

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

Winter 2013 • Volume 6, Issue 2



Mahalo  
Ron & Alice  
Taniguchi



Meet Dr.  
Patricia  
Uber

Special Focus  
on Preceptors  
and  
Clinical Sites



2013 IPPE  
Preceptor of the Year  
Michael Hoskins



2013 APPE  
Preceptor of the Year  
Wendy Tawata



UNIVERSITY  
of HAWAII®  
HILO

# Dean's Message



Welcome to the 20th issue of Kawili La'au. I receive constant affirmation from people in all walks of life, from members of the community to Deans of other pharmacy programs, that what we are doing is impressive at the Daniel K. Inouye College of Pharmacy. It's really nice to hear. No matter how successful you are in life, no matter how confident you are about being on the right path, you can never hear too many words of encouragement.

That's why, when Ron and Alice Taniguchi chose to become benefactors for current and future generations of student pharmacists from Kaua'i, Moloka'i and Lana'i, it means more than financial support. In classic form, the Taniguchi's are showing they believe in what we're doing for the state of Hawai'i. Their combined professional contributions to the health care system already signals their compassion and dedication to improving the way of life of thousands of people. But this philanthropy is above and beyond any 9 to 5 work week. I am deeply grateful they have chosen this way to help.

At the same time that we are reminded of one our early champions, we welcome a new member to our ranks: Dr. Patricia Uber. As a pharmacist herself, she epitomizes what our students can do with a PharmD degree, and I am confident she will be a great inspiration to many who are lucky enough to cross her path. As Co-Chair of the Department of Pharmacy Practice, she will work directly and indirectly with many of the preceptors and clinical sites also featured in this issue. Her research also will be a great addition, and her international status will help us as we continue to make headway around the world.

That progress is illustrated by our stories describing faculty connections in Japan, Thailand and China. Not only can our students garner invaluable experience working at clinical sites in these locations, but we now have the potential for increased research involving our faculty and PhD students.

All the while, we remain committed to our home state, and do everything we can to help our political representatives learn about the pharmacy profession. Our photo gallery showing many of their visits pays homage to their commitment in spending time with us, and in a special FAQ section, we try to answer many questions they have posed regarding pharmacy as well as the dire need for a permanent building to continue our mission and accreditation. It's a long and complex process. We are proving absolute transparency by providing information that we hope will lead them to understand our dedication. It is important to continue being positive about the future of this college and achieving a permanent building. It is only one more hurdle among the hundreds we have already soared over on our way to becoming a top-25 college of pharmacy.

And because positive affirmation is so important, I want to make sure our alumni know how heartwarming it is to hear of your accomplishments. Many alums are featured in this issue in stories about their work in Hawai'i, throughout the Pacific islands, and volunteer work in the Philippines. I was appreciative of them as students, and I remain honored to call them colleagues now that we're in the same profession.

Enjoy this packed edition of Kawili La'au. And remember, keep us posted on how you're doing and, of equal importance, how we're doing.

A handwritten signature in black ink, appearing to read 'John M. Pezzuto'.

John M. Pezzuto  
Professor and Dean



## Kāwili Lā'au

Winter 2013 • Volume 6, Issue 2

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Co-chair, Pharmacy Practice

#### Patricia Uber

Co-chair, Pharmacy Practice

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College of Pharmacy in the Pacific region,  
the University of Hawai'i at Hilo



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of HAWAII  
**HILO**

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**On the cover:** Ron and Alice Taniguchi made a generous donation to DKICP while supporting pharmacy education for neighboring island students. Also, we feature preceptors who have made their mark on our PharmD education, such as Preceptors of the Year for 2013 Wendy Tawata and Michael Hoskins. And, Dr. Patricia Uber joins UH Hilo as Co-Chair of the Department of Pharmacy Practice.

# Ron and Alice Taniguchi endow pharmacy scholarship

[By the University of Hawai'i Foundation]

Dr. Ronald Taniguchi and his wife, Alice, have made a \$25,000 pledge to fund an endowed scholarship to support third and fourth year students at the Daniel K. Inouye College of Pharmacy at the University of Hawai'i at Hilo. Recipients will be high school graduates from the neighbor islands of Kaua'i, Moloka'i and Lana'i, and have demonstrated leadership skills and a commitment to community service.



"As a founding father, faculty member and now a benefactor, it is difficult to envision stronger dedication than has been embodied by Ron Taniguchi and his wife Alice. We are humbled by their generous support and mindful of our obligation to live up to their expectations," said Founding Daniel K. Inouye College

of Pharmacy Dean John M. Pezzuto. "The Taniguchi legacy will make a difference to the lives of individual students but ultimately will leave all of our islands with improved health care in critical areas of diabetes and heart health and more. Reaching out to students on Kaua'i, Moloka'i and Lana'i is especially meaningful right now as we show the community and the legislature how the scope of the Daniel K. Inouye College of Pharmacy expands to every corner of our state."

Dr. Ronald Taniguchi served in leadership roles at two of the largest healthcare organizations in Hawai'i – Kaiser Permanente and HMSA (Blue Cross and Blue Shield of Hawai'i). He has also been a leader in the community and

held multiple positions in pharmacy associations at the local and national levels. He capped a 40-year pharmacy career as a faculty member at the UH Hilo College of Pharmacy where he served as the director of community partnerships from 2008 – 2011. In this role, he helped galvanize business and industry leaders to lay a strong foundation of support for the college. He now serves as a member of DKICP's Advisory Board.

"This generous gift is meaningful because it builds on the educational legacies of Ron and Alice Taniguchi," said UH Hilo Chancellor Donald Straney. "It is an investment in our students and in the future of our state. It helps us meet our commitment to keep UH Hilo accessible to the people of Hawai'i. Students see that through hard work and dedication, they can become the recipient of funding that helps them realize their dreams. And they understand they're part of a larger community so they know what to do when it's their turn to give back."

Alice Taniguchi earned her Bachelor of Science in Nursing and Master of Public Health degrees from the University of Hawai'i at Mānoa and was the first nurse Certified Diabetes Educator (CDE) in Hawai'i.

Donna Vuchinich, UH Foundation president and CEO added, "It has been very rewarding working with Ron, from the time the College of Pharmacy was only a dream - to today where we have an outstanding faculty, and pharmacy graduates pursuing their careers of choice across Hawai'i and beyond." Vuchinich concluded, "We are very proud of Ron and Alice for their years of service and celebrate their generosity which will enrich the lives of future students and our communities for years to come."

## How to help

The University of Hawai'i Foundation, a nonprofit organization, raises private funds to support the University of Hawai'i System. Their mission is to unite our donors' passions with the University of Hawai'i's aspirations to benefit the people of Hawai'i and beyond. They do this by raising private philanthropic support, managing private investments and nurturing donor and alumni relationships. Please visit [www.uhfoundation.org](http://www.uhfoundation.org). If you are interested in supporting the students and programs at the Daniel K. Inouye College of Pharmacy, please contact the UH Hilo Development Office at (808) 933-1945. You also can make a secure, tax-deductible gift online at [www.uhfoundation.org/GivetoPharmacy](http://www.uhfoundation.org/GivetoPharmacy)



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# Introducing Dr. Patricia Uber

**O**n December 12, Dr. Patricia Uber became Professor and Co-Chair for the Department of Pharmacy Practice.

With 20 years experience working with heart transplant teams and more than 77 publications and 4 book chapters, Dr. Uber qualifies as a heavy hitter in pharmacy.



She came to UH Hilo from the University of Maryland School of Medicine where she was Associate Professor in Medicine. She is also the Executive Editor of the Journal of Heart and Lung Transplantation, a position she has held since 2009.

"After interviewing many candidates, I became convinced Dr. Uber's expertise and personality meshes perfectly not only with our current faculty but where we need to go as a college," said Dean John Pezzuto. "It's perfect timing to welcome her to our administration as we are poised to move to the next level of our own development."

Dr. Uber received her bachelor's degree in Pharmacy from S.U.N.Y. at Buffalo School of Pharmacy and her PharmD from Duquesne University in Pittsburgh. She has held academic positions since 1996, having worked at the University of Toledo in Ohio and Xavier University of Louisiana. She also was staff pharmacist at Penn State University Medical Center in Hershey, Pennsylvania and Mercy Hospital of Pittsburgh. Her wide-ranging job experience in the field also includes Clinical Specialist in Cardiothoracic Surgery and Heart Failure/Heart Transplantation at Ochsner Foundation Hospital in New Orleans; Cardiology/Cardiovascular Surgery Clinical Specialist at the Cleveland Clinic Foundation; Medical Services Manager at Bristol-Myers Squibb in Dallas; and Director of Clinical Research and Protocol Development in New Orleans.

Moving from a six-hour time difference has her looking for the right schedule, but she enjoys golf, running, and yoga. The time difference also affects her contact with her parents, who still live in upstate New York where she grew up. Her other passion is college football, which she shares in texts to her brother. Below are some answers she gave for Kawili La'au readers:

## **How did you come to the decision to move so far away?**

**Dr. Uber:** If you look at my career, a lot of what I've done has been big moves. When your practice involves hospitalized patients and you are on call most every weekend, it's not like you can go see your family often. And when you work with an advanced heart failure and heart transplant team, you're on call, 24-7, holidays in the hospital, that's just the life of transplantation, you have to be available when they need you.

The majority of my research has focused on patient care and outcomes. For example I was involved in evaluating new immunosuppressant regimens for heart transplant recipients, addressing health care disparities in African American heart transplant recipients and was part of the group that reported differences in biomarkers in obese patients with heart failure. When I moved to Maryland my responsibilities were still patient care and research, but education took a more central role. Here it's going to be more education, administration and then still research with a stronger role in mentoring.

## **How are you going to balance research with your administrative duties?**

**Dr. Uber:** That's where some of the mentorship comes in. I have been the one that has been enrolling all the patients, doing the data collection, sitting down with my mentor, doing the statistics, writing the abstract and then presenting the data. Now it's my turn to be the mentor and have the collaborating investigators (students or faculty or both) take the leadership role with the project. I'll be involved as the individuals need assists with developing the project, data analysis, abstract and manuscript writing. My role will be working with them on how to do this versus being the primary person doing all the research. There will be some projects that I'll want to take the lead on because they're things I've been wanting to do, but there's going to be a lot of ideas that I will to say "you guys need to take this."

*continued on page 4*



### What's your first step?

**Dr. Uber:** Because scholarly activity is important to the college, I've been meeting with faculty in order to get a feel for their interests and involve them in thinking of ideas for a research project or papers. All research projects do not have to be complex or beyond their usual practice, which I think is a concern for some faculty. When you start talking about doing research, some may say "I'm already busy, I can't possibly find time," but I want to show them that there are things we can look at that are within the scope of their day to day practice. I am hoping to reduce the intimidation factor while admitting that it's going to take a little more time especially initially with protocol development, IRB approval, and in some cases patient consent.

Not all research has to be a randomized control trial or investigating a new therapy. As I talk to each faculty member about their practice sites, patient populations and their interests, my hope is that we can develop a project that's interesting to them. First and foremost, they have to like it and find the question being examined interesting. The investigator has to want to own the proposal especially if you hope to foster further research. Or if the goal is to write a state of the art review paper, they need to find a topic in which not much has been published lately or a topic in which the field has change significantly in the last few months but also importantly interests them. In either case, research projects or writing manuscripts the hope is the end result be will gratifying and the faculty will be searching for the next project. Half of it is sitting with the right people in the room and say, "let's think about it."

### What kinds of projects do you have in mind?

**Dr. Uber:** Whatever their interests are. It can include anything from nutraceutical use in patients or tools to affect patient medication compliance. Because my practice has mainly involved patients in a hospital setting, I know that communication and interviewing patients is critical. I was the principle

investigator on a self-medication study in heart failure patients that can be repeated here, and possibly done in conjunction with Pharm2Pharm. Other projects might be fun and light hearted while making a valid point. You need to strike on the one thing that is interesting but answers a valuable question.

### What kinds of projects are you interested in pursuing personally?

**Dr. Uber:** Hawai'i is the right place for controlled breath therapy. There is a method of breathing that you can do for hypertension that's better than most drugs for lowering blood pressure. This is an area of the country where, culturally, this may be an acceptable practice. You practice breathing with prayer, with a mantra or with just counting. We can teach patients based upon whatever they are comfortable with.

If you look across the spectrum of animals and humans, a mouse breathes something like 160 times a minute and lives 3 years. Humans breathe about 15 times a minute and our life expectancy is about 70 years. Turtles breath 1-2 breaths per minute, and their life expectancy is 100-plus years. In health care we often focus on heart rate, and equate heart rate with longevity, but the breath rate is also important. There's something to controlling breathing and health, and the question is what is the appropriate rate and type of breath. I can teach you how to breath to the point where you'll sweat and lose weight. The problem with that type of breathing is the risk of developing a pneumothorax, development of air in the space between the lung and the chest wall. When practicing controlled breath for hypertension, patients can pass out. Like with any therapy, there is a risk to patients, therefore it is imperative that the patients are taught correctly. You can improve health by

*Drs. Patricia Uber (left) and Lara Gomez meet with Carolyn Ma via computer to discuss administrative issues in the Department of Pharmacy Practice.*



lowering blood pressure, a very important risk factor for heart and vascular disease. You're also engaging a mind-body connection. During the period of time you're focusing on your breath, the chatter in your mind is gone. It's great for students prior to exams. They can practice controlled breathing to help them calm down and focus on the material for the exam.

***How do you think you can develop this to bring in funding?***

We are starting quarterly meetings between Pharmacy Practice and Pharmaceutical Science in order to involve all aspects of college in discussing and hopefully developing research projects. The goal is to share what research or clinical work is taking place and see if we can enhance current projects or develop new ones. For example, studying the clinical outcomes of breathing in patients is interesting but to also be able to describe the mechanism would be better. Bringing faculty that looks at solving a problem from different angles together to discuss a research proposal will hopefully make it a stronger more complete project. Taking a therapeutic intervention with defined clinical endpoints while looking at biomarkers and appropriate testing to define the mechanism may enhance out changes of getting research grants.

***Do you have a plan for developing clinical sites?***

I've been working with the clinical faculty in Hilo to determine which sites are doing well and where there are still needs. One of my first priorities will be with Hilo Medical Center because of the new family medicine residency program. At the University of Maryland I was involved

in the cardiology fellowship program and also worked closely with internal medicine residents. I have seen what it takes to have an academic training program with the educational requirements and duty hour restrictions. It takes more time because you have to educate them on every aspect of patient care including appropriate medication use, medication ordering, physical exam, etc. My goal is to provide consistent coverage with a pharmacy faculty member to this group of family medicine residents. It may not be one person. We may have to rotate faculty based upon teaching responsibilities, but my hope would be that we are there assisting with medication selection, dosing and ordering to enhance patient safety. So #1, I am focusing on the family medicine training service since most of our faculty came from programs that trained house staff. We are aware that our assistance with medication selection, dose and monitoring is critical to avoid drug misadventures. Many of us also enjoy the teaching that goes with such a service; and #2, we can help HMC pharmacy and nursing by addressing any medication concerns at the time of prescribing. This is also a great opportunity for students to work with resident and attending physicians.

***How do you think sharing the chair position is going to work?***

Carolyn (Ma) and I complement each other. She is so much more adept at the administrative and educational needs of the department and the college. I am looking forward to working with her and having her mentor me through the process of leading a division. My strength is more from a clinical research background and mentoring individuals in research and publishing.

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## DKICP on YouTube

Thanks to the many students, alumni, faculty and staff who contributed to our presence on YouTube. Check it out at:

<https://www.youtube.com/channel/UC2rCaLO-oOvM3hX6Jc2v3pw/videos>



# Preceptors: Volunteers who change the course of learning experience for student pharmacists



The general public has never heard of the word “preceptor,” yet for colleges of pharmacy, these professionals are our lifeblood. All student pharmacists must complete experiential training, called rotations, during every year in school. Professional pharmacists volunteer to supervise these rotations, and they become mentors, often life-long friends and colleagues, supervise these rotations. They are preceptors.

All pharmacist preceptors are licensed in the State of Hawai‘i or mainland US. Preceptors are chosen on the ability to provide a quality experience for the student. Desirable factors include the desire to teach, time available, and compatibility with the rotation schedule.

## Preceptors:

- Are professional and act as a role model to students
- Get to know the students's background and professional experience (portfolio) which provides for a valuable learning environment
- Are patient and creative
- Have good and timely communication with the student
- Give routine feedback to students regarding progress, issues, challenges.
- Provide prompt feedback
- Acknowledge and Agree To Preceptor Code of Conduct (below)

## Preceptor Code of Conduct:

- All preceptors shall
- Act in a professional, ethical, and moral manner and treat others with respect and dignity.
- Be in compliance with laws and statutes relating to professional practice.
- Engage in activities that provide professional growth and demonstrate the pursuit of individual lifelong learning.

- Provide services of quality and embrace current practice standards.
- Foster an environment where students can integrate into the practice site and maintain a caring and appropriate preceptor-student relationship.
- Abide by HIPAA (Health Insurance Portability and Accountability Act) and FERPA (Family Educational Rights and Privacy Act).

In addition, all pharmacist preceptors shall:

- Be in good standing with the State Board of Pharmacy in which they are licensed and practice.
- Uphold the American Pharmacists Association Code of Ethics for Pharmacists and practice in a manner that demonstrates the important aspects of this code.

Preceptor trainings, all of which are ACPE accredited, are held on an annual basis and upon request by individual sites if needed. Pertinent points addressed at all trainings include:

- Rotation objectives and structure
- Mid and final evaluations processes
- Theories of learning
- Tips for teaching
- Problem issues and how to deal with difficult situations/students
- Open question and answer sessions

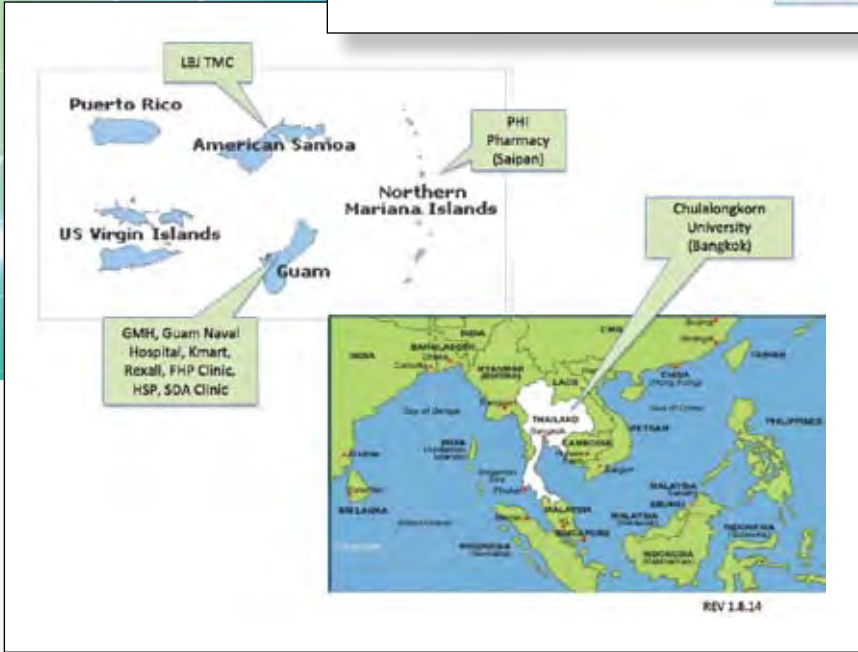
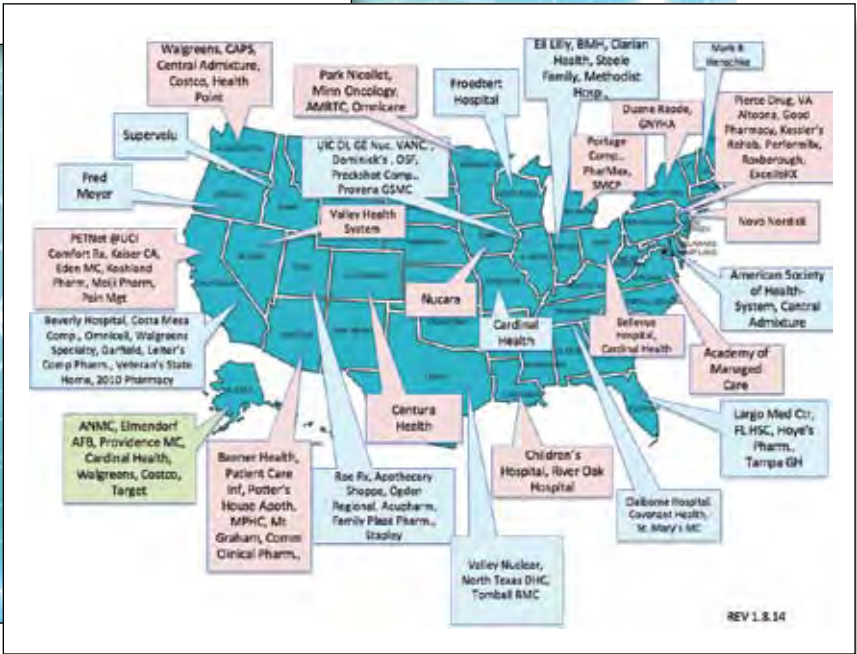
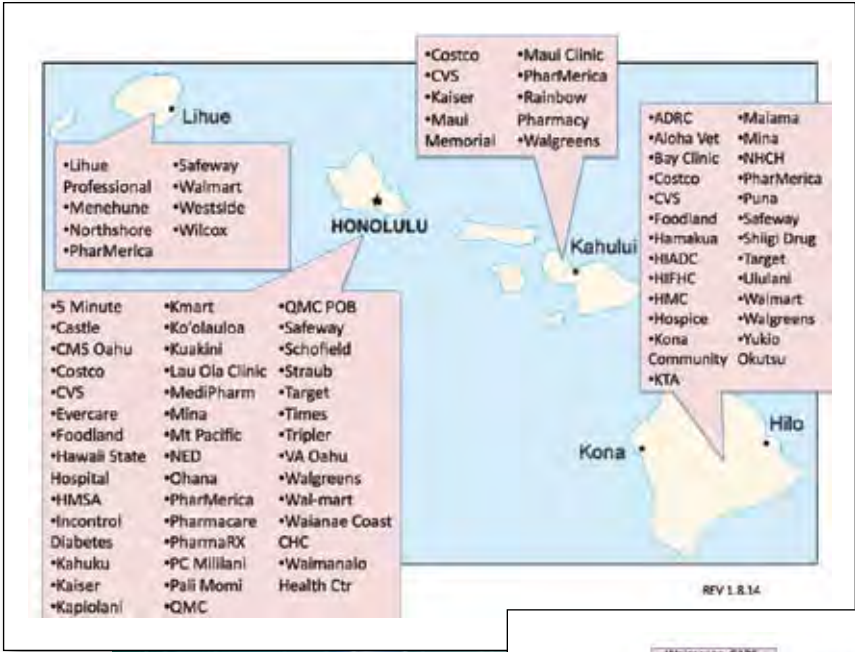
## Benefits (Affiliate Faculty)

- Preceptors may submit their curriculum vitae and apply for affiliate faculty status, which will provide them with online access to the UH Hilo College of Pharmacy library system.
- All preceptors receive complimentary subscriptions to Pharmacist’s Letter where they can access additional continuing education courses.



# Clinical Sites

DKICP has more than 250 clinical agreements with hospitals and pharmacies across the state of Hawai'i and on the mainland. Students also have the opportunity to complete experiential training, called rotations, with affiliated sites in Guam, American Samoa, and Saipan, and two sites in Bangkok, Thailand.



# Preceptors of the Year

The following pharmacists received special recognition for outstanding contribution to DKICP student pharmacists' education.

## 2008

### **IPPE Preceptor of the Year: Kerri Okamura, RPh**

Kerri Okamura is Director of Pharmacy Operations for KTA Superstores in Hilo. As the first recipient of the preceptor award in 2008, she and the other members of the KTA pharmacy staff demonstrate to DKICP student pharmacists the daily operations of an independent pharmacy. In 2013, she received the APhA Immunization Champion Award and now serves on the Hawaii State Board of Pharmacy. She says: "Pharmacy is not strictly counseling patients. There are many steps involved to run a business."

## 2009

### **IPPE Preceptor of the Year: Nelson Nako, PharmD**

Nelson Nako started as staff pharmacist at Hilo Medical Center in 1985 and is now the Director of Pharmacy there. He has provided a most vital site for introductory pharmacy practice experiences for DKICP since its inception in 2007. He teaches them: "The bottom line is that you treat patients appropriately, get them well. You don't want people coming back to the hospital."

## 2010

### **IPPE Preceptor of the Year: Marq Sims, RPh**

Marq Sims has been Pharmacist in Charge at Longs/CVS, Ponahawai Pharmacy since 2006. Though working for a chain pharmacy, he has maintained a specialty in compounding services, which he passes on to the many students who do their rotations at the pharmacy near campus. He says, "It's good fun working with the kids. It keeps us on our toes, too."

## 2011

### **APPE Preceptor of the Year: Kara Izumi, PharmD, BCPS**

Dr. Izumi has been a clinical pharmacist at Queen's Medical Center in Honolulu since 2006. She completed her general pharmacy practice residency at the University of Arizona Medical Center in Tucson, and she graduated from Washington State University's College of Pharmacy.

### **APPE Preceptor of the Year: Susan Eade-Parson, PharmD, BCPS**

Dr. Parson is a pharmacist who specializes in pharmacotherapy at Tripler Army Medical Center, became BCPS certified in 2004. She has worked for hospitals in Dallas, New York and Texas. She graduated from the University of

Houston in 1993 with a B.S. Pharmacy, and later returned to school to obtain a PharmD from Creighton University in 2003.

### **IPPE Preceptor of the Year: Miles Nakatsu, RPh**

Miles Nakatsu was named Preceptor of the Year for first-year student pharmacists conducting IPPE rotations. He is Pharmacist in Charge at Ululani Pharmacy in Hilo. He was a featured speaker at the White Coat Ceremony in 2011.

## 2012

### **APPE Preceptor of the Year: Fred Cruz, RPh**

Fred Cruz is Director of Pharmacy Operations with a speciality in HIV at CVS Caremark in Honolulu. He received his pharmacy degree from the University of Houston, where he said his own internship rotations were one of the best experiences he have ever had. He says he wants students "to realize what an integral part they as future pharmacists can be in taking care of clients and making a difference in their quality of life."

### **IPPE Preceptor of the Year: Alex Evans, PharmD**

Alex Evans is "Pharmacist in Charge" at PharMerica in Hilo. He graduated Phi Beta Kappa from the University of North Carolina at Greensboro with a Bachelor of Science in Biology and received his Doctor of Pharmacy from the University of North Carolina at Chapel Hill, where he was the recipient of the CR Walgreen excellence in pharmacy scholarship. Dr. Evans says: "Precepting pushes us to become better pharmacists."

## 2013

### **IPPE Preceptor of the Year: Michael Hoskins, RPh**

Michael Hoskins is the pharmacy manager at Mina Pharmacy in Hilo. He received his pharmacy training from the University of Texas at Austin College of Pharmacy and moved to Hilo in 2002. He shares his passion for serving the community as a pharmacist with his student pharmacists, and says: "I hope all students leave their rotations sharing my passion and the desire to serve their patients to the best of their abilities."

### **APPE Preceptor of the Year: Wendy Tawata, PharmD**

Wendy Tawata is part of the medical team in the Medical Intensive Care Unit (MICU) at The Queen's Medical Center in Honolulu. She says, "though teaching can be time consuming and can be perceived as an additional workload, the joy that I receive from 'giving back' and introducing my students to clinical pharmacy practice in the MICU makes it all worthwhile."

# Preceptors

We would like to express our gratitude to these pharmacists, who have positively influenced the education of hundreds of DKICP students since we began our experiential program in 2007.

Adkins, Nathan  
Adler, Angela  
Adrian, Julie  
Afanasjeva, Janna  
Agena, Junko  
Ah Hing-Faiuasoo, Evelyn  
Ah-Tye, Terry  
Akana, Edlynne  
Alhambra, Roanne  
Allison, Brianne  
Alzola, Merrie Kay  
Amin, Purvi  
Anderson, Jonathon  
Anderson, Katherine  
Anderson, Kyle  
Andrawis, Maryan  
Aramaki, Tina  
Arbles, Megan  
Asmatey, Veda  
Assadourian, Mike  
Au, Cam  
Au, Lara  
Aun, Steven  
Babin, Margaret  
Bahl, Michael  
Bakr, Mehdat  
Barbato, Anna  
Bardenas, Laryn  
Barit, Chaz  
Barraza, Claudia  
Barton, Wendy  
Batmanian, Shawnt  
Batz, Forrest  
Bautista, Jenni Grace  
Behlke, Dana  
Beierwaltes, Tom  
Belland, Nichole  
Bennett, Jill  
Bickers, Julie  
Bisheban, Parmis  
Bjorndal, Shawn  
Bock, Lindsay  
Boehme, Sabrina  
Borg, Kevin  
Bott, Anne Marie  
Boyd, Jason  
Branam, Don  
Braviak, Joseph  
Brown, Mark  
Brownstein, Bonny  
Bryant, Lisa  
Bryce, Randy  
Bui, Trinh  
Caldwell, Richard  
Calmes, Helen  
Calvey, Jennifer  
Campbell, Wayne  
Carl, Lynette

Carse, Cherrie  
Carter, Brian  
Cavener, Sara  
Cazares, Kathy  
Celmins, Laura  
Chai, David  
Chan, Diana  
Chan, Timothy  
Chang, Grace  
Chang, Jessica  
Channing, Chris  
Chavez, Benjamin  
Chee, Cheryl  
Chen, Justin  
Cheng, Annie  
Cheng, Cheryl  
Cheng, Cheryllynn  
Cheng, Eileen  
Chikuma, Chris  
China, Carol  
Ching, Collette  
Ching, Stefanie  
Chiulli, Dana  
Chong, Mok  
Chow, Mel  
Christian, Tracey  
Chu, Cherie  
Chu, Valery  
Chumley, Sisri  
Chun, Branden  
Chun, Carlton  
Chun, Jenny  
Chung, Frances  
Chung, Phillip  
Chung, Sharon  
Ciarleglio, Anita  
Cicero, John  
Clark, Jeffrey  
Cohen, Bruce  
Cole, Jennifer  
Connelly, Christine  
Cope, Rachel  
Corliss, Kris  
Coughlin, Melvin  
Craig, James  
Cruz, Fred  
Cusmano, Thomas  
Dabliz, Melaka  
Dacumos, Jennifer  
Dahlke, Brian  
Dang, Carolyn  
Daniel, Kara  
Daoud, Omar  
Davila, Carlos  
Davis, Gregg  
Davis, Hugh  
Davis, Kirk  
Davis, Mike  
Davis, Sandra

Delucca, Gina  
Demaris, Kendra  
DeMass, Kevin  
Dembekjian, Artin  
Desai, Roma  
Dhanjee, Hansraj  
Do, Huy  
Do, Von  
Dominguez, Andres  
Doran, Sara  
Dorer, Lisa  
Dragilev, Lyuba  
Drake, Tim  
Du, Michael  
Duran, Tom  
Eade-Parson, Susan  
Eaton, Craig  
Eminian, Aida  
Eng, Jason  
Enomoto, Kenneth  
Enriquez, Cheryl  
Ensign, Richard  
Erickson, John  
Erickson, Lori  
Este, Amy  
Etchu, Iyvonne  
Eudy, Mike  
Eustaquio, Angelina  
Evans, Alex  
Fabrizio, Vito  
Fakoor, Khaled  
Farlander, Bill  
Felten, Natalee  
Feniak, Sasha  
Finke, Carisa  
Finn, Jennifer  
Florit, Major  
Fong, Jackson  
Foo, Joseph  
Ford, Letitia  
Friece, Chad  
Friedman, Cheryl  
Fries, Sarah  
Fudge, Jonathan Dave  
Fujii, Garrett  
Fujii, Susan  
Fujii, Tiffany  
Fukuda, David  
Fukushima, Laurie  
Fuller, Jenora  
Furukawa, Alyssa  
Furutani, Brett  
Gabriel, Mildred  
Gallo, Dino  
Garber, Garret  
Gauthier, Judith  
Gerosa, Joe  
Gessel, Laurie  
Gilliam, Eric  
Gilliland, Traci  
Gjerdum, Eric  
Glick, Kevin  
Glynn, Todd  
Go, Foni  
Goo, Roy  
Goda, Leona  
Gomes, Matthew  
Green, Brady  
Grgurich, Phil  
Griswold, Jeremy  
Guess, Scott

Gurgone, Mark  
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Hall, James  
Hallstone, Aili  
Hanna, Mike  
Hansen, Christopher  
Hansen, Cody  
Harkey, Martha  
Harris, Ben  
Harrison, Shannon  
Hartman, Rachel  
Hau, Josephine  
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Hee, Matt  
Heintz, Jenni  
Henson, Emily  
Hepton, Han  
Herbert, Donna  
Hernandez-Saca, Kelsy  
Hickman, Linda  
Hicks, Derek  
Higa, Jenny  
Hing, Glen  
Hirae, Megan  
Hirata, Shari, Ann  
Hirsch, Matthew  
Hirt, Chris  
Hofer, Terry  
Hokutan, Sheena  
Holcomb, Stephanie  
Holmes, Veronica  
Holuby, Scott  
Hopkins, Shirley  
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Hwang, David  
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Isaacson, David  
Ishigo-Hashiro, Shannon  
Isobe, Alanna  
Itoman, Laurene  
Iwamasa, Lori  
Iwamoto, Robert  
Izumi, Kara  
Jackson, Andrew  
Jahangirian, Farahnaz  
Jensen, Shane  
Johal, Gurpreet  
Johnson, Darriel  
Jolson, Sheena  
Jordan, Jamila  
Juarez, Deborah  
Judycki, Kathy  
Juszczak, Patricia  
Kaddu, Tricia  
Kadokawa, Cathy  
Kagawa, Wendy  
Kahahane, Elissa-Marie  
Kajiwara, Gerald  
Kam, Georgiana  
Kamida, Alan  
Kaniski, Kris  
Karczewski, Carla  
Karvas, George

Kautz, Rick  
Kawakami, Chad  
Kazi, Zia  
Kelley, Kathy  
Kelly, Cathy  
Kenisky, James  
Kheradmand, Parisima  
Kido, Wendi  
Kikuchi, Kent  
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Kim, Melissa  
Kim, Tae  
Kim, Taek  
Kimura, Anne  
Kimura, Geri  
King, Lawrence  
Kirsch, Justine  
Kishimoto, Eryn  
Kitzman, Dennis  
Knoth, Christopher  
Kobayashi, Sharon  
Komoda, Clint  
Kon, Jaime  
Kong, Jeffrey  
Korf, Susan  
Koshland, Peter  
Kozuki, Jill  
Kozuma, Stephen  
Krenk, Les  
Kumasaka, Jared  
Kumura, Ivie  
Kunihiro, Kelli  
Kunimitsu, Walt  
Kwan, Peggy  
Kwok, Sharleen  
Lai, Pat  
Lam, Holly  
Lam, Laura  
Lambert, Josh  
Lan, Nathan  
Larson, Trent  
Latif, Mike  
Lau, Kim  
Law, Faraday  
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Leinbach, Heather  
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Lodolce, Amy  
Loney, Annie  
Lopez, Kelli  
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Luke, Charisse  
Lum, Amy  
Luna, Becki  
Luong, Andy  
Luu, Jimmy  
MacDonald, Andrew  
Mahal, Jyoti  
Mandrell, Amy  
Mar, Dexter

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Maris, Thira	Nishimura, Kristine	Sakauye, Stacie	Sullivan, Kari	Wakimura, Betty
Mark, Jing	Nishimura, Sheri	Samura, Erin	Sumida, Wes	Walsh, Tim
Marsh, Carl	Nishina, Kevin	Sanchez, Marisa	Sutton, Anne	Wang, James
Martin, Joanne	Nitta, Todd	Sandstrom, Robert	Szulczewski, Anne	Wang, Joann
Martinez, Chris	Njau, James	Satterfield, Maylee	Szymanski, Rick	Wang, Olivia
Mashiyama, Ryan	Nogawa, Leland	Savner, Michael	Tacderan, Patrick	Wataoka, Todd
Mason, Beth	Nordstrom, Darryl	Saxon, Paul	Tadaki, Kyle	Watson, Gloriann
Masse, Nicole	Nothem, Paul	Scarlett, Shawn	Tagariello, Philip	Wattanavijitkul, Thitima
Masuda, Camlyn	Nunes, Michael	Scelfo, Robert	Tak, Rahul	Watts, Robert
Matsukawa, Lynn	O'Donnell, Jessica	Schenk, Derek	Takahashi, Mia	Webb, David
Matsumoto, Peter	Ochoa, Maricela	Schieberl, Kimberly	Takara, Ross	Wegley, Dylan
Matsumoto-Hussey, Jenny	Odiong, Blossom	Schmidt, Michael	Takemoto, Marc	Wela, Misae
Matsuyama, Joy	Odunze, Godwin	Schroeder, Walter	Takenishi, Pat	Welburn, Andy
Mazo, Arlene	Ohri, Pooja	Schullo-Feulner, Anne	Tamura, Shannon	Whang, Helen
McHugh, Chris	Okamura, Kerri	Schwab, Jay	Tan, Candace	Wheeler, Robin
McQuaide, Christina	Okimi, Tracie	Scofield, Scott	Tan, Christopher	Wheeler, Thomas
Meador, Drew	Okohira, Deana	Scott, Shirley	Tatsumoto, Ryan	Wheelock, Anne
Merlo, Jenna	Ooka, Kenneth	Segawa, Diana	Tawata, Brian	Whetstone, Guy
Mierzwa, Mark	Opara, Capt,	Seidl, Erin	Tawata, Wendy	WhiteBrian
Mihok, Kristi	Kemejumaka	Serna, Ron	Taylor, Michael	Williams, Ebonye
Mikami, Ian	Osoro, Evelyn	Shah, Viral	Taylor, Sonal	Wolfe, Brian
Mikusky, Ron	Ota, Laura	Shaikh-Khan, Sabiha	Tepraseuth, Suthana	Wolford, Brent
Milewski, Emily	Oumaye, Wendell	Shake, Melissa	Terada, Karie	Wong, Christina
Miller, Clyde	Owusu, Yaw	Sharp, Erin	Teramoto, Regina	Wong, Connie
Miller, JiHyun	Pacheco, Sara	Sharp, Gregg	Terayama, Shannon	Wong, Jeffrey
Mills, Lauren	Packard, Tori	Sharpe, Kym	Thai-Van, Gelder, Khanh	Wong, Ken
Milman, Lora	Pagoyo, Nicole	Shiltz, Erin	Than, Pendleton	Wong, Peyton
Miltimore, Gary	Pang, John	Shimamoto, Paige	Thomas, Emily	Wong, Rattah
Mitchell, Marvin	Pang, Patrick	Shimamura, Krissy	Thomas, Juby	Wongwiwatthananutit, Supakit
Miyamoto, Joyce	Park, Michelle	Shimizu, Tracie	Thomas, Seth	Wright, Michael
Miyamoto, Terri	Parriot, Joseph	Shimokawa, Sheryl	Thompson, Bill	Wright, Thomas
Mizo, Lance	Pascua, Rayanne	Shin, Dara	Thune, Stephanie	Wu, Jeannie
Mnatzaganian, Christina	Pascual, Tony	Shiotani, Brooke	Tichy, Renee	Wymore, Eric
Mogbo, Patrick	Patel, Dimple	Shiple, Eugene	Tiu, Annette	Yafuso, Andrew
Moilien, Brian	Patel, Gita	Shiraishi, Lynn	Tobias, Cindy	Yamada, Joan
Mok, Jean	Patel, Grishma	Shlom, Elizabeth	Tobin, Mandy	Yamamoto, Selma
Montoya, Frank	Patel, Nish	Shojinaga, Thomas	Togashi, Ann	Yamasaki-Herring, Wendy
Moore, Jaclyn	Patel, Paresh	Shovlin, Ashley	Tokuda, Lisa	Yamauchi, Jennifer
Morlock, Abby	Peake, Purvi	Shuster, Kert	Tokumar, Sheri	Yara, Jarrett
Morris, Katey	Perino, John	Siefert, Jennifer	Tomita, Gretel	Yasuoka, Sueann
Morton, Brian	Petersen, Ann	Silverman, Drew	Tomlinson, Tad	Ye, Nelson
Moss, Joshua	Pezzuto, Mimi	Simon, Ephraim	Toth, Erika	Yern, Gan
Mukai, Shauna	Pham, Hanh	Simper, Ted	Toyama, Jessica	Yokoyama, Kyle
Muramoto, Kara	Pham, Joycelyn	Sims, Jason	Tran, Ken	Yonemori, Michele
Nagahama, Kanani	Phan, Doug	Sims, Marq	Tran, Michelle	Yonemoto, Kristi
Nagao, Randie	Phillips, Evangeline	Sinclair, Nick	Tran, Tai	Yongvanich, Rosie
Nakagawa, Kevin	Pichayapaiboon, Sutathip	Siverson, Chad	Tran, Tracy	Yorgason, Rossana
Nakamura, Bryce	Pieczynski, Rob	Slagle, Teresa	Tran, Vicky	Young, Sandra
Nakamura, Kurtis	Pollard, Craig	Smith, Megan	Tripp, Susan	Young, Travis
Nakamura, Randal	Powers, Bill	Smith, Paul	Trombley, Ryan	Yu, James
Nakata, Cecil	Powers, Richard	Smith, Richard	Tsagris, Tom	Yu, John
Nakatsu, Miles	Pretorius, Marisel	Smith-Arizmendi, Donald	Tsai, Jeffrey	Yu, Maria
Nakijima, Cecilia	Pytlarz, Alexander	Snyder, Julie	Tsao, Te-Yun	Zacher, Jennifer
Nako, Nelson	Quach, Khai	Soga, Shelley	Tsuda, Crystal	Zarella, Wendy
Nash, Lois	Quan, Sophia	Soleimanpour, Sepi	Tsuha-Scarlett, Dawn	Zuengler, Hugh
Navas, Daniel	Rainville, Ed	Solomon, Corinne	Tsukamoto, Tasha	Zurlage, Dave
Ng-Chan, Deanna	Rapp, Marcy	Sopp, Douglas	Tverye, Nataly	
Ngo, Trang	Rawal, Shree	Sorensen, David	Tyau, Kirk	
Nguyen, Anna	Reed, Neil	Soudagar, Jawhara	Tysoe, Janice	
Nguyen, Chi	Reese, Scott	Sperrazzo, Raquel	Uhl, Erik	
Nguyen, Erin	Roberts, Lucas	Spreeman, Erika	Unger, Jennifer	
Nguyen, Julie	Robertson, Jesse	Sproul, Craig	Urabe, Dane	
Nguyen, Mary	Robinson, Phyllis	Squire, Clayton	Ushijima, Tad	
Nguyen, Nam	Robusto, Bill	Srour, Youssef	Vakharia, Chirag	
Nguyen, Thuy	Rodriguez, Aaron	Stanger, Joe	Valdez, Amy	
Nguyen, Tiffany	RodriguezLeslie	Stapley, Brad	Viens, Sue	
Nichols, Lara	Roe, Hal	Stern, Chelsey	Vita, Gary	
Nicita, Kristen	Rossi, Dino	Stogdill, Tara	Vo, Chau	
Nieuwboer, Jessica	Rouman, Patti	Stone, Matthew	Vordtriede, Caitrin	
	Rupp, Victoria		Vu-Ho, Dao	

# Hawai'i professional pharmacist group honors pharmacy dean's accomplishments

John M. Pezzuto, Dean of the Daniel K. Inouye College of Pharmacy, was presented a "Friends of Pharmacy Award" for 2013 from the Hawaii Pharmacists Association (HPhA). The award was announced at HPhA's General Membership meeting in October.

The annual award is given on an annual basis to a non-pharmacist who has made significant contributions toward improving or expanding the profession of pharmacy in the State of Hawai'i. Previous awards went to: Louise Iwaishi, MD in the Family Medicine Residency Program at the University of Hawai'i John A Burns School of Medicine; Catharine Takauye, MBA; Senator Suzanne Chun-Oakland; and Representative Marilyn Lee.

"Dr. Pezzuto's efforts to build a top-ranked, research-intensive pharmacy school from the ground up are unparalleled, said Carolyn Ma, President of HPhA and associate professor and chair of the Department of Pharmacy Practice at DKICP. "Through his leadership, Hawai'i has the first and only fully accredited college of pharmacy in the Pacific Rim, a growing number of first- and second-year residency opportunities, nationally and internationally recognized expertise and leadership in pharmaceutical research and delivery of rural health care."

With approximately 300 members, HPhA is the only professional pharmacy association in Hawai'i. Membership represents pharmacy practice in the state and is comprised of pharmacists in various practice settings ranging from retail to hospital to industry, pharmacy students, pharmacy technicians and academia. HPhA is an ACPE accredited provider.

Pezzuto said, "It has been a great honor serving as Founding Dean of the Daniel K. Inouye College of Pharmacy. I am proud of our many accomplishments and unique ability to serve the entire State of Hawai'i as well as the Pacific Region as a whole. On behalf of the students, faculty and staff of the College, I am pleased to accept this designation graciously bestowed by the HPhA. They can count on us serving as a 'Friend of Pharmacy' for many years to come."



*Dr. Carolyn Ma presented Dean John Pezzuto with a koa bowl in honor of his award.*

“Through his leadership, Hawai'i has the first and only fully accredited college of pharmacy in the Pacific Rim, a growing number of first- and second-year residency opportunities, nationally and internationally recognized expertise and leadership in pharmaceutical research and delivery of rural health care.”

”  
– Carolyn Ma

# Big Island Representatives learn more about DKICP



From left: Sen. Gilbert Kahele (District 1 Big Island), DKICP faculty Mimi Pezzuto and Assoc. Dean Edward Fisher met at an event in Hilo



Kay Howe (left) and Dr. Susan Jarvi met with Rep. Russell Ruderman.



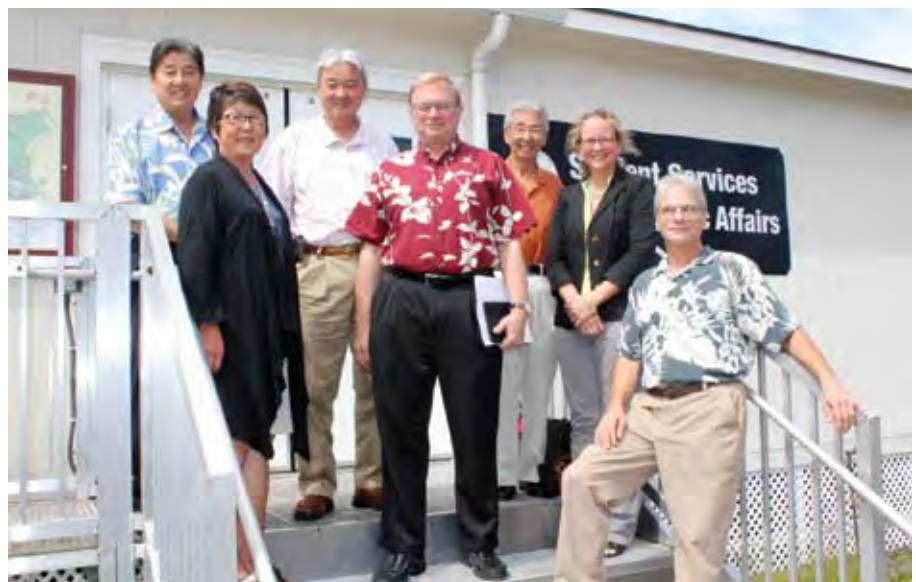
Hawai'i House Representatives Richard Onishi (left), Mark Nakashima (District 1), and Rep. Cindy Evans (far right) met with Dean John Pezzuto on campus in November.



Rep. Richard Onishi shares a laugh with Dean John Pezzuto.

## Reps. Issac Choy, Clift Tsuji

Reps. Issac Choy (Hawai'i House District 23, Oahu, third from left) and Clift Tsuji (Hawai'i House District 2, Big Island, third from right) visited DKICP and UH Hilo administrators during a visit in October. From left, Jerry Chang, Director of University Relations; Marcia Sakai, Vice Chancellor for Administrative Affairs; Rep. Choy, Chancellor Don Straney, Rep. Tsuji, Karen Pellegrin, Director of Strategic Planning/Distance Education and Ken Morris, professor and chair of the Department of Pharmaceutical Sciences.



# Governor Neil Abercrombie

(Right) Governor Neil Abercrombie shakes hands with Dean John Pezzuto



(Below from left) Dean John Pezzuto, Kristina Lo, Gov. Neil Abercrombie, and Jarred Prudencio meet on campus



(Above) Gov. Neil Abercrombie (left), Chancellor Don Straney, Chancellor-emerita Rose Tseng and Dean John Pezzuto met at the Rainbow Drive annex.



(Left) Lt. Gov. Shan Tsutsui met with Ken Morris, professor and chair of Pharmaceutical Sciences, at an event in Hilo.

## U.S. Rep. Colleen Hanabusa



From left: Congresswoman Colleen Hanabusa visited with Dean John Pezzuto and former Hawaii County Mayor Harry Kim on campus.

## U.S. Senator Brian Schatz



U.S. Sen. Brian Schatz (far right) met with several student pharmacists, faculty and staff from the Daniel K. Inouye College of Pharmacy during a visit to Hilo January 24.

# Hawai'i Senators conduct fact- finding mission

Senators from Hawai'i's Ways and Means Committee were able to hear first hand from several student pharmacists in August when they toured three of DKICP's facilities.

Joining the group were director of university relations Jerry Chang, Kelvin Sewake, parent of a student pharmacist and leader of a group of DKICP supporters, Gerald DeMello, former director of university relations, and Harvey Tajiri, former Regent, State Representative and founder of the Vulcan's Athletic Booster Club and Hui 'Kaua, a non-profit organization to support UH Hilo and Hawai'i Community College.

The senators also heard from researchers at Waiiaka research facilities, including Drs. Dana-Lynne Koomoa-Lange and Leng Chee Chang, and toured administrative offices on Rainbow Drive.

*(Below) Front row from left: Student pharmacists Jarred Prudencia, Akio Yanagisawa, LaTasha Riddick, Allan Higa, Davis Hanai, Kristina Lo; Back row: Sen. Gilbert Kahele (District 1, Big Island), Dean John Pezzuto, Vice Chancellor for Student Affairs Luoluo Hong, Sen. Laura Thielen (District 25, Oahu), Sen. Michelle Kidani (Senate District 18, Oahu), Senate President Donna Kim (District 14, Oahu), Sen. Kalani English (7<sup>th</sup> district on Maui), Suzanne Chun Oakland (13<sup>th</sup> district, Oahu) and Sen. Russell Ruderman (District 2, Big Island).*





# FAQs



DKICP Director of Strategic Planning and Continuing Education Dr. Karen Pellegrin answers several frequently asked questions and clears up some common myths

about pharmacists including:

- ***Is there a surplus or shortage of pharmacists?***
- ***If payers begin reimbursing pharmacist for clinical services (rather than just for dispensing medications), won't that increase healthcare costs?***
- ***What are pharmacists doing to reduce total healthcare costs in Hawai'i?***
- ***What does it cost Hawai'i state taxpayers to produce a pharmacist?***
- ***Will the UH College of Pharmacy lose its accreditation if it remains noncompliant with the ACPE standard regarding facilities?***

## ***Is there a surplus or shortage of pharmacists?***

According to the Pharmacy Manpower Project, which surveys on a monthly basis a nationwide panel of persons directly and regularly involved in hiring pharmacists<sup>1</sup> ***under current reimbursement mechanisms*** (which greatly limit the involvement of pharmacists in patient care), there continues to be a nationwide aggregate shortage, though significantly less so than a decade ago. While there is a moderate surplus in the state of Hawai'i, the pharmacist shortage in the Pacific region served by the UH College of Pharmacy continues to be the most severe in the nation. | <http://www.pharmacymanpower.com/about.jsp>

Defined as ***demand for pharmacists required to improve quality and reduce cost of care*** – a critical national and local priority – the shortage is much worse than reported by the Pharmacy Manpower Project. This shortage will not be evident in such measures until reimbursement systems are corrected by national and local payers.

According to the US Department of Health and Human Services<sup>2</sup>, ***"A greater role for pharmacists in patient care management is feasible only with a reimbursement system that compensates pharmacists for such services."*** More recently, a report to the US Surgeon General noted<sup>3</sup>: ***"Failure to recognize expanded roles of pharmacists limits the potential for patients and our health care system to benefit from access to additional quality primary care services. Exclusion of pharmacists as health care providers also eliminates any subsequent service-sustaining compensation. Pharmacists are increasingly requested by many health systems, providers, and primary care teams to improve outcomes and delivery of care. However, in terms of pharmacist services, as the complexity or level of clinical service increases, the revenue generation potential is reduced. this is in stark contrast to the clinical services provided by other health professionals."***

<sup>2</sup> *The Adequacy of Pharmacist Supply: 2004 to 2030*, Department of Health and Human Services, Health Resources and Services Administration, Bureau of Health Professions, December 2008.

<sup>3</sup> Giberson S, Yoder S, Lee MP. *Improving Patient and Health System Outcomes through Advanced Pharmacy Practice. A Report to the U.S. Surgeon General.* Office of the Chief Pharmacist. U.S. Public Health Service. Dec 2011.

## ***If payers begin reimbursing pharmacist for clinical services (rather than just dispensing medications), won't that increase healthcare costs?***

No, research shows that the opposite occurs. For example, research in Minnesota found that a collaborative practice model, in which ***pharmacists play an integral role in the delivery of care and provide face-to-face medication management services, resulted in improved patient outcomes AND reduced total cost of care*** (mostly through reductions in hospitalizations and ER visits), ***even though prescription drug costs increased***<sup>4</sup>

<sup>4</sup> Isetts et al., Clinical and economic outcomes of medication therapy management services: The Minnesota experience. *J Am Pharm Assoc.* 2008;48:203-214

*continued on page 16*

## What are pharmacists doing to reduce total healthcare costs in Hawai'i?

The Daniel K. Inouye College of Pharmacy (DKICP) at UH Hilo is both a local and national leader of healthcare transformation through new models of care leveraging the current supply of pharmacists. DKICP, along with its operating partners (Hawai'i Pacific Health, Hawaii Health Systems Corporation, and Hawai'i Community Pharmacist Association), designed the "Pharm2Pharm" model, which is one of 107 models selected out of 3,000 applications submitted nationwide to receive a Health Care Innovation Award. These awards are funded by CMS, which is the US federal agency that administers Medicare and Medicaid – the largest healthcare payer in the nation.

DKICP received a three-year \$14.3M award to implement this formal hospital pharmacist-to-community pharmacist collaboration (called "pharmacist-to-pharmacist" or "Pharm2Pharm") in rural areas of Hawai'i where the population is growing most rapidly and where there are particularly severe physician shortages.

This unique care transition and care coordination model is designed to reduce medication-related hospitalizations and ER visits. The model has been launched in all three rural counties, and over 800 high risk patients (mostly elderly) are currently receiving these specialized medication services.

This model is innovative in the following ways:

- Pharmacist collaborating across the continuum of care: Formalizes partnerships between inpatient and outpatient pharmacists to ensure optimal medication management and safety, particularly during the high risk transition from hospital to home.
- Hospital pharmacist-led medication reconciliation: Uses the expertise of hospital pharmacists to conduct high level medication reconciliation for high-risk patients upon admission and prior to discharge, establishing these pharmacists as critical members of the discharge planning team. (e.g., hospital pharmacists found unexplained discrepancies between preadmission medication regimens and discharge medication orders in 49% of all general medicine patients in a large teaching hospital)<sup>5</sup>.
- Community pharmacist-coordinated medication management: Leverage untapped expertise and accessibility of community pharmacists in rural areas by expanding their role in medication management after discharge for patients at risk of readmission or ER visits, establishing these pharmacists as critical members of the ambulatory care team. (e.g., in California, ambulatory care pharmacist consultations focused on selected high-risk patients resulted in significantly lower non-elective hospitalization and mortality)<sup>6</sup>.
- Pharmacist integration into hospital and ambulatory care teams: Leverages the expertise of hospital and community pharmacists by integrating them into the care teams.
- Payment restructuring for pharmacists: Establishes a new payment model, based on number of beneficiaries at risk rather than number of prescriptions filled or fee-for service, that recognizes advanced, coordinated, integrated medication management services as a critical value-added specialty provided by pharmacists across the continuum of care for elderly patients at risk of medication-related hospitalizations and ER visits. (Currently such pharmacist services are not compensated by payers; pharmacists are paid when prescriptions are filled and fee-for-service for medication therapy management – MTM; payments for MTM visits do not cover the cost of the pharmacist's time, do not integrate pharmacists into the care team, and do not target high risk care transitions).

<sup>5</sup> **Role of Pharmacist Counseling in Preventing Adverse Drug Events After Hospitalization.** Schnipper, et al., 2006, *Archives of Internal Medicine*, 166: 565-571.

<sup>6</sup> **Effects of Ambulatory-Care Pharmacist Consultation on Mortality and Hospitalization.** Yuan, et al., 2003, *American Journal of Managed Care*, 9(1): 45-56

While this award is currently focused on Hawai'i's rural counties, based on solid progress to date, planning has begun to launch the Pharm2Pharm model in **West Oahu**.

## What does it cost Hawai'i state taxpayers to produce a pharmacist?

Currently, nothing. To the contrary, state taxpayers are already receiving a significant return on investment of seed money used to launch the College, including:

- Some of the tuition revenue generated by DKICP is being used to subsidize other programs outside the College that would otherwise need to be subsidized by taxpayers (or eliminated).
- In addition to the jobs created and economic impact of the federal grants generated by DKICP (over \$35M to date), indirect dollars generated by these grants are being used to subsidize university infrastructure that would otherwise need to be subsidized by taxpayers (or eliminated).

- Faculty, staff, and students - located in all four counties of Hawai'i - have a positive multi-million dollar economic impact through their spending on local goods and services and through the taxes they pay to the state.
- Tuition rates for Hawai'i state residents who are accepted into the DKICP Doctor of Pharmacy program are about half the rate paid by non-residents. Thus, the non-residents subsidize the tuition for local students.
- By including a strong research component in its mission (at no cost to Hawai'i state taxpayers) and goal of becoming a Top 25 pharmacy program, DKICP is making this investment and future returns more robust and stable. In fact, research conducted at DKICP concluded that pharmacy programs that are competing on cost will be most susceptible to contractions resulting from market saturation, while those that achieve recognition as a Top 25 program will be better able to survive and maintain this strategic position if the market becomes saturated<sup>7</sup>.

<sup>7</sup> Pellegrin KL, Pezzuto JM. **Strategic direction for high demand degrees: An analysis of the U.S. pharmacy degree competitive market.** *International Journal of Management in Education* special issue on "Quest for a Competitive Edge in Higher Education", 2011; Vol. 5 (No. 2/3):285-300.

### **Will DKICP lose its accreditation if it remains non-compliant with the ACPE standard regarding facilities?**

Yes. The Accreditation Council for Pharmacy Education (ACPE) is the only entity recognized by the US Department of Education to accredit PharmD degree programs. In general, if after one year of notification of non-compliance, the program fails to demonstrate adequate progress towards achieving compliance with ACPE standards, ACPE will place the program on probation<sup>8</sup>.

<sup>8</sup> [http://www.aacp.org/resources/student/pharmacyforyou/admissions/Documents/2011\\_12\\_PSAR\\_school%20narrative.pdf](http://www.aacp.org/resources/student/pharmacyforyou/admissions/Documents/2011_12_PSAR_school%20narrative.pdf)  
<sup>9</sup> <https://www.acpe-accredit.org/pdf/CSPoliciesProceduresAugust2013.pdf>

According to the current ACPE accreditation policies and procedures<sup>9</sup>, any program placed on probation will be required to submit to ACPE a "Teach-Out Plan" that documents how the students will be transferred to another institution in the event of accreditation withdrawal. Probation status itself would likely result in loss of faculty and inability to recruit and retain students in the DKICP pharmacy program. Probation would significantly change the current course of becoming a top pharmacy program and might lead to its closure.

According to ACPE, "withdrawal of accreditation will ordinarily occur after the Board has found the program to be partially or non-compliant with one or more of the standards, has given the program written notification of the finding(s) of the partial or non-compliance, and the program fails to achieve compliance with the cited standard(s) within a timeframe designated by the Board (not to exceed two years)".

"Accredited" is defined as "the accreditation status granted to a Doctor of Pharmacy program that has successfully achieved both preaccreditation statuses, produced at least one class of graduates, and that has demonstrated continued compliance with all accreditation standards."

"Non-compliant/non-compliance" is defined as "factors exist that compromise current compliance; and appropriate plan to address the factors that compromise compliance does not exist or has not yet been initiated; OR adequate information was not provided to assess compliance."

Based on the above information, the actual finding by ACPE that DKICP is non-compliant with the facilities standard, and the current lack of a plan to address the non-compliance, the only responsible conclusions that can be drawn are:

- 1) Accreditation is at risk.
- 2) The one solution to prevent loss of accreditation is timely development and implementation of an appropriate plan to address the facilities non-compliance.



*Dr. Karen Pellegrin and Dean John Pezzuto worked with members of the DKICP administrative team to answer all questions regarding the college and the pharmacy profession.*

# Trip to Japan holds promise for future collaboration

By Carolyn Ma, Associate Professor and Co-chair,  
Department of Pharmacy Practice

One of the focuses for DKICP is to expand our international community and clinical partnerships. Fortunately, I was invited to speak at the 4<sup>th</sup> Annual Asia Pacific Pharmacy Education Workshop in Tokyo, Japan from November 24-26. The conference was hosted and sponsored by Josai University and Josai International University.

More than 80 conference attendees and speakers included pharmacy education leaders from Philippines, Thailand, Canada and Japan. The purpose of the conference was to focus on harmonization

of pharmacy education in the Asia and Pacific regions. Sessions and workshops focused on postgraduate program, teaching, learning assessment, development of clinical partnerships and student final projects. The eventual goal of these partnerships is to standardize curriculum between Asian countries leading to reciprocal licensure. These countries are in various phases of developing their PharmD curriculum especially the experiential year modeled after the U.S. model of Advanced Pharmacy Practice Experiences (APPE) year.

In past years, other notable Faculties (Colleges) of Pharmaceutical Sciences have hosted and sponsored this conference and Management and Science University (Malaysia), United Nations University International Institute for Global Health (Malaysia) and Institut Teknologi Bandung (Indonesia). The previous three years workshops had focused on curriculum, delivery methods, and accreditation issues in pharmacy education.

Being the only invited U.S. college of pharmacy representative, I found the discussions especially enlightening in regards to their issues



*Drs. Carolyn Ma and Kenji Sugibayashi, vice president and professor, Josai University and Josai International University are working on an agreement between the two universities.*

of developing the practice of clinical pharmacy as opposed to the more traditional pharmacy practice and pharmacy industry emphasis. Their challenges are reminiscent of our struggles 20 years ago in our transition from the bachelors/ masters degree to the all-PharmD degree. My plenary lecture on development of clinical partnerships helped to inform them of our model of pharmacy practice faculty who partner with site preceptors to precept experiential rotations.

After the conference, a special lecture series was held at the Josai University campus in Saitama prefecture. My lectures focused on developing clinical partnerships, experiential curriculum and pharmacist preceptor development. Other speakers in the special lecture series included Dr. Imelda Pena, (dean, University of the Philippines Manila), Dr. Aisha Adam (dean, Universiti Teknologi, Malaysia) Dr. Rataya Luechapudlporn, (associate dean, Chulalongkorn University) and Dr. Anuchai Theeraroungchaisri, (associate dean, Chulalongkorn University). Interactions with these leaders helped me to understand the challenges that face these countries as they try to develop their colleges and curriculum. Our group spent much time discussing final senior projects. I also toured two medical centers Josai International Medical Center and Josai University Medical Center (JUMC). The International Medical Center is the epitome of highest technology and looking to expand their clinical pharmacy services. JUMC has clinical pharmacists working mainly in the oncology specialty areas and is also looking to expand clinical services.

As a follow up, Dr. So Ohta from Josai University visited me in Honolulu. He toured The Queen's Medical Center and met with our faculty as well as two of our graduates who are currently in their PGY1 Residency. Discussion continues with a possible exchange program between Josai University faculty and students not only in clinical partnerships but also in the area of pharmaceutical sciences and development of natural products.



*Dr. Carolyn Ma at traditional tea ceremony held at the beginning of the conference at Josai University.*

## China trip confirms agreement; looks to future

In October, Drs. Rose Tseng, Edward Fisher and Roy Goo visited China to officially sign the exchange program agreement with Shanghai Jiaotong University College of Pharmacy and Xiamen University College of Pharmacy. They also conducted a successful two-day workshop at Zhejiang University, as well as a half-day workshop at Xiamen University. While in China, they engaged in discussions with Chinese officials about a summer student exchange, future workshops and short courses, elective experiential rotations, potential research collaborations, and China's initiatives to set up a PharmD program.



(from left) Dr. Edward Fisher, Chancellor Emerita and Professor Rose Tseng, Dr. Roy Goo

## Agreement between UH Hilo/Thai universities expands pharmacy research, education

Three faculty members from the Department of Pharmacy Practice traveled to Thailand in November to finalize an exchange program agreement with a second university and solidify one that already existed.

Drs. Carolyn Ma, associate professor and co-chair, Supakit Wongwiwatthanukit, associate professor, and Lara Gomez, director of clinical education visited with faculty and staff at Chulalongkorn University, where DKICP has had an Memorandum of Understanding (MOU) since 2011, and Rangsit University (RSU), where they signed a new MOU.

The U.S.-THAI Students and Pharmacists/Faculty Members Exchange Program will give students in the fourth year of pharmacy school a chance to go to RSU and Chulalongkorn for their Advanced Pharmacy Practice Experiences, and bring Ph.D. students to Hawai'i to work in DKICP labs. It also will allow faculty to collaborate on pharmaceutical sciences research and to work with professional pharmacists on pharmaceutical care and medication therapy management.

Chulalongkorn University is in Bangkok. RSU is part of the Bangkok metropolis, located in the Pathumthani

province directly north of Bangkok.

"I am very proud of our faculty for developing this relationship," DKICP Dean John Pezzuto said. "This is a prime example of how we are extending our reach to every corner of the globe in order to give our students a first-class education while investigating approaches to discovering new drugs."

Dr. Wongwiwatthanukit began talks about the exchange program with the administration at RSU last July when he was invited to be a visiting professor/scholar. He met with Thanapat Songsak, Dean of Faculty of Pharmacy and Professor Sarinee Krittiyanunt and Dr. Poj Kulvanich, who are the department chairs of Pharmaceutical Care and Pharmaceutical Sciences, respectively.

"Students can gain international perspectives of Thailand public health, roles and responsibilities of pharmacists in various settings and develop interprofessional relationships," Dr. Wongwiwatthanukit said. "In addition to giving our students a wider range of exposure, this is a great opportunity for international collaboration for our Ph.D. program."

He said an example of possible joint projects might be working with RSU faculty at their Herbal Medicinal Products Research and Development Center, called Sun Herb Thai Chinese Manufacturing facility. The building is a joint venture between the Heilongjiang University of Chinese Medicine, China and Rangsit University Faculty of Pharmacy.

"This building enables the research and clinical

*continued on page 20*

trials of many Thai and Chinese traditional remedies," Dr. Wongwiwatthananukit said. "I believe we can make significant contributions to this facility through our own work in natural products and Hawaiian traditional medicine."

Sun Herb Thai Chinese Manufacturing makes remedies for hypertension, gout, sleeping disorders and psoriasis. Students from Heilongjiang and other universities in South-East Asian countries can visit and benefit from the combined knowledge of Thai and Chinese traditional medicines from this manufacturing center/facility.

"I'm very excited to see this building utilized in this fashion, training the pharmacists of tomorrow and equipping them with knowledge gained from seeing the complete arc of a remedy from ingredients to formulation and productions to clinical trials and finally to accepted prescriptions and alleviation of pain and symptoms for our patients," said Dean Songsak. "This multi-stepped process has a specific goal in mind: uniting universities, allowing knowledge exchanges and offering opportunities that allow each country to grow and benefit from this partnership while working on curative measures for diseases afflicting Thailand, China, and Hawai'i."

Dr. Wongwiwatthananukit said that because of the tie with Sun Herb Thai Chinese Manufacturing facility, this is the first time the Pharmaceutical Sciences department has been involved in an MOU of this sort. Ken Morris, professor

and chair of the Department of Pharmaceutical Sciences, who also signed the MOU, said he is optimistic about future collaborations.

"Thailand has a long history in pharmaceutical science," said Dr. Morris, who has extensive experience in the field of industrial pharmacy. "We're very interested in collaborating in this area and because of our proximity, we feel we're ideally situated both physically and organizationally to make the most of the opportunity."

While in Thailand, Dr. Ma presented the ceremonial paddle to the deans at both universities. The paddle signifies a bridge between the two programs since canoes were meant to connect cultures and civilizations in ancient days. The group also was able to visit several rotation sites and hospitals, and spoke with the pharmacists on their roles and responsibilities.

"This visit gave us a sense and appreciation for pharmacy practice in Thailand. It is exciting that Chulalongkorn will begin their first APPE rotations this fall and that our students will be a part of that when they travel to Thailand for their own rotation," Dr. Gomez said.

They also met with faculty at both universities, and gave lectures on experiential curriculum and student activities as well as developing an oncology rotation, giving feedback and developing professionalism.



Dr. Carolyn Ma (third from right) met with Dean Rungpetch Sakulbumrungsil from Chulalongkorn University. Others are (from left) Drs. Chankit Puttilerpong, coordinator of pharmacy practice department, Thitima Wattanavijitkul, Chair, Department of Pharmacy Practice, both from Chulalongkorn University; Supakit Wongwiwatthananukit, DKICP; Dean Sakulbumrungsil, Dr. Ma; Lara Gomez, DKICP; and Rattaya Luechapudiporn, Associate Dean for Academic Affairs, Chulalongkorn.

(Below) Dr. Carolyn Ma (fourth from left) presented the ceremonial paddle to Dean Thanapat Songsak, Faculty of Pharmacy, Rangsit, University. Front row from left to right, Carolyn Ma, Dean Songsak, Dr. Poj Kulvanich (Chair and Professor of Department of Pharmaceutical Sciences), Professor Sarinee Krittiyanunt (Chair Department of Pharmaceutical Care), Dr. Oranong Kangsadalampai, Mr. Natawat Chankana. Back row from left to right, Ms. Nisittra Polkot, Lara Gomez, Mr. Pathompong Sathapornpong, Supakit, Dr. Narinee Pradubyard, Dr. Ornuma Sintawee, Dr. Pathom Somwong



Osothsala Community Pharmacy at Chulalongkorn University sees about 700-800 patient/customers every day.



(Left) Sun Herb Thai Chinese Manufacturing holds promise for future collaboration. From left to right, Ornuma Sintawee, Narinee Pradubyard, Laksana Charoenchai, Lara Gomez, Carolyn Ma, Nisittra Polkot, Manufacturing Manager Natawat Chankana and Pathom Somwong.

## DKICP alumni work on groundbreaking project improving health care in Hawai'i

DKICP graduates are leading the charge to improve health care for many people in rural Hawai'i by taking jobs as consulting pharmacists with the Pharm2Pharm initiative. The project, funded by a \$14.3 million CMS Health Care Innovation Award, is located in the UH Hilo DKICP's Center for Rural Health Science and led by Karen Pellegrin, director of strategic planning and continuing/distance education for DKICP.

"These graduates are not only prepared clinically, they are also strong leaders, every one of them," Dr. Pellegrin said. "They had the courage to walk into new positions with very little advance structure, and are blazing the trail themselves as they help build the model to identify patients who are at risk for hospital readmissions. They are a testament to the quality of education our graduates receive, but more than that, they show that they are good citizens of our state."

The program was launched on Maui last February, on Kauai in April, and on the Big Island last July. The first four hired as hospital consulting pharmacists to launch in the four rural regions last year were Michael Taylor (Kauai), Jessica Ku (Hilo), Reece Uyeno (Kona) and Kira Chung (Maui). In October, DKICP graduates Christopher Ayson, Angela Li and Thomas Bui accepted positions in the project and DKICP graduate Elizabeth Lee joined in December. In addition, community pharmacies are taking care of these patients after they are discharged. For example, DKICP graduates Pualei Santore and Cari Niimi, both pharmacists at the Sack N Save pharmacy in Hilo, are community consulting pharmacists for Pharm2Pharm.

## Kauai



While still a student pharmacist, **Michael Taylor** completed multiple rotations both at Wilcox Memorial Hospital on Kauai and also at Pali Momi Medical Center on Oahu with Dr. Roy Goo, DKICP assistant professor and the DKICP/ HPH PGY-1 Residency Program Director. He is now a consulting

pharmacist based at Wilcox Memorial Hospital.

"One of the main reasons I became a pharmacist was my enjoyment of the personal interactions with patients," Dr. Taylor said. "As I tried to decide where I would practice upon graduation, I knew I wanted the 'thrill' and 'excitement' that practicing in a hospital provided, but I also had the desire to interact with patients on a personal level. This is one of the main reasons I became interested in the Pharm2Pharm program, as it allows me to have these personal interactions while also maintaining the challenging atmosphere of practicing in the acute hospital setting."

Hospital consulting pharmacists for Pharm2Pharm screen new admissions and ER patients to determine if they're possible Pharm2Pharm candidates. A typical day might involve participating in the daily inter-professional rounds on the various hospital floors, attended by physicians, case managers, RNs, dieticians, physical therapists, social workers and pharmacists, evaluating the appropriateness of every patient that is admitted into the hospital for enrollment in the Pharm2Pharm program; identifying and confirming all current prescription & OTC / Herbal / Complementary medication a patient takes, by performing a comprehensive medication reconciliation; and evaluating the appropriateness of the patient's current drug therapy, taking into account, the patient's home meds and current health statuses and if a discrepancy is discovered reports the information to the patient's physician, via either a face-to-face report, a phone call or an EMR email. They also will provide discharge education pertaining to either the patient's medical condition and/or medications as well as prepare patient discharge summaries, containing pertinent medication lists, physician notes and discharge notes for the community consulting pharmacist.

"Regardless if I practice in the personable retail setting or stay in the exciting field of hospital pharmacy (or anywhere in between), I am thankful for this position with Pharm2Pharm program and the opportunity that both Drs. Karen Pellegrin and Roy Goo have given me," Dr. Taylor said. "It has been under their excellent tutelage that I have been able to grow and develop as a new pharmacist and will take the skills I have learned with me as I move forward in my career."



# Big Island



**Reece Uyeno** also learned about Pharm2Pharm during his fourth year as a student pharmacist. Based in Kona Community Hospital, Dr. Uyeno screens new admissions and ER patients for possible Pharm2Pharm candidates.

"I really enjoy having the opportunity to sit down with patients and educate them about their medications on a daily basis," Dr. Uyeno said. "Hopefully in the future there will be a higher demand for discharge pharmacists and I can continue to do what I love."



**Jessica Ku** became the first consulting pharmacist at Hilo Medical Center. Along with colleagues Chris Ayson and Angela Li, Dr. Ku looks at all newly admitted patients specifically for patients with complex disease states and/or a complex medication list. They

also look for those patients who are constantly being readmitted because they are interested in seeing if there is something we can improve their medication management.

"We go and speak to each of these patients throughout the day," Dr. Ku said. "We ask them about their home-life, their diet, lifestyle, and our shining

glory is when we talk to them about their medications. We educate them about what their medications are, how they work, why they are on them, we ask them if they have any questions or concerns. The beauty of it is we actually have the time to do this."

Their job is to complete a Medication Reconciliation by calling pharmacies and doctors' offices to get active medication lists to see if there are any recommendations to make in regards to safety, efficacy, duplicate therapy.

"This job allows me to use my knowledge, and my favorite part is offering that knowledge to patients on a daily basis, here in Hilo," Dr. Ku said. "Empowering the patient by educating them is exactly what I wanted to do with my career in the healthcare industry, and it is what I hope to continue to do in the future."

# Maui



**Kira Chung** also is one of the original four consulting pharmacists who was instrumental in carving out the job at Maui Memorial Medical Center in Wailuku.

"Pharm2Pharm provides me ample experience interacting and dealing with many facets of patient care," Dr. Chung said. "The ability to coordinate the continuum of patient care between community pharmacists, hospitalists, primary care physicians, and hospital pharmacists provides a very unique skill set."



(Back row from left) Meeting at Hilo Medical Center on Jan. 8 were Dan Brinkman, Regional Chief Nurse Executive at Hilo Medical Center; Joanne Lynn, Altarum Institute; Howard Ainsley, CEO, Hilo Medical Center; Cathy Call, Altarum Institute; Terry McInnis, Blue Thorn Consulting. (Front row from left) Jennifer Maninga, Hilo Medical Center; Angela Li, Pharm2Pharm Hospital Consulting Pharmacist (2013 DKICP graduate); Denise Braun, Altarum Institute; Karen Pellegrin, Pharm2Pharm Principal Investigator from The Daniel K. Inouye College of Pharmacy; Chris Ayson, Pharm2Pharm Hospital Consulting Pharmacist (2013 DKICP graduate); and Jessica Ku, Pharm2Pharm Hospital Consulting Pharmacist (2013 DKICP graduate).

## Faculty Seminar Series



Assistant Professor in Pharmaceutical Sciences Dr. Linda Connelly (left) was the host for seminar speaker Dr. Fiona Yull, associate professor in Department of Cancer Biology at Vanderbilt University. Dr. Yull presented research on "Targeted activation of NF-kappaB within macrophages as cancer therapy" in October.



Brown University's Dr. Wayne Bowen, Upjohn Professor of Pharmacology, Professor of Biology and Chair, Department of Molecular Pharmacology, Physiology and Biotechnology, presented his research seminar entitled "Sigma-2 Receptor-Mediated Apoptosis in Cancer Cells" in January. His host was Dr. Dana-Lynn Koomoa-Lange, assistant professor, Department of Pharmaceutical Sciences.

## Walmart pharmacy national/ regional execs tour DKICP

From left to right: Warren Moore, Senior Director for Health and Wellness based in Phoenix; Amy Este, Hawai'i Director for Health and Wellness; Lori Schmidt, Regional Director for Health and Wellness, all from Walmart received an informational tour of DKICP from Anissa Marzuki and Jynelle Tangonan, Student Ambassadors from the class of 2016.



# Students show creative side during rotations

*Fourth-year student pharmacists Audrey Kumasaka (left) and Sharon Lum show off their artistic skills by creating a board game called "Drug those Bugs" to help discuss antimicrobial therapy with fellow students on their Acute Medicine rotations at Straub Clinic and Hospital.*



# Hula in Hilo

*Members of Phi Delta Chi picked a sunny day in Hilo to prepare to perform a hula for the 2014 Pacific Regionals Conference in Honolulu, at which they are the hosts in February.*

# Rho Chi joins Mayor to promote health care

*Student pharmacists Lindsey Takara (left) and Kristina Lo met Mayor William "Billy" Kenoi at Rho Chi the Mayor's Health Fest in September at the Hilo Bayfront. This event, hosted by Mayor Kenoi and the County of Hawai'i, promoted healthy families with health information booths, kids activities, health screenings, food and entertainment. Rho Chi participated with a compounding booth that helped kids compound slime. Phi Delta Chi also had a booth at the Health Fest.*



# DKICP student pharmacists exchange ideas, make connections at Midyear conference

By Akio Yanagisawa

Hawai'i Student Society of Health-System Pharmacy President

Phi Lambda Sigma - Pharmacy Leadership Society Treasurer

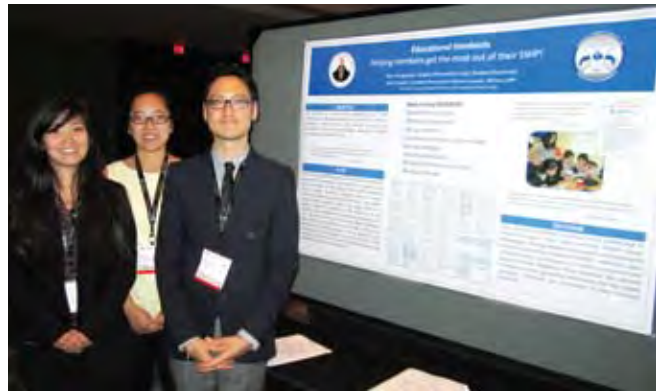
Student Pharmacist c/o 2015

From December 7-12, Orlando, Florida was home to one of the largest gathering of pharmacists in the world, the American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting. More than 20,000 professionals related to the practice of pharmacy, including students, new practitioners, experienced clinicians, technicians and others, gathered to exchange information and ideas. Through the efforts of the Hawai'i Student Society of Health-System Pharmacy (HSSHP) and the Daniel K. Inouye College of Pharmacy, nine students were given the opportunity to experience this annual meeting.

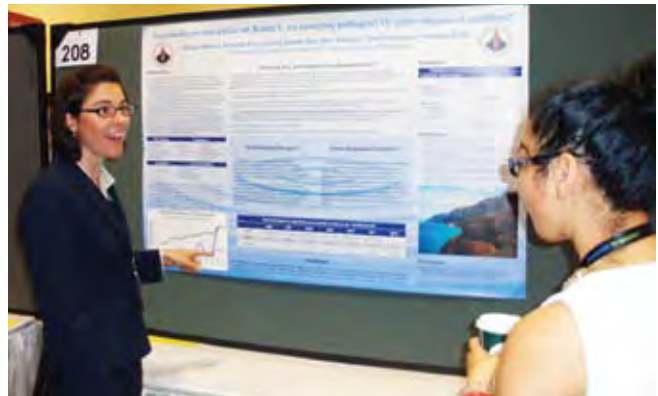
For some, the experience was about interviews and connecting with potential fellowship and residency programs. Andy Le, a fourth-year student, was dressed to impress and carried stacks of CVs and business cards in his hand prepared to move into the next stage of his pharmacy career. He interviewed all day with various drug companies, and networked at their receptions at night. Stephanie Ogle took the opportunity to meet with over 10 different PGY1 programs through the Residency Showcase and the Personnel Placement Service. She also recommended the Midyear Clinical Meeting to both learn facts and the "chemistry" of various program.

For first timers, this was an opportunity to explore pharmacy beyond the confines of our local ohana. Kelly Ishizuka, Le Du, and Akio Yanagisawa presented HSSHP at the Student Society Showcase. During this session, Student Societies of Health-system Pharmacy (SSHPs) from New York to the Bahamas presented a gamut of programming ideas. Some motivated their members to pursue a career in health systems with residency presentations while others served the local community with poison control education and immunization information.

Andrea Brauer was one of the students who presented her research poster alongside 1,200 students during the meeting. "The Midyear Clinical Meeting] was a refreshing experience to see how supportive everyone is, eager to share their knowledge and experiences, within the pharmacy profession," she commented on the overall atmosphere of the meeting. "The opportunity to experience the larger world of pharmacy, beyond the walls of the college of pharmacy, reaffirmed my choice of pharmacy as a profession. (The Midyear Clinical Meeting) may be overwhelming and even intimidating, but I highly encourage pharmacy students to get out and attend a national conference. You never know what may peak your interest or



Kelly Ishizuka (left), Le Du and Akio Yanagisawa presented research (Photo by Kelly Ishizuka)



Andrea Brauer explains her poster session at the Mid year meeting (Photo by Akio Yanagisawa).

what connections you may make."

One of the key programs of the Midyear Clinical Meeting was the Residency Showcase. For three consecutive days, many of the residency programs from across the country presented their residency programs to potential applicants and interested parties. Several alumni from the Daniel K. Inouye College of Pharmacy were also present, serving as representatives to their various programs. Kelly Ishizuka stated, "I'm glad I had the time to speak with numerous residents and residency program directors to get a better understanding of the various PGY 1 programs available around the country." Le Du also emphasized the ability to meet new people but to also "reconnect with old pharmacy acquaintances."

Students also had the opportunity to hear General Colin L. Powell, the former Secretary of State, speak about his experiences in adapting to change. As he described his acclimation to his new roles, he spoke to the dynamic field of pharmacy and how pharmacists must also learn to grow with change. As pharmacists move towards an ever burgeoning role as healthcare providers, they must increasingly learn to communicate with other healthcare professionals, their patients, and each other.

Through the aid of the Hawai'i Student Society of Health-System Pharmacy and the Daniel K. Inouye College of Pharmacy, nine students were given the opportunity to attend the ASHP Midyear Clinical Meeting to connect, learn alongside their peers, and to grow as pharmacy professionals.

# Student Pharmacists work with Tobacco Free East Hawai'i Coalition

By Jarred Prudencio  
Student Ambassador  
Student Pharmacist, Class of 2015

Working with the Tobacco Free

East Hawai'i Coalition, student pharmacists from the Daniel K. Inouye College of Pharmacy supported a bill that was signed into law in December, making Hawai'i Island the fourth county in the U.S. to adopt a policy limiting tobacco purchase to 21 and older.

The DKICP Tobacco Prevention Project advocates against the health consequences of tobacco use by promoting prevention. As student pharmacists, we strive to get involved and educate the community about tobacco in various ways. Whether it is through presentations, petitions, or sign waving, the DKICP Tobacco Prevention Project is strongly active in the fight to get Hawai'i to be a tobacco-free community.

Our major project is the "What About Tobacco" (WAT) Program, through which, DKICP student pharmacists deliver

engaging educational presentations in fourth- grade classes throughout East Hawai'i to increase awareness of the dangers of tobacco use. Targeting fourth-graders concentrates efforts on those who have not started to use tobacco, in hopes of achieving a tobacco-free generation. In the past year, we have reached the majority of the elementary schools throughout East Hawai'i, and are looking forward to continuing at these schools as well as expanding to schools throughout the island.

This past year, DKICP student pharmacists actively supported the Bill No. 135 to raise the age of tobacco sales from 18 to 21 in Hawai'i County. Most smokers convert from experimenting to regular use (addiction) between the ages of 18 and 21. We gathered hundreds of petition signatures to support the law, and handed out information about tobacco prevention, on the UH Hilo campus, Hawai'i Community College campus, and in public settings including the Prince Kuhio Plaza during the Annual DKICP Health Fair. DKICP student pharmacists also participated in sign-waving at the County Building in Hilo on the morning the bill received its first reading in front of the Hawai'i County Council. Two weeks later the bill was read for the second reading and passed with 9-0 vote in favor of this new law. It was then passed onto Mayor Kenoi who signed it into law in December 2013.

The members of the DKICP Tobacco Prevention Project are grateful be able to actively support our community that cares about the health of our keiki and the adults that they will become. As members of this project, we are always looking for new opportunities to support the community in the goal of becoming a tobacco-free generation.



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## Holiday Celebrations

Members of Phi Delta Chi spread good cheer in their holiday card, which they distributed to regional officers and chapters, as well as all DKICP faculty and staff. (Photo by Christopher Ayson, Class of 2013).



# Thanksgiving 2013



*Dean and Mrs. Pezzuto, along with children John Henry, Elisabeth and Michael, opened their home once again to welcome everyone in the College to a Thanksgiving feast.*



## Celebrate!!!

*Almost 100 people including many family members attended the end-of-year celebration at the Hilo Yacht Club on Dec. 16, sponsored by the Daniel K. Inouye College of Pharmacy. Michael Pezzuto got the ball rolling in a segment with a joke when all were invited to talk about things that made them happy this year.*



# Faculty attends rat lungworm disease conference in China

**D**rs. Susan Jarvi (right) and Kay Howe, a graduate student who works in the Jarvi Lab, attended the third international workshop on rat lungworm disease in November at Sun Yat-Sen University, Guangzhou, China.

Jarvi, who is an associate professor in the Department of Pharmaceutical Sciences as well as director of Pre-Pharmacy Program, said they met with some of the world's top researchers in the area, including Hoi Sen Yong- Emeritus Professor, University of Malaysia, Sr. Fellow Academy of Sciences, Malaysia; Xiao-Nong Zhou-Director National Institute of Parasitic Diseases, China CDC; Praphathip Eamsobhana (Tip)- molecular immunologist, former chair Dept Parasitology, Faculty of Med, Mahidol University, Bangkok, Thailand; Carlos Graff-Teixeira, MD/PhD Tropical Medicine, Inst Oswaldo Cruz, FIOCRUZ, Rio de Janeiro, Brazil; and Malcolm Jones, Assoc Prof Vet Biology and Parasitology, U Queensland, Brisbane, Australia.

"Rat lungworm disease truly is a global emerging disease," Jarvi said. "In talking with the leaders in this field and seeing their interest in our work, I realized we are likely the



most active researchers in this topic in the U.S. Our talks were very well-received."

Jarvi said she is currently collaborating with a researcher in Thailand that has isolated by proteins, and hopes to get an antibody-based diagnostic test running here on the Big Island. She also met a researcher who wants to use ideas from the activity book that she developed to redevelop into culturally appropriate books to distribute throughout southeast Asia.

## Faculty Briefs



**Deborah Juarez**, associate professor, Department of Pharmacy Practice, was co-author with: 1) lead author Dan Hu and co-authors Michelle Yeboah and Theresa Castillo on "Interventions to Increase Medication Adherence in African American and Latino Populations: A Literature Review"

to be published in *Hawai'i Journal of Medicine and Health*; 2) Carolyn Ma, Audrey Kumasaka, Reid Shimada, and James Davis on "Failure to Reach Target Glycated A1C Levels Among Patients with Diabetes Who are Adherent to their Anti-Diabetes Medication" to be published in Population Health Management (in press); 3) lead author Candice Tan, coauthors Stacey Haumea and Charlotte Grimm on "A Descriptive Study of Marshallese and Chuukese Patients with Diabetes in Hawai'i" to be published in *Hawai'i Journal of Medicine and Health* (in press); and 4) James

Davis and Ben Chavez on "Observation of adjustments to diabetes medications in response to increases in hemoglobin A1c: An epidemiologic study" in press at *Annals of Pharmacotherapy*.

**Aaron Jacobs**, assistant professor, Department of Pharmaceutical Sciences, was the lead author on a paper entitled "Heat shock factor 1 confers resistance to Hsp90 inhibitors through p62/SQSTM1 expression and promotion of autophagic flux" with co-authors Buddhini Samarasinghe, Christina T.K. Wales and Frederick R. Taylor published in February's *Biochemical Pharmacology*.



**Patricia Juszczak**, assistant specialist and clinical education coordinator, Department of Pharmacy Practice, was nominated by Dean Pezzuto and received a scholarship to represent the Daniel K. Inouye College of Pharmacy at the 2013 American Pharmacists Association Self-Care Institute (SCI)

*continued on page 30*

held June 13-16, 2013 in Washington DC. The SCI brings together faculty representatives from the majority of our nation's schools and colleges of pharmacy, along with representatives from nurse practitioner and physician assistant schools. Representatives engaged in activities relative to the latest innovations in self-care therapeutics and education.

Patricia also received a University of Hawai'i at Hilo Research Council Travel Award on May 30, 2013. She presented her research and education poster entitled "Impact of Intravenous Admixture Simulation on Students Entering Pharmacy Practice Rotations" at the 114th Annual Meeting of the American Association of Colleges of Pharmacy, Chicago, Illinois, on July 14, 2013. The abstract was published in the American Journal of Pharmaceutical Education: Volume 77, Issue 5, Article 109 and as Jusczak, P. (2013) *Impact of Intravenous Admixture Simulation on Students Entering Pharmacy Practice Rotations* American Association of Colleges of Pharmacy Online Learning Center.



**Carolyn Ma**, co-chair and associate professor, Forrest Batz, assistant professor and Deborah Taira Juarez, associate professor, all from the the Department of Pharmacy Practice, were co-authors on "Drug Take Back in Hawai'i: Partnership

Between the University of Hawai'i Hilo College of Pharmacy and the Narcotics Enforcement Division" published in Hawai'i Journal of Medicine and Public Health, January, 2014. Dr. Ma also was the sole author on "Role of Pharmacists in Optimizing the use of anti-cancer drugs in the clinical setting" accepted for publication in *Integrated Pharmacy Research and Practice*.

**Russell Molyneux**, affiliate faculty, was awarded \$5,000 by the International Union of Pure and Applied Chemistry (IUPAC) to support the work of an international panel of experts, which he chairs, that is designed to specify "Recommended Methods for the Structural Identification of Biologically Active Compounds in Food and Flavor Chemistry." The outcome will be published in the journal *Pure and Applied Chemistry* as an official IUPAC recommendation. Dr. Molyneux also co-authored "Targeted Metabolomics: a New Section in the *Journal of Agricultural and Food Chemistry*" with James N. Seiber and Peter Schieberle.



**Karen Pellegrin**, director of Strategic Planning and Continuing/

Distance Education, was invited to give the keynote session on "Value-Based Care: Transforming Healthcare Delivery and Reducing Costs" at the eHealth Initiative Annual Conference 2014: The Roadmap to Healthcare Delivery Transformation, in Championsgate, Florida in January. The session was moderated by Rodney Cain, vice president, Product Strategy, Health Information Exchange, Optum. She was also invited to speak on "Thought Leadership Session: Pharm2Pharm – Pharmacy Coordinated Care Model" for Emdeon Insights annual meeting, Asheville, NC.

**Dean John M. Pezzuto** was coauthor with 1) Kondratyuk, T. and Ogas, T. on "T. Resveratrol derivatives: a patent review (2009-2012)" published in *Expert Opinion on Therapeutics*; 2) Andreani, A., Leoni, A., Locatelli, A., Morigi, R., Rambaldi, M., Cervellati, R., Cervellati, R., Greco, E., Kondartyuk, T.P., Park, E.-J., Huang, K., van Breemen, R.B. on "Chemopreventive and Antioxidant Activity of 6-Substituted Imidazo[2,1-b]thiazoles" published in *European Journal of Medicinal Chemistry*; and 3) Park, E.J., Shen, L. Sun, D. on "Inhibitory effect of a callophycin A derivative on iNOS expression via inhibition of Akt in lipopolysaccharide-stimulated RAW264.7 cells" published in the *Journal for Natural Products*.



**Patricia Uber**, co-chair and professor, Department of Pharmacy Practice, was co-author with Mandeep R. Mehra, MD, Garrick C. Stewart, MD on "The Vexing Problem of Thrombosis in Long-Term Mechanical Circulatory Support" published in the *Journal of Heart and Lung Transplantation*.

**Supakit Wongwiwatthananukit**, associate professor, Department of Pharmacy Practice, has one publication entitled "A Training Program for Pharmacy Students on Providing Diabetes Care" published in *American Journal of Pharmaceutical Education*. Coauthors were Zeszotarski P, Owusu Y, Tan C, and Gomez L. He and Dr. Carolyn Ma also have served as faculty advisors for Francine Amoa, third-year DKICP student pharmacist, on the research project entitled "Factors Influencing Consumers to Purchase Over-the-Counter Drugs in American Samoa." The project was presented at the Fall 2013 UHH Applied Learning Experiences (ALEX) Research Conference and was selected to be the Winner of the Best Paper/Presentation Award for ALEX Symposium.







Zoe Chun-Dela Cruz worked side by side with volunteers such as Gemma Constantino from Aloha Medical Mission to help people in the Philippines after Typhoon Haiyan.

## Member of inaugural class gives back to community in trip to Philippines

Zoe Chun-Dela Cruz, Class of 2011, 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 over 5,700 people.

Because she had military medic and surgery training in addition to her PharmD training, she was able to help with medical care on

devastation-related wounds, which she said included deep gashes, rashes and fungal infections from wearing wet clothes for multiple days. She witnessed body-long scrapes on children who grabbed coconut trees and held on as tight as they could. She also dispensed medications prescribed by doctors who often had to shout over crowds to ask about dosages and substitutions.

She said, "There was an overwhelming amount of devastation, more than people know. We traveled to the rural areas, the islands of Bantayan and Cebu/Leyte, where the typhoon hit

the worst. Many had gone a couple of weeks without food. I was lucky to have been there after the typhoon to hear their stories and treat wounds while they spoke."

Zoe Chun-Dela Cruz returned in December to her home on Oahu, where she operates her own business called "Common Scents."



## Alumni Report



### Alum expresses gratitude amidst important work with nation's veterans

By Dr. Chaz Barit  
Class of 2012

My first words of this report would like to be of thanks. Words cannot express my gratitude for the education and experiences provided by the UH Hilo College of pharmacy program. The state of Hawai'i is slowly seeing the benefits of the college's successful program. Being both a lifelong resident of Hawai'i and product of the program, I am thankful. To all dedicated staff, professors, supporters, and

administrators of the program, Mahalo Piha.

My name is Chaz Barit. My post-graduation with the class of 2012 has taken me to an inaugural PGY1 ambulatory care residency program at the Veteran Affairs Pacific Islands Healthcare system (VA PIHCS). I'd rather not bore you with the high and lows and grind and whine of residency. I will tell you, though, that it was extremely challenging and one of the best decisions of my life. For all you PharmD Candidates reading, I would highly encourage you pursue one.

After completing my residency at the VA PIHCS, I was fortunate to have been selected to become a full-time clinical pharmacist at the institution where I trained. Our VA station acts as a hub for all our Veterans throughout the Pacific. We have clinics on all main islands of Hawai'i, Samoa, Guam, and Saipan. My clinical duties include working directly with primary care teams as well as serving as the

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hepatitis C pharmacist. I also precept students and had the opportunity of precepting several UHH CoP students while working here. I am proud that the tradition of prestigious education continues, as it is well evident with students that have come through my rotations. That comment truly comes with no bias as an alumni.

Going back to my work, I enjoy every aspect of providing healthcare as a clinical pharmacist to our Veterans. Every day I help fulfill our nations promise to care for those who have borne the battle. I am remembered daily of that promise with every free breath I take. It is with humility and gratefulness that I go to work serving those who have served.



Chaz Barit (back row, sixth from the left) poses with his colleagues, the clinical pharmacists and pharmacy technicians of the pharmacy service at the Veteran Affairs Pacific Islands Healthcare system.

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## Fall 2013 Dean's List

The following students from The Daniel K. Inouye College of Pharmacy at the University of Hawai'i at Hilo have been named to the Dean's List for the 2013 fall semester. The Class of 2014 was performing clinical rotations and therefore this designation does not apply.

### Class of 2017

Sean Abreu, Trenton Aoki, Lenā Asano, Mark Allen Bibera, Nicole Chin, Christopher Diaz, Nicholas Ferreira, Audrey Fung, Dann Hirayasu, David Khan, Shaun Lasky, Caleb Malinski, Sean Menda, Kevin Meno, Kelsea Mizusawa, Kimberlee Roseman, Patrick Sa'au, Nadine So, Lynnett Tran, Hoa Vo, Brenda Yuen, Zi Zhang.

### Class of 2016

Amy Anderson, Allen Bagalso, Chau Dang, Walter Domingo, Bryce Fukunaga, Jerilyn Gudoy, Alexander Guimaraes, Okezie Irondi, Leilani Isozaki, Blake Johnson, Micah Kim Han, Quynh Le, Thao Le, Uoc Le, Katherine Lee, Tina Liu, Shanon Makanui, Melissa Monette, Sarah Osellame, Joson Perreira, Yolette Quach, Eric Sanders, Huong-Thy Ta, Mireya Talavera, Christopher Thai, Eric Tsuji, Brandon Tuzon, Kevin Wang.

### Class of 2015

Brianne Blakesley, Jasmine Michelle Bradfish, Andrea Brauer, Richard Cleave, Chao Cox, Pavlin Dimitrov, Jozelle Gabriel, Ericson Ganotisi, Davis Hanai, Daniel Hasegawa, Kelly Ishizuka, Brian John, Madison Karr, Tiffany Khan, Traci Kusaka, Daniel Leong, Jennie Lim, Wei Lin, Kristina Lo, Kathy Morris, Chelsea Murobayashi, Tracy Ng, Thai Nguyen, Darian Oshiro, Alysia Osugi, Jessica Parker, Jarred Prudencio, Garrett Rhodes, LaTasha Riddick, Lindsey Takara, Trina Tran, Antonio Verduzco, Jill Anne Villarosa, Jillian Wewers, Nichole Wilson, Akio Yanagisawa, Nicole Young.