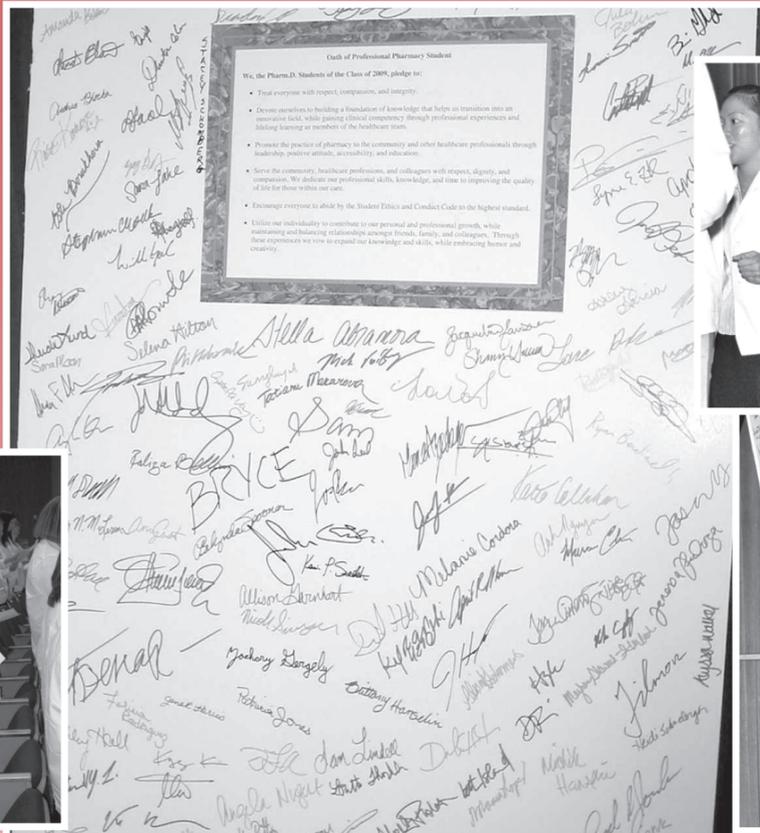


SCHOOL OF PHARMACY *NEWS*



University of Colorado at Denver
and Health Sciences Center



Welcome to the School of Pharmacy Class of 2009!

Celebrating the School of Pharmacy's annual White Coat Ceremony, faculty and administration welcomed the Class of 2009 to the pharmacy profession on Aug. 29.

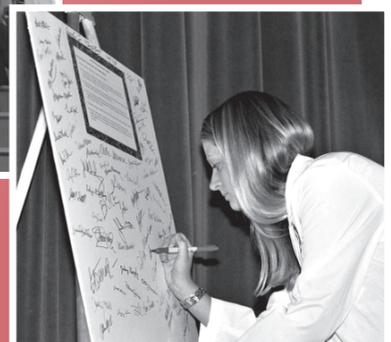
As family, friends and faculty looked on, 131 new PharmD students were "coated" by Cathy Jarvis, PharmD, assistant dean of Student Services, and Ralph Altieri, PharmD, associate dean of the School of Pharmacy. Of the new P1 students, 82 are women and 49 are men.

The school's strengths in racial diversity continue this year: 66 percent are white; 9 percent are African American; 17 percent are Asian (including Vietnamese, Laotian and Cambodian students); 7 percent are Hispanic/Latino; and 1 percent are

from other countries.

After donning their white coats, students recited the oath of professionalism they had written as a class, promising to be compassionate and ethical in the treatment of patients. The ceremony was followed by a cookout for students and well-wishers held on the school's lawn and sponsored by Walgreen's.

Long a tradition at the School of Pharmacy, the White Coat Ceremony symbolizes to students their role as health care practitioners and their entry into the pharmacy profession. Although they are first year pharmacy students, they are henceforth health care professionals dedicated to patient care.



English as a Second Language helps non-native speaking students

Since pharmacists must convey vital information to patients and health care providers, being a proficient communicator is a crucial skill for pharmacy school students. A mispronounced or wrong word when talking about medications, dosages and interactions could lead to a serious health situation.

Students at the School of Pharmacy represent a culturally and linguistically diverse group, coming from all corners of the world to become pharmacists.

To ensure that international and bilingual students can communicate well, the school's English as a Second Language (ESL) summer courses provide students the opportunity to hone their English language skills prior to entering the pharmacy school in the fall. Under the direction of Mary Seeber, the program helps non-native speaking students become more proficient with their written and oral communications skills. Seeber has a master's degree in teaching with a focus on English as a Second Language, and is earning a specialized certification in testing and assessing oral proficiency in English.

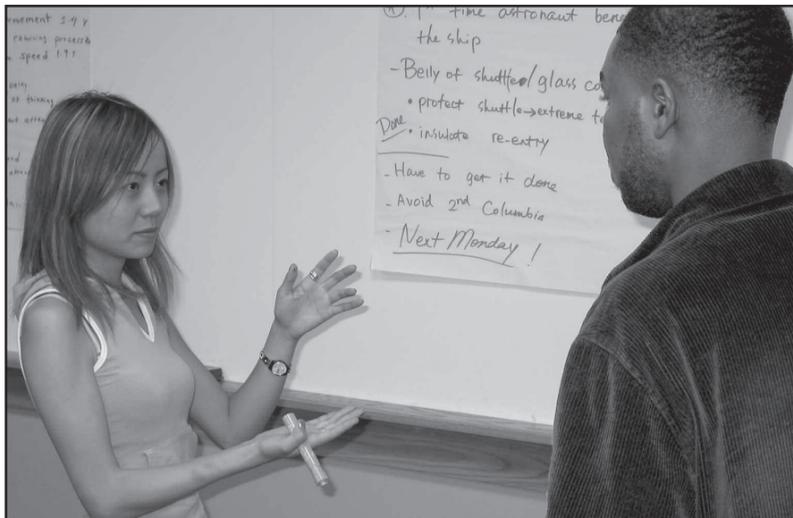
"My whole premise is finding out what it is the students need to learn, what we can do in class to help them learn, and then determine how we will know when they've learned it," said Seeber.

Now in its third year, the Summer ESL program provides students from Ethiopia and Vietnam to Puerto Rico and Bulgaria with the skills and extra attention needed to hone their communication skills. A total of 20 students participated in the course this year.

Students have different needs depending on their native languages and levels of English-speaking skills. Some students are bilingual, speaking with both a native language and English. Others came to the U.S. able to speak some English, but have trouble with pronunciation, intonation and/or rhythm. American colloquial language can also cause problems for some students.

"There are cultural norms that differ in the way we answer a question," she said. "The students need to learn how faculty, patients and health care professionals in American culture expect to have information presented, how we find things comprehensible."

Seeber developed a color code to enable students to see when and



Candy Zeng, China, and Samuel Addae, Ghana, practice their English language skills during the English as a Second Language summer course prior to entering the pharmacy school in the fall.

how their written work is incorrect. She uses different colors to highlight a variety of individual writing errors, including verb tense, transition words, punctuation, spelling, plurals and pronouns ~ what she calls "local grammar errors," as well

as "global content errors," in which sentences don't make sense.

"I point out where the mistakes are and it's up to them to figure out what they are and how to correct them, depending on the colors," she said. "Over a period of two or

three months, they learn how to edit and correct their own mistakes, seeking to write papers that don't come back in rainbow hues!"

After they have passed the summer course and are admitted into the School of Pharmacy, the students can continue working with Seeber through the academic year to continue receiving feedback and support on their pharmacy coursework.

"Academically, these students have been ranked very high," said Seeber. "Just because they have issues with writing or pronunciation doesn't mean they can't communicate with you or that they can't do what they need to do competently. The pharmacy degree is a doctoral level, professional degree and the standards for admission in terms of proficiency in English need to be very high."

A pharmacy student's experience as a Daniels Fund team leader

By **Tasheba West**
First Year Pharmacy Student

Several of the team leaders for the Daniels College Prep and Scholarship Program workshops held in July were pharmacy students, which gave the Daniels Fund students the opportunity to talk with us and to get a better understanding of the field of pharmacy. When I was working with a group of the students doing community service at the Ronald McDonald House, we had a long, intense conversation about what health fields work best with each student's individual personality.

I reviewed in great detail the field of pharmacy and gave them the information I knew about the other health fields, including dentistry, medicine, physical therapy, athletic training and others. During this conversation many of them began to get a better understanding of where they wanted to go professionally. It was awesome to help them with that decision.

As team leaders, the pharmacy students also taught several lectures. A majority of the students were very impressed with P2 student, Olivia Rapacchietta's lecture on AIDS and HIV. We answered many questions and the students

were very appreciative of us talking to them.

A more intense activity for the students included case studies of patients with different conditions who were taking several medications. The students were instructed to change medications and directions if necessary, based on the patient's profile. The students presented their case and conclusion to the class and had to explain the reasoning for medication and dosages ~ very impressive given that they had minimal assistance. As first year pharmacy students, we have not yet had case studies that rigorous. Reading them intimidated me!

Working with these individuals' ambition and energy allowed me to rekindle my passion for working in the health field and the community. I spoke individually with many of the students when I had the opportunity and was able to hear the stories of their lives and experiences. I gained a very high level of respect for each one of them because they were able to reach the level they have, both academically and personally. Each one had something to teach me about their heritage, culture, family or personal experiences.

continued on page 3

SCHOOL OF PHARMACY *NEWS*

Louis Diamond, PhD
Dean, School of Pharmacy

Susan Saunders
Assistant to the Dean
School of Pharmacy

Catherine Bedell
Director of UCHSC Office
of Public Relations

Mitzi Schindler
Director of Publications
Office of Public Relations

Kenna Bruner
Communications Specialist
Office of Public Relations

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Daniels College Prep Program opens doors to higher education

During the summer of 2005, 37 high school juniors attended workshops at the University of Colorado at Denver and Health Sciences Center to help sharpen their skills in preparing for college and applying for financial aid.

The purpose of the workshops, held July 24-30, was to expose students to a variety of health career options, according to Jason R. Thompson, MA, interim director, UCDHSC Office of Diversity. The theme was Making Visible the Invisible: Health Disparities - beyond ER and CSI.

"The workshops emphasized the impact of health disparities and the need for culturally educated health care providers in our communities," said Thompson. "Furthermore, the workshops exposed students to risk behaviors that can cause diseases, focusing on the importance of a healthy lifestyle."

The workshops were part of the Daniels College Prep and Scholarship Program (DCPSP), whose goal is to open access to higher education for promising young people in the foundation's four-state region (Colorado, New Mexico, Utah, and Wyoming). The Daniels Fund recognizes that many high school students have a strong desire to attend college, but may lack the necessary preparation, financial support, and other resources to advance their education.

Connie Valdez, PharmD, assistant professor in the School of Pharmacy's Department of Clinical Pharmacy, and several students from the School of Pharmacy were involved throughout the week. Kaiser Permanente donated the time of eight INROAD students who helped with the week-long program. INROAD is a summer program Kaiser provides for pre-healthcare college students (pre-pharmacy, pre-med, etc.)

Additional funding for the camp was provided by the Colorado Trust. The Colorado Trust grant was written by Chris Turner, PhD, director of Experiential Programs at the School of Pharmacy. The School of Medicine also provided staff time to assist in the program.

Unlike traditional programs that target high academic achievers, the Daniels College Prep and Scholarship Program seeks promising individuals whose academic performance has not necessarily reflected their potential. Students will often have faced financial challenges and other extenuating circumstances that may have prevented them from demonstrating the full range of their abilities during their high school years.

Rather than exclusively reward past success (traditional quantitative measures of merit such as grades, test scores, class rank, etc.), the DCPSP seeks to invest in students who demonstrate:

- ◆ Academic performance or promise;
- ◆ Strength of character, evidence of leadership potential, and emotional maturity and stability
- ◆ Well rounded personality, abilities and broad interests
- ◆ The potential to contribute to one's community later in life
- ◆ Financial need (Financial eligibility for the DCPSP is determined by the Daniels Fund and is based upon several criteria including household income and assets. Students must also be eligible to apply for and receive a Federal Pell Grant).

Daniels Fund team leader

continued from page 2

One person with whom I have developed a close relationship is Erica. Erica is bright, has one of the biggest hearts and is as unselfish as they get. She taught me a lot about her condition and the difficulty of being restricted to a wheelchair. She never once complained and instead is happy and outgoing. She

is a true idol.

I hope these students learned and got at least half of what I learned from this program. It was the best experience I have ever had working with youth and I hope to continue being involved in the program for years to come.



L-R Tiantian (Candy) Zeng, Evelyn Phan, Diane Padilla Gutierrez, Nancy Hoang and Bethanie Tran.

Helping those affected by Hurricane Katrina

The Asian American Pharmacy Students Association (AAPSA) in conjunction with the Office of Student Services, led a successful campaign to raise money for those suffering from the effects of Hurricane Katrina. Members of AAPSA collected \$1,500 which they gave to the American Red Cross for the hurricane relief efforts.

Many thanks to Evelyn Phan, Bethanie Tran, Nancy Hoang and Tian Tian Zeng for their diligent efforts to circulate the donation can around to the classes. Thanks also to Diane Padilla Gutierrez for spearheading the program in the Office of Student Services.

Student organizations and student council representation 2005-06

P4 Class:

PresidentCarrie Dunn
Vice PresidentJennifer Cooper
SecretarTheresa Cao
TreasurerParisa Shahmohammadi

P3 Class and Student Council Officers:

PresidenJustin Bowles
Vice PresidentJeri Sandbach
SecretarSarah Mercer
TreasureKim Crine
Senate RepsHeather Cabiness and Jeffrey Gold

P2 Class:

PresidentDerek Altizer
Vice PresidentBenjamin Brunner
SecretaryJosh Lock
TreasurerJoyce Gallegos
Senate RepsJarrett DeHerrera and Patrina McCauley

P1 Student Council Officers:

President:Dominique Minjarez
Vice President:Ashley Hall
Secretary:Duke Cheney
Treasurer:Lam Nguyen

Kappa Epsilon honored

The Theta Chapter of Kappa Epsilon, a pharmacy student fraternity, received two awards at the biennial convention. The first award is a *Certificate of Excellence* for their new member recruitment program and the second is an *Honorable Mention for Outstanding Collegiate Chapter*. The Theta Chapter members of KE, under the guidance of faculty advisors Cindy O'Bryant and Sheryl Vondracek, were recognized by the Grand Council as a continuing "model of excellence within the community and the profession."

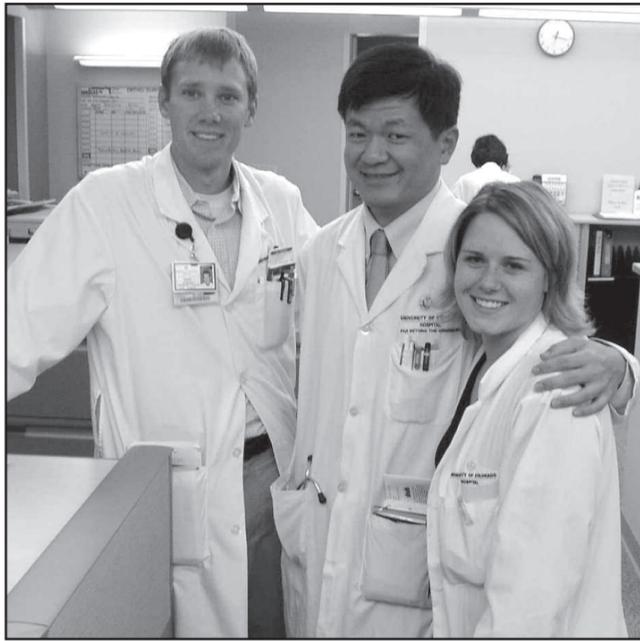
Dr. Jamie Poust to head new Anemia Center

This fall, when Jaimie Poust, PharmD, steps into the lead position in a new pharmacy clinical service at the University of Colorado Cancer Center, she'll have big shoes to fill – her own. The Anemia Center was established as an extension of research she conducted while an oncology resident at the University of Colorado at Denver and Health Sciences Center.

A third-generation pharmacist, Dr. Poust did a study on anemia in cancer patients, from which she developed a pharmacist intervention for patient care. For the study, she met with cancer patients throughout the course of their treatment to ensure they received the appropriate support and medications for anemia.

"Oncology is challenging," said Dr. Poust, now a clinical oncology pharmacist at the University of Colorado Hospital.

After graduating from the School of Pharmacy in 2003, she completed a year-long pharmacy practice residency at Southwest Washington Medical Center in Vancouver, Wash. She then returned to Colorado to take the residency in oncology where her rotations gave her experience with the different types of cancers and treatments.



Right to Left: Jamie Poust, PharmD, and part of the inpatient oncology team. Rob Chen, MD, Oncology Fellow and Eddie Steneham, MD, Internal Medicine Resident.

Although taking two residencies meant being half a continent away from her husband Adam Poust, Class of 2003, for one year and delaying her practice for two years, it nevertheless was time well spent, said Dr. Poust.

She was able to get more experience in the subspecialties of the practice residency, including internal medicine, critical care and infectious disease, as well as hone her skills in presenting papers at conferences, speaking to audiences and publishing.

"I completed both residencies to make sure oncology was something I would be able to do," she said. "In the practice residency you learn how to develop yourself professionally. It gives you a broad perspective in several different areas of pharmacy before you go on into your specialty."

Dr. Poust credits Cindy O'Bryant, PharmD, assistant professor in the school's Department of Clinical Pharmacy, for being a supportive mentor and friend.

"Cindy's been fabulous," said Dr. Poust. "When I was a student, she made sure I had the opportunity to spend time with cancer patients so I could really understand the field I was going into. She encouraged me to follow my dreams and do the two residencies."

Throughout her residencies Dr. Poust has precepted and taught students and this fall will have two oncology residents to precept.

"I love doing that because you get to watch the students and residents grow and change over the course of the experience," she said. "My advice to them is that your residency is what you make of it. The more you put into it, the greater the benefit you get out of it."

Dean's List for Spring 2005

P3 Class of 2006

Malisa Bassett
Roy Brunson
Taite Byerly
Casullo Anna
Valentina Chesnokova
Angela Cook
Jennifer Cooper
Carolyn Dunn
Cheryl Ewing
Daniel Finger
Lauren Fitzpatrick
Laurel Forrest
Asfawosen Haileselassie
Steven Harlass
Wendy Johnson Lytle
Fitsumberhan Kidane
Stephanie Lee Jones
Dawn Lefevre
Daniel Liccione
Michael Long
Chad Lundin
Francis Macalalag
Adrienne Mackzum
Kerri Martinez
Bernadette Niba
Edward O'Donnell
Gregory Palmrose
Oswaldo Ramirez
Jaclyn Ripley

Melissa Rodgers
Aaron Romero
Danielle Salaz
Laura Schiefelbein
Parisa Shahmohammadi
Megan Short
Amy Sion
Davy To
Cortney Turnbow
Laura Van Horn
Melissa Vonstein
Janell Watkins
Jill White
Wiyanto Winatal
Sommer Zarbock

P2 Class of 2007

Jing An
Daniel Bates
Ella Breitenbach
Tin Chou
Diane Desugny
James Farrar
Sean Fitzpatrick
Kevin Flynn
Dawn Hollingshead
Xiaojun Lu
Monica Manatt
Matthew Marshall
Jessica Meier

Sarah Mercer
Jennifer Meyer
Asad Omar
Elaine Thannum
Kate Tran
James Vinton
Shaun White

P1 Class of 2008

Oluseun Abolaji
Victoria Anderson
Savannah Bennett
Stephanie Cho
Matthew Cummin
Krista Davies
Quynhtram Do
Andrew Doniec
Michele Garcia
Amber Hodges
Patrick Hughes
Jennifer Jorgensen
Rory Lambert
Loc Le
Jessica Leonard
Ashley Letourneau
Marlene Lopez
Chad Martell
Jacquelyn Martin
Patrina Mccauley
Bradley Mcgee

Edwin McRae
Lindsay Meadowcraft
Katherine Miller
Jessica Morris
Lisa Musgrave
Adam Nielsen
Hodan Noor
Shauna Nordine
Audra Patten
Tiffani Pham
Michelle Pulido
Melanie Red Owl
Christopher Ryan
Darcie Ryant
Michele Sampayan
Melissa Sanderson
Tomas Sandoval
Katheryn Schneider
Sara Stahle
Lindsay Stansfield
Charli Strebige
Sarah Sumner
Hung Tran
Thu Tran
Tara Vlasimsky
Amy Watson
Tasheba West
Christopher Wilson



Elaine Morrato, Outcomes Research Fellow at the School of Pharmacy, receives the Best Podium Presentation award from Marilyn Dix Smith, president of the International Society for Pharmacoeconomics and Outcomes Research. Morrato participated as a podium presenter at the Western Pharmacoeconomics Conference held at the University of Utah.

Every drug comes with risks

A safe drug does not necessarily mean the drug is harmless, but that its benefits outweigh the risks to people who take it. Elaine Morrato wants to participate in national policymaking for drug safety and evaluation of how drug safety information is disseminated to physicians and patients.

"Once a risk is identified, I'm interested in how you educate physicians, pharmacists and patients so that you're minimizing the risk in clinical practice, and then evaluating how well you're doing," said Morrato, MPH, an Outcomes Research Fellow in the Department of Clinical Pharmacy. "You learn, improve and continue."

Morrato has a joint fellowship with Robert Valuck, PhD, associate professor of Clinical Pharmacy, who specializes in psychiatric pharmacoepidemiology and with Patrick Sullivan, PhD, assistant professor of Clinical Pharmacy.

She is using the medical claims databases of Dr. Valuck for two studies. In one study she is investigating the impact of new drug warnings and "Dear Doctor" letters on utilization of nefazodone (an antidepressant) in community practice and the inclusion of recommended laboratory testing in patient treatment regimens. Her work will add to the scientific literature and FDA policy discussion on the effectiveness of pharmaceutical risk management interventions and appropriate risk minimization evaluations.

In the second study, Dr. Valuck

and Morrato are investigating factors influencing utilization of atypical antipsychotics and predictors of higher costs in Medicaid patients across six states and over five years of observation. This has implications for state Medicaid decision makers, because atypical antipsychotics are a new growing and expensive drug class used to treat patients with schizophrenia who are heavily represented in the Medicaid population.

Pharmacists across the country are playing a larger role in helping people manage their diabetes, and in her work with Dr. Sullivan, Morrato is using his data bases on diabetes to investigate obesity and physical activity. Dr. Sullivan has developed expertise in analyzing the Medical Expenditure Panel Survey, a nationally representative survey of the U.S. population. They recently published a study in *Diabetes Care* examining the relative associations of physical activity and BMI with the prevalence of diabetes and diabetes-related cardiovascular co-morbidities. They found that both physical inactivity and obesity were strongly and independently associated with diabetes and diabetes-related co-morbidities.

Morrato became interested in pharmacoepidemiology when she worked in research and development at Procter and Gamble in Cincinnati, OH. As a global R&D leader, responsible for phase III, IIIb and IV prescription drug

Married with fellowships

Jennifer Kiser, PharmD, and Ty Kiser, PharmD, met and married while in pharmacy school at the University of North Carolina Chapel Hill. Both are pursuing post-doctoral training in research at the University of Colorado School of Pharmacy. Jennifer is conducting clinical research in HIV pharmacology while Ty's fellowship is in critical care and infectious disease with a particular focus on bacteria.

Where did you get your degrees?

Jennifer: I received my PharmD from the University of North Carolina School of Pharmacy in May 2001. I completed a pharmacy practice residency at the University of California San Diego Medical Center. I then worked on the Opportunistic Infections Unit and in the HIV Outpatient clinic as a clinical pharmacist at Johns Hopkins Hospital before beginning my fellowship in Colorado in July 2003.

Ty: I received my PharmD from the University of North Carolina School of Pharmacy in May 2002. I then completed a pharmacy practice residency at the Johns Hopkins Hospital and a critical care residency at the University of Colorado School of Pharmacy.

What kind of research are you doing?

Jennifer: I am beginning my third year of the Antiretroviral Clinical Pharmacology Fellowship here at the school. Courtney Fletcher, PharmD, chair of the Department of Clinical Pharmacy, and Peter Anderson, PharmD, assistant professor, are my mentors. I conduct clinical research, so I enroll patients from local HIV clinics into our studies. The majority of the studies my group conducts involve measuring drug levels of HIV medicines in people with active HIV in order to study drug-drug interactions, toxicities, or novel ways of dosing the medicines.

Ty: One of my main areas of interest is pharmacokinetics and pharmacodynamics of antibacterials. When drugs come on the market, they're usually tested in healthy volunteers. We want to know how the



PharmDs Jennifer and Ty Kiser.

drugs work in a critically-ill patient. Most patients are admitted to the hospital with bacterial infections, such as pneumonia. Infections can get so bad that patients' bodies decompensate and they have bacteria growing in their blood. Bacteria are resilient and come up with ways to defeat the products we use to kill them. Fifty years ago penicillin would kill all the bacteria. Now, most of the bacteria are resistant to it. What we're doing in the lab is to take the bacteria that have grown in patients and look at the mechanisms of resistance to antibiotics. Bacteria can alter binding sites where the drug would bind to the bacteria to kill it. What we're really interested in is that bacteria can actually create pumps. Like sump pumps in the basement of a house, as soon as the drug gets into the bacteria, it immediately pumps it right back out so the drug can't kill it.

Why does that particular area of research interest you?

Jennifer: I believe in bettering the lives of people living with HIV. If I can convince patients to take their HIV medications, I can save lives. By doing research, I can discover why toxicities occur from HIV drugs in certain people, discover (and thus help prevent) drug interactions, and improve the way we dose these medications.

Ty: This is where my training started, taking care of ICU patients. It's intriguing because there are all these unknowns. That's what drives

continued on page 7

continued on page 11

A residency experience

Amy Miller, PharmD, is assistant professor of Clinical Pharmacy at the Philadelphia College of Pharmacy, University of the Sciences in Philadelphia.

Where did you take your residencies?

Pharmacy Practice Residency at University of California- San Francisco; Primary Care Specialty Residency at the University of Colorado Health Sciences Center.

How did your residency experience benefit you professionally?

Residency training helped me prepare for a career in academia. Specifically, it helped me develop my clinical, research, and teaching skills, and it also allows for great networking opportunities.

How do you feel after the experience?

Each year of residency training is a year of hard work, but well worth it. I feel it has prepared me very well for my career.

What is your area of pharmacy interest/expertise?

I specialize in Primary Care with an emphasis in Family Medicine. I am particularly interested in diabetes management.

Why does that particular area interest you?

I enjoy working one-on-one with patients in the outpatient setting, working with Family Medicine physicians and residents, and I particularly like diabetes as this is an area where modern pharmacists can really be very influential.

What are your goals; what do you hope to accomplish?

I just started a new job as assistant professor of Clinical Pharmacy at the University of the Sciences in Philadelphia. My clinic site is in Family Medicine. In the short term, I plan to become a Board Certified Pharmacotherapy Specialist (BCPS) and a Certified Diabetes Educator (CDE). Over the next few years, I hope to become an effective educator for both pharmacy students and medical residents, to continue to pursue scholarly activities conducting research and publishing research, and to be an active participant in professional pharmacy organizations, potentially holding a leadership position.

How did your pharmacy course work prepare you for your career?

School provided the building blocks to help me become a competent clinical pharmacist. Residency was the post-graduate training which allowed me to continue to develop clinical, research, and teaching skills, while also practicing pharmacy.

Who was your residency director at UCHSC and what was it like to work with him?

My residency director at UCHSC was Joseph Saseen, PharmD, FCCP, BCPS. Joe is an amazing clinical pharmacist, educator, and mentor. He is great to work with. I have learned so much from Joe both clinically and professionally. He is one of the best teachers I have ever had and an incredible role model.

Providing patient care beyond the pharmacy

Jennifer Cooper was one of four pharmacy students selected for an experiential training rotation at a new site. Here is her story:

By Jennifer Cooper

Pueblo Community Health Center (PCHC) provides comprehensive primary care to the underserved in the southeastern Colorado area. In addition to clinical services, the pharmacy does its best to provide medications at a more-than-reasonable cost. The pharmacy also employs two full-time people who register patients into medication assistance programs offered by many drug companies.

Everyone at the pharmacy was extremely friendly and helpful and took the time to teach me the pharmacy operation. My experience was broadened beyond the pharmacy by shadowing clinicians at the main clinic and a homeless clinic on a weekly basis.

PCHC also provides care to HIV/AIDS patients in the southeastern Colorado area. A collaborative clinic day is held once a month and there I counseled patients one-on-one about side effects and medication adherence and on the HIV virus in general. This was one of my favorite activities. Most of the patients took a real interest in their health and in understanding the disease.

I also gave a presentation to the Fibromyalgia Support Group on management of health and medication.

Overall, this rotation was an enjoyable experience as I was able to observe and participate in patient care on many different levels.

How I spent my summer rotation

Lauren Tarrant will graduate in November from Sydney University with a bachelor's degree in pharmacy. Pharmacy is a four-year undergraduate degree in Australia.

Lauren grew up in Newcastle, Australia, which is a two-hour drive north of Sydney on the eastern coast. Newcastle is renowned for its beaches and surfing. She also spent part of her childhood in Houston, Texas, and has dual U.S. and Australian citizenship.



Lauren Tarrant at Red Rocks.

Where did you take your summer rotation?

During my July rotation, I spent a week at the University of Colorado Hospital where I spent a day in a diabetes clinic at the Fitzsimons campus. I also went to a Family Health Clinic and spent a few days with a pharmacist who specialized in infectious diseases. During my second week in Colorado, I spent time in an anti-coagulation clinic at St Mary Corwin Hospital in Pueblo.

Did your rotation experience change the way you view your pharmacy career?

I always thought that I would go into retail pharmacy. However, after enjoying the clinical side of pharmacy and seeing how many opportunities there are in hospitals in the U.S., I have decided to apply for graduate pharmacy positions at some of the major Sydney hospitals. Seeing the retail pharmacies in the U.S. also made me realize what Australian pharmacies will be like in the near future ~ all owned by major corpora-

tions with the small businesses disappearing. Presently in Australia, only pharmacists can own retail pharmacies and they are allowed to own or be partners in up to five pharmacies. I can imagine that Walgreens will be coming to Australia as soon as our government will let them.

How was Pueblo different from towns in Australia?

Pueblo was very different from small, rural towns in Australia. I couldn't believe the number of fast food outlets! In Australia you might find a small fish and chip shop, a Chinese restaurant and a McDonald's in rural towns. The people in Pueblo were all very friendly, much more willing to have a chat than most people I

encountered in Denver. Everyone commented on my accent ~ though most people thought that I was English.

What was it like working with your preceptor, Al Lodwick?

Working with Al Lodwick in his anticoagulation clinic was definitely a highlight of my trip. Al is very experienced in warfarin, extremely dedicated to his patients and is respected by all. I learned a lot from Al as I haven't had much experience in warfarin therapy. In Australia, pharmacists do not measure INR (for anti-coagulation testing). I was a bit hesitant initially at having to prick fingers, but I soon became relatively confident and efficient at measuring INR. Al also made going to work very entertaining ~ he was always ready to tell a joke.

Shari Bohn, RPh, 2005 Roche Preceptor of the Year

Shari Bohn, RPh, was named 2005 Roche Preceptor of the Year by CU School of Pharmacy students.

Bohn is a pharmacist at Walgreen's Patient Care Center in Aurora and has been precepting for several years at different locations.

"It was such an honor to be recognized by my students," said Bohn, who received her BS degree from the School of Pharmacy in 1994. "I have learned so much from them and I hope I've bestowed some knowledge upon them as well."

The key to her successful precepting, according to Bohn, is a desire to enhance her students' education and proficiency. Bohn finds it rewarding to watch her students excel and become confident, and to then go on to establish successful pharmacy careers.

"I try to teach them certain skills so they're prepared to do their job when they graduate," she said. "I try to give them the inspiration to make their careers whatever they want. I really try to inspire them to reach out to their patients



Shari Bohn, RPh, 2005 Roche Preceptor of the Year.

and make their job a hands-on role."

A true health advocate, Bohn never tires of sharing her knowledge with her students and her patients.

Walgreen's Patient Care Center has a product suite for disease state management, which provides her students many opportunities to interact with patients. The various levels of patient education at the center range from handing out brochures and counseling patients by telephone for Walgreen's national programs such as smoking cessation, to disease state management programs that involve face-to-face counseling for diseases such as diabetes, high cholesterol or osteoporosis.

"It's rewarding to help patients manage their disease states and help screen them for potential disease states," she said. "I really enjoy watching students as they develop in their career. And I learn a great deal from them as well."

ASCP Fellows

Robert Page, PharmD, and Sunny Linnebur, PharmD, have fulfilled the requirements for qualification as Fellows of the American Society of Consultant Pharmacists (ASCP). Dr. Page is an associate professor and Dr. Linnebur is an assistant professor in the School of Pharmacy's Clinical Pharmacy Department.

ASCP Fellowship is an honor bestowed upon pharmacists who meet the highest standards in Senior Care Pharmacy and have demonstrated an extraordinary level of service and dedication in professional pharmacy practice activities.

Preceptors participate in Diabetes Clinical Care Workshop

Dr. Sam Ellis, PharmD, BCPS, CDE, ran a workshop for pharmacist preceptors who are setting up diabetes clinical care centers in their pharmacies. These centers will be aimed at improving health outcomes for patients with diabetes and other problems including high blood pressure and cholesterol. Funded by a grant from the Colorado Trust, Dr. Ellis and his colleagues, Drs. Hansen, Saseen and Valdez, are working with pharmacists who wish to expand their scope of practice and provide innovative practice sites to train CU pharmacy students. Roy Cardwell, a resident, helped with the training. Greg Barton and Ron Legge, from the Rocky Mountain Pharmacy of Estes Park; Norma McCarthy, from the Community Health Center of Pueblo; and Leticia Silva, from the Stout Street Clinic of Denver participated in the workshop.

Distinguished speaker

Dr. Dennis K. Helling, executive director of pharmacy operations and therapeutics for Kaiser Permanente, was the distinguished speaker at the Mercer School of Pharmacy commencement ceremonies in May 2005. He holds appointments to the Dean's Development Council and as an adjunct professor for the CU School of Pharmacy. Dr. Helling also was presented with an honorary doctor of science degree by Mercer. This was awarded for his advocacy of pharmacists, his commitment to quality health care through the profession of pharmacy and his leadership in modern pharmacy education.

Promotions

We are pleased to announce the following promotions, effective July 1:

Department of Clinical Pharmacy

- Robert Page, PharmD, to associate professor
- Sheryl Vondracek, PharmD, to associate professor

Department of Pharmaceutical Sciences

- Thomas Anchordoquy, PhD, to associate professor with tenure
- Manisha Patel, PhD, to associate professor with tenure

Drug risks

continued from page 5

research programs, she coordinated the business and regulatory needs with clinical realities to establish a clinical development program that supported registration and marketing claims for several drugs. Phase III studies gather information about safety and effectiveness, studying different populations and different dosages and using the drug in combination with other drugs. Phase IV studies explore new uses or new populations, long-term effects, and how participants respond to different dosages.

After 15 years at Procter & Gamble, she went back to school to get a master's degree in public health from Johns Hopkins University. Her fellowship overlaps with finishing her dissertation to complete a doctorate in public health from Johns Hopkins. She'll receive her DrPH in epidemiology in May 2006 and hopes to turn her fellowship into a faculty position at the School of Pharmacy. As part of her fellowship, Morrato has presented posters at the American Diabetes Association, the International Conference of the Society for Pharmacoeconomics and Outcomes Research and the International Conference on Pharmacoepidemiology and Therapeutic Risk Management. She won an award for the best podium presentation at the Western Pharmacoeconomics Conference held this past spring.

"What's been exciting about my fellowship is the flexibility and independence I've been given to pursue my research ideas and the many opportunities to utilize the data that exists here," she said. "I look forward to a career in pharmaceutical outcomes research and the ability to influence future FDA drug policy."

Alumni Briefs

An evening in the mountains

Dean Louis Diamond (center) and School of Pharmacy alumni Ron Kayne, class of '61, former member of the school's Development Council, and Arnold Hayutin, class of '59, current member of the council, enjoyed an evening of camaraderie at Dr. Kayne's mountain home in Estes Park, Colo.



Baby News:



Brian and Elaine (Bellanger) Ripplinger, both Class of 2005 graduates, are the proud parents of twins.



Michelle Cortez, Class of 2005, sent us a photo of her new son, Steven.

Sandra Leal elected president of national board

Sandra Leal, PharmD, CDE, a 1999 graduate of the CU School of Pharmacy, was elected president of the Association of Clinicians for the Underserved at the ACU board meeting held Aug. 7 in Nashville, Tenn. The honor came during National Health Center Week, which recognizes the contributions of community, migrant, homeless and public housing health centers.

The ACU is a nonprofit, multi-disciplinary organization of clinicians, advocates and health care organizations united to improve the health of America's underserved populations. Its mission includes enhancing the development and support of the health care clinicians who serve these populations.

Dr. Leal is a clinical pharmacist at the El Rio Community Health Center in Tucson, Ariz., and was the first pharmacist in Arizona to become licensed to prescribe medication for patients with hypertension, diabetes and high cholesterol. She is certified by the National Certification Board for Diabetes Educators as a diabetes educator and teaches pharmacy practice and science at the University of Arizona.

Dr. Leal completed her undergraduate pre-pharmacy studies at the University of Arizona. She then came to the CU School of Pharmacy and completed both the bachelor and doctoral degree programs.

As a recipient of a 2004 U.S. Department of Health and Human Services Policy Fellowship, Dr. Leal took her experience with patients and applied it to policy work to impact people outside her circle of patients.

August 2005 Graduates:

The Non-Traditional PharmD program granted degrees to Keith Foster, Robert Ringer, Julie Rudd and Joy Marie Schreiber.

Errata:

Herman H.F. Wat, '53, was omitted from the *Donor Honor Roll* for 2004. We apologize for not capturing and listing his year-end gift.

In Memoriam:

We recently received notice of two deaths among our graduates: Norman L. McCullough, '54 and John A. Gillen, '63.

Classmate News:

◆ **Grace Chatfield**, 1935, celebrated her 91st birthday in May. Macular degeneration has robbed her of reading, but she reports through her daughter-in-law that she has many fond memories of CU. Grace is living in Cranberry Township, PA.

◆ **Ruth Munro Wendt**, 1941, reports from Long Island, NY that life has been good for her and she would like to hear from her classmates. Ruth worked for the University of Colorado Hospital after graduation until war was declared and she went to Detroit as a chemist for the General Motors war effort. Following the war she married an "easterner" and settled in New York. Get in touch with her at Peconic Landing, 1500 Brecknock Rd, Apt. 329, Greenport, NY 11944.

◆ **Anita Nebel**, 1980, has a new address in Boulder, Colorado.

◆ **Xuanphung Ha**, 1997, married **Huy Doan**, a chiropractor, in July 2005. She has been working at the VA in Loma Linda since March 2001 and bought a home in Redlands, California in 2004.

◆ **Jennifer J. Pennington**, 2002, has a new address in Centennial, Colorado.

◆ **Sean Daley**, 2003, has started a clinical position at Oregon Health Sciences University, in Portland, Oregon. He can be reached at:

Sean Daley, PharmD, Clinical Pharmacist
Oregon Health and Science University
3181 SW Sam Jackson Park Road, Mail Code CR 9-4
Portland, OR 97239
(W) 503-494-8007 Email: daleys@ohsu.edu

◆ **Kristen Knoche**, 2003, has a new address in San Francisco, California.

◆ **Adam and Jamie Poust**, 2003, recently moved to Parker, Colorado.

◆ **Michele K. Warner**, 2003, has a new address in Fort Collins, Colorado.

◆ **Kathleen Larancuent**, 2005, is now Kathleen Harris, married on June 24, 2005. She is living in Cary, North Carolina and began a residency in July. It's a one-year collaborative specialty residency in Drug Information with Duke University and GlaxoSmithKline, in Research Triangle Park, NC. Kathleen can be reached at klarancuent@gmail.com

Ways to help our students in these challenging times

Share the pride! Your School of Pharmacy - especially our students - needs and welcomes your funding support. There are many ways to help the future of pharmacy education in these times of diminished state funding and rising tuition, while benefiting you and your family:

- ◆ Make an increased gift to the Annual Fund;
- ◆ Give appreciated stocks or bonds, which can save you money in capital gains and other taxes;
- ◆ Include the school in your will, providing a meaningful legacy while reducing inheritance taxes;
- ◆ Charitable Gift Annuities and Charitable Remainder Trusts produce benefits for you, the donor, in tax savings and income for life; and/or
- ◆ Lead Trusts enable your property or assets to remain in your family, while the income from them supports the school (and the Trust also reduces your taxes).

Giving back to your school and helping today's and tomorrow's students create careers and improve health care can be very satisfying. For more information and assistance at no cost, please feel free to contact Sheldon Steinhauser, director of development, at 303-315-0983.

Class of 1965 celebrates 40th reunion

Nine members of the class of 1965 gathered in Denver on Aug. 5 and 6 for their 40th reunion. While five had been long time residents of Colorado, most had never been to the current School of Pharmacy and never had held a reunion.

Friday's activities began with tours of the current building on the 9th Avenue campus and at the Fitzsimons campus where the school is expected to relocate in

2008-09. Three classmates took the rooftop tour of the Fitzsimons campus from the top of the historic Army hospital and were shown where a School of Pharmacy building could be located. This was followed by a quick look in the Eisenhower Suite where the president recovered from a heart attack during WWII.

Conversations catching up classmates and former roommates occupied the time on the shuttle rides

between the campuses. Following the tours, six classmates and four spouses gathered for a social hour at the Four Points Sheraton Hotel and then had dinner at the Macaroni Grill at Cherry Creek.

On Saturday evening, 17, including spouses, attended the class dinner, also at the Four Points. Lots of memories and stories were shared, including how everyone got into the pharmacy profession to start with and what has happened since graduation. Classmates enjoyed lots of laughter

and a few moist eyes were seen. Recalling professors, the fondest memories were those of Drs. Drummond, Hammerness and Jones. The evening drew to a close after some group photos captured the classmates and the guests.

Some talk was started regarding a 45th reunion. Las Vegas anyone? Biosketches were collected for a large number of classmates.

If you'd like a copy, please contact Budd Pippin at buddjudi@aol.com or 941-480-1838.



Front row left to right: Dennis Burger, Rita Morrill, Joanne (Walters) Schroeder; middle: Bill Pipkin, Gerald Berlage, Don Alix, Budd Pippin; back: John Panepinto, Dick Wilson.



Front row left to right: Sandy Burger, Dennis Burger, Rita Morrill, Joanne (Walters) Schroeder, Myrle Myers, Mel Myers; middle: Bill Pipkin, Judi Pippin, Budd Pippin, Dave Schroeder, Gina Panepinto, Gerald Berlage, Don Alix, Linda Berlage; back: John Panepinto, Sally Wilson, Dick Wilson.

Pre-game festivities



At a pre-game reception hosted by CU President Hank Brown prior to the CU-CSU football game on Saturday, Sept. 3, Dean Louis Diamond and his wife, Karen, enjoyed the festivities with Tony and Rachel Saiz and CU Regent Peter Steinhauer and his wife Julie. Tony, '97, is Albertson's pharmacy sales manager, Rocky Mountain Division. Long-time pharmacy school supporters Jack and Peggy Holden also attended the pre-game party. (CU won the game 31-28.)



Save the date!

Reception for Alumni and Friends of
The University of Colorado
School of Pharmacy

at the
ASHP Midyear Clinical Meeting
in Las Vegas, Nevada

December 6
6:00 – 8:00 PM

Las Vegas Hilton

Faculty hosts:
Drs. Robert Page and Joseph Saseen

Save the date!

Pharmacy Management Course teaches students how to run a business

Students considering ownership or management positions in their pharmacy career can now learn what it takes to put a prescription in the hands of their patient from a business standpoint in the Topics in Pharmacy Management course at the School of Pharmacy.

This new, elective course gives students knowledge and working skills of how to own and operate a pharmacy. The course was developed by Bob Light, BS '78, a Walgreen's pharmacist and former independent pharmacy owner, and David Hill, EdD, FCSHP, associate dean of Administration and Clinical Affairs for the School of Pharmacy.

While a pharmacy student may know the mechanism of action of a medication, they may not know how to get it sold and make a living at it, according to Light, who draws on 24 years worth of experiences as a business owner to share with his students.

"The school is addressing one phase of pharmacy that is profoundly important and that's how to run your business, whether it's your own or it's one you're managing," said Light. "Students learn all the things that can make you or break you when you're in business for yourself. We give them strategies for how to get into the business, run a successful business and then how to get out of the business whether by retiring, selling or turning it over to someone else."

The new Topics in Pharmacy Management course was introduced during the winter 2004-05 semester with 21 third year students enrolled. It will be offered again in 2005-06.

When they couldn't find a suitable textbook for the course, Light and Dr. Hill wrote their own course manual - 200 pages of business information. Topics include accounting, entrepreneurship, inventory control, how to buy a pharmacy, marketing and promotion, formulary economics, employee benefits, and exit strategies. Students learn how to read a profit and loss statement and how to make a business plan. They also discuss and evaluate current events that impact a pharmacy business, such as the new Medicare Plan D, changes in insurance and issues surrounding drugs and formularies.

"I tell them about the good times and hard times as a business owner," said Light. "Even if you don't have your own store - let's say you're a consultant - you still need to know how to make a living."

"The skills we teach concerning personnel management, financial management and marketing are transferable to many areas of modern pharmacy practice" added Light.

Pharmacists in demand

There has been an unprecedented demand for pharmacists and pharmaceutical care services, which is not being met by available supply.

An increase in prescriptions and 77 million aging baby boomers have led to a nationwide shortage of pharmacists.

Data from the National Association of Chain Drug Stores shows that through 2010, the supply of community pharmacists is expected to increase 7.8 percent, but the number of prescriptions dispensed is estimated to rise 27 percent. A potential shortfall of 157,000 pharmacists is predicted by 2020, according to the findings of a conference sponsored by the Pharmacy Manpower Project, Inc.

Along with the growing number of prescriptions waiting to be filled and the fact that the number of trained pharmacists isn't keeping pace at the same rate, more people are taking complex drug regimens requiring counseling. Elderly patients may be taking as many as 15 medications a day.

Jobs are open nationwide and some employers are trying to entice pharmacists with signing bonuses, paid relocation expenses and increased salaries. Although the shortage has peaked, pharmacy jobs are expected to be plentiful for years.

Safeway donates \$10,000



In early August, Alanna Isobe, left, Class of 1997 and regional pharmacy manager for Safeway, and Cari Schwartz, corporate Safeway pharmacist recruiter presented Sheldon Steinhauser, director of development for the School of Pharmacy with a \$10,000 check for the annual support and enhancement of the educational programs at the school. Accompanying Schwartz and Isobe, were Eric Rewerts and Valentina Chesnokova, P4 students on rotation at Safeway. Shadowing the Safeway executives demonstrated, for the students, a facet of pharmacy practice at the corporate level and the continuing generosity Safeway shows to pharmacy education.

School hosts State Board of Pharmacy

The September meeting of the Colorado State Board of Pharmacy was held in the School of Pharmacy's Skaff Common Room on September 22. Once again, the board members provided this opportunity for students to observe the business of the regulatory board for their profession and to watch public interactions with the board. More than 30 students were able to sit in on discussions between their classes. Students also are invited to join Assistant Dean Cathy Jarvis in attending future meetings at the board's regular Denver offices.

Save the date!

Advances in Pharmacy Practice: 2006
presented by
The University of Colorado School of Pharmacy

Saturday, February 25, 2006
8 a.m. to 3:30 p.m.
School of Pharmacy
Corner of East 8th Ave. and Colorado Blvd.
Denver, Colorado

Join your colleagues to hear updates about key areas of pharmacy practice presented by clinical practice experts. This conference will provide 6 contact hours of ACPE-approved continuing pharmacy education of interest to pharmacists across a range of practices. Anticipated topics include, but will not be limited to: new agents in diabetes, updates in HIV/AIDS, implications for practice of the collaborative drug therapy management rules in Colorado, as well as the Medicare Part D medication therapy management services.

For registration information, please call the Office of Postgraduate Professional Education at 303-315-1916.

Epilepsy treatment update: annual meeting



From left, Paul O'Donnell, Valentina Chesnokova, Barbara Phillips, Paul Levisohn, Sheri Friedman, Michael McLean, Mark Spitz, Jaci Bainbridge, Kathleen McCartney.

On September 17, at the Denver Country Club, the University of Colorado's School of Pharmacy and the School of Medicine's Office of Continuing Medical Education held the first "Epilepsy Treatment Update: Annual Meeting" for health care practitioners in the metro area. The Epilepsy Foundation of Colorado's executive director, Jim Krejci, and other members were present to greet and register attendees. Kathleen Welker, board president, represented the EFC's Board of Directors. The program was supported by an educational grant from Ortho McNeil, Johnson & Johnson and Novartis Pharmaceuticals, written by Jaci Bainbridge, PharmD and associate professor in the School of

Pharmacy. The program was well attended by physicians, nurse practitioners, pharmacists, electrodiagnostic technicians and other health care practitioners and pharmaceutical industry representatives. Paul O'Donnell and Valentina Chesnokova, P4 students on rotation with Dr. Bainbridge, and Kathleen McCartney, a pharmacy instructor, helped set up the program with Paul providing photography services. The speakers included Barbara Phillips, MD, from CNI; Mike Mclean MD, PhD, from Vanderbilt University; Paul Levisohn, MD, from The Children's Hospital; Sheri Friedman, MD, from Community Neurologists of Fort Collins; and Mark Spitz, MD, from the University of Colorado. The attendees' response to next year's proposed program was overwhelmingly positive!

School-wide seminar schedule

Fall semester 2005

(all seminars begin at 2 p.m. in Denison Auditorium)

DATE:

Friday, Oct. 21
Mont H. Gutke Annual Lecture

SPEAKER:

Jim Hertel, BPharm, MBA
Publisher, *Arizona and Colorado Managed Care Newsletters*
Denver, CO

TOPIC:

Managed Care Pharmacy Practice

DATE:

Friday, Oct. 28

SPEAKER:

Eric Kastango
Principal, *CLINICALIQ*, Florham Park, New Jersey

TOPIC:

USP Chapter 797 Pharmaceutical Compounding Standards: Sterile Preparations—Implications for Pharmacists
(Mr. Kastango's presentation is partially supported by the Colorado Pharmacists Society in conjunction with the CPS annual fall meeting)

DATE:

Friday, Nov. 11
John and Barbara Shell Annual Lecture

SPEAKER:

Dr. John Carpenter, associate professor, Department of Pharmaceutical Sciences, 2005 recipient of the *Shell Prize for Excellence in Research and Graduate Education*

TOPIC:

To be announced

Married with Fellowships continued from page 5

our research. We're taking care of these critically ill patients using the best knowledge we have, but there are still a lot of gray areas. There is always a question that doesn't have an answer. What I'm trying to do is provide insight and guidance for healthcare professionals on the most effective way to use drugs to treat patients. My goal is to somehow affect patient care, from (research) bench to bedside.

What do you like about being at the SOP?

Jennifer: I enjoy the research environment here. I love hearing what research projects faculty members are working on. I also enjoy getting to know pharmacy students and teaching.

Ty: Foremost, the program offered exactly what I was looking for with a combination of teaching, clinical work at the hospital and research. I get to work with big names in our field of pharmacy: Doug Fish, PharmD, associate professor, Rose Jung, PharmD, assistant professor, and Rob MacLaren, PharmD, assistant professor. And it worked out that the exact position Jennifer wanted was open, so being here is a very good match for both of us.

What's it like working together?

Jennifer: It's nice to work at the same place. We can ride together some days (which saves on gas and parking fees, and spares the environment). And it is nice to see him in the halls once in awhile!

Ty: It's nice to be able to bounce ideas off each other, even though we're doing different types of research.

What are your plans after the fellowship?

Jennifer: Upon completion of my fellowship, I plan to pursue a tenure-track position in academia. As a faculty member, I plan to continue my research in antiretroviral clinical pharmacology through independent projects and national/international clinical trials. I also hope to provide an innovative clinical service and lecture on the topic of HIV to pharmacy students and residents.

Ty: I'd like to stay in Denver. We've planted roots here. Two options I'm looking at are taking an assistant professor position here at the school or continuing my work at a hospital in town, like the University of Colorado Hospital, and spending more time pursuing my clinical work with patients.

Tell us your news

Name _____

Degrees/Year _____

Address _____

City, State and Zip Code _____

Phone _____ E-mail _____

Spouse also CU alumni? _____ Year? _____

I'd like my former classmates to know: _____

Please mail to:
School of Pharmacy, 4200 E. Ninth Ave., Mail Stop C-238
Denver, CO 80262 **OR Email to:** SOP.alumni@UCHSC.edu



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SCHOOL OF PHARMACY NEWS



Fall 2005



Award winning pharmacist

Tony Jones, RPh, pharmacist and owner of Cornell Pharmacy, received the Community Pharmacist Award in May from McKesson Corporation. The award was presented during the Health Across America tour sponsored by McKesson. Pictured from left are Peter Groff, Colorado State Senator; John Schultz; Glenn Wallick; Gary Thiel; Carrie Renahan, RPh; Tony Jones, RPh; Mark Kinney, executive director, RxPlus Pharmacies; Connie Miles, RPh; Tom Lotacki; Val Kalins, executive director, Colorado Pharmacy Society; Ron Andus, vice president, sales, McKesson; Jeanne Kaufman, director, Government Affairs, RxPlus Pharmacies; and Kirk Saltzgaber, DSM, McKesson.

Also Inside:

- Pharmacy Management Course teaches how to run a pharmacy business – *Page 10*
- English as a Second Language helps non-native speaking students – *Page 2*
- Shari Bohn, RPh, is 2005 Roche Preceptor of the Year – *Page 7*
- Class of 1965 celebrates 40th reunion – *Page 9*
- And much more...**