

THE PURDUE PHARMACIST

Spring & Summer 2011 | Volume 87, Issue 1



Dedicated in Memory of Professors Patrick Belcastro and Stanley Hem

PURDUE
UNIVERSITY

FROM THE DEAN



Saying goodbye evokes varying emotions, depending on the circumstances and our relationship with the person who is departing. Each May we say goodbye to a class of students who have completed a long academic journey. Our goodbye to them is mostly colored with joy. We have watched them grow as professionals and are excited to see the impact they will have in their chosen field. Their many years of dedicated work have prepared them for this day, and we can delight in its arrival. We also know that many will stay connected to Purdue and anticipate seeing them from time to time over the years. It is a pleasure to share their celebration with you in this issue of *The Purdue Pharmacist*.

There are also times when goodbyes come as an unwelcome necessity. Such is the case with the passing of two beloved colleagues—Dr. Stanley Hem and Dr. Patrick Belcastro. While both were blessed with full and long lives, we regret that we will not have the privilege of their presence in the days ahead. This issue pays tribute to these two pharmacy educators who impacted thousands of students and, through them, continue to impact the lives of untold numbers of fellow citizens.

Thank you is also a phrase expressed with varying emotions. Sometimes it is an expression of gratitude knowing that things could be worse. Our State appropriations for 2011-2013 were greeted with such an expression. Though comprising only 13 percent of our revenue, the funds provided by the State are an important part of our overall budget and make up a large fraction of our personnel budget. While managing the 6 percent reduction will be painful, our colleagues in other states have fared far worse.

Thank you also is said as an expression of gratitude for amazing generosity. In this issue, you'll read about the generosity of our alumni and a Corporate Partner that have allowed us to establish the Migliaccio/Pfizer Graduate Fellowship and the Allen Chao Chair in Industrial and Physical Pharmacy. Our heartfelt expression of thank you continues to flow to the Lilly Endowment for their grant that has enabled us to launch several important initiatives. You'll find an update about some of the path breaking activity that is being supported by this grant.

We are also most grateful to those who have invested in the future of our College through our Planning for the Future of Pharmacy campaign. Our goal is to raise \$10 million in planned gifts. To date, through the generosity of alumni, we have raised \$6.4 million. I hope you will consider joining your fellow alums in making this planned giving campaign a success.

As I complete five years of service as Dean, I also want to say thank you to our alumni who provide such tremendous support to our program in many different ways. It is a privilege to serve a program with such a tradition of excellence and a joy to get to know many who are a part of the Purdue Pharmacy Family.

All Hail Purdue!

CRAIG K. SVENSSON
Dean

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Volume 87, Issue 1 (Spring & Summer 2011)

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in Memory of Professors
Patrick Belcastro
and Stanley Hem

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Belcastro

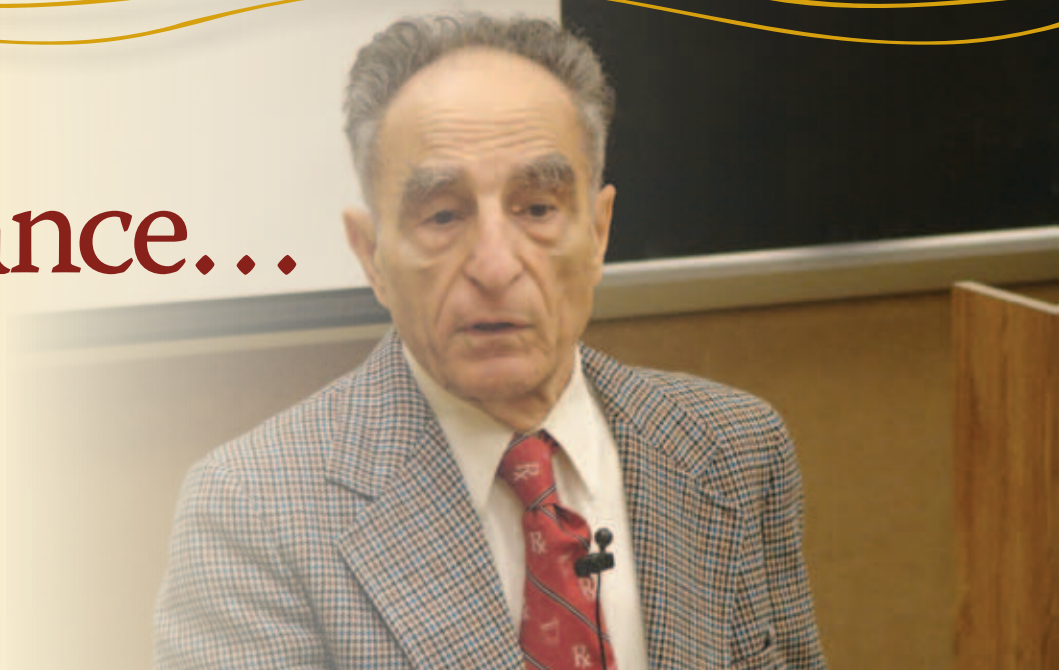
Hem



With Remembrance...

It is with great regret and deep sorrow that the College of Pharmacy shares the news of the passing of our colleagues and friends, Professors Patrick Belcastro and Stanley Hem. “Dr. Belcastro was a long time faculty member for whom many of our alums have very fond memories. He continued to be a wonderful ambassador for our program during his retirement. An award-winning teacher and scholar, Dr. Hem has been a very important member of the Purdue Pharmacy Family for many decades. Both highly respected personally and professionally, they will truly be missed.” reflects Dean Craig Svensson.

“A teacher affects eternity; he can never tell where his influence stops.”
- Henry Adams



Remembering Dr. Patrick F. Belcastro (1920-2011) Professor Emeritus, Industrial and Physical Pharmacy



Dr. Patrick Belcastro, 90, Professor Emeritus of Industrial and Physical Pharmacy, died on May 19, 2011 after a long battle with cancer. Born in Fiore, Italy on June 3, 1920, Dr. Belcastro moved with his family to Pittsburgh, Pennsylvania, when he was seven. He earned a BS in pharmacy from Duquesne University in 1942. During World War II, he served as a pharmacist with the 89th infantry division based in Camp Carson, Colorado, and with the 217th General Hospital in Fort Leonard Wood, Missouri, and in Europe. During the battle of the Bulge in 1944, the 217th was among the first to dispense penicillin to wounded soldiers at the Hôpital de la Pitié in Paris. After the war, he was a community pharmacist for Walgreens in Pittsburgh and taught various courses for the School of Pharmacy at Duquesne.

Dr. Belcastro entered Purdue University as a graduate student in 1949, beginning an association that would last more than sixty years. He earned his master's degree in 1951 and his PhD in 1953, both from Purdue's School of Pharmacy and Pharmacal Sciences. After graduation, he served on the faculty at Ohio State University for two years before returning to Purdue as a faculty member.

His research interests included the effects of ultrasound on drug stability, the sorption of drugs by polymers such as nylon, and, with Dr. H. George DeKay, the effects of x-rays on drug action. His forté was teaching, and he handled more than a dozen courses during his career. He was perhaps best known for his course on the History of Pharmacy. Upon retiring in 1990, he served as Professor Emeritus of Pharmaceutics until 2006, all the while continuing to teach his History of Pharmacy course.

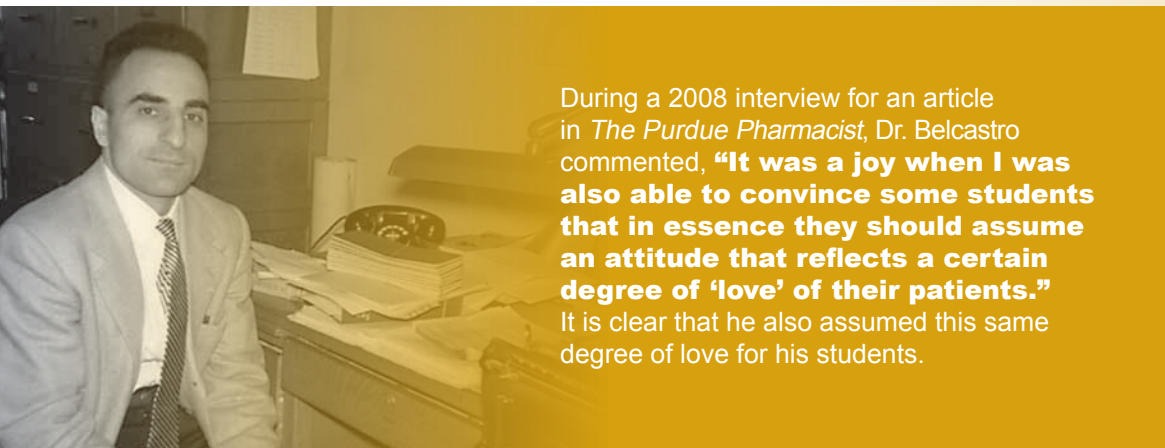
Dr. Belcastro was a contributing editor for *International Pharmaceutical Abstracts* (1966-1993), served on the editorial advisory board for *Pharmaceutical Technology* (1977-2011) and was a member of the National Association of Boards of Pharmacy's Licensure Examination Committee. He is listed in the latest issue of *Who's Who in America*.

In 1963, Dr. Belcastro married Hanna Jensen in Copenhagen, Denmark. She survives, along with their daughter, Helen, and son, Paul and their families.

“Dr. Belcastro was of course one of my favorite professors at Purdue. He had an outstanding memory of his students. One time about 25 years after I graduated, I met him in the Memorial Union hallway and he was able to call me by name and even mentioned my standing in his class. He truly was dedicated to Purdue and Pharmacy as shown by his lecture and talk with us at our 50th reunion in 2008. We all will miss his presence at Purdue.”

- Kenneth Dunbar (BS 1958)

Belcastro circa 1957



During a 2008 interview for an article in *The Purdue Pharmacist*, Dr. Belcastro commented, **“It was a joy when I was also able to convince some students that in essence they should assume an attitude that reflects a certain degree of ‘love’ of their patients.”** It is clear that he also assumed this same degree of love for his students.

“Dr. Belcastro was always a favorite of mine and many of my fellow classmates. His interest in students was genuine, his enthusiasm contagious, his advice honest and direct, and his friendship enduring.

I had the unique opportunity to reverse roles with Dr. Belcastro when I returned to Purdue after completing my hospital pharmacy residency. Having never worked in a contemporary hospital pharmacy, Dr. Belcastro took on the role of the eager, yet humble ‘student’ as Art Solomon (BS 1970, MS 1972) and I helped him create the first parenterals laboratory to teach pharmacy students the basics of sterile technique, IV admixture compounding, and infusion therapy.

Over the past 40 years, we have kept in touch and each time we reconnected it was like yesterday as Dr. Belcastro seemed not to age or change. He always reminded me of the title of the 1968 Marvin Gaye/Tammi Terrell song, ‘Ain’t Nothing Like the Real Thing.’ Dr Belcastro was the Real Thing!”

- Timothy Vanderveen (BS 1970, MS 1972)



(L to R) Richard and Jane (Whitaker) Boggs (BS 1958) visit with Dr. and Mrs. Belcastro in 2008. “Dr. Belcastro—years of friendship!

I always admired his enthusiasm for all endeavors, including counseling students which included three generations of my family,” says Boggs.



Being serenaded by the Purduettes during the Distinguished Alumni Reunion dinner in 2009



During her 50th reunion in 2010, Margery Hunter Jansen (BS 1960) had the opportunity to visit with Dr. Belcastro and had him sign a special panel on her pharmacy corduroy skirt



Dr. Belcastro with Mary Baker at the Pharmacy Homecoming tent in 2008

The Patrick F. Belcastro Scholarship Endowment

To recognize his lifelong commitment to students, the College of Pharmacy has created The Patrick F. Belcastro Scholarship Endowment, which will provide scholarship support to students in the professional program. The College extends its sincere gratitude to Dr. Mary Baker (BS 1979) for providing the lead gift for this endowment.

“Dr. Belcastro was a wonderful person and will be missed. He appealed to all generations, and everyone was always lined up to visit with him at the Homecoming tent,” says Dr. Baker. She shared a story of how Dr. Belcastro pretended to be a patient for cumadin research in the Pharmacy Practice laboratory. “The student was counseling him on his doses, and he treated her just like a real patient might, trying to throw her off. Whenever he came to classes, he always asked the students questions and really challenged them.” Even today, Dr. Baker still has the emails that Dr. Belcastro sent her over the years.



Remembering Dr. Stanley L. Hem (1939-2011) Professor of Physical Pharmacy

Dr. Stanley Hem, Professor of Physical Pharmacy, 71, died unexpectedly on January 23, 2011. An award-winning teacher and scholar, Dr. Hem has been an important member of the Purdue Pharmacy Family for many decades.

“Stan Hem will be remembered for his pioneering contributions to vaccine adjuvants, as a gifted and dedicated teacher, and for his service to Purdue as an administrator and in faculty governance. He’s left a void in our department that will be very difficult to fill,” comments Dr. Elizabeth Topp, Head of the Department of Industrial and Physical Pharmacy.

Dr. Hem received his BS in pharmacy in 1961 with high honors from Rutgers University. In 1965, he received his PhD in physical pharmacy from the University of Connecticut.

His distinguished career at Purdue University began in 1969. He was awarded the Henry Heine Award for Excellence in Teaching several times and was a recipient of the Purdue University Outstanding Undergraduate Teaching Award, earning him a place in Purdue’s Book of Great Teachers. He was a major professor for 40 PhD students and four MS students.

Dr. Hem was a Fellow of the APhA Academy of Pharmaceutical Sciences, a Fellow of the American Association of Pharmaceutical Scientists, and a Distinguished Alumnus of the School of Pharmacy at the University of Connecticut. He served on the University Senate at Purdue as Vice Chair (1997-1998) and Chair (1998-2000) and was a member of the Selection of the President Committee (1981-1982 and 1999-2000). He also served as an advisor for the Student National Pharmaceutical Association (1989-1993), the Student American Pharmaceutical Association

(1971-1975), and most recently the Rho Chi Pharmacy Society (since 2003).

An avid fan of Purdue sports, Dr. Hem would often purchase extra tickets to basketball games to share with students. He and his wife, Janet, would also regularly host pot-luck dinners for international students in hopes that they would feel more at home in their unfamiliar surroundings. In addition to his wife, he is survived by their son and daughter and two granddaughters.

Hem circa 1976



On receiving the Professor Henry Heine Award multiple times, Dr. Hem once commented, **“I’ve taught ‘Basic Pharmaceuticals’ since I joined the faculty in 1969. Teaching is continually creative and the opportunity to work with our exceptionally talented students makes each Fall semester a new and stimulating experience.”** His enthusiasm will truly be missed this fall.

The Stanley H. Hem Pharmacy Scholarship Endowment

Dr. Hem’s dedication to his students and the profession of pharmacy has positively influenced a generation of research scientists as well as thousands of pharmacists in the State of Indiana and the world, which in turn have influenced the care of hundreds of thousands of patients.

Through a donation given to the College by a former graduate student, an endowment fund was established in Dr. Hem’s honor in 2009. At that time, Dr. Hem commented,

“I am very aware of how a good education can change a person’s life. I hope this scholarship will enable students to gain a Purdue degree and be equipped to help others.”



Hem welcomes a student into the PharmD program at the White Coat Ceremony in 2008



Recipient of the 2010 Dr. Aziz Outstanding Teacher of the Year Award, shown with Hamid Abbaspour (BS 1995) and Dean Craig Svensson



Hem poses with Rho Chi students in 2009



Sharing the secret of his wife's chocolate chip cookies with P-1 students during the 2010 Pharmacy Orientation cookout

"I came to Purdue as a graduate student in 1970. I had not been a pharmacy undergraduate, but came on the advice of a chemistry professor who said industrial and physical pharmacy would be a good way to utilize my interests in math and chemistry. Having no pharmacy background, Dr. Banker, the department head at the time, said I should use the first semester to get to meet the faculty, learn about their research so that I could work with one of them as a major professor, and while taking some graduate courses for credit, also audit some undergraduate courses to get background in the basics of pharmacy. Thus, I sat in the IPPH two-semester course taught by Dr. Hem and Dr. Kildsig. From day one, Dr. Hem's passion for the subject and interest in students was evident. By the end of the semester I had decided his areas of research would also be mine."

- Anonymous

"I am deeply saddened to learn of Stan's recent death. He was one of the memorable professors in IPPH when I joined as a new graduate student in 1966. He always had a smile, was very approachable to answer any professional or personal questions, and had the ability to interact with students at all levels to advance their understanding of industrial pharmacy issues. I remember vividly his working relationship with Dr. Joe White and how they both became the world's leading scientists in the understanding and advancement of antacid technology. He will truly be missed by family, colleagues and students alike."

- Jeffrey Rudolph (MS 1969, PhD 1971)

"I fondly remember eating dinner at Dr. and Mrs. Hem's house. It was the first time I really saw Dr. Hem as a kind, caring, full of laughter person... not just a professor lecturing."

- Katie Thackery (PharmD 2008)

"Dr. Hem's influence on our graduate students has always gone beyond the classroom and he helped shape the careers of many of us."

- Fang-yu "Bill" Liu (PhD 1992)

Make a Memorial Gift Today

Donations to the **Patrick F. Belcastro Scholarship Endowment** and the **Stanley L. Hem Scholarship Endowment** can be sent to the College of Pharmacy, Office of Advancement, Purdue University, 575 Stadium Mall Drive, West Lafayette, IN 47907-2091. Please make checks payable to "Purdue Foundation" with Belcastro or Hem Scholarship Endowment noted in the memo section. You may direct questions to Nathan Wight, Director of Advancement, at nwight@purdue.edu or (765) 494-0501.



Celebrating Today's *Graduates...* Tomorrow's *Leaders*



Congratulations to Thach Trinh, Nooshin Barkhordari, Nancy Hu, Huong Nguy

Commencement

On Sunday, May 15, 2011, the College of Pharmacy officially welcomed the Class of 2011 into the Pharmacy alumni family. Over six hundred graduates, family, faculty, staff and friends attended the reception held in the tent outside the Pharmacy building. Despite colder weather and light rain, the reception welcomed record numbers for this joyous occasion.

Graduation Banquet

The College of Pharmacy's Class of 2011 celebrated their time here at Purdue during the annual Graduation Banquet held on April 29, 2011. The theme for the night was "Mad Men" and the elements of the famous TV show were added throughout the evening. Emcees Chelsea Leeper, Adam Lienhoop, Monica Randolph, Nick Sciacca, Tom Seto, and Veronica Vernon kept the program running smoothly. Dean Svensson welcomed everyone and challenged the class to thank those who helped them along their journey. Senior Associate Dean Holly Mason, with help from Mr. Joe Dubes, presented the 2011 Graduation Banquet Awards. Congratulations to all the award recipients and best wishes to the Class of 2011.



Emcee Nick Sciacca pays tribute to the late Dr. Stanley Hem and his importance to the Class of 2011 as Chelsea Leeper looks on



H. George DeKay Award Nominees and Recipient Veronica Vernon (center) with Dean Svensson



Fang Ni receives the "Think Outside the Bun" Award (Most Likely to Revolutionize Pharmacy Practice)



Ashley Jacobs receives the "Just Do It" Award (Hardest Worker)



Seniors Esughani Okonny, Afomia Feleke, and Tracy Lee Beltran enjoy the luncheon

Senior Class Gift Challenge

The senior Class Gift Challenge provides an opportunity for the graduation candidates within the College to challenge themselves and each other to give back to the institution that has nurtured and trained them for the past several years.

This year's class participation reached 45%, raising a total of \$1,890. Dr. (BS 1957) and Mrs. Robert L. Anderson graciously donated \$5,000, bringing the total to \$6,890 toward the installation of an interactive kiosk for the lobby of the Pharmacy building. The kiosk, which will showcase class photos, college history, and awards and achievements of the College's alumni, will be dedicated in memory of Dr. Hem during Homecoming this fall. Although unable to attend the luncheon held on April 29, 2011, Dr. and Mrs. Anderson were recognized for their ongoing support of the College.

The College also recognizes SuperValu Incorporated for sponsoring the luncheon. We were pleased to have Mr. Steve Keen (BS 1981), SuperValu Pharmacist Recruiter, address our graduates. Mr. Chad Johnson, Chief Operations Officer for the Purdue Alumni Association, also greeted our graduates and welcomed them to the Purdue alumni family.

Appreciation is extended to the seniors serving on the Class Gift Challenge Committee: Brittany Cantrell, Justina Damiani, Sheri Helms, Martina Holder, Ashley Jacobs, Talia Jones, Adam Lienhoop, Garrett New, Kristin Weidenbenner, and Angela Zolvinski.

Spring 2011 Graduates

BS in Pharmaceutical Sciences

Yitian Chen
Sarah Gantz
Brittany Kieffner
Christopher Kulczar
Allison Lange
Qingnuo Lin
Alex Lloyd
Michael Plebanek
Beth Powell
Jeffrey Rondot
Preksha Sheth
Sunny Ting
Susanne Youngren

PharmD

Hani Abdel-Aziz
Virona Abdel-Shahid
Charisse-Rae Acibo**
Ryan Ades
Mohammed Al Said
Aeshah Al-Azmi
Aljohara Al-Sakran
David Alexander
Mais Alkatrangi
Jordan Ambrose
Nicklas Armellino
Abdulkarim Arqawi
Saimah Arshad
Stacey Bailey
Lance Ballard
Nooshin Barkhordari
Kimberly Beckman
Tracy Lee Beltran
Brittany Binder
Amanda Bishop
Jeremy Blosser
Joshua Bokelman
Anna Bremer
Helen Bush
Brittany Cantrell
Lindsey Carnicella
Jeri Casassa
Nathaniel Chaddock
Bridget Chambers

Lauro Chavez
Jennifer Chen
Ting Chen
Stephanie Cheng*
Krystal Clifton
Kerri Coggins
Zackary Collins
Elena Coppel
Michael Crouch
Justina Damiani
Nisha Desai
Alyse Deutsch
Candace Dewees
James Dodson
Kaycie Durnil
Taundra Edmond
Shereen El Azzazy
Rasha El Enany
Emmanuel Embuscado*
Melissa Jane Enriquez
Afomia Feleke
Andrew Fritschle
Rachel Gaesser
Blair Gingerich
Jennifer Gomez
Christy Gorbach
Melissa Handcock
Brielle Harth
Brian Heckman
Sheri Helms
Amanda Henry
Christopher Hicks
Martina Holder
Taryn Holt
Xiaomeng Hou
Allyson Howard
Nancy Hu
Gloria Huynh
Susan Hyde*
Brian Ivanson
Ashley Jacobs
Matthew Jacobs
Talia Jones
John Kaiser
Teresa Kam
Sanna Kanjee
Elizabeth Kelley

Kyle Kessens
Timothy Kidd
Gilwan Kim
Lauren Konopka
Joseph Krushinski
Stephanie Kuhn
Myolin Kyaw
Kevin Lavery
Chelsea Leeper
Adam Lienhoop
Esther Liu**
Mai Lu
Anuela Lule
Nicholas Madison
Lisa Madsen
Scott Marshall
Abby Martin
Gregory Martin
Stephanie Mazzara
Tyler Mc Camish
Jonathan Mohler
Rashmi Morani**
Lyman Morris
Eric Morrone
Hesham Mourad
Sonia Nevrekar
Garrett New
Huong Nguy
Fangzhen Ni
Natalie Nichols
Angela Nichter
Georgina Nnanna
Esughani Okonny*
Julie Ostrye
Keith Overholt
Anita Panchanathan
Esther Park
Jagruiti Patel
Shaili Patel
Ryan Peperak
Christopher Pohland
Tiffany Pon
Tanja Prljevic
Pavel Prusakov*
Paul Putarek
Aditya Ramakrishna**
Monica Randolph

Brett Read
Nicole Riley
Bethany Romack
Jamie Rotroff
Hanan Salem
Yana Santiago
Kristan Schwalm
Leighanne Schwartz
Nicholas Sciacca
Allison Seagren
Tom Seto
Jamie Shelly
Wade Shepherd
Tina Shieh
Aditi Sindhal
Melissa Stawski
Jalana Stonerock
Monica Strong
Ryan Tammen
Eugenia Tanner
Nick Tarvin
Michelle Thomas
Kelsey Tiemann
Ashley Timms
Thach Trinh
Andrew Trzynka
Aaron Turner
Katie Vanderwiel
Veronica Vernon
Mark Vogel
Agnieszka Walczak
Gwendolyn Wantuch
Joia Warner
Kristin Weidenbenner
Cody Wenthur
Joshua Wheat
Elizabeth Wirtz
Tasha Woodall
Mongkon Wungwattana
Haoshu Yang*
Angela Zolvinski

* PharmD/BSPS
Dual Degree

** PharmD/MSIA
Dual Degree



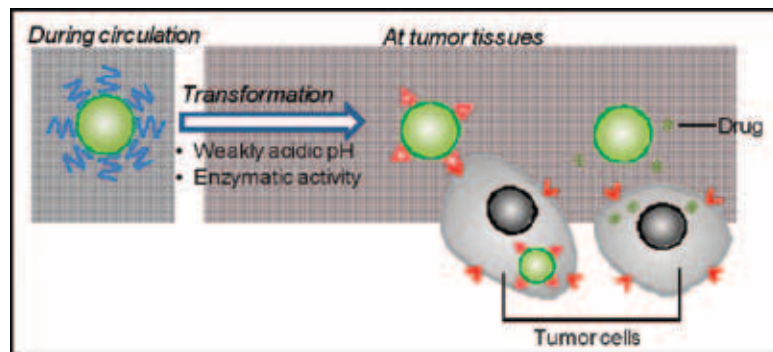
Update on the Lilly Endowment, Inc. Grant

“A Plan for Preeminence for Purdue Pharmacy”

The Lilly Endowment grant to the College of Pharmacy has impacted the learning, discovery and engagement activities of the College. The grant, which was first announced in the Spring 2007 edition of *The Purdue Pharmacist*, supports a series of initiatives focusing on medication safety, cancer therapeutics and pharmaceutical manufacturing. Over the next several issues, we will highlight some of the activities that are being supported by the grant. Among the activities supported are seed grants to initiate new research projects in the three focus areas. The intent of these seed grants is to support exploratory studies that will demonstrate proof of concept and allow faculty members to generate data needed to be successful in obtaining long-term grant funding for the project. One such project is being conducted by Dr. Yoon Yeo to develop biocompatible nanocarriers to deliver anticancer drugs.

In developing safe and effective chemotherapy, it is crucial to create targeted drug delivery systems that can selectively deliver anticancer drugs to tumor cells without harming normal cells. Using a ‘trojan horse’ approach, we are developing nanocarrier systems in which the active drug does not ‘escape’ until the delivery system is inside or adjacent to tumor cells. This can be accomplished by taking advantage of biological differences between normal and cancer cells. These differences include the more acidic pH and abundance of specific enzymes in tumor tissues.

With this goal in mind, we have developed a new biocompatible chitosan derivative (a compound found in crustaceans) that can serve as a shield for the surface of nanocarriers. This shield prevents random interaction with normal tissues as it circulates in the blood. Once the carrier arrives at tumor cells, whose pH is slightly lower than normal cells, the chitosan derivative coating will assume positive charges and allow the carriers to interact with tumor cells and deliver anticancer therapeutics.



Another approach we are employing is to develop a nanocarrier system with a coating that can be shed by the presence of enzymes in tumors. This approach is specifically designed to reduce toxicity of anticancer drugs to normal tissues and organs, which currently limit effective dosing. Importantly, these drug-carrier systems can be used to deliver a variety of anticancer drugs to increase the safety of current chemotherapy.

Through this and related projects, our faculty are working to develop safer, more effective medications. You may read more about Dr. Yeo and her research on page 32.





Steven W. Leslie

Approximately twenty percent of all deans of pharmacy schools in the United States are either Purdue alumni or former faculty members. Back in the summer of 2003, the College of Pharmacy featured an article about alumnus Steven Leslie who was serving as Dean of the College of Pharmacy at The University of Texas at Austin. It is with great pride that we feature him again, only this time as Provost.

A native of Indiana, Dr. Steven Leslie earned his BS in Pharmacy (1969), MS (1972) and PhD (1974) in Pharmacology/Toxicology from Purdue University. His first job was that of assistant professor in the division of pharmacology in the College of Pharmacy at The University of Texas at Austin. In 1980, he took a position as Graduate Program Director and Associate Professor at the School of Medicine at the University of Alabama in Birmingham, but in 1982 he returned to The University of Texas where he has remained. In 1998, Dr. Leslie became Dean of the College of Pharmacy and thoroughly enjoyed serving in this capacity until his appointment as Executive Vice President and Provost of the University in 2007.

“Pharmacy is still home for me,” says Leslie. “I am a pharmacist and I treasure my pharmacy education from Purdue, and it was a privilege for me to have my faculty career at the College of Pharmacy at The University of Texas and to serve as Dean for 8 ½ years. During that time, I worked extensively throughout the university to engage in leadership roles campus-wide. That led to me being the internal candidate for the provost position.”

As Provost, Dr. Leslie oversees all academic programs, including pharmacy. In his portfolio, he is responsible for 18 deans, both undergraduate and graduate admissions, libraries and museums, so his responsibilities as dean have shifted from that of pharmacy education and research to a broad array of academic teaching and research interests of 51,000 students. “It’s a big change, and I love the job,” he says. “It’s very challenging, especially in difficult economic times, but I see the essence in the day-to-day basis that exists in a tier 1 research university like Purdue. It’s a privilege to be coming from a pharmacy background, and I think that adds to this job.”

The transition from playing the role of dean to provost wasn’t easy. “It took me a while to adjust to being Provost,” says Leslie. As a dean, he had a student body, professional pharmacy students, graduate students, an alumni constituency and an external focus which he enjoyed. The work of the provost is very internal. He works with deans and unit leaders on campus to help them accomplish their missions, so he doesn’t have as much engagement with students. He does meet with student organizations, student leaders and the student body, but misses the connectivity as a dean.

During his deanship, he became less competitive with federal grant funding so he could focus on supporting and facilitating other’s research. “I haven’t had my own research program for some time now. I miss that and the research environment, but I also enjoy focusing on my other duties as Provost,” he says.

Dr. Leslie’s professional responsibilities no doubt occupy a great deal of his time, but he does manage to relax.

“When I was a graduate student at Purdue, I would try to slip off occasionally and get on the golf course, so I still find time to get out and enjoy golf. I’m a nature lover and try to get outdoors. I find this very therapeutic given this challenging job.”



Advancing

Purdue Psychiatric Pharmacy

Dr. Carol Ott, Clinical Associate Professor of Pharmacy Practice, is advancing the practice of psychiatric pharmacy for Purdue. When she began at Wishard Health Services in Indianapolis in October 2004, she started in the inpatient psychiatric unit as a clinical pharmacist in psychiatry as her assigned clinical service attached to her faculty position. PharmD students began rotations there in January 2005,

and Dr. Ott averaged 20 students per year at the inpatient unit. She has since moved to the outpatient setting—specifically, the Prevention and Recovery Center for Early Psychosis which she helped start. She also sits on the Midtown Community Mental Health Medical Staff and Medical Advisory Committees.

“This year,” she comments, “my attending psychiatrist in the early psychosis clinic was asked by Midtown to work on the use of medications and overall treatment of our clients with chronic schizophrenia in our thought disorders outpatient clinic. I and Dr.

Breier (Director of Psychotic Disorders Research for the Indiana University Department of Psychiatry), as well as an outpatient clinical psychiatric pharmacist and my current PGY2 resident in psychiatric pharmacy, are the ‘psychopharmacology consult team’. We do overarching medication use evaluations, as well as focused consults for psychiatric treatment teams.” The goal of this consult team is to improve patient outcomes through the use of antipsychotic monotherapy, long-acting injectable antipsychotics, earlier use of clozapine, and improved connection with outpatient substance dependence treatment.



Ott

The Prevention and Recovery Center for Early Psychosis

This outpatient clinic, located within Wishard Hospital, was started in May 2009 and consists of two attending psychiatrists, one nurse, one clinical case manager, and Dr. Ott. “We see patients who are 14–30 years old and within two years of their first psychotic episode. It’s the first and only outpatient clinic of its kind in Indiana, so we get referrals from around the state to do intake evaluations, as well as continuing treatment,” says Ott.

Dr. Ott’s role in the clinic, which currently serves about 70 clients, is medication management, as well as laboratory monitoring, focusing on medical conditions such as metabolic syndrome. She has a collaborative practice agreement with the psychiatrists to do medication management. In the agreement, she is able to initiate medications, discontinue medications, make dose changes, and evaluate client response and adherence. “I also work closely with the nurse to monitor weight, blood pressure, and overall health, including tobacco cessation.”

Mental status exams are administered to evaluate the client’s symptoms for possible referral back to the psychiatrists, and the clients see the psychiatrist at least every three months if they continue to be stable.

Another mission of the Prevention and Recovery Clinic for Early Psychosis is research into new and novel treatments for first episode schizophrenia, focusing on minimizing symptoms of the disease and allowing the patient to maintain a normal life. Dr. Ott is currently involved in research into the use of N-acetylcysteine as an adjunctive treatment to reduce the impact of the disease on the brain structure.

PGY2 Pharmacy Residency in Psychiatry

The PGY2 Pharmacy Residency in Psychiatry at Wishard Health Services and Midtown Community Mental Health is a Purdue-funded residency, with the resident being a Purdue staff member. It began on July 1, 2007 and graduated its fourth resident in June 2011. Eligibility for this one-year residency requires completion of an ASHP-accredited PGY1 Pharmacy Residency and focuses on the clinical pharmacist

role in psychiatric services. In March 2010, the residency received accreditation for six years (with the date of accreditation going back to the November 2008 application date).

“The residency is very well-rounded and focuses on psychiatric services in the safety-net health system setting,” comments Ott. The residency rotations include adult inpatient services, adult psychiatric emergencies and crisis intervention, outpatient assertive community treatment, substance dependence, thought disorders (schizophrenia), mood disorders, children’s outpatient psychiatric services, developmental disabilities (including autism), juvenile detention services, methadone maintenance treatment, geriatric psychiatry, and psychiatric pharmacy and therapeutics. Rotations in the state hospital setting, inpatient and outpatient neurology, and toxicology are also available.

The resident spends most of his or her time within the Wishard Health Services/Midtown Community Mental Health setting, but some rotations are served at other hospitals and with Indiana Medicaid. The resident provides teaching to the staff, including monthly new employee psychopharmacology inservices, presentations to the Indiana University Department of Psychiatry staff and residents, and pharmacy Grand Rounds. The resident is required to complete a residency research project, with a manuscript ready for publication and poster presentation at the Annual Meeting of the College of Psychiatric and Neurologic Pharmacists as a result. The Indianapolis-based Purdue Pharmacy Practice faculty work with the clinical pharmacy specialists at Wishard to provide the resident with a Research Project Advisory Team to aid in developing research, publication and communication skills.

The teaching component is what allows this residency to stand apart from others. “We provide a significant amount of teaching opportunities and training, including a teaching certificate program that the resident can attend, in conjunction with other PGY1 and PGY2 residents around Central Indiana,” say Ott. “Our resident is actively involved in teaching at Purdue on campus in West Lafayette.” In the fall semester, the resident is involved in two panel discussions on the psychiatric PharmD rotation and residencies for the Introduction to Psychiatric Pharmacy elective (CLPH 449) offered to P3 students. In the spring, the resident is a co-coordinator and instructor in the Advanced Practice in Psychiatric Pharmacy elective (CLPH 454). The resident also teaches one large lecture in Pathophysiology and Therapeutics (CLPH 873), focusing on his or her psychiatric or neurological topic of choice.

Psychiatric Residents

- 2008 Elayne Ansara, PharmD, BCPS, BCPP; *Clinical Pharmacy Specialist, Inpatient Psychiatry, Wishard Health Services, Indianapolis, IN.*
- 2009 Kelly Williams, PharmD; *Clinical Pharmacy Specialist, Outpatient Psychiatry, ACT Teams, Wishard Health Services, Indianapolis, IN.*
- 2010 Daina Wells, BCPS; *Clinical Pharmacy Specialist, Psychiatry, Department of Mental Health, Wm Jennings Bryan Dorn VA Medical Center, Columbia, SC.*
- 2011 Gregory Bogart, PharmD; *Psychiatric Clinical Pharmacist, Springfield Hospital Center, Sykesville, MD; Clinical Assistant Professor, University of Maryland School of Pharmacy, Baltimore, MD.*

College of Psychiatric and Neurologic Pharmacists

In the fall of 2010, a new student chapter of the College of Psychiatric and Neurologic Pharmacists (CPNC) was started at Purdue with great success. It is one of four pilot chapters of CPNP in Colleges of Pharmacy in the U.S. Dr. Ott serves as the faculty advisor for this group of students, which currently has 25 members. The focus of CPNP Purdue is to increase awareness of mental illness, reduce the stigma associated with mental illness, and educate the community on the use of medications used in treatment. The Chapter works closely with Mental Health America (MHA) of Tippecanoe. Students applied for and received a grant to provide meals at the Day Shelter, serving several meals at the shelter throughout the year. The Chapter worked with the Compeer Program, a program that provides social interaction with peers for those with severe mental illness. Students led a group activity to decorate medication boxes and discuss the proper use of mental health medications. The student members also worked closely with the organizers of the JCM5k, a memorial run/walk held to increase awareness of mental illness and benefit MHA of Tippecanoe and the Lafayette Crisis Center. Students served as members of the planning committee, put up fliers, and worked on set up of the pasta dinner. In 2011-2012, the chapter plans to continue working with MHA Tippecanoe, as well as NAMI West Central.



Dean's Pharmacy Executive Forum

The Spring 2011 Dean's Pharmacy Executive Forum hosted several outstanding alumni and friends of Purdue Pharmacy. The Forum is designed to introduce students to emerging trends and career opportunities in pharmacy and the pharmaceutical sciences through exposure to leaders in professional and corporate environments. It provides an opportunity for the exchange of ideas and promotes greater understanding of leadership in the profession of pharmacy. The College of Pharmacy is pleased to recognize the following guest lecturers who spoke during the past academic year.



**Randy Boris (BS 1968;
MS Management, 1977)**
Senior Vice President,
FactorHealth Management

"Career Opportunities in Specialty Pharmacy"



Jennifer Eads (BS 1982, PharmD 1983)
Clinical Trial Manager, Clinical Project
Management - Late Phase Development,
Eli Lilly and Company

*"Clinical Research? The Cure
for a Common Career"*



Jim Branham (BS 1977)
Executive Customer Team Manager,
Merck & Co., Inc.

*"The Changing Face of the Pharmaceutical
Industry— A Unique Perspective"*



Alan Slade (PharmD 2002)
Translational Medicine Expert, Novartis
Pharmaceutical Corporation

*"Pharmacists in Industry: Patient
Impact on a Global Scale"*



Henry Bryant (BS 1981, PhD 1986)
Distinguished Research Fellow,
Eli Lilly and Company

*"Future of Drug Discovery: Setting a
Course for Innovation on a Stormy Sea"*



Ron Snow
Manager of Professional and College
Relations, CVS

"Pay It Forward...The Pharmacy Way"



Sue Killion Cammarata (BS 1979)
Vice President, Clinical Research,
Shire HGT

*"Expanding Opportunities
in Orphan Drug Development"*



John Zehner (BS 1991)
President and CEO, NukeMed, Inc.

"A Half-Life Business"



**Dan Degnan (BS 1991,
PharmD 1992)**
Medication Safety Officer,
Community Health Network

"The Right (Brained) Pharmacy Leader"

To read more about the speakers,
please visit [www.pharmacy.purdue.edu/
advancement/alumni/deansforum/](http://www.pharmacy.purdue.edu/advancement/alumni/deansforum/).



Rick Rondinelli (BS 1980) Receives Eaton Entrepreneur of the Year Award



Rick Rondinelli (BS 1980)
Founder, President, CEO and Owner,
In Touch Pharmaceuticals

*“The Future of Long Term
Care Pharmacy”*

Lyman D. Eaton II (BS 1974) and Joyce A. Eaton established the Eaton Entrepreneur of the Year Award for an alumnus/a of the College who has graduated within 20 years who has excelled in entrepreneurial activities during his/her career. The recipient must travel to campus to deliver a lecture relating to entrepreneurial activity to the Dean’s Executive Forum.

The 2011 Eaton Entrepreneur of the Year Award was presented to Rick Rondinelli (BS 1980). Rick received his award after his lecture entitled “The Future of Long Term Care Pharmacy” on February 11. He is the Founder, President, and Owner of In Touch Pharmaceuticals, a long-term care pharmacy. In Touch is a fully automated pharmacy dispensing short cycle and compliance packaging. To date, In Touch is servicing 60 facilities and 7,000 beds in the state of Indiana.



*Rick Rondinelli is presented the Eaton Entrepreneur of the Year
Award by Dean Craig Svensson*

The Allen Chao Chair in Industrial and Physical Pharmacy



The College of Pharmacy is delighted to announce the establishment of the *Allen Chao Chair in Industrial and Physical Pharmacy*. This chair is made possible by merging the *Allen Chao Fund in Industrial Pharmacy*, previously established by Dr. Allen Chao (PhD 1973, Honorary Doctorate 2000), with matching funds provided

through a Lilly Endowment grant. The resulting chair would not have come to fruition without the continued support of Dr. Chao.

“The College has greatly benefited from Dr. Chao’s continued generosity, of which this latest announcement is an example. As a leader in the pharmaceutical industry, Dr. Chao understands the importance to any institution of recruiting and retaining leaders of high caliber. The creation of the *Allen Chao Chair in Industrial and Physical Pharmacy* will be a tremendous help in achieving this goal,” comments Dean Craig Svensson.

The chair holder is expected to provide leadership in discovery, learning, and engagement related to industrial and physical pharmacy. The search is ongoing and the hire will be announced in a later edition of *The Purdue Pharmacist*. “The Department of Industrial and Physical Pharmacy is internationally recognized for its strengths in pharmaceutical manufacturing. The Allen Chao Chair will help us to attract and retain world-class faculty members for this important area. We’re immensely grateful to Dr. Chao for his ongoing support,” says Dr. Elizabeth Topp, Head of the Department of Industrial and Physical Pharmacy.

Dr. Allen Chao is the co-founder of Watson Pharmaceuticals, Inc. After leading the company for nearly 24 years, he stepped down as President and Chief Executive Officer in 2007. He is currently the Chairman and Managing Partner for Newport Healthcare Advisors, LLC, a healthcare investment management and consulting company. He and his wife, Lee-Hwa Chao (BS 1973) reside in California.



Transforming *Learning* in Organic Chemistry

How do I engage students in a classroom filled with more than 200 students? How do I make sure they are actively learning in a lecture-based environment? How can I help students retain the information being taught?

These are questions faculty ask themselves daily, and when coupled with unsatisfactory grades and course withdrawals, they begin to question if there is a better way to reach students in these introductory courses. Dr. G. Marc Loudon, Cwalina Distinguished Professor of Medicinal Chemistry, has been working to provide answers to those questions in his Organic Chemistry I course.

Purdue will launch a new project this fall called Instruction Matters: Purdue Academic Course Transformation, known as IMPACT. The project will target high enrollment introductory courses throughout campus and will utilize small-group work, in-classroom technology, and online education resources as part of the curriculum to help engage students and their varied styles of learning in hopes of improving grades and retention. Purdue searched out some faculty this past spring semester who were already implementing some of these theories before fully introducing them this fall, and among those selected was Dr. Loudon. Here's what he has to say about transforming the art of teaching and learning.

What was your initial opinion about applying these different teaching methods to your introductory course on Organic Chemistry? Did you think it would be effective?

This is not a new program for me. I and some of my colleagues have been doing some of these things since 1993. My effort started by collaborating with Prof. George Bodner in Chemical Education, who recruited two graduate students, Rich Bauer and Kirsten Lowrey, to carry out some assessment on what we were doing. I taught a trial section of about 40 students of MCMP 204 (Organic Chemistry I) alongside of a regular section (taught by another faculty member) and implemented some aspects of cooperative learning. My initial thought was that I was a little nervous.

It actually might not work. I felt that this feeling must be good, because it is akin to what a performer feels before an important performance.

How did you change your teaching approach?

Our initial effort was to introduce cooperative (group) learning into the organic chemistry classroom. At the time, this was pretty unusual, but it has been tried in many academic areas since then. Our idea—which is still pretty unusual—was to adopt the things that worked in a large classroom. Starting in 1995, we began using cooperative learning in large classes, and I have been doing so ever since.

This cooperative learning format has several elements. I organize the class into random groups of 4-5 subject to the constraint that within groups, diverse abilities are represented (as indicated by prior GPA). First, the class is seated in groups, and there is some group problem-solving during class. We ask students to report in class how they are approaching problems rather than use an electronic response system (“clickers”). Second, students are given group questions to solve on their exams (except for the final exam). They can openly discuss these questions at the start of the exam. They then turn in all their scratch work and have to answer the group questions (as well as non-group questions) on their own. Third, students are given 2-3 group extra-credit homework assignments for which all students in a group get the same grade. We then ask students to give, confidentially to the

Dr. Marc Loudon interacts with students in his Organic Chemistry I course (Purdue University photo/Mark Simons)



instructor, a “group grade” to themselves and to other members of their group. Their group assignment grade is modified accordingly. This keeps “goldbrickers” from getting points on these assignments.

We also started using both audio and video course recordings to provide students with the ability to replay classes. We weren’t the first to use course recordings; Mark Sharp [Director, Hook Telecommunications Center] and Dr. Eric Barker started doing audio course recordings with posted PowerPoint slides, but Mark and I were first to use a document camera and audio so that students could follow what I was both writing and saying simultaneously. This system has now spread throughout Purdue with the “Echo 360” system, by which students can download any class from a (free) iTunes site.

Another innovation was to introduce online homework. Several online homework systems had been available for General Chemistry, but were uncommon for Organic Chemistry. Recently, systems have become available that allow students to draw structures and other chemistry-related notation online. At the urging of my co-instructor, Laurie Parker, we tried using a commercial online homework system (Sapling Learning) for organic chemistry.

Finally, we have changed our organic chemistry laboratories from “cookbook”-style labs to “guided-design” labs. In these laboratories, students have to solve explicit laboratory problems. Our director of laboratories, Susan Holladay, and two very dedicated teaching assistants, Animesh Aditya and Jaimeen Majmudar, were instrumental in this activity, which is ongoing.

Were these changes effective? If so, how? What is the response from the students?

We use confidential end-of-class evaluations to solicit student responses, and we get about 90% response. I was encouraged by the fact that the students in my initial class of 40 in 1993 significantly out-performed their peers in the subsequent Organic Chemistry II class (which I did not teach, and which was a large class).

For the group work, it would be naïve to ask whether group or non-group sections do better, because different students have different learning styles. Rather, I chose to ask whether the students who judged their groups to be “functional and useful”—whatever that means to the students—could expect better grades. The students who said that their study groups are “highly functional and useful” fared on average about 0.35–0.4 GPA better in the class than those who felt that their groups were “dysfunctional” or “not functional and not useful.” The size of the benefit parallels what is reported in other studies in engineering. The group rating did not correlate at all with General Chemistry grades, so this clearly is not a situation in which the best chemistry students continue to do better than others. About 60–70% of the students said that they had effective groups, and 21% said that they had “highly effective” groups. But, there are definitely students for whom the group process doesn’t work. One of the nice things sociologically about groups is that students learn to work

with students they did not previously know, and they report that they have made new friends as a result. Evidently, we’ve even had a few marriages between students who first met in “O-Chem” groups!

Our studies showed that about 50% of the students use the course recordings, and that there is no correlation with expected grade. However, students like these because they are a convenient way to catch up on a missed class. (Class attendance did not plummet when these recordings were introduced.) They also are useful to faculty, who can listen to themselves teach.

The online homework showed an impressive correlation with expected (and actual) grade. Students who completed at least 80% of the online homework made a 1.0 GPA better grade, on average, than those who did less of the homework, and this is after correction for the points awarded for the homework. We did not ask online homework questions explicitly on the exams. Students seem to prefer online homework to textbook problems because they get instant feedback from the system, and it makes them accountable for their answers. Our results appear to be the first ones reported for online homework in organic chemistry.

Do you plan to continue incorporating these teaching methods in your classroom? If so, how do you think these changes in teaching and learning might impact the overall education of pharmacy?

We’ll use these and other improvements. I see on the horizon the “electronic learning resource”—a “textbook” in which source material, problems, homework, animations, and solutions are all part of a single electronic resource that students would be able to use on a computer or iPad. This is not the same as a simple electronic version of an ordinary book, such as a pdf. As obvious as this may sound, there are lots of problems with its effective implementation, but it’s coming.

The Howard Hughes Medical Institute recently awarded a grant—the only one of its kind in the country—to Purdue and a consortium of three other universities. The grant funds a program called “NEXUS: National Experiment in Undergraduate Science Education,” and the goal of the program and its consortium is to completely rethink the basic science curriculum for pre-health profession and pre-biology students with the goal of providing a competency-based curriculum. Purdue’s part of this is to rethink the chemistry curriculum. I, Profs. Chris Hrycyna and Jean Chmielewski in Chemistry, and Prof. David Sanders in Biological Sciences are the faculty involved, and already a new one-semester, biologically-relevant and rigorous General Chemistry course (CHM 109) has been designed and taught to our pre-pharmacy students. If this overall effort is successful, students will benefit from a streamlined but still rigorous chemistry curriculum that will prepare them well for their careers in the health professions.



You can read more about this topic in “Purdue helping students succeed in foundational classes,” University News Service, January 27, 2011, www.purdue.edu/newsroom/general/2011/110127WhittakerFoundation.html and “Your Professor, Your Computer, and You” (Brian Burnsed), U.S. News & World Report, January 26, 2011, www.usnews.com/education/online-education/articles/2011/01/26/your-professor-your-computer-and-you_print.html.



Migliaccio/Pfizer **Graduate Fellowship** IN PHARMACEUTICAL SCIENCES

The College of Pharmacy is pleased to recognize Gerald P. (MS 1979, Medicinal Chemistry) and Karen M. Migliaccio (MS 1979, Analytical Chemistry) and Pfizer Global Manufacturing for the generous establishment of the Migliaccio/Pfizer Graduate Fellowship in Pharmaceutical Sciences.

The endowment will be used for the establishment, support, and maintenance of one or more annual graduate fellowships for graduate students in the Department of Industrial and Physical Pharmacy, with a preference for students whose research focus is on manufacturing science. A Migliaccio/Pfizer Graduate Fellowship in Pharmaceutical Sciences is renewable provided the recipient continues to meet the eligibility criteria.

"This generous gift from Gerry and Karen Migliaccio and from Pfizer, Inc. will help to support graduate students in the Department of Industrial and Physical Pharmacy," says Dr. Elizabeth Topp, Head of the Department of Industrial and Physical Pharmacy. "The department has a proud history of preparing industrially oriented scientists who go on to positions of leadership in Pharma. This gift will help continue that tradition. Fittingly, the Migliaccios themselves have been exemplary leaders in the industry and, with this gift, are now helping prepare future leaders."

Gerry and Karen met at Purdue in Dr. Kornblum's organic chemistry class for first year graduate students. They were



Karen and Gerry Migliaccio pose at Purdue's 2006 Pharmacy Distinguished Alumni Awards Ceremony when Gerry was honored

the pharmaceutical industry and are proud of our long-term association with the College of Pharmacy. Through this fellowship, we hope to support the continued development of leading scientists to carry on pharmaceutical industry efforts to address unmet medical needs and to contribute to a healthier world."

married while at Purdue and both moved on to successful careers at Pfizer, Inc. Gerry is Senior Vice President of Network Performance at Pfizer where he leads the organization responsible for supply network performance, global external supply, global engineering, operational excellence, supply chain security and environment, health and safety. Karen, retired after 27 years as Sr. Director of Quality Operations at Pfizer, is currently President of Migliaccio Consulting, LLC. With her expertise in both commercial and R&D quality assurance, Karen works with clients to assess, develop and implement GMP-compliant systems.

"Over the years, the Purdue College of Pharmacy has produced many of the leading scientists in pharmaceutical research, development and manufacturing," says Gerry Migliaccio. "Karen and I were well-prepared at Purdue for rewarding careers in

Meet Hillary Holback

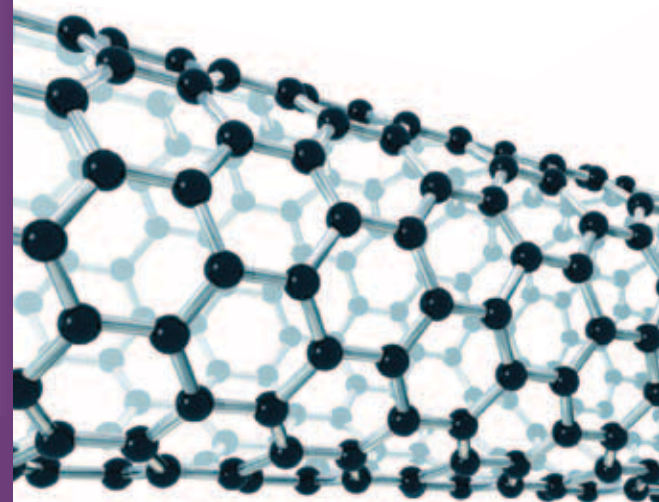
Migliaccio/Pfizer Graduate Fellowship in Pharmaceutical Sciences Recipient

Hillary Holback is a doctoral student studying under the direction of Dr. Yoon Yeo in the Department of Industrial and Physical Pharmacy. She received her BS in Chemical Engineering in 2008 from The University of Tennessee. She is currently working on her thesis, "Distribution and cytotoxicity of a nanoparticle drug delivery system in a 3-dimensional tumor model," and her research interest focuses on developing nanoparticulate drug delivery systems for the treatment of cancer. With an anticipated graduation in August of 2013, she plans to focus on the research and development of novel drug delivery systems and strategies for cancer treatment within industry.



"I am honored and excited to be the recipient of the Migliaccio/Pfizer Fellowship. My research focuses on developing a nanosize drug delivery system, which is designed to alter its properties at tumors for tumor-specific drug delivery, and evaluating its effectiveness in a 3-dimensional tumor model. My ultimate goal is to contribute meaningful insight in the effective killing of tumors."

— Hillary Holback



Ninth Annual Garnet E. Peck Symposium

THURSDAY, OCTOBER 20, 2011
7:30 AM - 5:00 PM
PURDUE UNIVERSITY
WEST LAFAYETTE, IN

Symposium Theme:
Pharmaceutical Solids

Morning session:
Crystalline Solids

Afternoon session:
Amorphous Solids

Registration will be available online at
www.conf.purdue.edu/attend/Peck

Please direct questions
to Mary Ellen Hurt
(mhurt@purdue.edu)
Department of Industrial
& Physical Pharmacy



Purdue Kenya Pharmacy Program News

Beatrice Jakait and Dr. Sonak Pastakia, Assistant Professor of Pharmacy Practice and pharmacist with the Indiana University Kenya Partnership, work in the AMPATH pharmacy in Eldoret (Photo courtesy of Tyagan Miller, www.tyaganmiller.com)

AMPATH Through Her Eyes As told by Beatrice Jakait

Beatrice Jakait is the Department Head and a pharmacist for the Academic Model Providing Access to Healthcare (AMPATH) in Eldoret, Kenya. She recently shared with the College of Pharmacy her perspective on how AMPATH has grown and the perception of Purdue's presence there.

"Eldoret is one of the best places to stay in the world. It has very good weather and some of the best long distance runners come from this region. AMPATH has about 55 clinics in Western Kenya with the main center being in Eldoret. We have mainly concentrated in providing HIV care in the past, but currently we are venturing into chronic disease management as well as primary healthcare as HIV becomes more of a chronic disease than the emergency it was a decade ago.

I have watched the growth of the department of pharmacy in AMPATH from a one person outfit (because antiretroviral drugs were not free of charge and we could only afford to take care of a handful of patients) to the present time where we run many pharmacies in various locations with many pharmacy, data and support staff.

My main responsibilities are to ensure access to medication as well as oversee the delivery of pharmaceutical care in all the clinics. This includes staffing and related activities. I endeavour to ensure that drugs are available for the patient when the patient arrives.

The pharmacy program has grown immensely due to the presence of Purdue College of Pharmacy faculty, as well as the students who come on rotation. It has been quite an experience interacting with Purdue faculty. They are some of the most unassuming people I have met. One time during a visit by a number of them, our public relations officer commented that they are the best guests she had met. It is also notable that we have not had friction and disagreements between our Purdue counterparts and the Kenyan team, a thing that is regrettably experienced by a number of other departments."



Beatrice Jakait regularly opens her home to welcome Purdue faculty and students during their time in Eldoret, Kenya (shown here, second from L). She is currently completing a non-traditional PharmD degree through Purdue University in addition to her position with AMPATH.



Meet Dr. Rakhi Karwa

**Clinical Assistant Professor
of Pharmacy Practice**

Dr. Rakhi Karwa is a new pharmacy practice faculty member working with the Purdue Kenya Program and AMPATH, the Academic Model Providing Access To Healthcare, in Eldoret, Kenya. After graduating from the San Francisco School of Pharmacy at the University of California, she completed two years of residency specializing in infectious diseases at the University of North Carolina Hospitals. She later took a faculty position at Auburn University Harrison School of Pharmacy where she practiced in internal medicine and infectious diseases.

Dr. Karwa is currently practicing in inpatient internal medicine and inpatient maternal care in Eldoret, Kenya. In addition to precepting students, she is responsible for pharmacovigilance activities, including a project to study adverse effects of antiretrovirals in a sub-Saharan population. She hopes to participate in the development of additional chronic disease clinics, such as a hypertension management, and is working on the development of the new pharmacy residency program.

Taking the "Purdue Pharmacy Family" to a new level: Drs. Rakhi Karwa and Sonak Pastakia were married in October 2010



Abbott Funds Fellowship/Residency

The College of Pharmacy is pleased to announce that Abbott has graciously provided funding to further our positive impact in Kenya. They have provided support for a one-year fellowship/residency in Global Health with a focus on diabetes as a part of the Purdue Kenya Pharmacy program. Dr. Isabel Hagedorn (PharmD 2009) joined our Kenyan team in early July. She participated in the Purdue Kenya program as a pharmacy student and we are excited to have her back. You will have the opportunity to read more about Dr. Hagedorn and the residency program in the next issue of *The Purdue Pharmacist*.

SIXTY SECONDS

With a Graduate Student



Evgeny Kiseley

BS, 2005, Moscow State University

**Doctoral Student, Department of Medicinal
Chemistry and Molecular Pharmacology**

Anticipated Graduation Date: May/August 2012

Hometown: Krasnoyarsk, Russia

Major Professor: Dr. Mark Cushman

Research Interests: To understand the nature of small organic molecules interactions with Top1 – DNA covalent complex.

Awards and Honors: Purdue Research Foundation Grant Recipient, 2010; Purdue Local Section of the American Chemical Society Travel Grant Recipient, 2010

Post-graduation plans: Post-doc, with long-term plans of career in academia

"The graduate program at the MCMP department of the College of Pharmacy has been a rewarding and invaluable experience. I came to the department as a technician at the laboratory of Dr. Cushman prior to joining the graduate program. The time as a lab technician allowed me to meet people and see what challenges and opportunities the program has to offer. This experience alleviated all the worries and made my desire to join the graduate program at the College of Pharmacy even stronger."

Purdue Pharmacy Instrumental in Passing House Bill 1233

The state of Indiana now has a new Collaborative Drug Therapy Management (CDTM) law which permits pharmacists to adjust drug therapy per physician-signed protocol in any practice setting, within specified circumstances. Indiana also has a new law that expands immunizations administered by protocol to include shingles. The laws went into effect on July 1, 2011, and it was due to the diligent work of some key Purdue Pharmacy players.

It all began when Indiana Pharmacists Alliance (IPA) President, Dr. Suellyn Sorensen, asked Dr. Gloria Sachdev, Clinical Assistant Professor, Primary Care, to serve as the IPA Legislative Chair for 2010-2011. She, along with the fearless efforts of her committee, was able to draft, revise, and ultimately pass the new house bill.

Basically, the new law permits collaborative drug therapy management between physicians and pharmacists in any practice setting as long as two criteria are met: 1) there needs to be direct supervision (defined as a physician being available for consultation), and 2) a pharmacist must have access to the patient's medical records.

"This is the biggest piece of pharmacy legislation that has happened in the past 20 years, and it will really move our profession forward," comments Sachdev.

When asked why she believes this bill is so important, she replies that it will allow pharmacists to function in roles they've been trained to function in and allow more opportunities for collaboration with physicians to help chronic disease state management.

The committee began working in April 2010, met through the summer, and then drafted language in the fall so it would be ready by the time session began in January of 2011. The committee was able to obtain tremendous support from medical groups, hospitals, and payers in spite of the Indiana State Medical Association (ISMA) initially opposing the bill. Dr. Sachdev understood the importance of getting ISMA's support, so she met with ISMA representatives to educate them on the bill's language so they could vote accordingly. Her determination paid off, and ISMA ultimately changed their position to "neutral." The bill finally passed in both the full Senate and House on the last day of session (April 29, 2011).

When discussing some of the lessons learned throughout this process, Sachdev quips, "The legislative process is like making sausage: disgusting to watch, but the end result is delicious!"

The IPA Legislative Team



Dr. Gloria Sachdev
Clinical Assistant
Professor, Primary
Care, Purdue University
IPA Legislative Chair,
2010-2011

"The IPA legislative committee worked passionately and as a unified team with laser focus," says Sachdev. "I would like to extend my sincere gratitude for their dedication in helping our profession take a leap forward and creating another opportunity for pharmacists to improve health care in our communities."

The legislative committee consisted of: Max Barnhart (BS 1987), *Administrative Director, IU Health BMH Community Pharmacy Network*; Tabitha Cross, *Director of Professional Development, IPA*; Kyle Hultgren (PharmD 2006), *Managing Director, Center for Medication Safety Advancement, Purdue University*; Bill Keown, *Lobbyist, KWK Management Group*; Bill Malloy (BS 1976), *Clinical Director, Pharmacy Services, Community Health Network*; Lary Sage, *Executive Vice President, IPA*; Kathleen Shoemaker, *Consultant, Lilly U.S.*; Suellyn Sorensen, *Past President, IPA and Clinical Pharmacist Specialist Infectious Diseases, Pulmonary, Neurology, Indiana University Health - University Hospital*; and Julie Williams (PharmD 1995), *Clinical Manager, Ambulatory Pharmacy Services, Indiana University Health Methodist Hospital*.

Also included were Chelsea Leeper and Veronica Vernon, two PharmD candidates each participating in a one-month elective legislative policy and advocacy rotation at the State House.

Furthermore, two freshman legislators—both pharmacists—were instrumental in their efforts. Dr. Sachdev extends sincere gratitude to Representative Steve Davisson (BS 1981) and Senator Ron Grooms, whom she considers to be "rock stars."



“The process was so much more complicated than I ever imagined! There are numerous interest groups, organizations, and political parties

vying for the support of the House and the Senate. The mere passage of the CDTM bill speaks volumes to the hard work and dedication of everyone involved in the process. However, the true heroes of this legislation are the individual pharmacists, physicians, and patients who personally contacted their representatives and senators to ensure passage of the bill. I witnessed the impact of your messages and I can assure you that your voices are most certainly heard!”

Chelsea Leeper
(PharmD 2011)



“Participating in this endeavor was definitely one of the highlights of my pharmacy school career. I have a passion for advocacy, and

I am honored that Dr. Sachdev allowed me to work on this exciting journey with her. It was incredible to come into the Statehouse in February and continue the great work that Dr. Sachdev, Chelsea Leeper, and the IPA Legislative Committee started in January. I was thrilled to be on the front line of the action and educate several legislators about the importance of collaborative drug therapy management. I wish to thank all of the pharmacists, physicians, and students who called to urge their legislators to rise in support of this issue. This is an excellent example for the future of how successful grass roots advocacy can be when we unite as one voice!”

Veronica Vernon
(PharmD 2011)



Regulatory and Quality Compliance Graduate Certificate Program

If you are looking to expand your career opportunities with an education that fits your busy work and life schedule, Purdue University’s Regulatory and Quality Compliance (RQC) Graduate Certificate Program is designed for working professionals like you.

The purpose of this certificate program is to provide graduate level education in the important aspects of Regulatory and Quality Compliance in the pharmaceutical and medical device industries. Courses cover key elements of drug discovery and toxicology research, clinical development, manufacturing formulations, and registration practices. Overarching all are the laws, regulations, and compliance oversight processes governing the industries. In this way, students will have an opportunity to improve their knowledge of regulatory and compliance issues and to explore careers in these important areas.

The development of this program has been a joint effort between Purdue University, representatives from the pharmaceutical industry, and the Food and Drug Administration. Individuals who successfully complete the certificate program will also have the option to apply these nine credit hours to a Master’s Program in Regulatory and Quality Compliance at Purdue.

Recently, the RQC program was invited to sit on the panel “Regulatory Training and Coursework in Higher Education” at the 27th Society of Quality Assurance (SQA) Annual Meeting held in San Antonio, Texas. Dr. Michael Schmidt, RQC Program Co-Director, attended along with Temple University, the University of Southern California, and Colorado State University representatives. “We welcomed the opportunity to showcase our program at the national SQA meeting. Being invited validated that we have a top flight program in terms of the depth and breadth of the courses and our unique teaching strategies and tactics for educating adults-in-the-work-place students.”

“Since our beginning in 2002, Purdue’s program has distinguished itself because of its academic rigor, student-oriented educational experiences, and focus on relevant topics for the pharmaceutical industry,” comments Dr. Stephen Byrn, RQC Program Co-Director and Charles B. Jordan Professor of Medicinal Chemistry. “We look forward to continued success as we approach our second decade of service.”

For more information regarding this program, please visit <http://www.ipph.purdue.edu/graduateprogram/cert-rqc/> or contact the Department of Industrial and Physical Pharmacy at (765) 494-9001 or mspeer@purdue.edu.





The 15th Annual *BoileRx* Golf Classic

The 15th annual BoileRx Golf Classic was held on June 2, 2011 at the Birck Boilermaker Golf Complex. Ninety-eight golfers played the Ackerman Hills course to help the College of Pharmacy raise money for both annual and endowed scholarships. This year, we offered the opportunity to bid on golfing for the day with special guest Leroy Keyes. Mr. Keyes (BS 1969, Liberal Arts), named as Purdue's "All-Time Greatest Player" in football, used to play for the Philadelphia Eagles and the Kansas City Chiefs. Thank you to all of our participants for joining us for this fun event and supporting the College.

Thanks to our generous sponsors, without whom this outing would not be possible...

All Star Trophy and Awards
CVS/Caremark Corporation*
Kroger Company*
L.E.W. Rx Consultants
Mathes Pharmacy
Pfizer Inc.*
Pharmacists Mutual
Supervalu Inc.*
Wal-Mart

* Corporate Partner

Thanks also to the alumni, faculty and staff volunteers who make this event so successful:

Steve Abel (BS 1976, PharmD 1978),
Bob Bennett (BS 1970, MS 1972),
Joe Borowitz (MS 1957), Mark Bunton
(BS 1995), Kate Burke (BS 1974),
Patty Elsner (PharmD 2001), Janice
Gibson, Gina Haile, Holly Keckler,
Jane Krause (BS 1981, MS 1994),
Tricia Lohr (PharmD 2005), Jeff Rattray,
Pam Ringor (BS 1997), Mindy Schultz,
Steve Scott (BS 1976, PharmD 1978)

Mark Your Calendar!

**16th Annual BoileRx
Golf Classic
Thursday, May 31, 2012**

Registration will begin at 10:30 AM at the Birck Boilermaker Golf Complex, and there will be a shotgun start at 12 noon. For more information, please contact Angela Davis, Manager of Stewardship and Donor Relations, at davis174@purdue.edu.

Planning for the Future of Pharmacy

**Have You Considered Including
Purdue's College of Pharmacy
in your Estate Plans?**

Planned Gifts are gifts that:

- Anyone can afford
- Anyone can make
- Pay you an income
- Protect your assets
- Provide for your loved ones
- Allow you to do things you can't do on your own
- Reduce your estate taxes

If you deeply appreciate the education you received while in the College of Pharmacy, a planned gift is a great opportunity for you to make a difference. Last fall, the College of Pharmacy kicked off a \$10 million dollar planned giving campaign that commences June 30, 2013.

Your planned gifts can support:

- The College of Pharmacy's top priorities
- Student Scholarships
- Graduate Student Fellowships & Awards
- Faculty Awards
- Endowed Professorships & Chairs

Alumni participation is crucial for the future of pharmacy. You are welcome to contact Nathan Wight, Director of Advancement, at nwight@purdue.edu or (765) 494-0501 to find out how you can make a difference.

You can make a difference in the future of pharmacy today by visiting <http://www.pharmacy/purdue.edu/pg>

At the dinner following the tournament, prizes were awarded for...

Longest Putt Greg Fox

Men's Closest to the Pin Dave Leburg (BS 1988)

Men's Longest Drive Zach Rigney

Women's Longest Drive Julie Koehler (PharmD 1997)

Beat the Faculty (L to R) Trey Rohrman, Caleb Hamilton, Mike Murphy, Dwight Noble, Dave Leburg (BS 1988), Tina McLane, Mike Sievers (BS 1979), and Ernie Presser; (not pictured) Julie Koehler (PharmD 1997) and Gary Dupre (BS 1980)



Above:
Chris Dimos (BS 1988) had the winning bid for spending the day golfing with special guest Leroy Keyes. Chris and the Supervalu team had a great day playing golf with Leroy! (L to R) Tom Rousonelos, Chris Dimos, Nikki Price (BS 1993), Bobbie Riley, and Leroy Keyes



Right:
Jim VanSchepen did an excellent job serving as our auctioneer

The winning teams were...



1st Place

(L to R) Ernie Presser, Joe Stodola (BS 1960), and Carl Hudson (BS 1965)



2nd Place

(L to R) Trey Rohrman, Linda Rohrman, Kate Burke (BS 1974), and Morgan Burke



3rd Place

(L to R) Mike Sievers (BS 1979), Andy Ault (BS 2001), Michael Ankenbruck (BS 1984), and Gordon Bokhart (BS 1976, PharmD 1995)



Melanie & Marv Richardson

"I believe that a great deal of success that I achieved in my career is directly related to the education and the pharmacy professors who encouraged me to achieve my goals early in life.

I was fortunate enough to have three particular professors who encouraged me while at Purdue. Drs. Robert Evanson, George Spratto and Nick Popovich made their respective areas of expertise fun and meaningful, and that encouraged me to find similar interests in the field of pharmacy that allowed me to achieve success.

Now, it is time to give back to students attempting to achieve their goals and to the faculty who support and encourage their dreams. I have made a planned gift to the College of Pharmacy a part of my overall financial gift giving and planning process.

I hope that my gift supports students and faculty who continue to improve the Purdue University College of Pharmacy program. I also hope it will lay the foundation for a new College of Pharmacy facility."

— Marvin "Marv" Richardson (BS 1980)

PRECEPTOR PERCEPTIONS



On April 29, 2011, the College of Pharmacy recognized outstanding preceptors at the Graduation Banquet. Mr. Raja Hanania received the *Preceptor of the Year Award* for his dedication to the teaching and mentoring of our pharmacy students. Dr. Kellie Jones received the *Faculty Preceptor of the Year Award*. Congratulations to these fine individuals for their dedication to serving our students.

(L to R) Dr. Patti Darbshire, Mr. Raja Hanania, Dean Craig Svensson, and Dr. Christy Nash

Preceptor of the Year Award

Mr. Raja Hanania received his BS in Pharmacy from the University of Iowa. He is a certified disease manager in diabetes and a certified diabetes educator. He is truly honored to have had the opportunity to be a guest lecturer for the elective Diabetes Pharmacy Class at Purdue in 2010 and to be a preceptor for Purdue and Butler PharmD students for the last 12 years. It should come as no surprise that he is passionate about the pharmacy profession and diabetes care.

Mr. Hanania is the clinical pharmacy specialist in critical care and diabetes care at Indiana University Health, Bloomington Hospital. He manages all drug therapy of patients in critical care and is the co-chair of the glycemic control improvement team and the surgical care improvement team. He also teaches newly diagnosed diabetics at the outpatient diabetes care center. Prior to this, he was the clinical coordinator of pharmacy services at the same hospital.

What do you like most about serving as a preceptor?

I enjoy interacting with my students and the friendship we build based upon mutual respect. I love seeing my students excited about learning new things and also applying what they learned in theory into practice.

What is unique about your practice?

Indiana University Health Bloomington Hospital offers preceptorship to several rotations including general medicine, intensive care, anticoagulation, medication safety, management, primary care, hematology/oncology, surgery, and emergency medicine, and we are among the very few sites in Indiana that also offer preceptorship to diabetes care rotation students.

How do you utilize students serving rotations to advance patient care services?

I always engage my students in projects to advance patient care services such as writing patient information brochures, coordinating support groups, and often working on projects

that end up being my students' PharmD projects. I have presented posters with my students at ASHP which I believe is a great experience for everyone.

What advice do you give students entering practice? What aspects of professionalism do you impress upon students?

I always remind my students that patients, physicians, nurses and many other health care professionals depend on pharmacists who are considered among the most trusted professionals. I advise my students to work hard and enjoy the satisfaction that patient care offers to them. Pharmacists play a very critical role within the health care team. We as pharmacists and pharmacy students owe it to our patients to do whatever we possibly can to make a difference in their lives. This is our mission and we should always work hard to achieve it!

Outstanding Faculty Preceptor Award



Dean Craig Svensson with Dr. Kellie Jones

Dr. Kellie Jones, Clinical Associate Professor in the Department of Pharmacy Practice, works with the inpatient oncology and gynecologic oncology services at IU Simon Cancer Center. There, she rounds daily with

the oncology team and serves as their drug resource and content expert. "Specifically, I help with pain management, side effect management from chemotherapy or other treatments, and patient education," she says. She assists with the preparation and verification of chemotherapy orders to ensure that appropriate premedications and intravenous fluids are given and the appropriate monitoring is ordered based on the chemotherapy used. She also spends time with patients and family members educating them on their treatments, side effects, and any new medications that might be started.

In addition to taking pharmacy students on rotation, Dr. Jones teaches a CLPH873 oncology module and is the co-coordinator of the PHRM404 integrated lab. She is beginning her fifth year as a preceptor.

How do you involve students in your rotation to build your practice?

When I have students on rotation with me, we all round together with my oncology team which is comprised of many people (oncology attending, hematology/oncology fellow, medical resident and intern, medical student, nurse). I have them follow patients and help take care of their medication issues and serve as the primary pharmacy resource for that patient.

How do you utilize students serving rotations to advance patient care services?

One particular example would be taking care of a patient who was admitted with pain control issues. The students and I will work through the problems and help come up with a treatment plan (oral, iv pain medications, or the use of a patient controlled analgesia). The students have to do dosing conversions, come up with a plan, and then follow the patient to see if those changes helped. The students really are an extension of me and I encourage them to get actively involved in the team to develop their confidence level and become a more rounded, independent clinician. I try to challenge the students on what they know and don't know and I ask them a lot of questions to have them formulate answers. I don't want to just give them the answer.

What advice do you give students entering practice? What aspects of professionalism do you impress upon students?

At the beginning of the rotation, I always ask what their interests are and what they plan on doing with their career. This helps me focus on different areas in oncology that might be beneficial for them. I always encourage being prepared (both with patients or topic discussions) and that they will only get out of the rotation what they put into it.

As far as professionalism, I try to be a role model for them by seeing my interaction with our team and the other health care professionals who we come across on a day-to-day basis. I always encourage the students to go talk to the patients and their families. They always will learn more and remember more about a medication or a disease state if they can associate it with a patient.

What do you like most about serving as a preceptor?

Throughout the month, it is always fun to see the transition of the students' knowledge base and comfort level with taking care of patients. It is difficult for the students to have to get familiar with different institutions and services each month, but once they get the hang of it, it is great to see what they know. The students get excited because they are the ones making the suggestions and medication changes.



**PLEASE JOIN THE
PURDUE UNIVERSITY COLLEGE OF PHARMACY
ON OCTOBER 7 AND 8, 2011 FOR THE
Minority/Multicultural Programs
Celebration**

All who participated in Minority/Multicultural Programs as well as corporate representatives and others who support its goal are asked to return to campus for a special event. Together, we will rejoice in our accomplishments, renew friendships, and plan for the future. For more information or to RSVP for the "October Celebration," visit www.pharmacy.purdue.edu/omp/celebration.php. You may also contact Jackie Jimerson, Director of Multicultural Programs, at jjimerso@purdue.edu or Dana Neary, Manager of Alumni Relations and Special Events, at 765-494-2632 and nearyd@purdue.edu.

Cheer on the Boilermakers at the Purdue vs. Minnesota football game on Saturday, October 8, 2011. Tickets are \$39 each and can be purchased online until September 23, 2011. To reserve your seats:

1. Log on to: www.purduesports.com
2. Select "Buy Tickets Online" from the "Tickets" dropdown menu
3. Select the "Promotions" link in the left column
4. Enter your promotion code: PHARMACY
5. The site will guide you through the ordering process

During the ordering process, there will be a sign-in page. If you have not previously ordered tickets online, you will need to create an account by clicking the "Register Now" link on the sign-in page and continue to follow the guided site.



NUCLEAR PHARMACY ALUM **Neil Petry** *The Road to Success Started Here*

Neil Petry poses in his office surrounded by items which are meaningful to him and his profession. Top shelf: 1970s pharmacy stamp needle point made by his Purdue pharmacist father John Petry (BS 1940); The Pharmacist, by Norman Rockwell, given by his wife Jodi. Middle shelf: framed photo of William H. Briner being honored as recipient of the 1995 APhA Daniel B. Smith Practice Excellence Award; Petry's 2009 APhA William H. Briner Distinguished Achievement Award in Nuclear Pharmacy.

Neil Petry received his BS in pharmacy in 1975 and MS in nuclear pharmacy in 1977 from Purdue University. He completed a one-year nuclear pharmacy residency at Indiana University Medical Center, one year of commercial nuclear pharmacy practice, and five years of clinical experience at Duke University Medical Center. He has been a board-certified nuclear pharmacist (BCNP) since 1982.

For 15 years, Neil was a faculty member and director of nuclear pharmacy at the University of Michigan Medical Center. He currently serves as Director of the Radiopharmacy and Nuclear Medicine Laboratory at Duke University Medical Center where he is Clinical Assistant Professor in Radiology and a medical physics graduate program faculty member. He also holds adjunct clinical pharmacy faculty appointments at Purdue University, Campbell University and Wingate University at the associate professor level.

The radiopharmaceutical development and approval process and associated regulatory affairs have always been a major area of interest for him. In recent years, Neil has primarily focused on the impact of USP Chapter <797> sterile compounding guidelines on nuclear pharmacy and nuclear medicine practice. To expand his expertise in this regulatory arena, he completed a hands-on USP Chapter <797> compliance training program at which faculty included experts in pharmacy, pharmacy training, microbiology, environmental engineering, as well as two members of the USP <797> Expert Committee on Sterile Compounding (SCC). He recently served as a member of the USP radiopharmaceuticals as compounded sterile preparations expert panel, which assisted the SCC with the recent revision of USP <797>. More recently, he has been focusing on the regulatory issues associated with the FDA current good manufacturing practice (cGMP) regulations governing the production of PET radiopharmaceuticals.

Neil has been an active member of the American Pharmacist Association (APhA) his entire professional career, having served as chairman of the Nuclear Pharmacy Section. He is a longtime member of the American Society of Health-System Pharmacists (ASHP) and a past member of the Board of Pharmaceutical Specialties' Nuclear Pharmacy Specialty Council. Currently, he is an editorial board member of the University of New Mexico College of Pharmacy's "Continuing Education for Nuclear Pharmacists and Nuclear Medicine Professionals." He is also a member of the Society of Nuclear Medicine (SNM) and the Radiopharmaceutical Science Council (RPSC).

In 2000, he was recognized for his pharmacy leadership and selected as a GSK-Leonard Davis Institute of Healthcare Economics Fellow at the Wharton School. He has also been honored as an APhA Fellow and as the 2009 recipient of the APhA-APPM William H. Briner Distinguished Achievement Award in Nuclear Pharmacy Practice. Most recently, he was honored to serve as a visiting professor for the Hong Kong Hospital Authority sponsored "Radiopharmacy and Radiochemistry for Nuclear Medicine" course held at the Queen Elizabeth Hospital in February 2011. Over the course of his career, Neil has authored or coauthored numerous journal articles, book chapters and continuing education articles. He is also a frequent presenter at the APhA and SNM annual meetings and an often invited lecturer both nationally and internationally.

The availability of the nuclear pharmacy program at Purdue certainly changed the career direction for Neil. He anticipated returning to practice in the Petry Drug Store in North Judson, Indiana, when he entered pharmacy school, but instead he became one of several outstanding leaders in nuclear pharmacy, compliments of Purdue University.



CATCHING UP WITH **Charles O. (Chip) Rutledge**

*Professor Emeritus of Pharmacology
Dean Emeritus of Pharmacy, Nursing and Health Sciences
Vice President Emeritus for Research*



It was through the Boy Scouts and a high school Science Field Club that Dr. Chip Rutledge developed an interest in science and the out-of-doors. While studying biology and chemistry, he felt that pharmacy was the perfect combination of putting science to work to improve the human condition. His love of pharmacy led to a distinguished career as a professor, dean and vice president. In 2008, he stepped down as Vice President for Research at Purdue and embarked on a new journey: retirement. But to say his time has been any less active is an understatement.

Still residing in West Lafayette in the country on four acres of mostly wooded land, Dr. Rutledge continues to enjoy the outdoors, splitting firewood and gardening. A self-proclaimed life-long student, his interests have spread to the liberal arts and languages. "I begin each day on a Nordic Track exerciser watching DVDs of college level courses prepared by the Teaching Company," he says. "Over the years, I have completed courses in the Joy of Mathematics, World Religions, U.S. History, Classical Music Composers, Art Appreciation and World Literature. I have read the one hundred greatest books and became interested in being able to read French literature in French."

He serves as President-elect of the Purdue Retirees Association (PURA)—one of the most active retirees associations in the Big Ten with many programs, lectures, field trips and campus tours—and began his term as President in June of 2011. A past president, he is

still active in the American Society for Pharmacology and Experimental Therapeutics (ASPET). Since 1998, he has chaired the Investment Subcommittee of ASPET which oversees the endowment funds of the association. He also continues to attend board meetings of the National Institute for Pharmaceutical Technology and Education and served as the first Chair of the Board of that group. The group is a consortium of Universities with the mission to advance the quality, safety, affordability and speed to market of medicines through interdisciplinary research and education in pharmaceutical technology. Within the past year, he participated in the new building dedication at the University of Kansas School of Pharmacy and in the inauguration of the Norman Weiner Lectureship in Denver Colorado.

When he retired as Dean of the School of Pharmacy, Nursing, and Health Sciences in 2002, friends and alumni of the School financed a cruise on the Danube River for him and his wife, Jane. Since then, the couple has taken several cruises including a memorable Journey of Aeneas that traced the journeys described in Virgil's *Aeneid*. They actively participate in campus activities including

Friends of Convocations. They are strong supporters of Purdue athletic programs, especially the women's and men's basketball teams. They participate in bridge and poker social groups and support various service, library and music organizations of the community, and they are quite grateful to have the time to pursue these many and varied activities.

Most importantly, he and Jane have worked as a team through the years and celebrated their fiftieth wedding anniversary in July surrounded by family in Breckenridge, Colorado. "There have been many productive outcomes of this teamwork, but none has been more rewarding than raising four children," comments Rutledge. They now have the enjoyment of watching and supporting the development of ten grandchildren.



Dr. Rutledge also spent some time sharing his perceptions about the changing profession of pharmacy and his experiences during his tenure at Purdue (as well as some amazing details regarding his passion for French literature). We are pleased to share the remainder of his interview with you in "Q & A with Chip Rutledge" online at www.pharmacy.purdue.edu/articles/2011-07-21.Rutledge.



"Over the years, I have completed courses in the Joy of Mathematics, World Religions, U.S. History, Classical Music Composers, Art Appreciation and World Literature. I have read the one hundred greatest books and became interested in being able to read French literature in French."



Greetings from West Lafayette!

We have had another great school year! We welcomed the Class of 2011 into the Purdue Pharmacy Alumni family on May 15th. On June 2nd, our 15th Annual BoileRx Golf Classic was held at the Birck Boilermaker Golf Complex. Ninety-eight golfers played eighteen holes on the beautiful Ackerman course to help us raise money for scholarships.

We are planning for an exciting fall in West Lafayette! There are several reunions planned, as well as our annual Homecoming Tailgate and Chili Supper. We will be welcoming our new PharmD class at the White Coat Ceremony on September 11th. For the latest details regarding these and other events, please check out the Pharmacy alumni webpage at www.pharmacy.purdue.edu/advancement/alumni/. Please also look for us on LinkedIn® and Facebook® (“Purdue Pharmacy Alumni Group”).

The Pharmacy Alumni Association board has put together a brief survey to help us as we move forward to plan events and activities that are of the greatest interest to our alumni. The board has several ideas, but they would like your feedback. The electronic survey only takes a few minutes and will help us serve you more efficiently. Please take a moment to visit the link at www.pharmacy.purdue.edu/phaasurvey.

Hope to see you this fall. Boiler Up!

Dana Neary
Manager of Alumni Relations & Special Events



Pharmacy Alumni Online Survey

The Pharmacy Alumni Association Board (PhAA) wants to better serve YOU, but we need your input! We invite all pharmacy alumni to take a few minutes to answer the questions in our online survey. Please visit

www.pharmacy.purdue.edu/phaasurvey

and let us know how we can help you get the most out of your alumni experience.

Fall 2011 Pharmacy Events Calendar

DATE	EVENT
September 7	Pharmacy First Nighter
September 11	White Coat Ceremony
September 16	Class of 1961 Reunion Luncheon
October 7	Multicultural Programs Celebration Reception and Dinner
October 21	Dean's Advisory Council Meeting
October 21	Student and Alumni Chili Supper
October 22	Pharmacy Homecoming Tailgate (Celebrating Pharmacy Classes of 2006, 2001, 1996 and 1986)
October 23	Purdue Pharmacy Alumni and Friends Reception, AAPS Meeting, Washington D.C.
November 3	Distinguished Alumni Dinner
November 4	Distinguished Alumni Awards Luncheon
November 10	Tyler Lecture Series
November 11	Class of 1976 Reunion Reception and Dinner
November 12	Class of 1976 Tailgate
November 19	Donor Recognition Brunch

For more information regarding these events, please visit www.pharmacy.purdue.edu/events.php or contact Dana Neary, Manager of Alumni Relations and Special Events, at nearyd@purdue.edu or (765) 494-2632.

Looking to build your professional network?

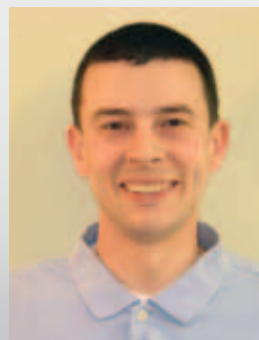
If you are looking for a way to stay informed about your industry and find knowledge needed to achieve your goals, LinkedIn® is an excellent online source. With over 90 million registered professionals, you'll have the opportunity to connect with others including fellow Purdue Pharmacy alumni.



Join our **Purdue Pharmacy Alumni Group** on

LinkedIn at <http://www.linkedin.com/>

Meet Brad Given



Brad Given (PharmD 2007) recently completed serving two years as Secretary of the Purdue Pharmacy Alumni Association (PhAA) Board in June of 2010. This is his fourth year participating in the PhAA, having previously served as co-chair and

chair of the Young Alumni Committee. He is a pharmacy manager for Walgreens. Brad and his wife were both out-of-state students and now make their home in Milwaukee. He jokes that it looks like their son, Noah, will be an out-of-state Boilermaker (Class of 2032). "Maybe I can use my connections through the PhAA to get him in-state tuition...please?!"

Why do you serve on PhAA? On a personal level, it allows me to stay in contact with friends, classmates, and professors and gives me a great excuse to come back to campus several times a year. On a professional level, serving on the PhAA allows me to have an impact on the present and future of the program at Purdue, and in many ways Pharmacy as a whole. At our meetings, I get to participate in discussions about the College and profession with some incredibly successful alumni in their particular fields.

Why do you think it's important to become involved in volunteering for the College of Pharmacy? Anything that allows those of us who have benefited from a Purdue Pharmacy education to give back to the College is a good thing. Even the smallest act can have a large impact on the life/career of a student.

What do you hope PhAA will accomplish over the next year? We are mainly looking to increase the interaction between current students and alumni. Some of that is encouraging more alumni to get involved and reach out to students through programs like the Alumni Lunches or events like the BoileRx, but also we would encourage the students to let us know how we can help them, as well.

Be sure to check out the Fall/Winter 2011 issue of The Purdue Pharmacist when we introduce our new PhAA officers and board members.

Faculty & Staff News

On April 8, 2011, the Purdue University Board of Trustees conferred the approval of promotions for the following College of Pharmacy faculty. Please join us in recognizing their successes.

Dr. Eric Barker, Professor, Department of Medicinal Chemistry and Molecular Pharmacology

Dr. Patti Darbshire, Clinical Associate Professor, Department of Pharmacy Practice

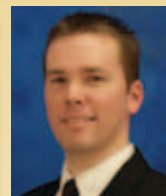
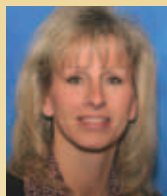
Dr. Sharon Edrman, Clinical Professor, Department of Pharmacy Practice

Dr. Tony Hazbun, Associate Professor with Tenure, Department of Medicinal Chemistry and Molecular Pharmacology

Dr. Carol Ott, Clinical Associate Professor, Department of Pharmacy Practice

Dr. Chiwook Park, Associate Professor with Tenure, Department of Medicinal Chemistry and Molecular Pharmacology

Dr. Brian Shepler, Clinical Associate Professor, Department of Pharmacy Practice



(L to R: Barker, Darbshire, Edrman, Hazbun, Ott, Park, Shepler)



Dr. Noll Campbell joined the Department of Pharmacy Practice this past fall as Research Assistant Professor. He completed residencies

with St. Vincent Hospital (Indianapolis) and the University of North Carolina (Chapel Hill) after receiving his PharmD at Butler University. He is a fellow with the American Society of Consultant Pharmacists (FASCP) and a Board Certified Psychiatric Pharmacist (BCPP). Dr. Campbell's research interest focuses on the medication management of older adults with cognitive disorders, or stated otherwise, pharmacoepidemiology of the aging brain. He is currently a co-investigator on an inpatient delirium study, an outpatient dementia study, and is working on a career development award to support his future work.



Hamid Abbaspour and Dean Craig Svensson congratulate Dr. Edrman on receiving the Dr. Aziz Outstanding Teaching Award during the Pharmacy Graduation Banquet

Dr. Sharon Edrman, Clinical Professor, Department of Pharmacy Practice, is the recipient of the 2010 Dr. Aziz Outstanding Teacher of the Year Award. The award, established by Hamid Abbaspour (BS 1985) to honor the memory of his brother Dr. Aziz Abbaspour, is presented by the College of Pharmacy in recognition of the outstanding contributions by the recipients to the students of the College.



Dr. Rakhi Karwa, Clinical Assistant Professor of Pharmacy Practice, joined the faculty in January of 2011. You can read more about Dr. Karwa and her work in Kenya on page 19.

Pharmacy Advancement News



Please join the College of Pharmacy in congratulating **Christopher Smith** on his appointment as Assistant Vice President for Development of Health Sciences at the University of Utah. Chris began his work with Pharmacy in 2000, after having served in Krannert since 1997. He directed the College of Pharmacy's very successful component of the last capital campaign and has continued his excellent work in directing our advancement activities in the College. Chris has been a key reason for our success in acquiring the resources needed to continue to be a program of excellence. We are very grateful for his dedication to our program over the last eleven years and will miss his many contributions. We wish him much success as he advances his career in Utah.



Nathan Wight joined the College of Pharmacy in March 2011 as Director of Advancement. He graduated from Illinois State University in 2000 with a BS in Business Administration and immediately enrolled at Ball State University to study Student Affairs Administration in Higher Education. After earning his masters in 2001, he accepted a job in Indianapolis working with the fraternity of which he is a member, Delta Sigma Phi. In 2006, he joined Purdue as the Director of Development for the School of Aeronautics and Astronautics. He served in that position until accepting a promotional opportunity in the School of Civil Engineering in 2009. He and his wife, Monica, have a 20-month old daughter, Mela. They are proud to announce their second child is due February 10, 2012. He looks forward to meeting the Pharmacy family and encourages you to contact him should you have any questions or concerns. He can be reached at (765) 494-0501 or nwight@purdue.edu.



After eight dedicated years of service to the College of Pharmacy, **Linda Yelton** has retired as Manager of Stewardship. During these years, she has done an outstanding job bringing together scholarship recipients and their donors at donor recognition events, working with our supportive Corporate Partners, steering the Graduating Class Gift Campaigns, and helping to establish our Pharmacy Women for Purdue organization. She joined the Purdue University staff in 1988 and served in various roles within donor support which led to her most recent position. She is looking forward to following up on all of her home improvement projects, doing some volunteer writing, and spending lots of time with her four adorable grandchildren. The College wishes her well in these new endeavors during retirement.



Angela Davis joined the Pharmacy Advancement Office as Manager of Stewardship and Donor Relations in June. She comes to us from the University Development Office in the Dauch Alumni Center where she held the position of Associate Director of Donor Services. She brings a wealth of Purdue University development experience to our team. She is originally from Hammond, Indiana, where she worked for the city of Hammond as a Community Development Planner for over eight years, and at Indiana State University Office of Alumni Affairs, her alma mater, before coming to work at Purdue. Angela is a member of Delta Sigma Theta Sorority, Inc. and the West Lafayette/Lafayette Branch NAACP. She enjoys listening to music, reading, watching sports (especially the Boilers), and performing community service. Please help us welcome her as many of you return to campus this fall.



Yoon Yeo

Assistant Professor,
Industrial and Physical Pharmacy

Assistant Professor (by courtesy),
Weldon School of Biomedical Engineering



Dr. Yoon Yeo received her BS in Pharmacy and MS in Microbial Chemistry from the Seoul National University in Korea. She worked as a research scientist at Samyang Corporation in Korea before beginning her doctoral studies in 1999 at Purdue University. She earned her PhD in Pharmaceutics in 2003 and completed a post-doctoral associate position in chemical engineering at the Massachusetts Institute of Technology in Cambridge before returning to Purdue in 2007. She is currently Assistant Professor of Industrial and Physical Pharmacy with a joint appointment as Assistant Professor at the Weldon School of Biomedical Engineering.

Dr. Yeo's research is focused on developing new drug delivery systems and biomaterials. Instead of creating new drug entities, she tries to use biologically inactive (or less active) ingredients to make drugs behave better (i.e., go where they are supposed to go and act in the way they are supposed to act). Specifically, she is interested in utilizing particulate dosage forms to deliver drugs in a target-specific manner, such as tumors or genetically defective lung epithelium.

When not in the lab, Dr. Yeo enjoys watching international movies and learning about their cultures and histories. "I had many international friends when I was in graduate school, and I used to watch movies with them. I try the same with my students, who are from different parts of the world and happen to be great cooks (unlike me). Last time, we watched an Indian comedy, *3 Idiots*. It was a lot of fun, and the food left over fed me the next three days!"

What first drew you to/interested you in your research?

My project as a research scientist at Samyang Co. was to develop microparticles releasing a protein drug for an extended period. It was my first practical exposure to the field of controlled drug delivery. I was excited to learn how new drug delivery systems could change the fates of drug molecules, which would otherwise be inconvenient to administer and/or much less effective.

What is it that interests you most about your research?

Drug delivery research often means a battle with biological environment that interferes with the intended functions of drug carriers. A number of new drug delivery systems, which are designed with brilliant features, fail when they do not adequately address the biological obstacles. I am excited about discovering a new challenge, coming up with a new way to overcome such a challenge, and observing the difference our approach can make.

What do you hope to discover through your research?

I want to find a way to help patients in a way that has not been possible due to the lack of proper delivery systems. For example, we work on developing new inhalable medicine for cystic fibrosis patients who suffer critically from obstructive lung diseases. There is no easy way to overcome the tenacious phlegm layer accumulating in the airways and deliver medicines to the underlying tissues, so we look for various ways to combat this phlegm barrier. Another research goal is to find a new way of treating tumors with metastatic potential—a true killer of cancer patients. The success of this research depends on how we make use of specific biological and chemical markers that distinguish the tumor cells from the innocent bystanders.

What are you currently working on in your lab?

We are developing inhalable gene carriers for cystic fibrosis patients and polymeric nanoparticles for target-specific chemotherapy. For the former, we utilize an osmotic agent as a carrier in anticipation that mobilizing water in the phlegm with the osmotic



The YEO lab, July 2010 (L to R: Hillary Holback, Mark Hamilton, Joonyoung Park, Qingnuo Lin, and Sooyoung Shin)

agent would enhance transport of the gene therapeutics. For increasing drug delivery to tumors in a target-specific manner, we program nanoparticles with a new biomaterial that changes charges according to the pH. Solid tumors tend to develop acidic environment due to their unique nature of growth. Our strategy takes advantage of the pH difference to instruct the nanoparticles where they are supposed to act.

What do you enjoy most about working with the students?

I enjoy having discussions with students on their own research projects as well as others. One of our favorite group activities is the bi-weekly journal club. We discuss recent journal articles and try to understand their rationales and think about how differently we would have approached the same challenge. Through this exercise, I see how the students develop creative and critical minds.

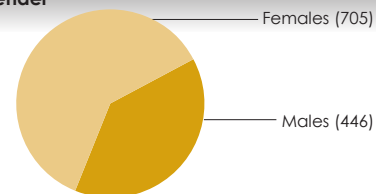


Fall 2011 Admission Statistics

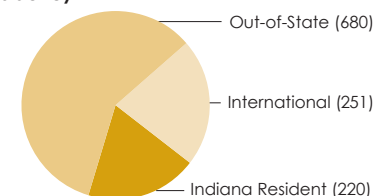
2011 Applications

Total Applications	1151
Purdue/WL	204
Other Indiana Campuses	89
Ball State	5
Bethel	1
DePauw	1
Franklin	3
Hanover	1
ISU	4
IPFW	11
IU-Bloomington	10
IU-East	1
IU-Kokomo	2
IUPUI	18
IU-SB	2
IU-SE	3
Notre Dame	1
Oakland City U.	1
PU-Cal	6
PU-NC	5
St. Joe	1
St. Mary's	2
U-Indianapolis	2
U. Southern IN	1
Valparaiso	2
Vincennes	5
Wabash	1
Out-of-State Colleges	858

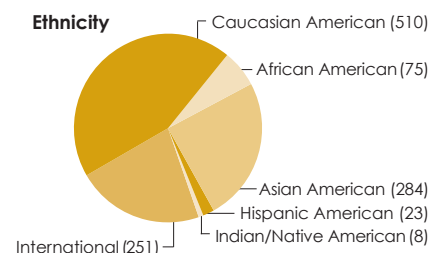
Gender



Residency



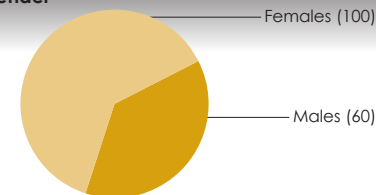
Ethnicity



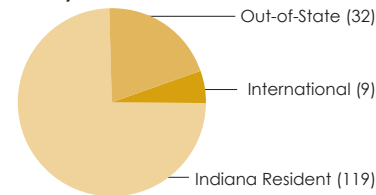
2011 Admissions

Total Admitted	160
Purdue/WL	113
Other Indiana Campuses	32
Ball State	1
Franklin	2
Indiana State U.	3
IPFW	7
IU-Bloomington	2
IU-Kokomo	1
IU-SB	1
IUPUI	10
PU-CAL	1
PU-NC	1
U. Southern IN	1
Valparaiso	1
Vincennes	1
Out-of-State Colleges	15
Average Age	22 (Range 19 - 44)
Cum. GPA Average	3.63 (Range 3.09 - 4.00)

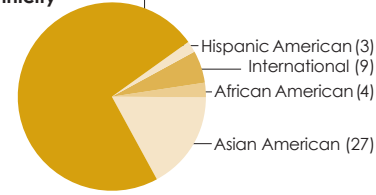
Gender



Residency



Ethnicity



ALUMNI, STAFF & STUDENT ACTIVITIES

Graduate Student Awards Symposium

The annual College of Pharmacy Graduate Student Awards Symposium took place on October 21, 2010 in the Lawson Building on campus. Several faculty and graduate students attended to view presentations given by the recipients of both the *Albert and Anna Kienly Awards for Outstanding Teaching by a Graduate Student* and the *Jenkins-Knevel Awards for Excellence in Research*.



The Kienly Award recipients (L to R) Jaimeen Majmudar (Medicinal Chemistry and Molecular Pharmacology), Lori Karpes (Industrial and Physical Pharmacy), John McCorvy (Medicinal Chemistry and Molecular Pharmacology), Dr. Robert Geahlen, Associate Dean for Graduate Programs, and Brittany Melton (Pharmacy Practice)



The Jenkins-Knevel Award recipients (L to R) Nicholas Hagemeyer (Pharmacy Practice), Jared Baird (Industrial and Physical Pharmacy), Dr. Robert Geahlen, Associate Dean for Graduate Programs, Maris Cinelli (Medicinal Chemistry and Molecular Pharmacology), and Jiao Song (Medicinal Chemistry and Molecular Pharmacology)

ASHP Midyear Reception

On December 5, 2010, the College of Pharmacy held an alumni reception in Anaheim, California, in conjunction with the ASHP midyear meeting. Over one hundred alumni and fifty students attended the event and enjoyed interacting with pharmacy faculty and staff.



(L to R) Jean Scholtz (PharmD 1981), Prof. Steven Scott (BS 1976, PharmD 1978), Lauren Czosnowski (BS and PharmD 2006), Prof. Steven Abel (BS 1976, PharmD 1978) and Quinn Czosnowski (PharmD 2006)



Banners hanging outside of the convention center featured Elayne (Dworek) Ansara (BS and PharmD 2006), far right

ALUMNI, STAFF & STUDENT ACTIVITIES

Eileen Dolan Receives Distinguished Women Scholars Award

Purdue University presented its inaugural *Distinguished Women Scholars Award* which honors alumnae who earned a Purdue doctorate and have made significant scholarly contributions to their academic communities. The College of Pharmacy is pleased to announce that of the first three recipients bestowed this high honor, our own **M. Eileen Dolan** (PhD 1983) was one of them.



Dolan

Dr. Dolan, who received her doctorate in medicinal chemistry, is Professor of Medicine at the University of Chicago and is one of the nation's leading cancer researchers. She is Chair of the Committee on Clinical Pharmacology and Pharmacogenetics, a program that trains clinical and post-doctoral fellows in the field of personalized medicine, new drug development and clinical pharmacology. She also co-leads the Pharmacogenomics and Experimental Therapeutics Program within the University of Chicago Comprehensive Cancer Center.

During Women's History Month, the Provost hosted a luncheon on March 3, 2011 to celebrate the achievements of the women recognized. At the luncheon, Dr. Dolan spoke about her career, her time at Purdue and how her mentors played a role in her education, and shared some advice for young women scholars in the audience. It is with great pride that the College congratulates Dr. Dolan on being named one of the first Purdue Distinguished Women Scholars.



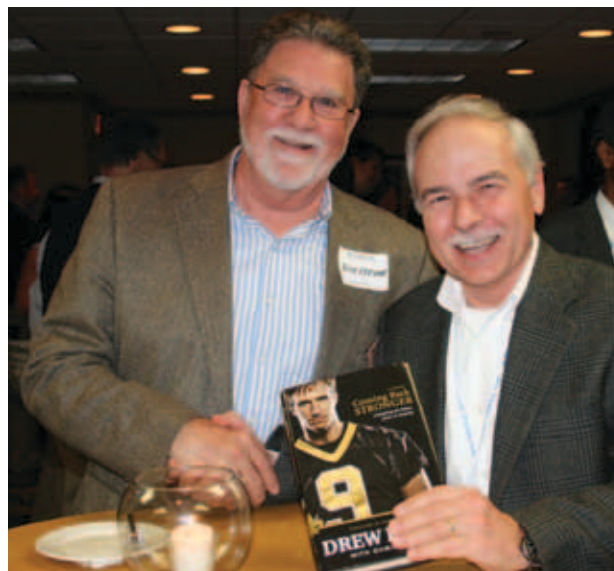
(L to R) Jimerson, Mizimakoski, Svensson, Simmons

Walgreens Supports Diversity

On February 8, 2011, Walgreens representatives Cathy Simmons (BS 1998) and Stevan Mizimakoski (BS 1999) presented Dean Craig Svensson and Ms. Jackie Jimerson with a check for \$10,000 to aid in the College's efforts to increase diversity among student pharmacists. A portion of the money will support a Walgreens Diversity Scholarship presented to a student selected by the College whose efforts have raised awareness in diversity and community outreach. The remainder of the money will support the College's Multicultural programs to develop, implement and support programs that have a positive impact on diversity.

AAPS Annual Meeting

The College of Pharmacy visited New Orleans, Louisiana, on November 14, 2010 to host an alumni and friends reception during the AAPS annual meeting. Seventy-five guests enjoyed the Cajun cuisine at the reception held at the Hilton Riverside. Dean Craig Svensson gained everyone's attention by playing "Hail Purdue" on his cellular phone before welcoming the group and giving a brief update on the College. Drs. Steve Byrn, Liz Topp, Rodolfo Pinal and Greg Knipp gladly welcomed all of our alumni and friends.



Nick Kerkhof (BS 1971, PhD 1975) congratulates Bill Brochu (PhD 1974) on his door prize, an autographed copy of Coming Back Stronger: Unleashing the Hidden Power of Adversity written by Drew Brees

ALUMNI, STAFF & STUDENT ACTIVITIES



Pon

Tiffany Pon Receives ASHP and IPA Awards

The 2010-2011 **American Society of Health-System Pharmacists (ASHP) Student Leadership Award** was presented to recent graduate Tiffany Pon (PharmD 2011). The ASHP award program recognizes students with an interest in pharmacy practice in health-systems who have demonstrated leadership ability and celebrates the contributions of students who represent the very best attributes and accomplishments of ASHP student members. ASHP offers up to twelve awards annually to pharmacy students in the second through fourth professional years.

Pon has served in various leadership roles including President of the Purdue Student Society of Health-System Pharmacy, and at the national level on the ASHP Student Society Development Advisory Group. Outstanding achievements also include being appointed as a member of Phi Lambda Sigma and Rho Chi. Her health-system pharmacy experiences include a current role as a medication reconciliation technician for a major teaching institution and career interests in emergency medicine and cardiology.

Pon also received the **Joseph E. McSoley Scholarship Award** presented by the Indiana Pharmacists Alliance (IPA) during its spring meeting held on April 16, 2011 in Indianapolis.

Pharmacy Women for Purdue

The annual spring session of the Pharmacy Women for Purdue was held on March 4, 2011 in the Buchanan Suite at Ross Ade Stadium. The event opened with a luncheon and welcome by Professor Jane Krause and Dr. Yaman Kaakeh.

Dean Craig Svensson then presented the 2011 **Pharmacy Women's Leadership Award** to Alisa Wright (BS 1987). She has over 20 years of experience in the pharmaceutical industry which includes formulation development of small and large molecules, leading new product launch teams, supply chain management, clinical trial materials manufacturing and packaging, and overall quality and business management. She has worked within several successful life sciences companies including Eli Lilly, Cook and Baxter Pharmaceutical Solutions. BioConvergence represents the fourth company she has founded. She has 15 years of contract service provider experience from both the sourcing and supplier perspectives. Wright is also active in improving science, math and technology education within Indiana and serves on several industry, economic development and education boards.

Following the award presentation, panelists provided their insight into the world of "Women in Pharmacy." Participating were Mary Baker (BS 1979), Jeannie Chaney (BS 1961), Winnie Landis (BS 1981), Tricia Lohr (PharmD 2005), Shirley Paddock (BS 1990), Cathy Simmons (BS 1998), and Alisa Wright (BS 1987). Topics included professional and family life balance, career paths and advancement, networking and mentoring. Several members of the audience were also called up to participate, including Kate Burke (BS 1974), Patty Elsner (PharmD 2001), and Rola Kaakeh (PharmD 2007). The afternoon was rounded out with informal conversations among the alumni and the students who attended.



Dean Svensson presents Alisa Wright with the Pharmacy Women's Leadership Award



Alumnae shared their business cards with the students to encourage future contact during the informal conversations

Pharmacy Spring Fling

The College of Pharmacy held its annual Spring Fling on Saturday, April 9, 2011. The weather was not the greatest, but the students made the most of it! This year's Spring Fling was a part of the University's Spring Fest. All pharmacy student organizations had interactive activities for young and old alike. Representatives from CVS were available to visit with pharmacy students, and we thank them for their generous sponsorship of the event.



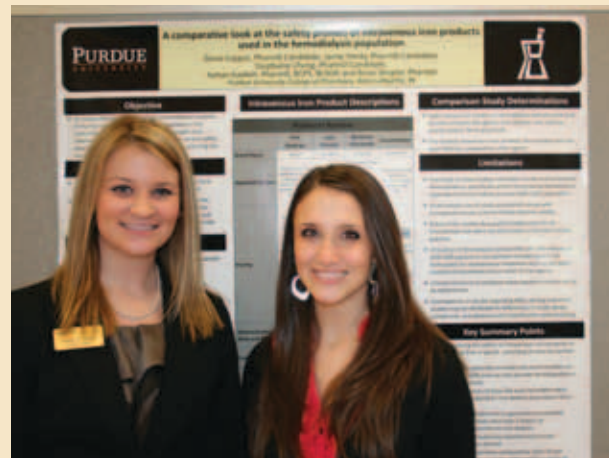
(L to R) CVS Representatives Rick King (BS 1980), Heather Bennett, Diana Poledna, and Ron Snow



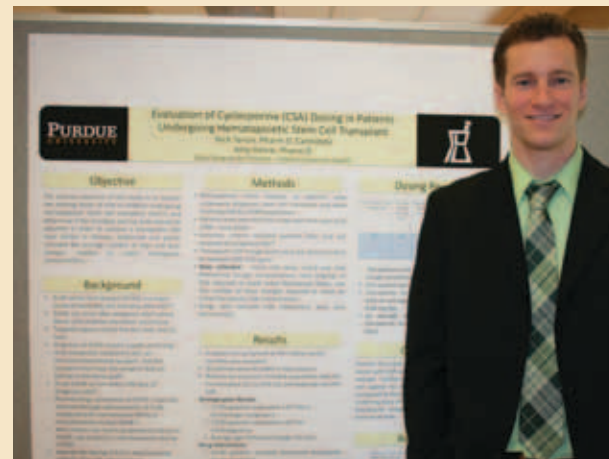
Kappa Epsilon

PharmD Poster Presentations

On April 29, 2011, PharmD candidates presented their projects in a poster session held in Stewart Center. This annual event allows interaction between students and viewers comprised of faculty, staff and third-professional year students.



Elena Coppol and Jamie Shelly (both PharmD 2011) pose with the poster they completed with Stephanie Cheng (PharmD 2011), Dr. Yaman Kaakeh and Dr. Brian Shepler entitled "A comparative look at the safety profiles of intravenous iron products used in the hemodialysis population"



Nick Tarvin (PharmD 2011) poses with the poster he completed with Amy Helvie (PharmD 2011) on "Evaluation of Cyclosporine (CSA) Dosing in Patients Undergoing Hematopoietic Stem Cell Transplant"

CLASS NOTES

1950-1959

Robert Sauté (MS 1952, PhD 1953) (*shown on the L*) was the 2010 recipient of the *Robert A. Kramer Lifetime Service Award by the Society of Cosmetic Chemists*. The award is given at the discretion of the Board of Directors to an individual who has given extraordinary service over the course of his or her membership in the organization.



1960-1969

William Slater (BS 1965) was ordained as a Minister of the Gospel of Jesus Christ on October 9, 2010. He now leads Bill Slater Ministries which focuses on pulpit supply and apologetics seminars (www.billslaterministries.org).

1970-1979



Carl "Fritz" Hayes (BS 1979) was elected Chair of the State of Florida Board of Pharmacy for 2011.

Jayne (Binz) McCliment (BS 1972, MS 1974) shares that she is the Director of Pharmacy at the Larue D. Carter Memorial Hospital in Indianapolis, IN.

Charles Sanders (BS 1978) is Vice President of Research and Chief Academic Officer for the Carle Foundation—which is composed of Carle Foundation, Carle Clinic, and Health Alliance Medical Plans—located in Urbana, IL. He and his wife, **Sarah** (BS 1978, PharmD 1980), now reside in Savoy, IL.

1980-1989

This past fall, **Lance Harding** (BS 1986) was promoted from Senior Director of Global Licensing to Vice President of Quality Assurance at Herbalife. Herbalife is a publicly traded company with over 4,000 employees that markets dietary supplements, foods and cosmetics in 74 countries around the world.

United States Senator Dan Coats has appointed **Michael McMains** (BS 1981) as his Indiana State Director and as such, Mike will serve as Chief of Staff for his Indiana offices and operations. During his time of government service, Mike will take a sabbatical from his law practice with Plews Shadley Racher & Braun LLP.

Amy (Kirchoff) Mitchell (BS 1984) shares that she has moved back to her hometown of Columbus, IN, and is managing the Target Pharmacy. She is glad to be back among longtime friends.

1990-1999

Tracy (Ach) Brooks (PharmD 1993) shares that she is pleased to get in on the ground floor of the new Manchester School of Pharmacy where she is an assistant professor and Vice Chair of the Department of Pharmacy Practice. The School, located in Fort Wayne, IN, anticipates admitting the first professional pharmacy class in August of 2012. She and her husband, Eric (BS 1992, Chemical Engineering), have three children: Kyle (9), Morgan (7), and Rachel (5).

Marcia Daily (BS 1995) married Vic Perrin on July 24, 2010 in the Smoky Mountains in Gatlinburg, TN.

Bernard and **Jennifer (McCullough) Deckard** (PharmD 1999) are proud to announce the arrival of their third child, Jack Edward, on January 10, 2011. He weighed 7 lbs 14 oz and was 20" long. He was welcomed home by Scarlett (3) and Graham (20 months).

Susan Graf (BS 1995) has been selected as a 2011 Healthcare Businesswomen's Association "Rising Star." In the May 2011 issue of *PharmaVOICE* (www.pharmavoice.com), the "Rising Star" award is presented to high-potential women who represent all facets and disciplines of the life-sciences industry. They are recognized by their companies for "significantly contributing to their organizations, exemplifying true leadership and acting as a role model for others, assisting those in subordinate or peer positions and being a team player, exhibiting dedication to the healthcare industry, and being a shining example of 'top talent' in their organizations." As Global Head of Strategic Evaluation and Due Diligence at Roche, Susan is accountable for the business, scientific, and technical assessment for licensing and acquisition deals.

Jennifer (Ross) Hoover (BS 1998) and her husband, Patrick, are the proud parents of their first child, Samuel Rhys, born on December 30, 2010. He weighed 8 lbs 11 oz and measured 20" long.



DAVID TESTERMAN (BS 1984) shares that he is President of the Board of Directors for Fountains of Hope International, a ministry that provides life-sustaining water treatment systems to people in need. He has been working a great deal in Haiti to assist in the cholera epidemic and personally installed treatment systems in Port Au Prince in December 2010. "Health and hygiene education are a big part of our purpose, so it would be very appropriate for fellow pharmacists to consider joining us on a future trip. We frequently partner with medical clinics, so often there are needs for a pharmacist to assist at the clinic, also." You can read more about the organization at www.fountainsofhope.org. In January 2011, David began a new position as Director of Pharmacy for the Indiana Office of Medicaid Policy and Planning.

Michael Johnson (BS 1998) was promoted to Manager of Retail Clinical Pharmacy Programs at Walgreens. He will be responsible for the operational management and expansion of all clinical-based medication therapy management (MTM) services at Walgreen community pharmacies.

Andrew (BS 1999, School of Management) and **Brenda (Franks) Knosp (PharmD 2001)** of Pleasanton, CA, are happy to announce the arrival of their second daughter, Kayla Lillian, on April 13, 2010.

Julie Koehler (PharmD 1997) is pleased to announce the birth of her second daughter, Allison Marie, on December 17, 2010. She is joined by big sister Lauren (3).



Carl and **Kate (Svendsen) Schumm (PharmD 1997)** are pleased to announce the birth of Andrew Henry born on August 19, 2010. He weighed 7 lbs



14 oz and was 21" long. Siblings Carsten (7), Ethan (5), and Abby (2) are happy to welcome him to the family (most of the time).

On World Health Day (April 7, 2011), **Vidya Swaminathan (PhD 1997)** was



awarded the 6th annual *Golden Apple Award* from Health Volunteers

Overseas (HVO) for her commitment to providing education and training in developing countries. Her six months as a Pfizer Global Health Fellow in Uganda where she worked for HVO

at Makerere University on their capacity-building and strengthening projects gave her a close-up view of healthcare challenges in the developing world. Vidya wrote an article about her experience overseas entitled "A Pharmaceutical Scientist on Assignment in Uganda" for HVO, and you can read that article in its entirety at www.pharmacy.purdue.edu/articles/2011-07-21.Swaminathan.

2000-Present

Nancy (Jawor) Costlow (PharmD 2003) writes that she and her husband, David (BS 2000, Electrical Engineering),



are enjoying life in Arizona with their children, Owen (5) and Kaylee (3). Nancy works

for Roadrunner Pharmacy, a veterinary specialty compounding pharmacy that serves the U.S. and Canada.



KARL DISQUE (BS 2001), a senior Anesthesia Resident at Rush University Hospital in Chicago, initially became interested in international medicine after the earthquake in Haiti last year. He decided to again take his skills across the globe to Ethiopia to help a country desperately in need of more effective medical care. He spent his last month of residency serving as an instructor for Ethiopia's first Nurse Anesthetists Master's program. To read more about his rewarding experience, please visit www.pharmacy.purdue.edu/articles/2011-05-25.Ethiopia.

Kristin (Hurt) Darin (PharmD 2004) was recently promoted to Research Assistant Professor in the Northwestern University Feinberg School of Medicine's Division of Infectious Diseases and Center for Global Health. Since 2007, she has provided training and education on HIV/AIDS to healthcare providers in Nigeria and Tanzania through the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) grant, as well as clinical oversight and pharmacology support to more than 40 affiliated HIV clinics across Nigeria. In addition, she provides clinical and pharmacy support to a rural clinic in South East Kenya and is involved with several U.S.-based and international HIV research projects, including a study evaluating a pharmacy-based rapid HIV testing model.

Autumn and **Samuel Durham** (PharmD 2010) welcomed their first child, Grace Emma, into the world on January 13, 2011.

Derek Fields (PharmD 2004) and his wife are pleased to announce the birth of their son, Aden James, on December 22, 2010. He weighed 7 lbs 7 oz and measured 20" long.



Photo by Richardson's Studio

Bradley Goedeker (PharmD 2007) and his wife, Marissa, welcomed their first child on March 26, 2011. Holly Marie weighed 4 lbs 3 oz.

Matt (BS 2003, Civil Engineering) and **Kari (Nieman) Hollowell**



(PharmD 2009) announce the birth of their first child, Olivia Grace, born July 22,

2010. She weighed 8 lbs 8 oz and measured 22 1/2" long.

Nicolas and **Charlene (Mounsamruath)**



Keller (PharmD 2001) welcomed their daughter, Ciana Mali, into the world on May 25, 2010. She weighed 8 lbs 11 oz and measured 20 1/2".

Farrah Mathas (PharmD 2010)



married Todd Chinderle on December 31, 2010, in St. Thomas, U.S. Virgin Islands.

Photo by Anna Lynch McClary Photography, www.annalynchmcclary.com

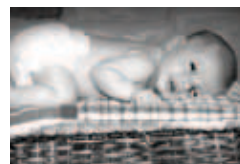
Chris (BS 1995, Aviation Technology) and **Alice (Receveur) McCulloch**



(PharmD 2002) celebrated the arrival of their son, Will Raleigh, on January 13,

2011. He weighed 8 lbs 2 oz and measured 21" long.

Josh and **Carolyn (Roedel) Morton** (PharmD 2003) celebrated the birth of their son, Jude Christopher, on February 4, 2011. He weighed 6 lbs



12 oz and measured 19 1/2" long. He joins big sister, Ella (2), who adores

him. Carrie is the Ambulatory Pharmacy Manager at Deaconess Health System in Evansville, IN.

Theodore and **Lindsey (Beery)**

Schrader (PharmD 2006), along with their son Keaton (3), welcomed a new



addition to their family. Clayton Timothy was born on September 7, 2010, weighing 6 lbs 15 oz and measuring 20 1/2" long.

Sarah Steinhardt (PharmD 2003)



has been named the 2011-12 Congressional Healthcare Policy Fellow. The fellow program, which focuses on legislative policy analysis and development, is sponsored by Virginia Commonwealth University School of Pharmacy in collaboration with the American College of Clinical Pharmacy and the American Society of Health-System Pharmacists. In addition to her Purdue pharmacy degree, Sarah earned a law degree with a health law concentration from Indiana University School of Law in Indianapolis (2009) and a Master of Science in pharmacy administration from the University of Pittsburgh School of Pharmacy (2010). She most recently is a pharmacy practice administration resident at the University of Pittsburgh Medical Center.

Katrina and Trent Towne (both PharmD 2006) welcomed a son into the world on October 22, 2010. Peyton weighed 9 lbs 9 oz and measured 21 ½" long. His big sister, Molly (20 months), can't wait to play with him.

Brent (BS 2005, College of Science) and **Elizabeth (Hunter) VanHook** (PharmD 2007) welcomed their daughter



into the world on December 23, 2010. Grace Ann weighed 4 lbs 10 oz and measured 18 ½" long.

Supakit Wongwiwatthananutit (MS 1998, PhD 2001) has been promoted and tenured to Associate Professor of Pharmacy Practice at the University of Hawaii at Hilo College of Pharmacy.

IN MEMORIAM

LaVonne Anson (BS 1948)
John Batterton (BS 1948)
Thomas Gregorovich (BS 1962)
Donald Hughel (BS 1953)
George Paine (BS 1942)
James Potts (BS 1956)
Ralph "Stan" Pressler (BS 1949)

BEG YOUR PARDON

Herbert Lieberman (PhD 1955) and his wife, Helen, were inadvertently omitted from the "Donor Honor Roll" in the last issue of *The Purdue Pharmacist* (Fall & Winter 2010; Volume 86, Issue 2). The College apologizes for this oversight and extends its gratitude to the Liebermans for their continued support.

While attending the ASHP Midyear meeting, (shown left to right) **MONICA RANDOLPH, MINKEY WUNGWATTANA, ELENA COPPOL, AND JAMIE SHELLY (ALL PHARMD 2011)** thought it would be fun to attend the television game show "Let's Make a Deal." Monica and Elena were actually picked to play for a prize and had the opportunity to stand next to show host Wayne Brady, who gave a shout-out to Purdue. The episode aired on April 14, 2011 on CBS.



Update your info

Moved?
Started a new job? Retired?
Just Married?
Had a baby?

Share your news with us by completing the online form at <http://www.pharmacy.purdue.edu/update>

OR

MAIL TO: College of Pharmacy
Purdue University
Heine Pharmacy Building,
Room 104
575 Stadium Mall Drive
West Lafayette, IN 47907-2091
FAX: (765) 494-9587

We encourage you to update your contact information so we can continue to keep you informed about the College of Pharmacy. You will be given the opportunity to advise us whether or not to share your news in *The Purdue Pharmacist*. Class Notes only reports those events that have actually occurred; this precludes engagements and pregnancies. We also do not report divorces, and we reserve the editorial discretionary veto. If you would like to submit a photograph (i.e., wedding and baby portraits), please mail them to the above address or email them to the Editor; they will be used based on appropriateness and space availability and will not be returned. Please direct Class Notes inquiries to Amy Chandler, Editor, at chandler@purdue.edu.



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HOMECOMING 2011 SATURDAY, OCTOBER 22

PURDUE TRADITIONS



BRINGING BOILERMAKERS HOME



- // Family-friendly celebration, three hours before the game on Stadium Mall
- // Stage performances, food vendors and activity tents
- // Homecoming Football game Purdue vs. Illinois

For information on Purdue Pharmacy activities, visit
www.purdue.edu/homecoming

PURDUE
UNIVERSITY

PURDUE P ALUMNI