team Olympics.

students (Dr. Aaron Jacobs, Dr. Linda Connelly, Dr. Abhijit Date, Mr. Daryl Masanda and Mr. George Karvas).

The DKICP Team Captains -- Brittany Luna, Brooke Higa and Sean Domingo -- would like to thank everyone who supported our DKICP team this year and encouraged everyone to come out next year. (Photos by Karen Pae (Class of 2021), Brooke Higa (Class of 2021), Brittany Luna (Class of 2021) and Les Domingo (Class of 2020))

Spring awards banquet highlights student achievements, honors faculty

Students were the focus at the 2018 Spring Awards Ceremony on May 2 at Aunty Sally's, a popular Hilo venue next to the Edith Kanaka'ole Multi-purpose Stadium. The Office of Student Services organized the annual event that recognized scholarship recipients, organizations and leaders. Seven professors and one preceptor were also recognized for teaching excellence awards.

Dean Carolyn Ma welcomed the packed room of students, staff and faculty and reflected on the past school year. The first award of the night was announced by Assistant Professor Chad Kawakami,



Military Award Lara Gomez

who presented Employer Support of the Guard and Reserve Awards to Dean Ma and Drs. Roy Goo and Lara Gomez. Dr. Kawakami is a Major in the United States Army Reserves serving in the 1984th United States Army Hospital – Pacific as the Chief of Pharmacy and Pharmacy Consultant to the 9th Mission Support Command.

Tracey Niimi, student support specialist, served as master of ceremonies for the event. Toward the end of the evening, he thanked all the student volunteers that assisted with setup, evening logistics, and cleanup as well as Floral Resources for the beautiful floral donations.

The evening wrapped up with the Seventh Annual DKICP Talent Show "Hilo's Got Talent" showcasing the special talents of a several DKICP student pharmacists. Faculty members Mr. George Karvas, Ms. Patricia Juszczak and Dr. Paula Zesotarski judged three dancing and singing performances. Lead singer Christian Macaspac, Ethan Slusher on guitar, and Joel Pascua on the kahon, with a little help from Tracey Niimi on bass, took the trophy home this year.



DKICP Student Ambassadors

Student Choice Award for Teaching:

Class of 2021: Dr. Abhijit Date and Mr. George Karvas

Class of 2020: Drs. Linda Connelly and Bryce Fukunaga

Class of 2019: Drs. Daniela Guendisch and Chad Kawakami

Faculty Preceptor of the Year: Jarred Prudencio

Preceptor of the Year: Mark Mierzwa, Hawai'i State Hospital (PharMerica)

Recognition of 2015-16 DKICP Student Ambassadors: From the Class of 2019: Cathlyn Goo, Vance Hill, San Ly, Kara Paulachak, Kevin Phu, Preston Young, From the Class of 2020: Mary Lui, Vince Manalo, Andrew Nguyen, Shaina Saiki, Johnson Tran

Recognition of DKICP UH Hilo Student Association (UHHSA)

Members: Jenny Lee, DKICP Senator and Lauren Glover Alejado, Executive Senator

Recognition of Pharmacy Curriculum Outcomes Assessment (PCOA) Highest Achievement for the Class of 2019:

Athena Borhauer and Preston Ho.



(From left) Athena Borhauer, Preston Ho, Paula Zesotarski



Dean Carolyn Ma (left) and Kaylee Hoang, Kahele Student Leader of the Year

American Institute of the History of Pharmacy: Rachel Randall
US Public Health Service Excellence in Public Health Pharmacy Practice Award: Cathlyn Goo

Kahele Student Leader of the Year: Kaylee Hoang

Student Organization of the Year Award: National Community Pharmacists Association (NCPA) DKICP chapter
Scholarships for 2018-19 academic year:

The Daniel K. Inouye

College of Pharmacy Merit Award from the Class of 2019

Nancy Wong

David Pham

Gam Phan

Kara Paulachak

Athena Borhauer



US Public Health Service Excellence in Public Health Pharmacy Practice Cathlyn Goo (left) with Dean Ma

The Daniel K. Inouye College of Pharmacy Merit Award from the Class of 2020

Mary Lui

Robyn Rector

Taylor Hori

Jared Toba

Amelia Furlan

Reid Shimada

Joshua Dillon

Stacey Nguyen



Dennis Le, Athena Borhauer, Kara Paulachak, David Pham

The Daniel K. Inouye College of Pharmacy Merit Award from the Class of 2021

Sean Domingo

Qixin (Sandy) Li

Brittany Luna

Jaymee-Rae Pang

Johnson Siu

Donald Waddell



Robyn Rector, Mary Lui, Taylor Hori, Jared Toba, Stacey Nguyen

UH Hilo CoP Alumni Association Scholarship:

The UH Hilo DKICP Alumni Association chapter established a scholarship to recognize students whom exhibit academic merit and leadership that promotes DKICP and who have a strong interest in participating in DKICP Alumni Association chapter activities. This year's scholarship is supported by the DKICP Alumni Association chapter, Dr. Elwin Goo, donations made by previous DKICP graduating classes, and other donations made by DKICP supporters.

This year's recipient is: Kelsey Trujillo

Aloha Shoyu Pharmacy Scholarship:

Brian Tanigawa, President of Aloha Shoyu, had a longtime career as a pharmacist before taking over as president of the Aloha Shoyu Company which is one of Hawai'i's leaders in soy sauce sales. Under his leadership, the company established the Aloha Shoyu Pharmacy Scholarship in 2012.

This year's recipients are: Sydney Barney and Karen Pae

CVS Health Foundation Pharmacy School Scholarship:

Established in 2009, the CVS Health Foundation Pharmacy School Scholarship honors students in good academic standing and have demonstrated an interest in pursuing a career in a retail setting.

This year's recipients are: Imaikalani (Imai) Chock, Jhoana Paula Gonzales and Fumiko Steiger

Elwin & Valerie Goo Endowed Excellence Scholarship:

Elwin and Valerie Goo are longtime supporters of the DKICP. Elwin retired in 2008 as the Chief of Inpatient Pharmacy at Tripler Army Medical Center. Elwin and Valerie established the Elwin & Valerie Goo Endowed Excellence Scholarship in 2011.

This year's recipient is: Veronica Wong

Grace Mizuko Miyawaki Pharmacy Scholarship:

Grace Mizuko Miyawaki was a hospital pharmacist who retired as the Director of the Inpatient Pharmacy Department at Kuakini Medical Center. Grace established the Grace Mizuko Miyawaki Endowed Scholarship in Pharmacy in 2009 in memory of her parents, Jitsuo and Sawa Doi Miyawaki.

This year's recipient is: Gregg Tam

Haga Family Endowed Scholarship:

Michi Haga-Miller established the Haga Family Endowed Scholarship in 2009 in memory of her father Tokushichi Haga who was an iisei, or first generation Japanese immigrant who came from Fukushima, Japan to work on a sugar plantation in Hawai'i.

This year's recipient is: Nichole Chaffin

Hawai'i Independent Pharmacies, Inc. Endowed Excellence Scholarship:

The Hawai'i Independent Pharmacist, Inc. was established in 1987 to unite all independent pharmacies across the state of Hawai'i to engage and participate in group purchasing of merchandise generally sold in drugstores and other related activities. Upon the dissolution of the organization in 2011, the members voted to allocate its remaining assets to the establishment of the Hawai'i independent Pharmacies, Inc. Endowed Excellence Scholarship at the Daniel K. Inouye College of Pharmacy.

This year's recipients are: Kamala Lizama, Rene Scott Chavez, and Rachel Randall

Edwin and Georgiana Kam Endowed Excellence Scholarship:

Edwin and Georgiana Kam were born and raised on Oahu. Georgiana purchased and managed City Pharmacy from 1980 for

nearly 30 years until she sold City Pharmacy to Longs/ CVS in 2008. The Kams established this scholarship in 2012 hoping to encourage students with an entrepreneurial spirit and passion to pursue their particular area of interest in innovative pharmacy practice.

This year's recipients are: Kimo Okamoto and Tyler Peterson

Mr. Nagakatsu Kumao Otsuka and Dr. Raymond Masashi Otsuka Memorial Scholarship

Dr. Anthony Otsuka who retired from the DKICP Pharmaceutical Sciences Department in 2015, established the Mr. Nagakatsu Kumao Otsuka and Dr. Raymond Masashi Otsuka Memorial Scholarship to honor his father and Grandfather by providing scholarship assistance to students at DKICP.

This year's recipients are: Qixin (Sandy) Li and Nathan Sunada

The UH Hilo Class of 2013 Scholarship:

Before graduating, the DKICP 2013 Class Council presented a gift to the college by establishing the UH Hilo DKICP Class of 2013 Scholarship to support DKICP student pharmacists following in their footsteps.

This year's recipient is: Clement Tran Tang

Safeway Pharmacy Scholarship:

Established in 2010, the Safeway Pharmacy Scholarship is awarded to a student with high academic achievement and has demonstrated an interest in pursuing a career in community pharmacy.

This year's recipient is: Donald Waddell

Ron and Alice Taniguchi Endowed Scholarship in Pharmacy:

Dr. Ronald Taniguchi and his wife Alice Taniguchi endowed this scholarship in 2013 to support third and fourth year student pharmacists at DKICP that are high school graduates from the neighbor islands of Kaua'i, Moloka'i and Lana'i. Dr. Taniguchi capped a 40 year pharmacy career as a faculty member at DKICP, retiring in 2011.

This year's recipient is: Cherielyne Baldugo

Walgreens Diversity and Inclusion Scholarship:

Established in 2012, the Walgreens Diversity and Inclusion Scholarship is awarded to a student who has made a personal commitment to diversity and promotes diversity and inclusion initiatives on Campus

This year's recipient is: Robyn Rector

Walgreens Multilingual Scholarship:

Established in 2012, the Walgreens Multilingual Scholarship is awarded to a student who is fluent speaking in one or more languages in addition to English with an interest in pursuing a career in community pharmacy.

This year's recipient is: Gam Phan

Walmart Pharmacy Scholarship:

Established in 2008, the Walmart Pharmacy Scholarship is awarded to a student who has demonstrated an ability to lead others and has an interest in pursuing a career in community pharmacy.

This year's recipient is: Mary Lui

John M. and Mimi F. Pezzuto Excellence Scholarship:

Longtime supporters of DKICP, Dr. Hany Guirguis and Adele Etinas, who were co-owners of Mina Pharmacy, established the John M. and Mimi F. Pezzuto Excellence Scholarship in 2015 to recognize DKICP's founding Dean and his wife for their contributions to the creation of our college.

This year's recipients are: Katrina Downey, Cathlyn Goo and Kevin Lei



Scholarship Winners: Robyn Rector, Clement Tran Tang, Donald Waddell, Gam Phan, Cherilyne Baldugo



Scholarship Winners: Sean Domingo, Jaymee-Rae Pang, Brittany Luna, Johnson Siu, Qixin Li, Donald Waddell



Student Choice Award for Teaching: Abhijit Date (left) with Dean Ma



Scholarship Winners: Jhoana Paula Gonzales, Kelsey Trujillo, Karen Pae, Imaikalani Chock, Gregg Tam, Veronica Wong



Student Choice Award for Teaching: Bryce Fukunaga (right) with Dean Ma



Scholarship Winners: Mary Lui, Cathlyn Goo, Katrina Downey, Kevin Lei



Student Choice Award for Teaching: Chad Kawakami (right) with Dean Ma



Student Choice Award for Teaching: Daniela Guendisch (right) with Dean Ma



Scholarship Winners: Kimo Okamoto, Nichole Chaffin, Rachel Randall, Tyler Peterson, Rene Scott Chavez, Qixin Li, Nathan Sunada



Student Organization of the Year, NCPA



Student Choice Award for Teaching: George Karvas (right) with Dean Ma



Student Choice Award for Teaching: Linda Connelly (right) with Dean Ma



DKICP UH Hilo Student Association Lauren Glover Alejado (right) with Aaron Jacobs



American Institute of the History of Pharmacy: Rachel Randall

International expert on infectious disease visits Hilo to discuss Rat Lungworm Disease



A renowned veterinarian from Australia spoke about how knowledge about animals contracting rat lungworm disease (RLW) can help fight the spread of the disease at the University of Hawai'i at Hilo May 1.

The event was held in room 108 of the Science and Technology Building on the corner of West Lanakaula and Nowelo streets.

Richard Malik, from the University of Sydney's School of Veterinary Science, gave a talk entitled "Rat lungworm disease: A one health approach using animals as sentinels." He first diagnosed rat lungworm disease in dogs in Sydney in 1989, and has researched the incidence and development of the infection in companion animals, wildlife and human patients. Malik also is a consultant in small animal medicine who has a special interest in infectious diseases of companion animals.

Merrie Monarch Parade brings out community spirit

Once again, DKICP took part in an annual Hilo celebration by participating in the 55th Merrie Monarch Royal Parade through downtown Hilo on April 7. The parade caps the final day of a weeklong tribute to the art of Hula, featuring an internationally acclaimed hula competition, an invitational Hawaiian arts fair and hula shows. This year, Dean Carolyn Ma was the featured guest on a float created by student pharmacists from the Class of 2020, supervised by Dr. Julie Adrian, Class of 2020 Faculty Advisor and assisted by Dr. Dana-Lynn Koomoa Lange. Special mahalo to Albert Shiotsuka, owner of Kona Trans, a local moving company on the Big Island, who donated the use of their truck and Damien Julius who approved the use of the warehouse for the students to prepare the float during the week before the parade. Freight Dispatcher Ray Velez facilitated the project, and helped enlist the time of a driver to help out the day of the parade. Dean Ma expressed her gratitude for all who worked on the project, saying: "Having this important event on a class or organization's agenda really shows a commitment to our community. I could tell by the cheers from the crowd that Hilo really appreciated our participation." (Photos by Johnson Tran)





Rho Chi initiates new members at annual banquet

By Rene Chavez
(Class of 2019)

The Rho Chi Society's Delta Iota chapter at the Daniel K. Inouye College of Pharmacy (DKICP) inducted 16 student pharmacists from the class of 2020, one Ph.D. student, and one faculty initiate at a banquet held in the Moku'ola Ballroom at the Hilo Hawaiian Hotel. The dinner was sponsored by Walgreens, and was attended by Dr. Erin Samura, Hilo Walgreens pharmacy manager, and Denay Jones, Hilo Walgreens store manager.

The keynote speaker of the event was Dr. Jessica Toyama, who served as the class

president of DKICP's inaugural class of 2011 and was also a member of the college's first Rho Chi Honor Society cohort.

Dr. Toyama is now the pharmacy manager at Walgreens Wahiawā, which is located on her home island of O'ahu. She was born and raised in 'Aiea, HI and graduated from Moanalua High School. Dr. Toyama received her bachelor's degree in psychology from the University of Washington prior to attending DKICP. In 2014, she received the Distinguished Young Pharmacist Award from Hawai'i Pharmacists



Association (HPhA), for her contributions towards the pharmacy profession as a newly licensed Hawai'i pharmacist.

In her speech, Dr. Toyama emphasized the importance of finding a balance between goals within the pharmacy profession and one's personal life. She encouraged students to continue striving for excellence in academics and their future careers while also making time for loved ones and any personal goals outside of pharmacy. The pharmacy profession can be very demanding so it is common for many pharmacists to become caught up in their careers.

Dr. Toyama also stressed the importance of treating patients as more than just numbers. This involves always respecting patients and treating them with kindness, keeping an open mind, and refraining from judgement. We never know what others might be going through so it is important to take the time to listen to our patients. Establishing rapport with patients are paramount to our success as healthcare professionals since it enables us to obtain additional information that can be used to look past the numbers and deliver optimal patient-centered care.

The Rho Chi Society is nationally recognized as the only academic honor society in pharmacy. Membership in the organization is a privilege accorded to the few who distinguish themselves by their academic and professional achievements and who aspire to advance pharmacy through intellectual leadership. Each academic year, DKICP's Delta Iota chapter invites the top 20 percent of students who have completed half of their didactic coursework (three semesters total). The mission of the society is to encourage and recognize intellectual achievement,

contribute to the development of intellectual leaders, promote the highest ethical standards, and foster collaboration.

Dr. Supakit Wongwiwatthananut, professor and Rho Chi Delta Iota chapter faculty advisor, presented the initiation of the new members, which included the recital of the pledge and presentation of new member certificates and pins.

The chapter welcomed pharmacy students, Brandi Chun, Joshua Dillon, Jensine Melody Domingo, Amelia Furlan, Taylor Hori, Kamala Lizama, Tracy Lopez, Mary Lui, Jarin Miyamoto, Tony Moua, Stacey Nguyen, Robyn Rector, Shaina Saiki, Reid Shimada, Jared Toba, and Thi Hong Vo. The chapter also initiated Md Siraj as a member for fulfilling all eligibility requirements for PhD students. The chapter also welcomed faculty member, Dr. Louis Lteif, into the organization. In addition to lecturing, Dr. Lteif has shown his commitment to fostering intellectual excellence by attending Rho Chi's workshops and other student organization activities. Furthermore, he serves as an outstanding mentor for students and was recognized as Faculty Preceptor of the Year in 2017.

New officers for the 2018-2019 academic school year were also inducted into office at the ceremony. The new inducted officers were: president: Taylor Hori; vice president: Jensine Melody Domingo; secretary: Stacey Nguyen; treasurer: Robyn Rector; and historian: Kamala Lizama.

Dr. Supakit presented student pharmacists who had the highest scholastic achievement for each Pharm.D. course in the spring and fall semesters of the 2017 calendar year. Dean Carolyn Ma honored and gave the Rho Chi Recognition Award



Certificates to the following students: DaHai Lee for Pharmaceutical Calculations; Patsylynn Jetley for Pharmaceutical Calculations; Qixin (Sandy) Li for Pharmaceutical Calculations, Pharmaceutical Immunology, Drug Action 1, Biochemistry – biomolecules, and Pharmaceutics I; Donald Waddell for Pharmaceutics I; Brandon Chagami for Pharmaceutics I; Minneh Oyas for Pharmacy Communications and Culture; Mary Lui for Pharmaceutics II; Amelia Furlan for Drug Action 2, Biostatistics, and Drug Information; Robyn Rector for Pharmacy Self-Care I, Pharmacy Self Care II, Pathophysiology, Biochemistry – metabolism, Integrated Therapeutics I, Evidence-based Medicine and Literature evaluation, and Pharmacokinetics; Ashley Uehara for Pharmacy Law and Ethics, Health Care Systems, Wellness and Disease Prevention, and Complementary Medicine; Carrie Yeung for Integrated Therapeutics 2; Nancy Wong for Integrated Therapeutics 2 and Integrated Therapeutics 3; Stacey Lu for Health Care Systems; Veronica Wong for Health Care Systems; Deniz Bicakci for Pharmacy Practice Management and Marketing; Gam Phan and Rene Scott Chavez for the certificate of appreciation for having the highest tutoring hours spent with our P1 and P2 students; Rene Scott Chavez for the certificate of leadership in honor of the outstanding contributions made towards the goals of the chapter.

DKICP faculty members who attended included Julie Adrian, Leng Chee Chang, Linda Connelly, Abhijit Date, Patricia Juszczak, George Karvas, Tamara Kondratyuk, Louis Lteif, Carolyn Ma, Jarred Prudencio, Dianqing Sun, Supakit Wongwiwatthananut, and Paula Zeszotarski. (Photos by Tracey Niimi)





Legislators meet student pharmacists

In April, Gerald De Mello organized a trip for first-year student pharmacists and Dean Carolyn Ma to visit with legislators at the State Capitol in Honolulu. Student pharmacists from the Class of 2021 who attended included Kimberly Lin, Noelle Lovesy, Brooke Higa, Sean Domingo, Kevin Lee, Destinee Ogas, Tiana E Ramos, Ashley Maldonado, and Brittany Luna. They were able to meet with Governor David Ige, Representative Chris Todd from District 2, Keaukaha and Senator Kai Kahele from the first senatorial district, which encompasses the greater Hilo area on the Island of Hawai'i, and Representative Richard Onishi, from State House District 3, stretching from South Hilo to Punalu'u and consists of over 10 very diverse communities such as Keaau, Mountain View, Volcano and Pahala. (Photos by Sean Domingo)





Dr. Qingxiao Li

Dr. Qingxiao Li (in the center with lei) Professor with the Department of Molecular Biosciences & BioEngineering at University of Hawai'i at Manoa, presented a seminar entitled "Synergy in Alzheimer's Research Between Agriculture and Medicine" on DKICP campus May 30. Posing with Dr. Li are (from left) Kh Ahammad Uz Zaman (graduate student), Dr. Arulmani Manavalan (postdoctoral associate), Professor Qingxiao Li, Dr. Shugeng Cao, and Dr. Chunshun Li (postdoctoral associate).



Dr. Santiago Partida Sanchez

Dr. Santiago Partida Sanchez, Associate Professor with the Department of Pediatrics and Center for Microbial Pathogenesis at The Research Institute at Nationwide Children's Hospital and the Center for Microbial Interface Biology, College of Medicine at The Ohio State University in Columbus, Ohio presented a seminar entitled "TRP Channels Regulate the Function of Phagocytic Cells During Inflammation and Infection" on DKICP campus May 18. His hosts were Drs. Ingo Koomoa-Lange and Dana Koomoa-Lange from the Department of Pharmaceutical Sciences.



Dr. Yousong Ding

Dr. Yousong Ding, Assistant Professor with the Department of Medicinal Chemistry at University of Florida in Gainesville presented a seminar titled "Discovery and Production of Bioactive Microbial Natural Products and Their Analogs" on DKICP campus June 25. His host was (on the right) Dr. Shugeng Cao, Associate Professor, Department of Pharmaceutical Sciences.



Faculty Briefs

Shugeng Cao, Associate Professor, Daniela Gündisch, Associate Professor, Tamara P. Kondratyuk, Laboratory Manager and Associate Specialist, all from the Department of Pharmaceutical Sciences, and John Pezzuto, Dean emeritus, were co-authors on an article entitled “Heliotropiumides A and B, new phenolamides with N-carbamoyl putrescine moiety from *Heliotropium foertherianum* collected in Hawai‘i and their biological activities” that was published in *Bioorganic & Medicinal Chemistry Letters*. Co-authors were Yousheng Cai, Ariel M. Sarotti and James Turkson. Dr. Cao also was an invited speaker at the “4th International Conference and Exhibition on Natural Products, Medicinal Plants & Marine Drugs”, Universität Basel, and Universität Konstanz in June.



Karen Pellegrin, Director, Continuing/Distance Education and Strategic Planning, gave three invited talks in Canada: 1) a symposium session on health information technology at the Canadian Geriatrics Society 2018 Annual Scientific Meeting April 21 in Montreal, Quebec; 2) “Leveraging pharmacists to reduce medication-related hospitalizations among older adults: The Pharm2Pharm model” at the University of Sherbrooke, April 18 and 3) at the University of Montreal April 20. Dr. Pellegrin also was co-author on a poster presentation entitled “Association Between Education, Physical and Emotional Health, and Social Support in San Diego” at the 2018 Annual Public Health Research Day, University of California San Diego, Institute for Public Health, April 4. Co-authors were K. De Vries, E. Duxbury, C. Mnatzaganian, and E. Fricovsky.



Tamara Kondratyuk, Laboratory Manager and Associate Specialist, was a co-author in a study entitled “In vitro anti-inflammatory activity of terpenes via suppression of superoxide and nitric oxide generation and the NF-κB signalling pathway” published in *Inflammopharmacology*. Apr 19. Co-authors were F.M. Marques, M.M. Figueira, E.F.P. Schmitt, D.C. Endringer, R. Scherer, and M. Fronza. This work summarizes results of collaboration between DKICP and the Department of Pharmacy, Laboratory of Natural Products, Vila Velha University, Brazil.



Jarred Prudencio, Assistant Professor, Department of Pharmacy Practice, was a co-author on an article entitled “The Effect of Clinical Pharmacist-Led Comprehensive Medication Management on Chronic Disease State Goal Attainment in a Patient-Centered Medical Home” that was published in the *Journal of Managed Care & Specialty Pharmacy*. Co-authors were Timothy Cutler, Stephanie Roberts, Stephanie Marin and Machel Wilson.



Camlyn Masuda, Assistant Professor, Department of Pharmacy Practice, was a co-author with L. Aggarwal in a study entitled “Osteoporosis: A quick update” that was published in *The Journal of Family Practice* 2018 February. Dr. Masuda also was chairperson for the Hawai‘i Pharmacists Association (HPhA) annual meeting that was held at the Kapiolani Community College April 28-29.



Deborah Taira, Professor, Department of Pharmacy Practice, is a co-author of two manuscripts accepted for publication: 1) “Hospice Utilization of Medicare Beneficiaries in Hawai‘i Compared to Other States” in *Asian Pacific Islander Nursing Journal*; 2) “Ambulatory Blood Pressure Monitoring: Underuse in Clinical Practice in Hawai‘i.” In *Hawai‘i Journal of Medicine and Public Health*.



DKICP joins national group to examine teaching methods

Five faculty members joined together to act as a team that represented DKICP at the third Transformation & Innovation in Pharmacy Education Institute (TIPed) in Spokane Washington June 12-14. They were (from left) Dean Carolyn Ma, who also served on a Dean’s Panel, Drs. Jarred Prudencio, Michelle Kim, Aryn You, who spoke on “Co-coordinating Nursing Pharmacology Course,” and Lara Gomez.

The University of Washington School of Pharmacy presented the annual conference, which began in 2016. The group aims to change the way health care professionals are taught. Topics included teaching & learning, interprofessional practice & education, student support & culture, and practice readiness and leadership.

Among those attending from Colleges of Pharmacy nationwide included deans, associate/assistant deans, senior faculty assigned to leading curricular and/or assessment changes, teaching faculty and preceptors, student services leadership and experiential education directors. They assembled as teams to discuss issues related to the method or practice of teaching, or pedagogy.



DKICP 10th Annual Health Fair
October, 20, 2018
Prince Kuhio Plaza
Hilo, Hawai‘i

High School students awards

Two high school students from Hilo High School who are working in Professor Sue Jarvi's Rat Lungworm Research Group did well at the Hawai'i District Science and Engineering Fair, held at 'Imiloa Astronomy Center on Feb. 17. Ina Kalsner won the Best in Biomedical and Health Sciences award. In the Jarvi lab, she is working on a "death as-

say" for determining if *Angiostrongylus cantonensis* larvae are dead, is starting to test solutions to effectively wash vegetables.

Elizabeth Atkinson was awarded Best in Cellular and Molecular Biology. She is working on an isothermal PCR for detecting *A. cantonensis* DNA in biological samples at room temperature.



Ina Kalsner



Elizabeth Atkinson

Student Organizations

A.L.O.H.A. Project

The A.L.O.H.A. Project continues to emphasize education in community outreach

By Mary Lui (Class of 2020)

The A.L.O.H.A. (A Life of Health and Awareness) Project celebrates another year of continued outreach with a particular emphasis on education. This student-led organization strives to prepare new classes of student pharmacists to comfortably interact and counsel patients in addition to performing key physical screening skills.

To start off the year strong, the A.L.O.H.A. Project held two general review sessions open to all student pharmacists for both physical and counseling sign-offs for the Introductory Pharmacy Practice Experience courses. These review sessions provided an overview of screening protocol with a brief presentation, handout and practice time with various scenarios.



Student Pharmacists Nick Tsoi and Rene Chavez demonstrate how to take a blood glucose reading at the HOSA Regional Conference.

Throughout the year, the A.L.O.H.A. Project coordinated multiple screening events at local pharmacies throughout Hilo, as well as in Honokaa, Waimea, and Waikoloa. These events afforded students the opportunity to practice their screening and counseling skills, and most importantly, serve as educational resources for all our patients. Whether it was answering questions about what foods to avoid, or what factors can alleviate symptoms of asthma, students had a profound impact on the health awareness of community members. The A.L.O.H.A. Project also was successful in hosting monthly Campus Follow-Up Events throughout the year for patients who had abnormal values during a screening. First-year student pharmacists were allowed to shadow screeners, and practice basic screening techniques on each another. These events ultimately helped our community members learn about and practice truly balanced and healthy lifestyles.

In both the fall and spring semester, the A.L.O.H.A. Project also participated in the HOSA (Health Occupation Students of America) Regional Conference, and AHEC (Area Health Education Center) Teen Health Camp directed towards undergraduate and high school students. More than ten workshops were held to introduce these students to the physical skills of blood pres-



First-year pharmacy students practice taking blood pressure on Veronica Wong, a third-year screener, at a Campus Follow-Up Event. sure reading and blood glucose screenings.

In the future, the A.L.O.H.A. Project seeks to employ quality improvement measures and identify key counseling points that should be emphasized during each screening. The A.L.O.H.A. Project welcomes all student pharmacists to participate in furthering the education of themselves, undergraduate and high school students, as well as our community members in the upcoming academic year. (Photos by Mary Lui)



Students practice taking blood pressure on their partners at the UH Hilo Teen Camp.

Kappa Psi

Work in classroom/community strengthens bonds

By Sean Domingo (Class of 2021)

The 2017-2018 school year was a great one for the Kappa Psi Epsilon Psi Chapter. After five months of pledging our chapter was pleased to welcome the Eta class into the brotherhood. The Eta class started out as young and naive first-year student pharmacists. They faced numerous challenges during this process, ranging from multiple exams per week, sign-offs, and various presentations. Despite this, however, they never gave up and always tried their best, growing tremendously and gaining confidence. The Eta Class have proven and exemplified the core values of Kappa Psi.



Top row from left: Sean Domingo, Kimberly Lin, Jenna James, Deena Tanimoto, Anthony Peguese, Alan Trinh. Bottom row from left: Josephine McDonald, Noelle Lovesy, Nichole Chaffin, Brooke Higa, Brittany Luna, Ashley Maldonado

As we welcome new brothers, we must also say farewell to others. The brothers of Epsilon Psi Chapter would like to congratulate the Class of 2018 on their graduation as well as thank and show our gratitude for all they have done for our Fraternity. We know that they will go on to do great things and we cannot wait to see what is in store for them.

With more than 40 active brothers on campus, we were able to accumulate over 150 hours of community service and raise money for various non-profit organizations such as the Hawai'i Island HIV/AIDS Foundations and the Movember Foundation. All of the achievements we celebrated this year were made possible through the dedication and passion of our Brotherhood. Our hard work both in the classroom and in our community strengthened our bonds and fellowship, creating memories and moments that will be cherished. As we end the year, we would like to also thank everyone who helped us along the way.



Kappa grads: Back Row from left: Dr. Ronald Susa, Dr. Jeffery Tang, Dr. Kimberly Wu, Dr. Vivian Tran, Dr. Jesse Santos, and Dr. Lam Le. Front Row from left: Dr. Lauren Mahina Sato, Dr. Seungyen Kris Yoo, and Dr. Amber Uto. Not Pictured: Dr. Andrew Skorheim, Dr. Lauren Simpson, Dr. Lauren Skorheim, Dr. Niko Pogorevnik, and Dr. Tram Le.

NCPA

Popular 'Compounding for Kids' booth exposes community to important pharmacy tool

By Jared Toba (Class of 2020)
NCPA Student Chapter President

Members of the National Community Pharmacists Association (NCPA) took a break from studying for their much-anticipated final exams and spent the day May 5 to volunteer their time at the 17th Annual AstroDay at the Prince Kuhio Plaza. The event is put on by Maunakea Observatories celebrating Hawai'i Astronomy and community, provided the opportunity for children and adults alike to learn about the dynamic field of astronomy and science through various booths and presentations spread out throughout the mall.



From left: Brittany Luna, Ashely Maldonado, Kaylee Hoang

Compounding pharmacists are some of the most important individuals in the world of pharmacy, being able to create individualized medications to meet patients' specific needs. Many of the community service events NCPA participates in involve compounding silly putty. We are able to educate children in the community about a simple compound that can be made at a home, which is similar to what a compounding pharmacist does on a daily basis. Through a simple mixture of glue, water, borax, food coloring, and possibly even glitter, silly putty is formed, bringing joy to the child who compounded it. AstroDay 2018 proved to be a popular event in the community and NCPA

was able to help compound more than 200 silly putty samples for the children who attended.

NCPA hopes to continue being an active member in our Big Island community by participating in community service events like these during the upcoming 2018-19 school year.



From left: Kevin Lee, Jared Toba, Isaiah Wise

Student Organizations

Phi Delta Chi

Community outreach activities include health, homeless, food and clothing

Pahoa Wellness Event (Submitted by Mary Lui, Class of 2020)

Members of Phi Delta Chi, Gamma Theta Chapter volunteered at the Pahoa Complex Schools Health and Wellness Fair in February. This event coincided with Makahiki, which is a cultural celebration of peace. Dressed in PDC gear with their school name badges, members manned three stations. Two stations provided comprehensive health screenings to members of the community, while the third provided an interactive Compounding for Kids activity. Members spent the day there, interacting with the community and learning more about traditional Hawaiian culture by engaging in traditional physical activities.



Homeless Outreach (Submitted by Kelsey Trujillo, Class of 2020)

On the last Monday of every month, Hilo Missionary Church prepares food and delivers it to various people that are homeless in downtown Hilo. We helped Hilo Missionary Church prepare chili/rice bowls and care packages. We broke up into four groups and each went on our own way in downtown Hilo. The people who we met were so grateful for the food and toiletries. One person gave us grass hats that he had made because he was so appreciative of what we were doing. This outreach made me realize how much we make a difference in a person's life and I hope the members of our Chapter will have the opportunity to be able to help out in the future.

End of the Year Drive (Submitted by Cherie Baldugo, Class of 2020)

The End of the Year Food and Clothing Drive was held at DKICP and open to all pharmacy students between April 15 and May 4. We received generous donations of women's, men's and infant/toddler clothing, toys, non-perishable food items, blankets, flashlights, ponchos, and toiletries. On the final day of collection, the items were sorted, counted and donated to the Hilo Missionary Church. We collected more than 1,300 items that the church will be able to distribute to the homeless community of Hilo.



Phi Lambda Sigma

Annual forum focuses on 'Inspiring Future Leaders'

By Nicholas Tsoi and Nancy Wong (Class of 2019)

The Delta Lambda Chapter of Phi Lambda Sigma (PLS), the pharmacy leadership society at the Daniel K. Inouye College of Pharmacy (DKICP), held our 4th Annual Spring Leadership Symposium on Sunday, April 22. This year our symposium included a legislative talk, fellowship roundtable, residency roundtable, and a leadership development workshop. Our goal was to motivate our fellow student pharmacists to be involved with the legislative process, be informed about postgraduate opportunities, and learn how they can work in teams with different leadership styles.

During our legislative talk, Dean Carolyn Ma shared her knowledge and experience with legislation. More importantly, she discussed how legislation affects our practice and how students can get involved. From a didactic standpoint, exposure to legislation and law is reserved for our second year students, thus our membership felt that it would be beneficial to expose our first year students early. For our senior attendees, we felt it would be a great refresher and would provide great insight from a personal perspective.

Following the legislative talk was our fellowship roundtable. In contrast to residencies, fellowships provide unique opportunities for individuals to work in the field of research and drug development. Our fellowship guest speakers included Drs. Shivani Shah and Sandhya Balachandrar from the Rutgers Pharmaceutical Industry Fellowship Program, and Dr. Rowshan Chowdhury from the Massachusetts College of Pharmacy and Health Sciences Pharmaceutical Industry Fellowship Program. They educated us on the different avenues of a pharmaceutical industry fellowship and how one could attain a fellowship.



Nancy Wong introduces guests for the residency roundtable.

The fellowship roundtable was followed by our residency roundtable. During this session, students learned about another postgraduate opportunity: residency. We were joined by Dr. Sheri Tokumaru, the Residency Program Director for DKICP's postgraduate year 2 (PGY2) program in critical care at the Queen's Medical Center in Oahu, Dr. Kristine Luong, a current resident of DKICP's PGY2 program, and Dr. Aryn You, a past resident of DKICP's postgraduate year 1 (PGY1) program at Straub Medical Center in Oahu and Wilcox Memorial Hospital in Kauai. They shared their insight into the application process, what makes candidates competitive, and how one can become a competitive applicant.

The topic of residency often focuses on ones that are set in acute or ambulatory care settings. PLS members sought to expose students to other residency opportunities. Although community pharmacy residencies are fairly new, they are developing a larger role in the pharmacy field. Dr. Anissa Marzuki, DKICP alumni (Class of 2016), spoke to us about her experience as the Residency Program Coordinator for Albertsons, one of America's largest community chains.

Lastly, PLS members Nicholas Tsoi and Nancy Wong put together a leadership workshop focusing on effectively working with different leadership styles. From this workshop, students learned about different styles a leader can possess, such as Pioneers, Drivers, Guardians, and Integrators. They also learned strategies to work in teams that consist of people with various leadership styles.

PLS strives to develop leadership in our fellow Student Pharmacists. Our hopes for this symposium was to provide our colleagues with the tools needed to work effectively in teams as well as motivate them to become advocates for pharmacy legislation and be proactive in seeking out postgraduate opportunities that best suit their interests. We hope to continue making a positive impact on DKICP with our future events.



Former and newly elected members of Phi Lambda Sigma capture final leadership project together as a team.

Faculty Preceptor of the Year 2018:



Dr. Jarred Prudencio

Dr. Jarred Prudencio was born and raised in Hilo, and graduated with a Pharm.D. from DKICP in 2015. He completed a PGY-1 residency at UC Davis Medical Center with an emphasis in ambulatory care, and earned a teaching certificate from the Scholarship in Teaching and Learning Program.

His current practice site is the Hawai'i Island Family Health Center (HIFHC), where he precept students on ambulatory care rotations. DKICP's pharmacy service at HIFHC focuses around Comprehensive Medication Management, where they see patients to optimize their medication regimens and improve patient outcomes.

He says his interest in precepting first started as a fourth-year student. "Having had great preceptors on my APPE rotations inspired me to want to precept students in my future career. I was able to gain some experience in precepting during my residency, and have thoroughly enjoyed precepting DKICP students for the past two years. It's such a rewarding feeling to see students making the connections from the classroom into actual patient care, and seeing them start to grow into independent clinicians."

Preceptor of the Year 2018:

Dr. Mark Mierzwa, Pharmacy Director, Pharmerica/ Kaneohe, Hawai'i State Hospital

Excerpted from his acceptance speech at the Class of 2018 Graduation Recognition Ceremony:

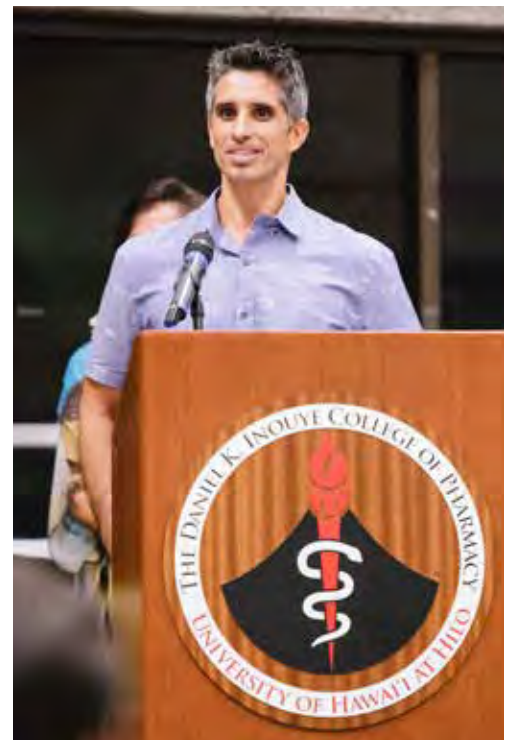
I am honored to be selected the 2018 preceptor of the year for The Daniel K. Inouye College of Pharmacy, University of Hawai'i at Hilo. I would like to thank the College of Pharmacy, the students who have rotated with us, and our amazing pharmacy team at Hawai'i State Hospital. There are many daily elements that come together for a successful learning experience.

I became a registered pharmacist in 2000 and continued my education at Rutgers University, College of Pharmacy, to receive my PharmD in 2001. In June 2001, I started my career in psychiatric pharmacy at Hawai'i State Hospital, Kaneohe. My passion for psychiatric pharmacy led me to achieve my goal of becoming a board certified psychiatric pharmacist in 2005. From 2005-2010, I took on the role as Assistant Director of Pharmacy Services and managed a PGY1 residency with an emphasis in psychiatry at Saint Barnabas Behavioral Health, NJ. In 2010, I returned to my current role at Hawai'i State Hospital as Pharmacy Director and PGY2 Psychiatric Pharmacy Residency Director. Our site became an ASHP accredited PGY2 psychiatric pharmacy residency program in February 2015.

Serving as a preceptor is awarding, motivating, and challenging all at the same time. Precepting can make a difference in the lives of pharmacy students. During the clinical rotations year, preceptors help students bring all the concepts they have learned in the classroom into real world practice. Students bring enthusiasm and a thirst for knowledge, which in turn adds to my motivation to keep up with the latest treatments and guidelines.

Outside of pharmacy, I enjoy outdoor activities like surfing and gardening, and spending time with my loving and supportive family.

Congratulations to the graduating class of 2018 and thank you for the opportunity to serve as a preceptor. Continue to challenge yourself, be a self-motivated learner, and advance the profession of pharmacy as a member of the healthcare team.





Elective experience at FDA gives glimpse of industrial pharmacists

By Phuong An Nguyen-Huu, (Class of 2018)

One of the many opportunities to further explore the career path of industry pharmacists is to apply for a Food & Drug Administration Advanced Pharmacy Practice Experience (APPE) rotation. During this elective rotation, students are assigned to a particular FDA office or division and have the chance to contribute to meaningful projects under the supervision of a preceptor. This year, I had the pleasure of completing a six-week rotation at the FDA in Maryland, allowing me to obtain a first-hand look at how the agency operates and functions.

During my first weeks on campus I shadowed many health professionals within the Office of Surveillance and Epidemiology (OSE), who helped me gain insight into multiple impactful projects and goals at the FDA. In the Office of Pharmacovigilance, a branch of OSE, pharmacists analyze spontaneous reports to draw potential conclusions about drug-adverse event relationships that have not been previously found, for example, in clinical trials.

Additionally, in the Regulatory Science Staff, another part of OSE, pharmacists work on new tools that could facilitate the analysis of such spontaneous reports or other adverse event reports. These are two of the many building blocks of the FDA, in which multiple teams work together to improve drug safety.

During the following weeks of my rotation, I had the opportunity to contribute to OSE by evaluating the current Postmarket Surveillance System and conducting research on new data standards that could potentially accelerate the analysis of adverse event reports.

This project allowed me to interact with pharmacists and IT specialists in drug safety, to evaluate tools that could potentially help the agency reach faster regulatory decisions on drug labeling or Risk Evaluation and Mitigation Strategies. I greatly enjoyed this project as it challenged me to learn about new technologies and data exchange, topics I had not worked with before in great detail. In addition, I found it very interesting to discuss big-picture results with the pharmacists and learn about the potential changes within the healthcare system through new data transfer tools.

In conclusion, I am very grateful to have been able to visit the FDA, meet such knowledgeable and passionate healthcare professionals from all over the world, and contribute to rewarding projects as a student. The rotation gave me an inside look into how government agencies work to ensure public safety and how valuable of an asset pharmacists are in such a unique work environment. This elective was a great addition to the wonderful APPE experiences at DKICP.

Thank you very much to all the mentors and advisors who keep supporting students in obtaining enriching experiences such as this one.

Alumni Update

Two alum excel within Hawai'i Pacific Health System on O'ahu



Dr. Casey Suehiro (Class of 2011)

After graduating from DKICP as part of the inaugural class of 2011, I joined Kapi'olani Medical Center for Women and Children as a staff pharmacist. After about a year, I transitioned into a clinical pharmacist role in the Women's Cancer Center where I am currently a part of a healthcare team consisting of a gynecologic oncologist, medical oncologists, oncology nurses, patient navigator/social worker etc. Together, we provide comprehensive cancer care for mostly women. We specialize in treating breast, cervical, endometrial, ovarian and cervical cancer patients.

I would like to thank the college of pharmacy for offering a quality pharmacy education and clinical practice experience here in Hawai'i. The program provided me with confidence as a pharmacist that was needed to make a smooth transition into hospital pharmacy.

Dr. Michelle Le-Fisher (Class of 2013)

It's hard to believe that it's been almost five years since I graduated from pharmacy school. While I was going to school in Hilo, I really enjoyed hanging out with friends and going on adventures around the Big Island, farmers markets on the weekend, no traffic and big parking spots, decompressing at the Student Life Center, just the simple routine of being a student.

After graduation, I returned home to O'ahu and started working for Walmart as a floater pharmacist. I'm currently the part-time pharmacist at the Downtown store in Honolulu, and about a year ago, I started working per diem at Kapi'olani Medical Center as a staff pharmacist.

My professional path hasn't gone the way I expected, but each opportunity I've encountered has helped me to evolve as a pharmacist. I look forward to continuing to further develop my knowledge and skills in this field. Through pharmacy school, I didn't just earn a valuable education and build a solid professional foundation, I was also given the opportunity to learn and grow as an individual, form special friendships and work with genuinely caring and supportive people within the school as well as in the community.

I'm truly grateful for all of my experiences at the UH Hilo DKICP and will always have fond memories of that time in my life. Best of luck to all of you, enjoy the journey!



NOTE TO ALUMNI:

Resuscitate that sense of camaraderie and class loyalty that you built at UH Hilo by submitting to **Kawili La'au Class Notes**

Share what's new with you, from professional life to expanding your family, from adventures at home to travels near and far while providing ways to connect and network. Send whatever you want people to know about you to Kawili La'au editor, morrismm@hawaii.edu.



Alum find ways to stay connected

Groups of alumni gathered in Anchorage, Alaska as well as Seattle, Washington to meet with Dean Carolyn Ma to remember the bond they had as students at UH Hilo.

"I have made it my goal this year to start having more alumni events in order to thank all alumni for their work after graduation and acknowledge how well they continue to represent the college," Dean Ma said

In the past, many DKICP graduates got a chance to get a taste of Alaska via the assistance stipend they received in their final year of rotations while still in pharmacy school. It gave them an opportunity to discover they liked the area so much they decided to make a home there. This type of APPE funding is no longer available Dean Ma said, but we know based on the alumnae we have in Alaska that the model helps to fill the geographical areas that need pharmacists.

"Many of our alumni have been able to help as preceptors for our student pharmacists, as well as help them look for housing and welcome them into their homes for a home-cooked dinner," she noted. This extension of aloha to ohana is one of our core values that many of our students learn while at DKICP.

Dean Ma is taking advantage of these visits to spread the word about the Alumni & Student Pau Hana in Anaheim, California Dec. 4. The celebration will run consecutively with the Midyear conference



From left: Drs. Chris Nakagawa (Class of 2018), Caroline Rhee (Class of 2018), Dean Carolyn Ma, Trenton Aoki (Class of 2017), Lauryn Mow (Class of 2017), Rebecca Freitas, (guest), Dan Hu (Class of 2012), Jarred Prudencio (Class of 2015), Chris Diaz (Class of 2017), Matt Chen (Class of 2018), Mathew Eng (Class of 2018), Jessica Lee (Class of 2018)

for the American Society for Health System Pharmacists, but attendance at the conference isn't mandatory to join other alum, students, faculty and preceptors.

Dean Ma was also able to update the alum on the progress of the construction of the permanent building, for which many of them helped in the campaign with testimony at several years of the legislative session.

"Reconnecting with alumni is one of the best parts of this job because it cements our college's purpose to be a part of helping someone find a purposeful livelihood. Besides hearing about their pharmacy careers, I meet their families and hear about the places they have made their homes. They are making a contribution with thriving and vital lives, and it is truly invigorating to see alumni out working with wonderful jobs, marriages, kids and homes," Dean Ma said happily.



From left: Drs. Stephanie Ogle (Class of 2014), Jenice Kirkland (Jacobs Class of 2011), Matt Kirkland (Class of 2011), Shadi Obeidi (Class of 2014), Brenda Babangan (UH Hilo 1998), Jill Gelviro (Class of 2011), Conner Ferrin (Class of 2015), Dean Carolyn Ma, Enoch Ronduen (2011)



Pharmacy alum enhances pharmacy career with own company, collaborations

After graduating from the inaugural class of 2011, Dr. Zoe Green (formerly Chun-Dela Cruz), began selling her own natural product line of soaps and other cosmeceuticals called “Common Scents.”

Her company is now a non-profit organization offering high-quality natural products at affordable prices to local community. Through the non-profit, she is able to partner with several Hawaiian health organizations to provide health education workshops at schools and other organizations focusing on native Hawaiian plant medicine (la’au lapa’au).

An accomplished health care professional, in 2014 Zoe was the only pharmacist among about 50 doctors, nurses and other medical personnel from the Aloha Medical Mission who visited the Philippines after Typhoon Haiyan, which led to the death of more than 5,700 people. She still contributes to the Ohana Medical Mission through her non-profit.

She also has been more active in primary care practices, working on having “health teams/pods” to increase quality in primary care by closing communication gaps between health care professionals.

“This approach is similar to the way hospitals conduct rounds,” she explained. “When there are multiple disciplines working together, each health professional can focus on their area and communicate in round table style, which allows the PCP to spend more time with their patients.”

Currently, she also is working with physicians on targeting patients with hypertension, diabetes and hyperlipidemia to participate in a study on mamaki tea in primary care practices for heart disease.

“With my company, I am able to help fund the ongoing teachings of native Hawaiian health education, domestic violence programs and various other causes,” she said. “I’ve also been doing motivational speeches on perseverance and succeeding through tough times of domestic violence, where I talk about life during pharmacy school with an infant, a toddler as a working single mother after domestic violence.”

See her Common Scents web site at <https://hicommonscent.com> and reach Zoe at: zoe@hicommonscent.com, 808-543-1113 (office).



Champions of Pharmacy



Selma Yamamoto (left) accepts Preceptor of the Year Award from Dean Carolyn Ma.

Dr. Selma Yamamoto has been named a Champion of Pharmacy for Summer 2018

Dr. Yamamoto has been the preceptor for DKICP's hospital practice/administration Advanced Pharmacy Practice Experiences (APPE) rotation since the program at UH Hilo was begun. In 2016, the students chose her as APPE Preceptor of the Year.

She was the Pharmacy Operations Manager and Residency Program Director for the PGY1 pharmacy practice residency at The Queen's Medical Center. Recently, she retired from QMC after 26 years of service, and went on to become Manager of Inpatient Pharmacy at Cleveland Clinic's Marymount Hospital, a non-profit academic medical center in Cleveland, Ohio. She continues to precept students in Ohio, saying "I love working with students, it brings me great joy."

"Literally hundreds of our student pharmacists have been positively influenced by doing their fourth-year experiential training with Selma," said Dean Carolyn Ma. "She has been one of our most active preceptors, which as many know is a volunteer position, and I can never express enough of our gratitude."

Dr. Yamamoto obtained her Doctorate of Pharmacy from the University of Southern California and later obtained her credentials as a Board Certified Pharmacotherapy Specialist (BCPS). She also received her Healthcare MBA from Loma Linda University School of Public Health.

She is very active in the pharmacy community, having served as the ACPE coordinator for Hawai'i Pharmacists Association, Treasurer for the Hawai'i Chapter of the American College of Healthcare Executives. In 2013, she was awarded the prestigious Bowl of Hygeia Award in 2013 for outstanding community service by the American Pharmacists Association Foundation and the National Alliance of State Pharmacy Associations

When she received the Preceptor of the Year award, she stated: "I enjoy precepting because my students remind me of my beginnings, which keeps me humble. Students give me a reason to continually learn and keep me sharp because of their questions, enthusiasm and energy. I especially like those who challenge me as a professional and as a person. They bless me with their outside-the-box thinking and many creative ideas on how to improve my practice. There were countless times my students saved our department when we were in crisis mode, short staffed and over worked. Thank you UH Hilo COP for the opportunity to work with these amazing students."

With this award, we recognize Selma Yamamoto's unwavering support and guidance to the Daniel K. Inouye College of Pharmacy, and are grateful for her continued affiliation.



DKICP Spring 2018 Dean's List

The following students from the University of Hawai'i at Hilo Daniel K. Inouye College of Pharmacy have been named to the Dean's List for the spring 2018 semester:

Class of 2021

Clifford Agcaoili
Trang Bui
Aileen Bulatao
Nichole Chaffin
Brandon Chagami
Lauren Domingo
Sean Domingo
Angina El
Tailai Guan
Brooke Higa
Taylor Hiraga

Jake Hoctor
Feng Ming Huang
Jenna James
Patsylynn Jetley
Melody Keshavarz
John-Michael Kimhan
Da Hai Lee
QiXin Li
Kimberly Lin
Noelle Lovesy
Brittany Luna

Christian Macaspac
Josephine McDonald
Shane-Earl Naeole
Lan Thi Hoang Nguyen
Nu Nguyen
Destinee Ogas
Rebecca Oshiro
Calvin Ostler
Jaymee-Rae Pang
Elaine Phan
Henry Quach

Tiana Ramos
Norlyn Ranchez
Sera Shimizu
Johnson Siu
James Soe
Deena Tanimoto
Christian Villalta
Donald Waddell

Class of 2020

Brandi Chun
Joshua Dillon
Jensine Melody Domingo
Courtney Elam
Amelia Furlan
Jhoana Paula Gonzales
Taylor Hori
Kamala Lizama

Tracy Lopez
Mary Lui
Anna Claire Masuda
Jarin Miyamoto
Shahrzad Mohammadi
Tony Moua
Stacey Nguyen
Kathleen Nguyen

Brent Ocker
Tyler Peterson
Robyn Rector
Shaina Saiki
Reid Shimada
Samantha Texeira
Jared Toba
Thuy-Mi Tran

Kelsey Trujillo
Thi Hong Vo
Brooke Zariello

Class of 2019

Sydney Barney
Deniz Bicakci
Athena Borhauer
Clarissa Buted
Rene-Scott Chavez
Torrence Ching
Katrina Downey
Samantha Gonzalez
Cathlyn Goo
Leigh Heffner
Faith Hicks
Vance Hill
Preston Ho

Trish Huynh
Stacy Huynh
Cami Kanahele
Gurinder Kaur
Logan Kostur
Kevin Lei
Kate Malasig
Veronica Morales Colon
Jennifer Nguyen
Kelsey Noetzelmann
Kara Paulachak
David Pham
Gam Phan

Rachel Randall
Kamran Sahba
Jae Sung Shim
Desiree Shouse
Clement Tran Tang
Shannon Trinh
Ashley Uehara
Nancy Wong
Veronica Wong
Krystin Yasay
Carrie Yeung

Class of 2019 who have been on the Dean's List every semester since P1 year

Deniz Bicakci
Athena Borhauer
Rene-Scott Chavez
Samantha Gonzalez
Vance Hill
Preston Ho
Kate Malasig

Jennifer Nguyen
Kara Paulachak
David Pham
Gam Phan
Rachel Randall
Shannon Trinh
Ashley Uehara

Nancy Wong
Veronica Wong
Carrie Yeung

