Welcome Victor Nizet
By Brookie Best, Pharm.D.

The Skaggs School of Pharmacy and Pharmaceutical Sciences welcomed Dr. Victor Nizet to the faculty in 2006. Dr. Nizet was named Chief of the new Division of Pharmacology & Drug Discovery at UCSD School of Medicine, Department of Pediatrics and the UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences. This new Division will encompass faculty in basic, translational, and clinical research, including the investigators and staff of the UCSD Pediatric Pharmacology Research Unit. The program seeks to establish a pathway for drug development from initial discovery of novel compounds and targets through to early stage clinical trials, with a major focus on development of new anti-infective strategies.

Dr. Nizet received his undergraduate education at Reed College in Portland, Oregon, majoring in Biology. He subsequently received his medical training at Stanford University School of Medicine in Palo Alto, California. After graduation, Dr. Nizet completed a Residency and Chief Residency in Pediatrics at Harvard University’s Children’s Hospital in Boston, Massachusetts and a Fellowship in Pediatric Infectious Diseases at the University of Washington’s Children’s Hospital in Seattle. In 1997, Dr. Nizet joined the faculty of the Department of Pediatrics, Division of Infectious Diseases at the University of California, San Diego. His research is in bacterial pathogenesis and the innate immune system, and his laboratory offers a variety of training opportunities for UCSD graduate and undergraduate students, clinical infectious diseases fellows and Ph.D. postdoctoral fellows (http://medicine.ucsd.edu/Nizetlab).

Dr. Nizet’s work has been recognized by the Sidney Farber Award, the Pediatric Infectious Diseases Society Young Investigator Award, the Edward Mallinckrodt, Jr. Foundation Scholar Award, the American Heart Association Established Investigator Award, and the American Lung Association Career Investigator Award. He has been elected to the Society for Pediatric Research, the American Pediatric Society, Faculty of 1000 - Biology, and the American Society for Clinical Investigation.
Trained to meet the needs of patients, and to become leaders in drug development and delivery in the 21st-century, 23 students graduated from the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California, San Diego (UCSD) at a ceremony held at the Price Center on Saturday, June 3. The 14 women and nine men, comprising the second graduating class of the School that was founded in 2002, received their Doctor of Pharmacy degrees at 10 a.m.

Guests included keynote speaker J. Lyle Bootman, Ph.D., Dean of College of Pharmacy, and professor of pharmacy, medicine and public health at the University of Arizona. Bootman is executive director of the university’s Center for Health Outcomes and PharmacoEconomic Research, one of the first such centers in the world. He is an elected member of the Institute of Medicine of the National Academies, and currently serves on its Board of Health Care Services.

Bootman was joined by UCSD Chancellor Marye Anne Fox; David Brenner, M.D., UCSD Vice Chancellor for Health Sciences and Dean of the School of Medicine; Palmer W. Taylor, Ph.D., dean of the Skaggs School of Pharmacy and Pharmaceutical Sciences in addressing the graduates.

Fourteen of the graduates received their undergraduate degrees from University of California campuses. They are commencing to a wide variety of careers – most staying in California, which has one of the nation’s largest shortages of practicing pharmacists.

Many are going on to clinical residencies to receive the additional specialized training required for hospital pharmacy, health system providers and academic positions.
2007 Graduation Celebration

A Good Time Was Had By All

UCSD Faculty Club
May 24, 2007
You may know what drugs are most efficacious to treat migraine headaches. But do you know which is most cost-effective? Students from the class of 2008 provided answers to this question and many others to faculty, guests and MD News San Diego at the annual “Cookies, Chips & Cost-Effectiveness Chats” held on Friday, May 25th in the Pharmaceutical Sciences Building.

The presentations represented the culmination of the Applied Pharmacoeconomics course in the Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS 209). The course emphasizes application of basic management and decision analysis functions to manage and evaluate the value of drug therapy for patient populations - not just individual patients. It explores methods to produce quality clinical and humanistic outcomes for thousands of patients in a cost-effective manner.

Students worked in teams to conduct an original cost-effectiveness analysis for two drugs of their choice. Each analysis was conducted for a specific payer perspective that was responsible for managing both the drug and medical therapy for patient populations, such as Managed Care, Insurers, Medicare, Medi-Cal or a Pharmacy Benefits Manager (PBM). Some example analyses were…

Which drug would be the most cost-effective choice for:

- Smoking cessation; varenicline or bupropion SR?
- Prevention of post-operative nausea and vomiting; metoclopramide or ondansetron?
- Treatment of erosive esophagitis; esomeprazole or pantoprazole?
- Lowering intraocular pressure for glaucoma; timolol or latanoprost?

Continued on next page
Faculty and Staff were invited to attend and ask questions about the students’ analyses. Questions such as… “What is cost-effectiveness anyway?”, “Why did you choose these two drugs?”, “Why is one drug more cost-effective than the other?” and “How would you use your results for decision making?”.

Comments from students about the project…

“We are often told to consider more than just the cost of a drug. This project taught us to consider just what the other considerations are, and how they affect clinical decision making” Tom Hatch

“This class has shown us the importance of perspective. We learned that different entities or groups have different costs to consider”. Robert Mancini

Overall, the quality of the student posters and their presentations demonstrated they had learned a great deal about the challenges of evaluating the value of drug therapy for populations of patients as opposed to individual patients.

So join us next year to learn more about cost-effectiveness of medications. And who knows… you may be surprised at what is revealed when clinical outcomes are examined alongside their cost consequences from a population perspective.
In April 2007, Operation Immunization associated with the student chapter of APhA at UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences had an immunization information booth at both Thornton and Hillcrest hospitals. Students and supervising faculty took the opportunity to inform employees, visitors and patients at these facilities about the relatively new Human Papillomavirus vaccine (HPV) and Tetanus, Diphtheria, and Pertussis Vaccine (TDAP). The students also utilized the vaccine recommendation quiz from the center for disease control website to give patients information on the vaccines for which they could be eligible.

Lina Meng, a participant and former Operation Immunization chair, said “This event gave students the perfect opportunity to discuss appropriate vaccines for patients at the Thornton Hospital. For my patient, a 70+ year-old patient with COPD and coronary artery disease, I was able to recommend pneumococcal, shingles, and flu vaccines. With the recent development of several important vaccines, we played an important role in teaching the public about new tools in disease prevention. My discussion even ventured out into review discussion of the patient’s general health history and medication usage. This was our chance to push for prevention while tailoring it to his or her particular health status. I hope that this event raised awareness to the breadth of knowledge and service that pharmacists can provide.”

The students involved in this education feel that vaccine education is often overlooked, with much of the public finding out about vaccines through the internet or advertisements. The public is often curious about the information they have heard and do not know where to take their questions or concerns. We hope that through our continued efforts to educate and vaccinate that more vaccine preventable diseases will be eradicated in the future.
FREE CLINIC DINNER HONORS STUDENTS AND FACULTY

By Renu Singh, Pharm.D.

The UCSD Student-Run Free Clinic Project held its 10th anniversary fundraiser on the evening of April 21, 2007. Ellen Beck, M.D., the Medical Director of the clinics welcomed students, faculty, guests and donors to the event. Dr. Beck thanked students, faculty, and volunteers from medicine, pharmacy, dentistry, law, and oriental medicine for their ongoing commitment to the Free Clinics. Guests were able to enjoy a fine dinner with a music and dance stage program while participating in many silent auction offerings benefiting the Free Clinics.

Pharmacy Clinic Managers for 2006-7, Thu Tran, Ni-Chi Wu and Lina Meng were honored for their dedication and yearlong commitment to the Free Clinics. Outgoing Monday night clinic managers, Elisa Boulom and Linda Luu from UCSF School of Pharmacy were unable to attend the event but were recognized for their contributions at a separate event the previous month. The clinic managers have all worked tirelessly throughout the year to ensure the smooth flow of their clinics, and improved patient care through their consistency and organization. We wish our outgoing P4 clinic managers all the best in their future residencies and careers.

Dean Palmer Taylor awarded David Adler, Pharm.D., together with his daughter, Michelle Adler, M.D., with the Social Justice Award for their longstanding commitment and dedication to community, social justice and the patients and students of the UCSD Student-Run Free Clinic Project. Dean Taylor also presented Brookie Best, Pharm.D., with the Role Model in Underserved Medicine Award for her longstanding role as a faculty attending, mentor and previous student founder of the clinic.

Pharmacy faculty attendings were also honored for their dedication and service to the clinics. In attendance were: Tarek El-Ansary, Pharm.D., Meghana Trivedi, Ph.D., Phil Anderson, Pharm.D., Candis Morello, Pharm.D., Brookie Best, Pharm.D., and Renu Singh, Pharm.D. Shawn Briere, Pharm.D. and Mark Smith, Pharm.D., received Community Leader awards for their long term commitment and service as attendings for the clinics.

Pre-pharmacy student volunteers, including Jaime Ky and Julie Oda, who were present, were also recognized and thanked for their ongoing service to the clinics. Jaime and Julie have been accepted to Western University College of Pharmacy and will be leaving us this summer as volunteers. We wish them the best of luck in their future pharmacy careers.
On Saturday, February 10th, fifteen Kappa Psi brothers united to complete a mission: to clean the South Carlsbad State Beach! As San Diegans, Kappa Psi wanted to show their love for the beaches that they tan on and the oceans they surf in, and what better way than to help keep the beaches pristine! Brothers combed the sandy shores and the rocky jetties for trash (or another man’s treasure) armed with trash bags and litter-picker-uppers provided by the Surfrider Foundation in conjunction with the San Diego Coastkeepers. Brothers also separated recyclables and kept a tally of what types of trash were found, i.e. food wrappers, cigarette butts, etc. As a group, Kappa Psi collected about 10 pounds of trash in only two hours! With the success of this beach clean up at South Carlsbad beach, Kappa Psi hopes to make this a repeat event at other San Diego beaches in the near future, and hopefully participate in the state-wide annual California Coastal Clean-Up in September. And last but not least, a big thank you goes out to all the brothers who volunteered: Ivy Beck, Andy Chang, Patrick Chung, Jim Connor, Sanaz Farhadian, Nina Haste, Shawna Kobayashi, Son Nguyen, Paige Pancoast, Isabel Rivas, John Robertson, Leslie Smithson, Angela Tran, Lannie Duong and Sheri VanOsodol! Who has awesome brothers? We do!
Eleven Brothers of Kappa Psi Pharmaceutical Fraternity, Inc. Delta Phi, including two newly activated Brothers, traveled up to San Francisco for the Spring Province 9 meeting. The Brothers of Beta Gamma (UCSF) were nothing but amazing as shown in their careful planning of the weekend and seamless execution. Whether it was meeting and guiding us “Public Transportation Challenged” ones from the airport to the city or the amazing dinner banquet consisting of a “Duet of Filet Mignon and Salmon”.

Issues discussed at the meeting included the distribution of Province 9’s amazing Antibiotic Awareness Flyer, Kappa Psi’s Scholarship, the 53rd Grand Council Convention, and the new Province 9 Philanthropic Project. The new project will have each chapter research and choose a single foundation that they would like to donate to. Once all the chapters have submitted their choice the Province 9 Executive Committee will vote and pick a single organization. All chapters of Province 9 will then fundraise for an entire year and combine their contributions to donate to the chosen foundation. In doing this we hope to unite ourselves and instead of each individual chapter fundraising smaller amounts to various organizations, we as a Province want to get the name of Kappa Psi’s and voice of pharmacy out in the community by donating one large amount to a single organization.

Last but not least, this past year we have witnessed Province 9 Secretary/Treasurer Brother Jim Connor do an amazing job. During this year’s spring Province Officer Elections two Brothers of Delta Phi now sit on Province 9’s Executive Committee. Please congratulate two of our newest Province 9 Officers: Vice-Satrap Robert Mancini and Historian Elizabeth Sarles.

On May 5, 2007, seven student-pharmacists coordinated with Jag Rai, Pharm.D. and his team of pharmacists from UCSD Thornton Hospital to offer individual consultations to twelve geriatric patients. Our goal was to better the patients’ understanding of their complex therapeutic drug regimen. In this highly receptive event, patients came out more confident of their medication usage.

Patients came prepared with a list of their current medications and any drug-related questions. Pharmacists and student-pharmacists spent over half an hour with each patient evaluating and assessing their drug regimen. At the end of the session, each patient...
was provided with a “Medication Action Plan,” which listed new recommendations and/or issues needing follow-up with their doctor.

During this event, each student was paired with a pharmacist to review the patient’s medication profile. Second-year student, Anh-Thu Ha discovered that her patient’s therapeutic regimen consisted of numerous different blood thinners. Yet, the patient had not received a laboratory blood test in over a year, and had no future plans on receiving a blood test. She and Dr. Rai tailored an action plan that stressed the importance of regular blood tests and the necessity for further evaluation with the physician.

In addition to adjusting therapeutic regimens, pharmacists can play a major role in preventative medicine. While consulting with a 66-year-old patient with COPD and a recent case of shingles, student pharmacist Lina Meng helped raised awareness about vaccines that were targeted for the elderly. During this consultation, she and the pharmacist recommended that her patient receive the pneumococcal and shingles vaccine.

Overall, this was a great learning experience for both patients and students. Julie Nguyen, Emi Minejima and Mylinh Nguyen enjoyed the intimate patient interaction as well as applying what they learned in the classroom to the community. Third year student Robert Mancini even volunteered to come back and help for the next event. Going into this event, Jennifer Lai said she “didn’t know what to expect, but learned a lot and also realized how much she did and didn’t know.”

Many patients welcomed the idea of having another event like this in the future and “would gladly recommend this service” to their friends and family. We would like to give special thanks to Dr. Rai for his strong leadership and guidance, and to the volunteer pharmacists for being wonderful teachers.

### Operation Diabetes Screening in Pacific Beach - A Beneficial Experience All Around

**By Rachel Sperling, P1 and Candis M. Morello, Pharm.D.**

Diabetes is reaching epidemic proportions—21% of Americans either have diabetes or are at risk for developing this chronic metabolic disorder, and the numbers are growing. Under the leadership of Rachel Sperling, student pharmacist director, and Candis Morello, Pharm.D.,CDE, faculty advisor, the UCSD SSPPS Chapter of Operation Diabetes is dedicated to identifying people who may be at risk for diabetes and helping them receive medical treatment. When we began this project five years ago, students were disappointed initially when our screening efforts yielded no high risk candidates. Yet we looked at this as a positive issue and educated participants about diabetes prevention. Over the last two years, however, the number of people who were eventually diagnosed with diabetes from our screening efforts has increased, closely reflecting the national elevations.

On Wednesday, May 23, 2007, eleven first-year student pharmacist volunteers including Rachel Sperling, Mo Cui, Judy Hsiao, Cassie Schmid, Jamie Eichhorn, Jayson Napolitano, Eric Cooper, Therasa Kim, Megan Chynoweth, Andrea Kwan, and Connie Tang held a free blood glucose screening at the UCSD Student-Run Free Medical Clinic Project in Pacific Beach. Of
the 23 patients screened, three (13%) were identified as exhibiting diabetes symptoms and having blood glucose concentrations above the 200 mg/dL marker used in casual glucose testing. The three high risk patients were referred to the clinic for further testing and treatment, and the student pharmacists worked with the medical team to determine appropriate laboratory follow-up and care. In addition we screened one person who spoke only Chinese, for whom first-year student pharmacist Mo Cui was able to translate.

In conjunction with the screenings, student pharmacists provided education to help people understand how to prevent and control diabetes. An emphasis was placed on controllable risk factors such as exercise and weight control, and students also explained the importance of checking and maintaining target blood glucose concentrations.

Operation Diabetes provides a mutually beneficial experience for the San Diego community members and our student pharmacists. People seeking services at the Free Medical Clinic in Pacific Beach clinic represent a vulnerable population, since they may have limited access to healthcare, health information, and nutritious food options. These types of screenings are valuable opportunities to identify patients with the highest risk and raise awareness of diabetes among this unique population. Likewise, Operation Diabetes benefits the student volunteers. For some first year students this screening was their very first personal encounter with a patient and a time for them to impart their pharmacy practice knowledge and counseling skills; and to take a moment to recognize just how much they already know after only one year of pharmacy school.

My time as a first year resident is quickly drawing to a close at UCSF, through I can assure everyone that they are getting their money’s worth... I will be on-service and covering each Code Blue until the last minute. It appears the trend that started 5 years ago by having UCSD SSPPS students work harder than all other student pharmacists, continues into practice. It has been a great experience up here at “the other UC” (which despite my best efforts, they still think refers to UCSD). I had the opportunity to teach multiple lectures and run my own therapeutics conference section, train in a very progressive institution in regards to clinical pharmacy and have Dr. Michael Winter as my mentor. I would encourage all the Pharm.D.-to-be’s down at UCSD to consider not only residencies, but venturing out to see pharmacy practiced in a new institution. As for UCSF, I can safely say that they now hold the UCSD SSPPS in very high regard; nearly every faculty member I have talked with has expressed interest in the new program.

To most, I know this will be of no surprise, but I will be starting a second year specialty residency in Critical Care at the University of Pittsburgh Medical Center in July. My wife will begin her 2 year Pediatric Dental residency at the Children’s Hospital of Pittsburgh (which is connected to UPMC, so we get to have lunch dates). Don’t anyone panic, we plan to move back to California as soon as possible. I hope everyone in San Diego is doing well, and congratulations to the class of 2007, I wish you all the best. - Dan Ford, Pharm.D. - 2006 SSPPS Graduate
The month of April saw the return of the 2nd Annual Poison Prevention Program. Student members of SDSHP representing the UCSD Skagg’s School of Pharmacy and Pharmaceutical Sciences visited two local elementary schools to educate 2nd and 3rd grade students about the importance of recognizing potential poisons.

The program was launched last year in conjunction with the San Diego Poison Control Center and aims to highlight the prevalence of unintentional poisonings in a particularly susceptible age group. Each lesson began with open discussion with the students about poisons of which they were aware. The students were enthusiastic to offer answers of snake and spider venom as well as household cleansers. To further add to their understanding of potential poisons, the student pharmacists redirected the discussion and reminded them that seemingly safe items, including medicines, could be harmful when misused. The next part of the program involved showing the students products, one safe one toxic, that could be easily mistaken for one another. While they guessed surprisingly well, it was important to remind them that it is still difficult to distinguish between what is safe or unsafe when the products look so similar. The closing discussion allowed the students to share what they had learned during the presentation. Also, they were reminded about the importance of watching younger siblings and pets, informing parents of poison ingestion, and learning the phone number for the Poison Control Center.

The student pharmacists were pleasantly surprised by the eagerness of the students to participate in the
discussion and to demonstrate their knowledge. Many volunteers took note of several youngsters literally jumping out of their seats to answer questions. Student pharmacist Shawna Kobayashi said, “Not only is the education of the students important but it is their active role that is key to this program.” Feedback from the teachers was equally encouraging. One of the teachers from Midland Elementary School expressed the importance of the program when she noted that her students initially failed to recognize that poisons could be found almost anywhere, not just in the rainforest or in snake venom in the Amazon. Overall, both the students and the teachers at the two schools were overwhelmingly welcoming to the student pharmacists and hoped that they would return the following year. As an added bonus the students have been given the opportunity to demonstrate what they have learned by competing in the National Poison Prevention Poster Contest. The winners will receive zoo passes and a chance to have his or her poster displayed the San Diego Poison Control Center.

Congratulations

Stephanie Gershgol has been awarded the $2500 Ruth G. White P.E.O. Scholarship from the California State Chapter.

Lannie Duong, Stephanie Gershgol and Lina Meng have received the Soroptomist Scholarship award this year.

Carissa Brewer was awarded one of the research awards from the College of Psychiatric and Neurologic Pharmacists (CPNP) for her presentation entitled, "Relationship of Supervision, Side Effects and Complexity to Adherence with Antipsychotic Treatment" at the 10th Annual Meeting of the College of Psychiatric and Neurologic Pharmacists (CPNP).
Announcing New Online Drug Information Resources

The Biomedical Library recently acquired two new online resources: The Medical Letter on Drugs and Therapeutics and Meyler’s Side Effects of Drugs. The library owns print versions of these resources back to 1959 and 1972, respectively. The electronic resources not only enable users to access this information from anywhere, but they also provide the ability to search by topic, greatly enhancing their value.

The Medical Letter on Drugs and Therapeutics offers critical evaluations of new drugs, and comparative reviews of older drugs. The articles emphasize information on efficacy, adverse effects, cost, and possible substitutes. Respected as an authoritative source of drug information, the Medical Letter’s editorial process involves review by an advisory board of medical experts, 10-20 other investigators, first authors of all studies cited in the articles, and the FDA and CDC.

Our electronic access to the Medical Letter includes Treatment Guidelines from the Medical Letter, which reviews drugs used to treat common disorders such as diabetes; the Handbook of Antimicrobial Therapy; and the Adverse Drug Interactions Program. The Medical Letter, available electronically from 1998 to present, and the Treatment Guidelines, available from 2002 to present, can both be browsed by issue tables of contents or searched by topic. The Handbook on Antimicrobial Therapy is available as a pdf document, and the Adverse Drug Interactions program provides an easy interface to quick searches on drug interactions. These resources are accessible through a title search on “Medical Letter” in the library’s online catalog, Roger (http://roger.ucsd.edu). The direct link is http://roger.ucsd.edu:80/record=b2722048.

Meyler’s Side Effects of Drugs: The International Encyclopedia of Adverse Drug Reactions and Interactions recently expanded from one volume to six volumes in the current (2006) edition, and is one of the library’s heavily used print resources. The online version is arranged alphabetically by drug name, similar to the print version. Its search interface allows searches by title, author, abstract, full text, and more. A search on a particular adverse effect retrieves articles on drugs documented to be associated with that effect. Articles are available as printable pdf documents or html documents that include links to the various sections of the drug articles. Accessible through the Roger catalog, the direct link to Meyler’s online is http://roger.ucsd.edu:80/record=b2729783.

If you have any questions about these resources, please contact Sue McGuinness at smcguinness@ucsd.edu or 858-822-4645.
Welcome!
A Warm Welcome to our New and Reappointed Voluntary/Non-Salaried Clinical Faculty
(Appointments & Reappointments 3/13/07 - 6/15/07)

Reappointments
Michael Amantea
Craig Ballard
Joel Briski
Benjamin Dishman
Michele Chow
Thang-Ha Do
Rene Endow-Eyer
Jahansouz Farivar
Wendy Fung
Shannon Jones
Susan Leckband
Edith Lee
William Marcus
William Mastin
Kenneth McAndrews
Colin McGuire
Gordon McGuire
Katherine Medley
Michael Misel
Daniel Montoya
Thanh Nguyen
Helen Park
Stephanie Peck-Wheeler
Renee Pirrello
Yazdi Pithavala
Brian Plowman
Gale Romanowski
Kenneth Schell
Harminder Sikand
Mark Smith
Maria Stubbs
Margaret Stull
Rochelle Sullivan
Stephanie Sweezea
Kimberly Tallian
Michele Tam
Binh Tran
Gloria Tsu

New Appointments
Julie Abraham
Rabia Atayee
Thomas Cookson
Minh Dang
Linda Dean
Michael Falcon
Chuck Graul
Jason Lam
Stacey Nguyen
Chantal Reed

Pharmacy Phunny
Outside a pharmacy in a busy street, a poor man is clutching onto a pole for dear life, not breathing, not moving, not twitching a muscle — just standing there, frozen. The pharmacist, seeing this strange sight in front of his shop, goes up to his assistant and asks, “What’s the matter with that guy? Wasn’t he in here earlier?” The assistant replies, “Yes, he was. He had the most terrible cough, and none of my prescriptions seemed to help.” The pharmacist says, “He seems to be fine now.” The assistant replies, “Sure, he does. I gave him a box of the strongest laxatives on the market. Now he won’t dare cough!”