



To the Charter Class of the Skaggs School of Pharmacy & Pharmaceutical Sciences

We write to commend you on your superb performances on the NAPLEX and the California Pharmacy Jurisprudence Examinations. Not only did all of you pass and acquire licensure, but you should also take great pride in your scores.

Dr. Manoguerra writes,

“Let me share some interesting and exciting information we recently received from the National Association of Boards of Pharmacy, who administers the North American Pharmacist Licensure Examination (NAPLEX). They sent us summary data on our Class of 2006 performance on the exam. The first group of 17 SSPPS graduates who took the exam between May 1 and August 31, 2006 scored an average of 125.65 out of a possible 150 points. The California state average was 113.4 and the national average was 107.02. For the 7 students that took the exam between September 1 and December 31, 2006, the average score was 121.14. The state average was 101.39 and the national average was 93.18. The passing rate for our graduates was 100%.”

There are very few objective measures that we can use to validate that what we are providing to the students is adequately preparing them for the licensure exam and professional practice. This is one measure that appears to tell us that we are on the right track. Keep up the outstanding work. When we receive the data for the Class of 2007, I will share that with you as well.”

We can't do a formal statistical analysis since we don't have the distribution of all of the student scores, only the UCSD scores. Nevertheless, if we make some assumptions about score distribution, we think you are over two standard deviations above the national mean and close to the two standard deviations for the California mean. Hence, we feel that you and your classmates have distinguished yourselves, not only in the mastery of the didactic materials documented by the examinations, but also in your interfacing with the other health science professions, in presentation skills, and selection of quality internships and career options, etc.

Please keep in touch, and we look forward to your visiting us when it is convenient. You will find the Pharmaceutical Sciences Building now populated with many more students, a more fully equipped building and a continuation of the excitement about commitment to pharmacy education that you engendered as our charter class. We will be planning a second advanced student-alumni party for next May and hope that those of you in the area can again join us. Successes of this nature clearly document that the University of California made a great investment in you and in starting a professional pharmacy program at UCSD. Continuation of their support will pay dividends in healthcare and pharmaceutical research across the State for years to come.

Again, the founding faculty of 2002-2003 and Deans send our congratulations and our best wishes for continued success.

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SSPPS Welcome New Faculty



Welcome Joseph D. Ma, Pharm.D.

By Jan Hirsch, R.Ph., Ph.D.

Dr. Joseph D. Ma joined the faculty of the UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS) in August 2007 as an Assistant Professor of Clinical Pharmacy. Dr. Ma also has an appointment in the Moores UCSD Cancer Center.

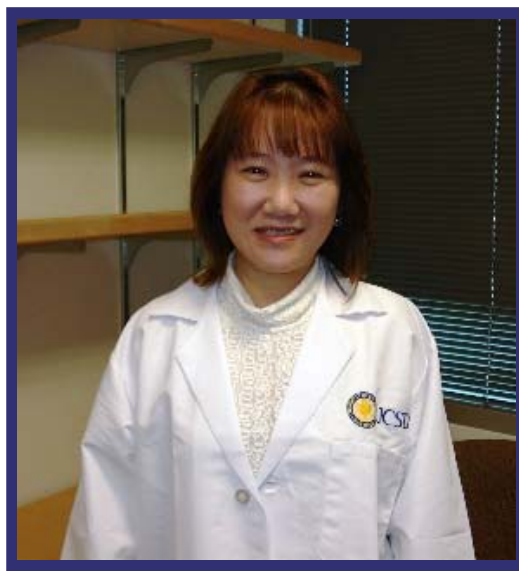
At SSPPS Dr. Ma will be co-chair of the winter quarter 212B Therapeutics course and provide lectures in the area of oncology. At the Moores Cancer Center he is in the Clinical Trials Office (CTO) working collaboratively with oncologists to implement an early phase clinical trial team to assist in the development and management of phase I clinical trials in oncology. His research interests overall are related to examining inter- and intra-individual pharmacokinetic and pharmacodynamic variability in special populations.

Dr. Ma received his Pharmacy Doctorate from the University of California, San Francisco and then completed a 2-year post doctoral fellowship in clinical pharmacology/drug metabolism at Bassett Healthcare, Cooperstown, NY. Prior to joining SSPPS, Dr. Ma worked with Amgen, Inc. (Thousand Oaks, CA) in the Early Development Department where he



was responsible for phase I protocol development and study operational and managerial functions.

When not working, Joe enjoys being outdoors now that he is ocean side once again. He is originally from Orange County so he has been spending time reacquainting himself with the sunny weather and local beaches. His passion is running and he is currently training for a half marathon. He plans to run in the Avia Orange County half marathon in January. Join him!



Welcome Grace Kuo, Pharm.D., MPH

By Charles Daniels, R.Ph., Ph.D.

Skaggs School of Pharmacy and Pharmaceutical Sciences is proud to introduce Grace Kuo, Pharm.D. as a member of the Clinical Pharmacy Faculty. Dr. Kuo joins UCSD from Baylor College of Medicine, Department of Family and Community Medicine where she demonstrated abilities as a researcher, teacher, and clinician. Grace completed her pharmacy education at Massachusetts College of Pharmacy and Allied Health Sciences (B.S.), the Oregon State University and Oregon Health Sciences University (Pharm.D.), and an ASHP Accredited Residency in Primary Care Pharmacy at the National Institutes of Health Clinical Center. Grace received her master of public health degree from the University of Texas Health Science Center at Houston and is currently a PhD candidate in health services research and health economics. Dr. Kuo is expected to mix her research interests in patient safety and patient care with a practice in the primary care clinics and her teaching duties.

NMR Facility in the Pharmaceutical Sciences Building

By Ariane Jansma, *Handel Laboratory*

If you haven't been down to the PSB basement recently, there have been lots of changes in the past few months. The Skagg's School of Pharmacy is very excited to welcome two new 600 MHz NMR systems to the school. Equipped with state-of-the-art probes and consoles, this facility is set up to answer structure questions on compounds ranging from small molecules to natural products to multi-domain proteins.

So how are we able to use these NMR spectrometers to answer structure questions? The basic principle of NMR involves the idea that certain nuclei are spinning charged particles and when placed in a magnetic field, will align with that field (figure 1A). If we represent these nuclei as a vector, we can see that applying a pulse of energy will tip them out of alignment and the manner by which they precess back to equilibrium is based on their molecular environment (figure 1B). We can use this information to determine regiochemistry, stereochemistry, through-space proximity, and ultimately molecular structure.

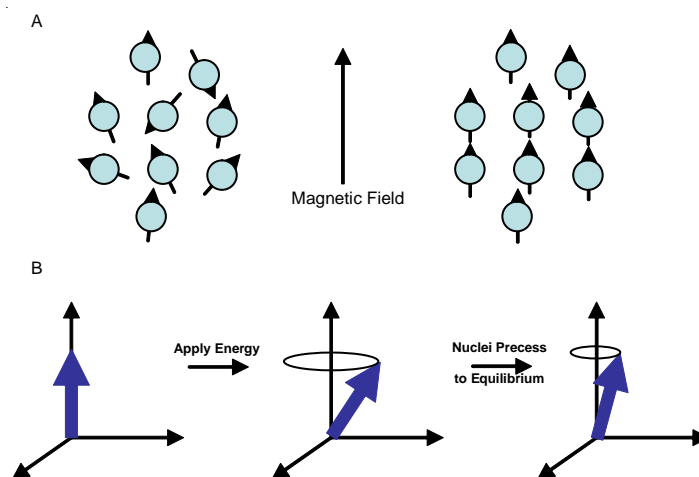


Figure 1: Basic principles of NMR

One application of NMR to multi-domain proteins is to use through-space correlations (NOEs) to determine both the tertiary and quaternary structure. For example, we can look specifically at a dimer interface by using "labeling" strategies in combination with filtered NMR experiments. Often when using NMR to study proteins, it is necessary to label them with magnetically active nuclei (^{13}C and ^{15}N) in order to achieve sufficient sensitivity. If we make a sample of 1:1 ^{13}C and ^{15}N protein, we can use filtered experiments that allow us to measure correlations specifically between protons connected to ^{13}C and protons connected to ^{15}N (Figure 2). This "HCNH-NOE" can ultimately allow us to map a protein dimer interface.

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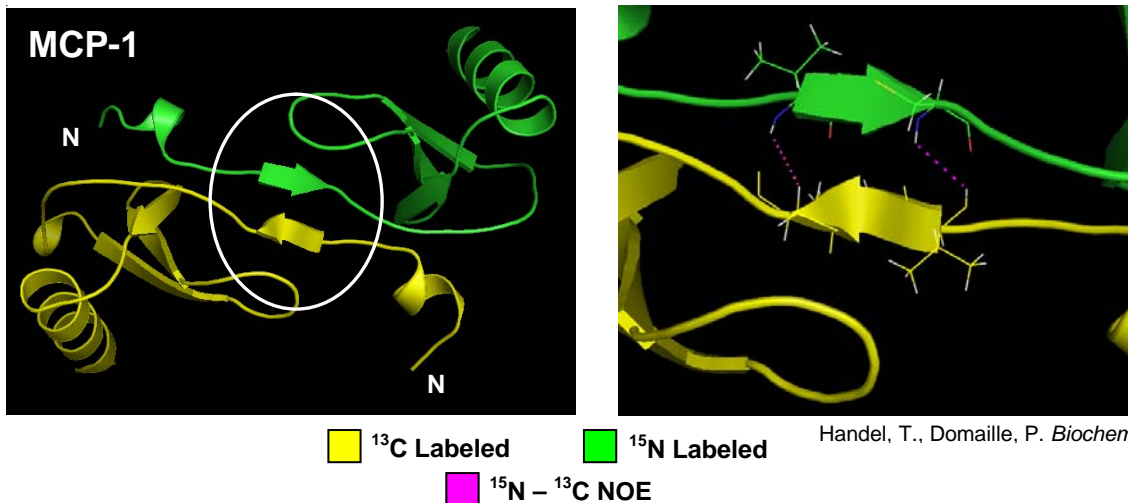


Figure 2: Application of filtered NOE experiments to a protein dimer

This is just one of many examples of how we can use NMR to examine molecular structure. In the Handel lab, we are focused on structure and function of proteins, specifically chemokines and their receptors. However, there are also some very exciting NMR projects going on with our natural products groups and future newsletters will feature their research.

Meanwhile, come and visit us at the NMR facility in the PSB basement and have a look at these cutting edge and exciting spectrometers.



BioBridge Update By Jeremy Babendure, Ph.D.



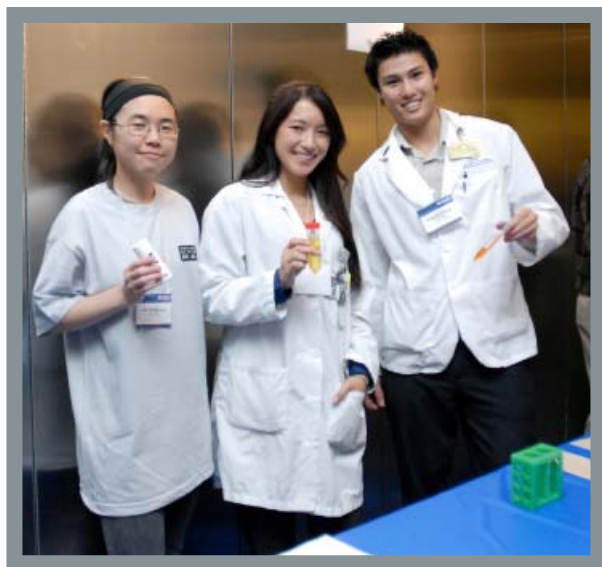
BioBridge is a collaboration of university scientists, public school educators, museums, and local industry focused on linking the scientific and educational communities by bringing research discoveries directly into high school classrooms through co-developed teacher-researcher lab activities.

BioBridge was originated by Dr. Jeremy Babendure in Roger T sien's lab to develop integrated science activities based on the rainbow fluorescent protein probes. BioBridge partners

realized that for activities to successfully reach K-12 students, a variety of issues required address: 1) teacher training - BioBridge has developed a multi-tiered training approach to facilitate science teacher understanding of content background, laboratory procedures and pedagogical strategies; 2) institutional support - many UCSD programs are partnering to engage undergraduate and graduate students during activity implementation. In addition, high school Student Leaders are being trained to assist their teachers with actual lab implementations; 3) cost - BioBridge and Sweetwater's Castle Park High School have worked to reduce lab material costs by pioneering a biotechnology course in which students produce BioBridge kits as a component of their high school science class for distribution across the entire district, thus, greatly reducing the cost of production and increasing project sustainability.



How can *you* get involved?



Curriculum Development: BioBridge and the Skaggs School of Pharmacy have teamed to create an elective course where students will develop science activities based on their own research or on-going research in their laboratory. Students will collaborate with local teachers to develop background information and protocols for use in high school classrooms.

Teacher Professional Development: Student Pharmacists can assist in organizing two or three 2-day Professional Development Workshops for high school teachers and participate as a teaching assistant to teachers on the day workshops are introduced. Organizing such sessions will include preparing (or overseeing undergraduates in the preparation of) workshop laboratory materials including quality control, training undergraduate students in lab techniques, protocols and background to both assist teachers and mentor high school Student Leaders.

Continued on next page

BioBridge article continued

High School Classroom: Teachers who complete the two-day workshop next implement the lab activities in their mainstream classrooms. The first time a new activity is introduced in the classroom, student pharmacists can work at the high school to help set up the laboratory, assist in the activities, and ultimately impact the lives of students in the schools.

Society for Science Student Leaders - BioBridge has recently established a Society for Science Student Leaders (SSSL) with the intention of linking the scientific and educational communities. This society will give high school students opportunities to interact with members of the San Diego science community at exciting venues. For example, the SSSL's first event was held at BODIES: THE EXHIBITION when 150 Sweetwater District high school students, 15 teachers, 50 UCSD undergraduates, 15 graduate students, and 20 science professionals were brought together for "The Amazing Human Race." Teams composed of 5 high school students and 1 undergraduate mentor competed in a series of challenges supervised by science professionals from around the community (e.g., UCSD professors, postdocs, graduate students, clinicians, private industry researchers). Several students from the School of Pharmacy participated in this event as team leaders and presenters (see photos).

BE CREATIVE! -If you have other ideas concerning how you would like to reach out to our community, we would be very interested and pleased to meet to make your ideas work!

If you would like more information about how to get involved please contact us.

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San Diego Residency Leadership Group Meet at the SSPPS Health Sciences Education Center

Annual Program of the San Diego Residency Leadership group was held October 6, 2007 in the SSPPS Health Sciences Education Center.

There were approximately 65 registrants for the program, consisting of program directors, residents, and resident preceptors from San Diego's hospitals. The keynote speaker was Sara J. White (former Director of Pharmacy at Stanford Medical Center and nationally known for her work in pharmacy leadership development). Other speakers were Anthony Morreale on Innovation in Pharmacy Services at the VA, and Rani Dibbini on leadership opportunities during the transition from student to resident to practitioner.

Welcome New Voluntary & Non-Salaried Clinical Faculty

James Chow
 Michael Cipriano
 Therese Clark
 John Gama
 Ashkan Khabazian
 Stacey Nguyen
 Robert E. Pachorek

SSPPS Recognition

Student Pharmacist at UCSD Wins Statewide Award for Leadership

San Diego, CA, August 15, 2007 - A University of California, San Diego pharmacy student has been named the recipient of a 2007 Student Leadership Award by the California Society of Health-System Pharmacists (CSHP).

Emily Lee is a student pharmacist at UCSD. Lee founded and then served as the ASHP/CSHP UCSD Student Chapter president and has also participated in numerous community service activities.

The Student Leadership Award was presented at CSHP's annual convention, "Seminar," held October 19-21, 2007 in Palm Springs, CA, and recognizes one student from each California School of Pharmacy who has contributed to CSHP and the pharmacy profession in ways that may include leadership roles.

Emily Lee was the founding chair of a poison prevention program, which is implemented each year and has been used to educate over 300 local elementary school children against accidental poisoning. Last year, she submitted a chapter grant request to CSHP to fund the program and was awarded \$1000.

Dr. Palmer Taylor was an award finalist for the First Annual Health Care Champions Awards.

The first annual Health Care Champions Awards was hosted by the San Diego Business Journal. More than twenty finalists and seven honorees, were the distinguished group that has made tremendous impact on the quality of health care in San Diego region and beyond through innovation, integrity and leadership.

Dr. Shirley Tsunoda successfully completed the NCLAM program as a member of the class of 2007. The title of her paper:

"Acetaminophen Metabolism: Modulation of the Pregnane X Receptor by St. Johns' Wort"

Congratulations and best wishes as our fourth SSPPS graduate.

The CSHP Practitioner Recognition Program

is designed to recognize members who have made significant contributions to the Society and whose professional practice and activities have promoted CSHP's mission statement, to "...serve patients and the public through the promotion of wellness and the best use of medications."

The Society believes members promote and sustain CSHP's mission by sharing innovations and model practices with others through publications, formal presentations, and by mentoring or precepting young practitioners, residents, and students.

Eight pharmacists were designated Practitioner Fellows of the California Society of Health-System Pharmacists for 2007 and one of our fabulous preceptors was one of the eight - **Armen Simonian, Pharm.D., FCSHP** was introduced during the Opening Session of Seminar on Friday, October 19, 2007.

Dr. Candis Morello was given the "2007 Award for Innovation in Pharmacy Practice" for her work, "Development and Clinical Outcomes of Pharmacist-Managed Diabetes Care Clinics."

2007 White Coat Ceremony By Kim Ciero



On September 28, 2007, the Faculty and staff of the Skaggs School of Pharmacy and Pharmaceutical Sciences welcomed the 60 members of the Class of 2011 to the School during the annual White Coat Ceremony. Welcoming comments were provided by Chancellor Marye Anne Fox, and Dean and Associate Vice-Chancellor for Health Sciences Palmer Taylor. The 44 women and 16 men were cloaked in their white coats by Dean Taylor following which they were inducted into the profession of pharmacy by reciting the Oath of a Pharmacist. The keynote presentation was provided by Raffi Simonian, Pharm.D. The Class President of the 2010 class, Laura LaFranchise represented the current student body by welcoming the new class. Following the program, a reception was held for the new students and their families in the Health Sciences Education Center.



Thank You SSPPS Volunteers for All You Do

Julie Abraham	David Dirig	Ashkan Khabazian	Khanh Nguyen	Shanna Stetz
Michael Amantea	Benjamin Dishman	Jason Kim	Stacey Nguyen	Maria Stubbs
Philip Anderson	Alex Dominguez	Michael Kruse	Maricela Ochoa	Margaret Stull
Rabia Atayee	Candace Eacker	Jonathan Lacro	Robert Pachorek	Ryan Suemoto
Linda Awdishu	John Eastham	Jason Lam	Craig Park	Caroline Sul
Craig Ballard	Melissa Egan	James Lane	Helen Park	Rochelle Sullivan
David Bartlett	Rene Endow-Eyer	Tung Le	Pratima Patel	Kimberly Tallian
Beatrice Batarse	Michael Falcon	Susan Leckband	Rosene Pirrello	Michele Tam
Jennigrace Bautista	Burt Finkelstein	Sarah Lorentz	Yazdi Pithavala	Linh To
Yogesh Bhakta	Ron Floyd	Grant Lum	Brian Plowman	Juan Toledo
Joel Boerth	Emerald Foster	Phong Ly	Susan Raber	Binh Tran
Mark Bounthavong	Anthony Fox	Farah Madhat	Jagwant Rai	Camhong Tran
Catherine Bousman	Darlene Fujimoto	William Marcus	Chantal Reed	Meghana Trivedi
Kevin Box	Wendy Fung	William Mastin	Linda Reynolds	Gloria Tsu
Theodore Briski	John Gama	Stephanie Matinpour	Gale Romanowski	Ed Tsu
Frank Cantrell	Elizabeth Girard	Kenneth McAndrews	Laurie Rubie	Danny Vu
Edmund Capparelli	Richard Gordon	Sue McGuinness	Jason Sauberan	Sherry Watanabe
Timothy Chen	Robert Graul	Gordon McGuire	Kenneth Schell	Scott Weber
James Chow	William Greenberg	Colin McGuire	Robert Schoenhaus	Christopher Woo
Michael Cipriano	Jerome Greene	Katherine Medley	Stephen Segal	Sheryl Wu
Therese Clark	Gary Hagney	Heather Minger	Victoria Serrano	
Brad Colwell	Natalie Hall	Michael Misel	Nilofar Shah	
Thomas Cookson	Jessica Harris	Pamela Moise-Broder	Harminder Sikand	
James Copeland	Douglas Humber	Daniel Montoya	Raffi Simonian	
Ashley Dalton	Yelena Itkin	Anthony Morreale	Armen Simonian	
Minh Dang	Farivar Jahansouz	Providence Morris	Jilian Skog	
Karen Dang	Charles James	Edna Ng-Chen	Sally Smith	
Maria De Risi	Scott Johns	Annette Nguyen	Mark Smith	
Olga De Torres	Margo Karriker	Ken Nguyen	Craig Steinberg	
Linda Dean	Joe Kern	Thanh Nguyen	Dieter Steinmetz	

This is a current list of active volunteers with voluntary or nonsalaried appointments with the Skaggs School of Pharmacy.

Project Prevention



By Shida Hashemi, P-I and Denise Kwong, P-I

Live Well San Diego Community Health Fair APhA's Project Diabetes, Immunization, Hypertension, and Heartburn Awareness provide free health screenings to seniors in San Diego

On Saturday, May 12th, 2007, student pharmacists from UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences participated in a health screening event held at North Clairemont Senior Center. Under the supervision of Dr. Renu Singh and Dr. Sarah Lorentz, students educated the senior population about the importance of proper vaccination, diabetes prevention, and screened patients for hypertension and heartburn. Most of the screened patients had blood pressure values in the pre-hypertensive range. Six patients had blood pressure values corresponding to stage one hypertension and one patient had values in stage two hypertension range (184/90). All the patients who were screened were given diet and exercise recommendations, and/or advised to see their physician based on their reading.

Patients were also educated on the health risks associated with high blood pressure.

Patients concerned with heartburn completed a questionnaire about their symptoms and the frequency of occurrence. Their information was reviewed by a student pharmacist and patients were counseled on appropriate lifestyle and diet interventions.

Where necessary, a non-prescription medication for the treatment of heartburn symptoms was recommended.

Both operation immunization and operation diabetes provided informational poster booths. Patients were provided with detailed information on vaccination and

diabetes prevention in the form of brochures and student pharmacists were available to respond to specific questions.

An interesting case involved an elderly woman who presented to the pharmacy students with a small bruise on her right hand. She was wondering if the bruise was caused by her antihyperlipidemic medication that she was prescribed recently. Upon further inquiry, it was found that she was taking a low dose aspirin tablet every week. After discussing the case with the supervising pharmacists, students concluded that bruising was not a common side effect of antihyperlipidemic medications. The bruise was most probably due to her aspirin medication or a minor injury to her hand. The patient was advised to follow up with her physician if the bruise did not improve over the next week.

All the students enjoyed participating in this event. Health screenings like this one provide students with a good opportunity to practice their patient counseling skills and put their knowledge into practice.

Many thanks to all the student pharmacists and faculty preceptors who participated in this event: Helen Le, Tuan Nguyen, Kevin Mee, Rachel Sperling, Denise Kwong, Steven Chen, Megan Chynoweth, Karen Chen, Anh-Thu Ha, Vy Tran, Yen Nguyen, Stanton Chu, Lina Meng, and Shida Hashemi, Robert Mancini, Dr. Sarah Lorentz, and Dr. Renu Singh.

Dr. Anthony Manoguerra Retires

By Kim Ciero

Dr. Anthony Manoguerra, SSPPS founding Associate Dean for Student Affairs and Professor of Clinical Pharmacy, retired on September 30th after nearly 31 years of service to the University of California. Tony graduated from the UCSF School of Pharmacy in 1971, following which he served a one year hospital pharmacy residency also at UCSF. In

1972, he joined the faculty at the University of Maryland School of Pharmacy. In 1974, he moved to Minneapolis where he became director of the Hennepin County Medical



Center Poison Control Center and Assistant Professor at the College of Pharmacy at the University of Minnesota. In 1977, he was recruited to San Diego to develop and direct the poison control center at UCSD Medical Center and as a faculty member in the UCSF School of Pharmacy, San Diego Program. In 2000, he was granted release time by UCSF to assist in the development of the new School of Pharmacy and Pharmaceutical Sciences at UCSD. This eventually led to his appointment as the founding Associate Dean for Student Affairs.

On October 1st, the school held a retirement reception for Tony in the lobby of the Health Sciences Education Center. Dr. Lee Cantrell, the current director of the San Diego Division of the California Poison Control System, provided a summary of Tony's career along with a considerable amount of humor. Dr. Thomas Kearney, who was a toxicology fellow at UCSD in the 1980's and who is currently on the UCSF faculty, recalled his time training with Tony. He recalled the time when Tony told him that everyone at the medical center wore costumes for Halloween. So Tom came to work dressed as "Captain Ipecac". It turned out he was the only one in the poison center in costume that day. Dean Taylor, Associate Dean Daniels and Assistant Deans Colbert and Marshall all talked about Tony's achievements and contributions to the development of the school. Representatives from each class of students also spoke about Tony. Dean Taylor then presented Tony with a gift of a new fly-fishing rod for Tony to use in his new-found leisure time.

Tony is returning to part-time service with the School starting in November.

Province IX Glendale

By Ed Su, P-2

On September 28th, the brothers Kappa Psi Delta Phi attended the Province IX meeting in Glendale, AZ hosted by the Delta Sigma chapter. By air and land, the brothers of Delta Phi trekked past state lines braving treacherous deserts and invasive security checkpoints to proudly represent their chapter in the province. Upon arriving, the weary brothers were welcomed by Delta Sigma with an on campus barbecue. During the event, Brother Liz Sarles seized the crown of Province IX foosball champion by conquering all challengers including current Grand Regent Lawrence Brown in several heated matches. Despite the intensity of the matches, the chains of brotherhood were strong within the province brothers and they all managed to settle their lingering grudges over burgers and friendly games of ping pong.

On the following day Delta Phi presented its chapter report highlighting all their recent social and philanthropic activities. In addition to standard province business, the meeting introduced everyone to the new province officers and gave many of the brothers their first look into how Kappa Psi works beyond the chapter level. By late afternoon the meeting drew to a close and the brothers gathered for group photos and later joined in a 32-man poker tournament. There, the Delta Phi brothers made a strong showing advancing two of their own to the final table before being knocked out.

During the evening, the brothers met at Dave & Buster's for an evening banquet and awards ceremony. The province officers recognized Delta Phi with a community service award for its efforts in the North County Community Cares school clean-up. Individual Delta Phi brothers were also recognized with Brother Sanaz Farhadian receiving the first province IX scholarship and Brother Robert Mancini receiving a recognition pin for his work on province activities. With official business completed, the brothers set about to enjoying the rest of their time with each other playing games and socializing at Dave & Buster's before returning home with inspiring stories of brotherhood.

3rd Year Students Provide Cardiovascular Health Risk Screening at St. Vincent de Paul Village, San Diego

By William Wong, P-3

Student pharmacists from the class of 2009 held a multi-screening event focusing on cardiovascular health risk for patients at St. Vincent de Paul Village in downtown San Diego on July 26th, 2007. St. Vincent de Paul is a non-profit organization that provides multiple services throughout San Diego, including meals, healthcare, and teaching occupational skills to people with need. The screening event took place at the Paul Mirabile Center which houses the dental and medical clinics at St. Vincent de Paul and has approximately 30,000 patient visits a year.

Student pharmacists were trained to use a point-of-care (POC) fingerstick lipid screening device (Cardiochek PA) during a specialized lecture and workshop session held within the Spring Therapeutics course. The workshop included device training as well as patient cases



requiring lipid lab data interpretation and appropriate patient counseling. The screening and training of the second year class was conducted by a small team of 2nd year students (mentored by Dr. Renu Singh) and funded by a grant from the Academic Geriatric Resource Center (AGRC) and support from the SSPPS and Safeway/Vons.

Patients who attended the St. Vincent de Paul screening event initially completed a pre-screening survey to determine their cardiovascular risk factors. Student pharmacists then obtained each patient's blood pressure, height/weight/waist circumference measurement, and calculated a body mass index (BMI). With this information recorded on their patient action plan and health record, patients proceeded to receive a fasting fingerstick lipid panel (HDL, LDL, Triglycerides and Total Cholesterol), or non-fasting panel (Total Cholesterol and

HDL), and a fingerstick blood glucose. Based on each individual's health screening results and other information obtained, student pharmacists provided lifestyle counseling of modifiable cardiovascular risk factors as well as recommendations to see their physician, where appropriate. At the end of the counseling session, patients were provided with their lab values and specific recommendations and were advised to bring this to their next physician visit.

The event was held over a four hour period in the morning, and within that time, over 30 patients were screened, with 14/30 (47%) having a total cholesterol over 200 mg/dl. One patient had a blood pressure categorized as stage II hypertension and was referred immediately to the medical clinic downstairs. Patients were very appreciative of the screening event and the advice provided by the students. In addition to myself, student volunteers included Lina Meng, Jim Connor, Neil Patel and Jennifer Lai. Drs. Renu Singh and Sarah Lorentz were our pharmacist faculty preceptors for the event. Lyla Prince, RN, the nurse overseeing this event at St. Vincent de Paul, commended the students and faculty for a well organized and valuable service to the patients.



Four Days Serving Firestorm

By Stephanie Gershgol, P-4

Monday, October 22, 2007 marked the beginning of a four day medical relief effort at Qualcomm stadium to save lives, redefine teamwork, and discover heroes. Firestorm 2007 required the mobilization of volunteers to provide food, shelter, and medical care to thousands of evacuees from threatened areas inside and surrounding San Diego County. Requests for qualified volunteers were broadcast via news, radio, internet, phone, and word of mouth, and it was because of the overwhelming response from proactive, competent, and efficient healthcare professionals that medical operations at Qualcomm were established and run efficiently during this time of crisis.

I responded to the Qualcomm effort after receiving an email soliciting pharmacy services from the San Diego Pharmacy Emergency Response Team (RxERT). I contacted Dr. James Dunford, M.D. who was coordinating triage operations at the stadium, stated my qualifications as a 4th year student pharmacist at UCSD, and was told to report to Gate A as soon as



possible being they had no pharmacy presence and were in need of assistance. The first day at the stadium was frenzied as professionals representing pharmacy, nursing, family medicine, pediatrics, psychiatry, respiratory therapy, ophthalmology, and emergency medicine gathered together to establish a workflow, identify and prioritize immediate patient needs, and formulate a plan for the critical days to follow. The Qualcomm command center was established in one of the box offices on the Plaza level, simulated skilled nursing facilities were established on the Club level, and pharmacy set up behind the bar in "Room 5," which



became the acute care and triage center at the stadium for those patients with urgent medical needs.

At 1am on Tuesday morning, a team meeting was held in the command center to review what had been accomplished during Day 1, assess the needs for Day 2, and allocate responsibilities to accomplish the grand task of running a satellite hospital and long-term care facility from a football stadium. In the hours following the leaders meeting, I worked with Dr. S. John Johnson, Pharm.D., the Qualcomm pharmacist in charge from Sharp Memorial Hospital to outline our plan as the stadium pharmacy, and then proceeded to get thirty minutes of sleep on a cot behind the bar (i.e. pharmacy counter) with our limited narcotic supply "secured" at the bottom of my sleeping bag.

Tuesday, Day 2 presented with new challenges as the Santa Ana winds flared, the fires spread, and the number of evacuees increased. The day dawned with a mass influx of patients from skilled nursing facilities around the county, most lacking medication histories, medical charts, or medications. While some patients had sound knowledge of their medical conditions and therapy requisites, many more were unable to either comprehend or communicate their needs. In response to this critical information deficit, it was necessary to recruit qualified volunteers to approach each patient independently and elicit a medical history and medication reconciliation from the patient and their caregiver where appropriate.

By the end of Day 2, all 500+ patients had been consulted and medical charts made, information was



being electronically compiled, medications were distributed, and it was evident that the medical relief effort was becoming a well-oiled machine. With the establishment of quality patient care, energy and resources were then allocated to those 7500+ civilian evacuees in need of over-the-counter (OTC) therapies to treat headaches, constipation, diarrhea, etc. These drugs were available in the triage pharmacy in abundance, but a better system was needed to provide these resources to those outside the acute care areas. In response to this need, a satellite "drug store" was set up on the ground level at Gate A and OTC drugs and basic needs items (i.e. hand gel, bandaids, etc) were provided to those who requested them, and the medication was advertised on the radio and stadium intercom.

Day 3 began with the recall of several mandatory evacuation notices for areas in San Diego County and the implementation of new evacuation orders. Day 3 operations therefore included the maintenance of patient care, and continued replenishment of medical and drug supplies, while also identifying those patients who could return home, and of those, which individuals had a home to return to. This became a priority over both Day 3 and Day 4 as we began deconstructing hospital operations at Qualcomm. The need for psychiatric support increased as patients and civilian evacuees learned of the loss of their homes, pets, livestock, and businesses, and treatment of the subjective became an equal priority to that of the objective in triage.

By the end of Day 3, most long-term care patients had either returned to their skilled nursing facilities or homes, or had been transported to other relief sites including the Del Mar Fairgrounds which was our

primary diversion site. Official deconstruction of medical operations at the stadium began the morning of Day 4. All remaining patients were relocated and this was accomplished in cooperation with FEMA (Federal Emergency Management Agency), and the state cache of supplies was packed up and transported with the help of the National Guard and Police Department to Del Mar. All other medical supplies were returned to those who had donated them and the excess donated to the American Red Cross, and the residual pharmaceuticals were donated to other relief satellite care areas including The Rock Church in Point Loma and Poway Community Center, and the San Diego Free Clinics.

Medical operations at Qualcomm were affectionately referred to by healthcare volunteers as "The Real World, Qualcomm" because it was a real-world example that defined "what happens when people stop being polite...and start getting real" as the MTV show's catchphrase states. It is because of remarkable leadership, a commendable cooperative spirit, and incredible anticipation of needs that the Qualcomm medical disaster relief effort was truly a success and one that should be noted. While there is always room for improvement and further debriefings will occur to document what was done and what could have been done better, I can say that I am proud to have been a part of this process and can state without a doubt that we provided quality care to each and every person placed in our care.

Thank you to those of you who offered your time and services. We all have something to be proud of, and I feel privileged to be part of such a generous and proficient community of healthcare professionals. To a job well done.



Meet the Pharmacist Seniors Brown Bag Event

By Jennifer Curello, P-1



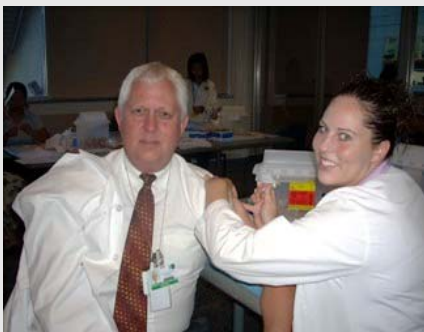
The brothers of Kappa Psi Delta Phi participated in the third annual "Meet the Pharmacist Event" for seniors at the Cameron Family YMCA in Santee on September 20, 2007. At this event, each student pharmacist was paired with local San Diego pharmacists, including Delta Phi brothers Dr. Renu Singh and Dr. Jagwant Rai, to review all the patients' medications. The medication reviews were comprehensive and included prescription drugs, over the counter medication and supplements. Student pharmacists had the opportunity to practice

counseling patients on the proper use of their medication and help ensure that each patient was adhering to the proper dosing regimens. Student pharmacists also worked with their pharmacist to check the patients' medications for drug duplications, harmful drug interactions, and answered medication-related questions.

Most patients were taking multiple medications including many herbal supplements. One 66 year old lady had a chronic, productive cough for many months which was being treated with two OTC medications. The pharmacist



Associate Dean Daniels Shot by Student Pharmacist



Liz Sarles giving Dr. Daniels his flu vaccine

This year some of our fourth year students have been scheduled to do influenza immunization as part of their APPE Ambulatory Care experience. Some of the second year students will participate in weekend flu shot clinics as part of the IPPE program.

noted that the cough may have been due to one of her antihypertensive medications and suggested that she discuss this with her physician. Another 72 year old lady was taking multiple prescription medications, all of which had complex dosing regimens. To ensure that her medication was taken properly, the pharmacist and pharmacy student helped her organize her medications into a weekly medication tray. The tray clearly specified which pills she was to take in the mornings, at lunch, at dinner and at bedtime.

Meet the Pharmacist is an annual event for seniors sponsored by the Alzheimer's Association San Diego/Imperial chapter and San Diego County's Aging and Independent Services. In addition to the medication reviews the event also included blood pressure screenings and other health resource information sessions for participants. Delta Phi Brothers Patrick Chung (P3), Jennifer Curello (P2), Lannie Duong (P3) and Stephanie Webb (P2) were among the students participating in this event.

APhA Student Pharmacists Promoting Preventative Care and Screenings

Vy Tran, P-3

In a joint effort, the residents at the UCSD Medical Center Hillcrest and SSPPS students sponsored by APhA-ASP held a mini health fair on Thursday, October 25, 2007 during National Pharmacy Week to educate the public about preventive care and proper medication use. They set up tables near the Hillcrest



cafeteria, providing blood pressure and heartburn screenings as well as information regarding immunization, diabetes, and foot care. Jamie Mangham, one of the residents, summed up the event: "The

students did a great job interviewing patients about their blood pressure and heartburn. The patients really appreciated our willingness to listen to their health questions and care for their



needs. For over a dozen patients in two hours, we provided consultation and lifestyle preventative tips to help optimize their health. Our goal was to show the public pharmacists care about their health, and by the response of the patients, the screening was a success."

Students: Kevin Mee, Joe Stalder, Vy Tran, and Jerry Wu
Preceptors: Jamie Mangham and Maggie Huynh

2007 Clinical Skills Competition

By Jessica Lee, P-3

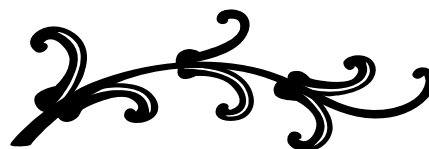
Congratulations to Ashley Rosenquist and Elizabeth Sarles for winning the UCSD Clinical Skills Competition! These fourth year students proudly represented our school at the CSHP Seminar and are preparing to compete once more at the ASHP Midyear Meeting on December 2nd.

A total of five teams competed at the school level held on October 6th. Participants were allotted two hours to develop a pharmacist action plan for their patient described in the case summary, using only the references



provided and their own clinical knowledge. The teams then impressed the panel of judges with their abilities to think on their feet during the two-minute case presentation and eight-minute Q&A session.

This annual event was sponsored by the UCSD chapter of SDSHP and coordinated by Jessica Lee and Tricia Gumabon. Eliciting the largest competitor and observer participation to date, this year's competition should hopefully set the precedent for future competitions.



UCSD SSPPS Student Accomplishments at CSHP Seminar 2007

By Candis M. Morello, Pharm.D., CDE

UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences is definitely making a name for itself in the pharmacy community. In addition to volunteering in the recent fire relief efforts and in several local community outreach projects, our students were involved in some exciting events at the California Society of Health System Pharmacists (CSHP) Annual Seminar Meeting held in Palm Springs on October 19-21. As the Faculty Student Liaison for CSHP and the UCSD SSPPS local student chapter, I have outlined our student's accomplishments and activities below:

UCSD SSPPS placed FIRST in the CSHP Pharmacy Quiz Bowl

All seven California schools participated in this annual event. First through fourth year SSPPS student pharmacists participated in this competition. Throughout the 90 minute competition, UCSD was either tied for first or in first place, and the enthusiasm and cheering was likened to an athletic competition!

This accomplishment, while fun and exciting for the students, is quite significant. We have only had 4th year students with sufficient clinical knowledge to adequately compete in the quiz bowl for the last three years. And in those three years, we've won 1/3 of the time. Way to go SSPPS! Look for the trophy in the Dean's Office.



Emily Lee, P-4 was recognized as the CSHP UCSD Student of the Year

She was recognized at the CSHP Opening Session and received an award for her leadership in the student chapter of SDSHP.

Ashely Rosenquist and Liz Sarles P-4 represented UCSD in the CSHP Clinical Skills Competition

They performed very well and received recognition at the CSHP Opening Session - They will represent UCSD SSPPS at the ASHP Midyear Clinical Meeting Clinical Skills Competition - December 2-6 in Las Vegas, NV.

Denise Kwong presented the UCSD SSPPS CAPSLEAD poster

"Sterile Injectable Compounding Redefined"

Students involved: Azadeh Bamshad, Denise Kwong, Laura Lafranchise, Robert Lo, Kevin Mee, Ed Su, Julie Nguyen, Amie Nguyen, Sarah Pham, and Steven Tan.

Julia Harder and Ivy Beck P-4 were UCSD SSPPS Delegates to the CSHP House of Delegates

They represented the UCSD SSPPS Student Chapter during the two house of delegate sessions.

The UCSD SSPPS CSHP Student Chapter Bylaws

Our own student chapter bylaws were presented to the CSHP Board of Directors. The CSHP Board of Directors accepted and approved and was recognized at the CSHP House of Delegates. Kudos to Emily Lee and Patrick Chung for their aid in reaching this milestone!

UCSD SSPPS Alumni Reception

James Colbert and Kim Ciero hosted an excellent and very well attended Alumni Reception that included alumni, students, residents, preceptors, UCSD Department of Pharmacy leadership, colleagues and others interested in UCSD SSPPS.

CSHP Phun Run

Congratulations to P1 Tim Bassell who tied for first place at the Annual CSHP Phun Run.

CE Presentations

Several faculty and preceptors provided CE lecture presentations. They included Kevin Box, Charlie James, Kelly Lee, and Ken Schell.

Residency Showcase

In addition, a significant number of students attended this meeting taking advantage of the Residency Showcase where they were able to learn about the postgraduate education programs and to meet residency program directors and preceptors.

UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences was well represented at CSHP Seminar 2007!

Class of 2006

Sanam Ansari
 Rx Relief
 San Diego, CA
Ansam Asmar
Brandi Bain
 Staff Pharmacist
 San Diego Hospice and
 Palliative Care
 San Diego, CA
Diane Bao
 Ambulatory Care
 Pharmacist
 Kaiser Permanente
 Harbor City, CA
Amy Chan
 Clinical Pharmacist
 University of Washington
 Medical Center
 Seattle, WA
Rani Dibbini
 Clinical Pharmacy Specialist
 Kaiser Permanente
 San Diego, CA
Joe Ennesser
 Pharmacist in Charge
 Target Pharmacy
 Riverside, CA
Mehrnaz Farrokhi
Dan Ford
April Haines
 Vacation Relief Pharmacist
 Longs Drug
 San Diego, CA
Daniel Hoang
 Oncology Pharmacist
 UCI-MC Chao Cancer
 Center
 Orange, CA
Jason Lam
 Staff Pharmacist
 Sharp Coronado Hospital
 Coronado, CA
Patty Lok
 Staff Pharmacist
 Sharp Chula Vista Medical
 Center
 Chula Vista, CA

Sarah McCoy
 Pharmacist In-Patient
 Pharmacy
 Eisenhower Medical Center
 Rancho Mirage, CA
 Lisa Mueller
 Linda Ngo
Doan Nguyen
 Inpatient Staff Pharmacist
 O'Connor Hospital
 San Jose, CA
 Khahn Nguyen
 Ali Rezaei
 Payman Shilian
Rachel Ferri Stengone
 Pharmacist
 Rady Children's Hospital
 San Diego, CA
Jeanette Sung
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 Sutter Infusion & Pharmacy
 Services
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Shadi Vaccani
 Ambulatory Care Pharmacist
 Kaiser Permanente
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Susan Yee
 Women and Children's
 Pharmacist
 University of Utah Medical
 Center
 Salt Lake City, UT

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Danielle Mahfood
Carabajal
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 Delivery Clinical
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Vi Ngo
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Austin Oen
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 Sharp Memorial Hospital
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Jethmark Olaes
 Clinical Pharmacist
 Scripps Mercy Hospital
 Chula Vista, CA
Autumn Engellant
Perry
 Staff Pharmacist
 CVS
 San Diego, CA
 Andrew Ryan
 Jennifer Shan
Yunnie Song
 Clinical Pharmacist
 Scripps Mercy Hospital
 Chula Vista, CA
Thu Tran
 Pharmacy Resident
 VA Southern Nevada
 Health Care System
 Las Vegas, NV
Max Wang
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 Kaiser Outpatient
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Ni-Chi Wu
 Pharmacy Practice
 Resident
 VA Maryland Health Care
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