The School of Pharmacy and Pharmaceutical Sciences

2006 annual report
The School of Pharmacy and Pharmaceutical Sciences has a rich tradition of excellence, having been established in 1884. Various ranking tools, such as the U.S. News and World Report assessment, consistently place our program among the top five in the nation. With over 8,000 living alumni, an outstanding student body, excellent faculty, active partnerships with industrial and professional leaders, and a strong university environment, we are positioned to continue to be leaders in the education of pharmacists and pharmaceutical scientists. The foundation for such a strong pharmacy program has clearly been laid and strengthened by those who have served before me, and it is Purdue’s legacy of excellence that attracted me to this fine institution and motivates me to continue our path toward preeminence through our strategic goals. I am honored to serve as Dean of the College of Pharmacy, Nursing and Health Sciences.

Upon my arrival on campus this past fall, I was eager to meet with many of our dedicated alumni and friends of the School through the Dean’s Executive Forum. This academic elective course provides students in their second and third professional years the opportunity to engage with leaders in the varied pharmacy profession. Although I was not present for the lectures presented this past academic year, I am pleased to acknowledge those individuals for their loyalty and generosity. Our students in the Fall of 2005 had the opportunity to meet with John Buckingham (BS 1976), Timothy Franson, Alex Kelly (BS 1989), Nicholas Popovich, Bill Sonner, and Larry Wahlstrom. Students met with George Brewer (BS 1952, HDR 2004), Charles Goodall (BS 1984), Ed Langston (BS 1967), James Mannion (MS 1979, PhD 1982), Susan Meyer (MS 1985, PhD 1987), Marvin Richardson (BS 1980), and George Spratto in the Spring of 2006. We are continually grateful for the support of these guests.

I am also pleased to recognize the 2005 Distinguished Alumni for their outstanding achievement in professional and scientific endeavors. Congratulations to Maria Bowman-Horner (BS 1981), James Eskew (BS 1976), Sumon Sakolchai (PhD 1987), and Donna Wall (PharmD 1993). Clyde Cole was the deserving recipient of the Friend of Pharmacy Award. Furthermore, the School was proud to present the first-ever Career Achievement Award in the Fall of 2005. Recipients must distinguish themselves through a lifetime of exemplary service in the field of pharmacy and service to Purdue. Nominations for the award are solicited from faculty, staff, and alumni of the School, and the Dean, in consultation with the Executive Committee, selects the recipients. Gloria Neimeyer Francke (BS 1942) has truly demonstrated herself as a pioneer and role model for women in pharmacy, and we were delighted to bestow upon her this highest award.

As with other Colleges at Purdue University, we strive for excellence in our triad of responsibilities: learning, discovery, and engagement. Our world-class faculty have developed curricula that represent the cutting-edge of training for the profession of pharmacy and in the pharmaceutical sciences. Utilizing educational technology and diverse approaches to teaching, our programs afford students the opportunity to learn fundamental principles and practical applications. Students also have the opportunity to learn from faculty contributing to emerging trends in practice and science. Through programs in drug discovery and development, molecular mechanisms of disease, innovative pharmacy practice, and assessment of the impact of practice models on patient outcome, our faculty are engaged in meeting pressing needs in society. The departments also are engaged in collaborative research projects and continue to expand our involvement with international initiatives. The many successes of our students and faculty are apparent in the following pages of this report.

During my first months here at Purdue, I have had the opportunity to see up close a program that I have long admired from afar. I continue to be impressed by the dedication of our faculty and staff, the outstanding student body, and the deep commitment of our alumni to Purdue Pharmacy. Their collective enthusiasm provides every confidence that we will continue and expand upon our long tradition of excellence.

Hail Purdue!

Craig K. Svensson
Dean
This chart represents positions held during the 2006-07 academic year.
development update

Each year, we take a moment to reflect on our many accomplishments, and this past year has been quite successful. Although it was a year of transition, we find ourselves stronger than ever. I must begin by thanking Dr. John Pezzuto for his dedication to helping us attain our goals during his tenure as dean of the School of Pharmacy and Pharmaceutical Sciences. The following accomplishments would not have been possible without his cooperation, and for that we are grateful for his service to Purdue. I also want to welcome Dr. Craig Svensson as our new dean. He comes to us with great experience and enthusiasm, and I am sure each of you will find him motivating and enjoy becoming acquainted with him.

We are pleased to highlight some of the many contributions made to the School for the 2005-06 fiscal year:

- At the encouragement of their nephew, Heinz Foss, an endowment bequest was established for the School in memory of Rudolph H. and Maria J. Foss. The funds will provide discretionary support to the Head of the Department of Medicinal Chemistry and Molecular Pharmacology. Dr. Foss served on the faculty at the School from 1966 to 1982. He served as Head of MCMC from 1968-69 and 1974-79.

- The Dr. Robert V. Evanson Endowment Fund was established through the generous donation of Terry Cole (BS 1963, MS 1964) in recognition of Dr. Evanson’s many years of scholarship and service to the School. The endowment will be used for travel expenses for Pharmacy Administration graduate students attending and/or presenting at certain meetings and conferences.

- The Stanley M. Shaw Fund in Nuclear Pharmacy was established by Gregory Hiatt (BS 1979), George Hinkle (BS 1975, MS 1977), Lisa Koss (BS 1990), Stephen Piepenbrink (BS 1982), Kara Duncan Weatherman (PharmD 1994), and other alumni and friends of the School in honor of Professor Stan Shaw upon the occasion of his retirement from the faculty. The endowment will provide academic merit scholarships for students pursuing the Doctor of Pharmacy degree or for students with a degree in pharmacy who are pursuing a graduate degree in nuclear pharmacy.

- Through a generous gift made by Gregg (PhD 1973) and Jeanne Richmond, the School is pleased to offer The Gregg and Jeanne Richmond Graduate Support Fund for Industrial and Physical Pharmacy. This endowment will be used for graduate scholarships, research, travel to conferences, equipment, or to supplement graduate assistantships or fellowships in the Department.

- The McManus Leadership Scholarship was established by Michael (BS 1981) and Cheryl (AAS 1980, Nursing; BA 1981, Liberal Arts) McManus for scholarships for students who are enrolled in...
the Pre-Pharmacy program, or students pursuing the Doctor of Pharmacy degree. Preference will be given to those who participate in the Purdue Musical Organizations as a full-time member of the Varsity Glee Club or the Purduettes as the McMains believe that this demonstrates campus leadership, service to the University, and strength of character.

- The School was saddened by the passing of Professor Dane Kildsig in June, 2006. In recognition of Dane’s dedication and leadership in the field of industrial pharmacy throughout his career, a group of his former students spearheaded an effort to honor Dane prior to his death by establishing The Dane Kildsig Graduate Scholarship in Industrial and Physical Pharmacy. The fundraising was so successful that it was decided to raise additional funds in order to qualify for a Goodwin Chair match. The Goodwin funds are used to match dollar for dollar every new $750,000 gift, and the combined total of $1.5 million funds a chair. The School is pleased to announce that we reached our goal of $750,000, due in large part to generous gifts from SSCI, Inc., and The Chao Center for Industrial Pharmacy and Contract Manufacturing, thus establishing the Dr. Dane O. Kildsig Chair in Industrial and Physical Pharmacy.

- For many years, the student lounge in the Heine Pharmacy Building has hosted countless weary students, but it had received only minor renovations in its 35 year history. With generous support from the Hook Drug Foundation in Indianapolis, Jim and JeanAnne (BS 1961) Chaney, bequests from the Allan and Hester Collins (parents of Carolyn Collins, BS 1970) and William and Janet (BS 1938) Strang estates, Class Gifts from the School of Pharmacy Classes of 2004 and 2005, Rho Chi, and matching support from Bob (BS 1951) and Sondra Brown, the renovations to the lounge began in May, 2006. The new space, known as The Hook Drug Foundation Student Lounge, is sure to enhance the development of student interactions, both socially and scholastically.

- It was announced that through a generous donation by Stan (BS 1955) and Charlotte Beck, the School will have the opportunity to create an attractive outdoor plaza for hosting receptions and other gatherings. The Beck Plaza will be located where the greenhouse once stood on the side of the Heine Pharmacy Building.

- Funds were raised for the much needed renovations to the pharmacy practice laboratory in the Heine Pharmacy Building. The new CVS Pharmacy Practice Laboratory will permit the use of the latest technology and provide space for an educational experience for introducing our students to the practice of pharmacy. The development of this lab was made possible through the generous gifts of CVS/pharmacy, Kroger Company, Pharma-Card, Inc., and Walgreens, as well as Bob (BS 1951) and Sondra Brown, Dick (BS 1973) and Susan Brychell, Jim and JeanAnne (BS 1961) Chaney, Tom and Karen (BS 1978) Jeppson, Marvin (BS 1980) and Melanie Richardson, Bernie and Judy (both BS 1966) Williams, and many more alumni and friends of the School.

The School also gratefully acknowledges our Corporate Partners: Albertson’s, Inc./Osco Drug; Cardinal Health; The Chao Center for Industrial Pharmacy and Contract Manufacturing; CVS Corporation; Eli Lilly & Company; Kroger Company; Mallinckrodt; Mylan Pharmaceuticals, Inc.; Pfizer, Inc.; SSCI, Inc.; and Walgreen Company. This program, established in 2001, gives corporate friends the opportunity to allocate funds to several areas within the School throughout the year. Corporate Partner annual contributions support events such as the Scholarship Reception and the Graduation Banquet, aid in the advancement of the Multicultural Programs, and assist various student organizations. The fund also supports the annual BoileRx Golf Classic which raised over $20,000 for scholarships in May, 2006. The School truly appreciates the generosity of these companies and is proud of our continued partnerships.

We remain proud that 20.73 percent of the Pharmacy alumni make an annual gift to Purdue University. Percent participation matters, so regardless of size, your gift makes a significant impact on the education of our students. To continue to achieve excellence, we count on the support from each of our alumni. If you would like more information about making a gift to the School, please contact me at (765) 494-0501 or jcsmith@purdue.edu, and I will be happy to assist you.

On behalf of the School of Pharmacy and Pharmaceutical Sciences, please accept our most sincere gratitude for your generosity. It is through your support that we are capable of remaining a leader in pharmacy education.

Sincerely,
Christopher Smith
Director of Advancement
industrial and physical pharmacy
The Department of Industrial and Physical Pharmacy (IPPH) continues to implement its Strategic Plan. As with the University plan, IPPH’s plan is aimed at preeminence. Significant progress has been made in achieving the goals of the IPPH plan and establishing IPPH as the preeminent department of its kind in the world.

Highlights for 2005-06 include:

• The funding of an NSF Engineering Research Center focused on Engineering and Pharmaceutical Sciences (Structured Organic Composites). The IPPH department is providing the pharmaceutical expertise for this Center. Of the 146 letters of intent, only 5 Centers were funded.

• IPPH also continues to develop and expand its joint projects with Biomedical Engineering (BME). Dr. Kinam Park’s work in drug delivery and his collaboration with scientists in BME is supporting the establishment of one of the leading delivery programs in the world at Purdue University. Additionally, collaboration of Dr. Steve Byrn’s group with the scientists in BME and the Center for Paralysis Research has provided some exciting new lead molecules for the treatment of spinal cord injuries.

• Finally, the IPPH department was able to accomplish a coup in hiring an NIH supported professor from Rutgers University. Dr. Gregory Knipp is one of the leading young scientists in the area of mechanism of drug transport across membranes.

Drug transport is an important emerging area since many new drug candidates are very insoluble and need assistance in transport into the blood stream.

IPPH continues to be extensively involved in interdisciplinary activities and participates in at least 5 centers. These Centers include CAMP (Consortium for the Advancement of Manufacturing of Pharmaceuticals), joint with MIT; the 21st Century program, joint with Purdue’s School of Chemical Engineering; and CPPR (Dane O. Kildsig Center for Pharmaceutical Processing Research), joint with UConn, University of Puerto Rico, and the University of Minnesota.

Due to an increase in sponsored funding, the department has been able to finance new research space. In January, Drs. Byrn, Park, and Knipp moved into the 1205 Kent Avenue facility located in the Purdue Research Park. This building has excellent chemistry facilities and convenient access to the Purdue Research Park.

National recognition continues at a high level. Dr. Kinam Park was appointed as a permanent member of the NIH Biomedical Engineering study section and Dr. Ken Morris was appointed as the chair of the FDA Pharmaceutical Sciences Advisory Committee.

Graduates with IPPH specialization are in good demand despite the tight pharmaceutical job market. In engagement, there is very significant support for IPPH programs in a broad range of areas. Feedback from alumni indicates significant enthusiasm, especially for the pharmaceutical engineering programs. IPPH faculty participated in a number of start-up companies including Andara which is working in the area of treatments of spinal injury. In the PharmD program, the revamped sterile product course was well received by the students and is meeting an important new need as increased federal requirements for sterile product compounding are phased in. The Division of Nuclear Pharmacy continues to offer the leading certificate program in the country. Strong NIH support in this area also continues.

IPPH does not plan to rest on its accomplishments. Instead, we continue to strive to execute the remaining goals of our strategic plan. Emphasis in 2006-07 will be placed on developing the programs outlined above, especially the ERC as well as developing research programs on nanoparticulate pharmaceuticals and expanding our linkages to the various schools of engineering at Purdue.
medicinal chemistry and molecular pharmacology
It has been ten years since the Department of Medicinal Chemistry and Molecular Pharmacology was created from the merger of Medicinal Chemistry & Pharmacognosy and Pharmacology & Toxicology in July 1996. Since that time, the Department has undergone a remarkable transformation. The faculty has expanded to 28 members, 14 of whom have been recruited since the merger. The preponderant research theme involves the interactions of molecules in biological systems, and the research programs in the Department are remarkably diverse, ranging from computational studies to drug design and mechanisms of action to pathways of cellular regulation. Numerous collaborative research projects are underway and reflect the synergy that results from chemists and biologists working in the same department. Graduate students develop an appreciation of both chemistry and biology regardless of their areas of specialization. The professional courses taught by our faculty reflect the Department’s integrated view of medicinal chemistry and pharmacology applied to existing and new drugs. The conclusion a decade later is that the merger was an extraordinarily successful “experiment.”

A highlight for the year was the recruitment of a new faculty member to strengthen our efforts in computational chemistry. Markus Lill studied physics at universities in Germany and England and received his PhD in theoretical biophysics from the Max-Planck Institute for Biophysics, Frankfurt. After completing postdoctoral training at the Biographics Laboratory in Basel, he served as a lecturer in the Department of Pharmacy for three years at the University of Basel before coming to Purdue. His research interests focus on the computational analysis of ligand-protein binding and the development of novel approaches to molecular modeling. His experience in developing and applying computational methods to the investigation of molecular systems of pharmacologic interest fits very well with the molecular focus of the Department.

Graduate education continues as a top priority for the Department. Our current graduate enrollment numbers 88 students, 25 of whom are enrolled in one of Purdue’s interdisciplinary graduate programs. Approximately 20% of MCMP graduate students are supported by competitive fellowships. This past year we awarded seven PhD degrees and two MS degrees. Thirteen new students were accepted into the MCMP graduate program this fall; we anticipate that additional Purdue Interdisciplinary Life Sciences (PULSe) students will be joining faculty laboratories when those students select research laboratories later this year. Our faculty continue to provide an outstanding training environment that prepares our students well for future scientific careers.
pharmacy practice
The Department of Pharmacy Practice enjoyed another banner year in 2005-06. Purdue University Pharmacy Continuing Education (PUPCE), under the direction of Bob Bennett, became the first pharmacy program in the United States to be accredited by the Accreditation Council for Continuing Medical Education. PUPCE is the only pharmacy program in the U.S. to receive this accreditation. Given the pre-existing accreditation programs for pharmacist and nursing continuing education that existed within the College, PUPCE can now accredit programming for a wide variety of health professionals, making it very attractive to industrial sponsors and educational co-sponsors. PUPCE is currently working with four groups to provide inter-professional educational programming.

Our involvement with international initiatives continues to be strong. Dr. Julie Everett assumed her full-time role as our faculty liaison in Kenya, with strong support from Dr. Ellen Schellhase and Dr. Chris Scott here at Purdue. Tragically, Julie died after a brief illness while in Kenya and will be missed greatly by her family, friends, colleagues, and students.

Student interest in the Kenya program remains high, and we are very proud of the advances that have been made in the provision of patient care and progressive pharmacy services as a result of our affiliation with the Indiana University School of Medicine and Moi University in Eldoret, Kenya. During 2005-06, Dr. Judy Chen also provided assistance for the program, serving for two months as a volunteer faculty preceptor.

Dr. Brian Overholser returned to Europe where he has been actively involved in developing collaborative programs with the European Pharmaceutical Students’ Association. Bob Bennett has continued his active involvement with the International Nontraditional Doctor of Pharmacy Program in Dubai, U.A.E. Our first 15 students graduated from the program last year. A large number of students are currently enrolled in this program, as the demand continues to grow. PharmD graduate Yaman Kaakeh, and her sister, PharmD candidate Rola Kaakeh, have been working with various faculty members to develop a Doctor of Pharmacy degree program at Aleppo University in Damascus, Syria.

In addition, Dr. Matt Murawski served as dissertation reviewer for the doctoral research of Kari Linden of the Department of Pharmacology and Toxicology, University of Helsinki, Finland. Dr. Jim Tisdale spent two weeks as a visiting professor at Misr International University in Cairo, Egypt. His work involved teaching cardiovascular pharmacology to pharmacy students and providing a research seminar for students and faculty. Future initiatives involving China, Thailand, and Australia are on the horizon. We are very proud of the increasing involvement of the Purdue University School of Pharmacy and Pharmaceutical Sciences and, in particular, the Department of Pharmacy Practice, in international initiatives.

The PharmD/MSIA program conducted in conjunction with the Krannert School of Management enrolled its first students. A number of students have expressed interest in this progressive dual degree program. Dr. Joseph Thomas was instrumental in program development.

Pharmacy Practice involvement with postdoctoral training programs has also continued to increase. Dr. Chris Scott was successful in achieving accreditation for both the Wishard Health Services/Purdue University pharmacy practice (PGY1) residency and the Clarian/Purdue critical care (PGY2) specialty residencies. Dr. Deanna Kania has developed an ambulatory care specialty residency (PGY2) with a strong emphasis on teaching. Dr. Christy Nash has developed two community pharmacy practice (PGY1) residencies, focused on ambulatory care in patients with diabetes and cardiovascular disease states.

Significant gratitude is expressed to Dr. Kim Plake for her seemingly tireless work to raise funds to facilitate renovation of the Pharmacy Practice Laboratory. Kim’s work will enable the School to construct a state-of-the-art laboratory that will significantly augment the educational process for our students.
**Pharmacy Admissions Data**

### 2006 Applications

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<th>Total Applications</th>
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<tr>
<td>Purdue/WL</td>
<td>198</td>
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<tr>
<td>Other Indiana Campuses</td>
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<tr>
<td>Ball State</td>
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<tr>
<td>Butler</td>
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</tr>
<tr>
<td>DePauw</td>
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<tr>
<td>Franklin</td>
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<tr>
<td>ISU</td>
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<tr>
<td>IU-Bloomington</td>
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<tr>
<td>IU-East</td>
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<tr>
<td>IU-Kokomo</td>
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<tr>
<td>IU-NW</td>
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<tr>
<td>IU-PU/FW</td>
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<td>IUPUI</td>
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<tr>
<td>IU-SB</td>
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<td>IU-SE</td>
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<td>PU-Calumet</td>
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<td>PU-NC</td>
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<tr>
<td>U-Evansville</td>
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<tr>
<td>Notre Dame</td>
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<tr>
<td>USI</td>
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<tr>
<td>Vincennes</td>
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<tr>
<td>Wabash</td>
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<tr>
<td>Out-of-State Colleges</td>
<td>634</td>
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</tbody>
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### Gender

- Females (563)
- Males (377)

### Residence

- Out-of-State (530)
- International (160)
- Indiana Resident (250)

### Ethnicity

- Caucasian American (422)
- African American (45)
- Asian American (202)
- Hispanic American (48)
- Indian/Native American (3)
- Other American/Unknown (60)

### Out-of-State Colleges

- 159
  - Purdue/WL 105
  - Other Indiana Campuses 38
  - Ball State 4
  - IU-Bloomington 6
  - IUPU-FW 7
  - IUPUI 11
  - PU-Calumet 3
  - PU-NC 2
  - U-Evansville 1
  - USI 1
  - Vincennes 3
  - Out-of-State Colleges 16

#### Average Age

23 - (Range 19 - 47)

#### Cum. GPA Average

3.61 - (Range 3.04 - 4.00)
### Pharm.D. Graduates

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<tr>
<th></th>
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<th>Percent</th>
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<tr>
<td>Responses</td>
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<tr>
<td>Committed Response</td>
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<tr>
<td>Employed</td>
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<td>Continuing Education*</td>
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<td>Undecided/Seeking Employment</td>
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<tr>
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<td>Chain (Retail)</td>
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<td>$99,165</td>
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<td>1.35%</td>
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<td>$83,000 - $97,500</td>
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<td>14.86%</td>
<td>$89,314</td>
<td>$62,500 - $120,000</td>
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<td>Long Term Care</td>
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<td>0.68%</td>
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<td>$95,000**</td>
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<tr>
<td>Nuclear</td>
<td>5</td>
<td>3.38%</td>
<td>$93,400</td>
<td>$90,000 - $98,000</td>
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<tr>
<td>Ambulatory Clinic</td>
<td>1</td>
<td>0.68%</td>
<td></td>
<td>$62,000**</td>
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Employment Salary Average $96,395

* residency/fellowship/graduate or professional school

** only one salary reported

### BSPS Graduates

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<td>100.00%</td>
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<tr>
<td>Responses</td>
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<tr>
<td>Employed</td>
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<td>42.86%</td>
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<tr>
<td>Continuing Education</td>
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<td>32.14%</td>
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<tr>
<td>Seeking/Undecided</td>
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<td>25.00%</td>
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<tr>
<th>Employment Type</th>
<th>Number</th>
<th>Salary Range</th>
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<tbody>
<tr>
<td>Industry</td>
<td>11</td>
<td>$40,000 - $55,016</td>
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<tr>
<td>(Average Salary - $50,803)</td>
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<tr>
<td>Internship</td>
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Commitment Location

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<td>Indiana</td>
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<tr>
<td>Other</td>
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</table>
Kyle E. Hultgren (PharmD 2006)
Pharmacist
Clarian Health Partners
University Hospital, Indianapolis

“When I think about Purdue, I remember more than just classes, notes, professors, and tests. I think about the people I met, the places we went, and all of the fun things that we did together. I will always be grateful and proud of my Purdue PharmD, but when I think about why I give back to the program, I always think about the people who made it possible.”
Industrial and Physical Pharmacy

**Sanjeev Balu, Ph.D.**  
Major Professor: Joseph Thomas, III  
Thesis Title: Cost of Treatment of Hypertension in the United States  
Post-graduation destination: Senior Pharmacoeconomist/Outcomes Scientist, ABT Associates, Lexington, MA  
Home Origin: India

**Murtuza Bharmal, Ph.D.**  
Major Professor: Joseph Thomas, III  
Thesis Title: Prevalence of Dementia and Medication Use Patterns among Indiana Medicaid Beneficiaries  
Post-graduation destination: Senior Scientist, Quintiles, Falls Church, VA  
Home Origin: India

**Rong Stephanie Huang, Ph.D.**  
Major Professors: Kevin Sowinski and D.J. Murry  
Thesis Title: Drug Efflux Transporters and Vincristine  
Post-graduation destination: post-doc, Department of Medicine, University of Chicago, Chicago, IL  
Home Origin: PR China

**Seong Hoon Jeong, Ph.D.**  
Major Professor: Kinam Park  
Thesis Title: Development of sustained release fast-melting tablets using ion-exchange resin complexes  
Post-graduation destination: Wyeth Research, Pearl River, NY  
Home Origin: South Korea

**Dipen Pramod Chemburkar, M.S.**  
Chris Paul Franco, M.S.  
Charla Kaye Hart, M.S.  
Mico Trkulja, M.S.  
Richard Jerome Unger, Jr., M.S.  
Michael Vliet, M.S.

**Medicinal Chemistry and Molecular Pharmacology**

**Jamie Lynne Doran, M.S.**  
Major Professor: Jean-Christophe Rochet  
Thesis Title: DJ-1 and Alpha-Synuclein: A Study of Gene Products Involved in Familial Parkinson’s Disease  
Post-graduation destination: Non-clinical Project Mgr., MED Institute, West Lafayette, IN  
Home Origin: Ontario, Canada

**Brian Scott Henriksen, Ph.D.**  
Major Professor: Richard A. Gibbs  
Thesis Title: AFC Analogs as Icmt Inhibitors  
Post-graduation destination: post-doc at The Scripps Research Institute, La Jolla, CA  
Home Origin: Nebraska

**Alexandra Smaranda Ioanoviciu, Ph.D.**  
Major Professor: Mark S. Cushman  
Thesis Title: New Norindenisoquinolines, Indenoisoquinolinium Salts, and S. 11-Diketoidenisoquinolines: Design and Synthesis of Topoisomerase I Inhibitors as Anticancer Drugs  
Post-graduation destination: post-doc at UCSF, San Francisco, CA  
Home Origin: Romania

**Matthew Jay McFarland, Ph.D.**  
Major Professor: Eric L. Barker  
Thesis Title: A Role for Detergen-Resistant Membrane Microdomains in the Uptake and Recycling of the Endogenous Cannabinoid Anandamide  
Post-graduation destination: currently interviewing for post-doc positions  
Home Origin: Ohio

**Chau Hyunh Nguyen, Ph.D.**  
Major Professor: Val J. Watts  
Thesis Title: A Novel Role for Dexras1 in Signal Transduction  
Post-graduation destination: post-doc at Western Ontario University, London, Ontario, Canada  
Home Origin: Ontario, Canada

**Sarah Elizabeth Pitfield, M.S.**  
Major Professor: David J. Riese, II  
Thesis Title: Phosphorylation of ErbB4 on Tyrosine 1056 is Critical for ErbB4 Coupling to Inhibition of Colony Formation by Human Mammary Cell Lines  
Post-graduation destination: teaching credential UC Davis, Davis, CA  
Home Origin: California

**Kellie Jo Novotny White, Ph.D.**  
Major Professor: Eric L. Barker  
Thesis Title: Exploration into the Substrate Permeation Pathway of the Serotonin Transporter  
Post-graduation destination: post-doc, Emory University, Atlanta, GA  
Home Origin: Nebraska

**Xiangshu Xiao, Ph.D.**  
Major Professor: Mark S. Cushman  
Thesis Title: Chemistry and Biology of Topoisomerase I Inhibitors: Indenoisoquinolines and Camptothecins  
Post-graduation destination: post-doc, University of Texas Southwestern Medical Center, Dallas, TX  
Home Origin: PR China

Pharmacy Practice

**Sanjeev Balu, Ph.D.**  
Major Professor: Joseph Thomas, III  
Thesis Title: Cost of Treatment of Hypertension in the United States  
Post-graduation destination: Senior Pharmacoeconomist/Outcomes Scientist, ABT Associates, Lexington, MA  
Home Origin: India

**Murtuza Bharmal, Ph.D.**  
Major Professor: Joseph Thomas, III  
Thesis Title: Prevalence of Dementia and Medication Use Patterns among Indiana Medicaid Beneficiaries  
Post-graduation destination: Senior Scientist, Quintiles, Falls Church, VA  
Home Origin: India

**Rong Stephanie Huang, Ph.D.**  
Major Professors: Kevin Sowinski and D.J. Murry  
Thesis Title: Drug Efflux Transporters and Vincristine  
Post-graduation destination: post-doc, Department of Medicine, University of Chicago, Chicago, IL  
Home Origin: PR China
The Jenkins-Knevel and Kienly Awards Symposium

The Jenkins-Knevel and Kienly Awards Symposium was held on October 27, 2005, in the West Faculty Lounge of the Purdue Memorial Union.

The Kienly Awards have been endowed since 1976 by gifts from Dr. Albert V. Kienly, Jr., as well as by an anonymous faculty gift in memory of Dr. Kienly’s father and mother. Dr. Kienly, Jr., who passed away in November of 2002, graduated from the Purdue University School of Pharmacy in 1940, and his father graduated from the School in 1901.

The Jenkins-Knevel Awards are supported by Dr. Serena Ford, daughter of Dr. Glenn L. Jenkins, Dean of the School of Pharmacy from 1941 to 1966, and other donors. They are given in honor of Dr. Jenkins and Dr. Adelbert M. Knevel (PhD 1957), professor emeritus and former Associate Dean for Graduate Studies and Research from 1969-87.

In an unusual display of both excellence in research and outstanding teaching ability, Hema N. Viswanathan, Department of Pharmacy Practice, took home both the Albert and Anna Kienly Award for Outstanding Teaching by a Graduate Student, and the Jenkins-Knevel Award for Excellence in Research during the Graduate student Awards Symposium.

The 2005 winners of the Kienly Awards for Outstanding Teaching were: Lisa A. Bonner, Department of Medicinal Chemistry and Molecular Pharmacology; Patrick J. Marsac, Department of Industrial and Physical Pharmacy; and Hema N. Viswanathan, Department of Pharmacy Practice.

The 2005 winners of the Jenkins-Knevel Awards for Excellence in Research were: Misty D. Handley, Medicinal Chemistry and Molecular Pharmacology (A Tale of Two Rases); Chau H. Nguyen, Medicinal Chemistry and Molecular Pharmacology (Dextras1 Negatively Modulates Adenylyl Cyclase Type 2: Inhibition of Protein Kinase C Alpha Activity); Adnan K. Salameh, Industrial and Physical Pharmacy (The Role of Deliquescence Lowering in Enhancing Chemical Reactivity); and Hema N. Viswanathan, Pharmacy Practice (Development and Validation of Patient-Based Measures of Pharmaceutical Care).

“Giving to the School is a small way that we can invest in our future successes. So many of the programs that our faculty, staff, and students depend on require financial support beyond the annual budget. By making regular contributions to the School, we can help sustain these programs and allow for new initiatives to be started. By making Purdue and the School of Pharmacy a better place, everyone benefits.”

(L to R) Albert and Anna Kienly Award winners Hema Viswanathan; Marc Loudon, Senior Associate Dean for Research and Graduate Programs; Lisa Bonner; and Patrick Marsac

(L to R) Jenkins-Knevel Award winners Chau Nguyen; Hema Viswanathan; Marc Loudon, Senior Associate Dean for Research and Graduate Programs; Adnan Salameh; and Misty Handley
The School of Pharmacy and Pharmaceutical Sciences expresses sincere gratitude to the Merck Company Foundation for establishing the Merck Scholar Awards to provide scholarships to students enrolled in the Bachelor of Science in Pharmaceutical Sciences Program. Merck pledged $50,000 in scholarship funds to encourage students to pursue careers in industrial pharmacy which provides a solid background in chemistry and science. The gift supports four undergraduate scholarships per year for five years, and the first Merck Scholar Award recipients were selected in the spring of 2002. The recipients are Justin Guinn, Ryan McCann, Robert Ribeiro, and Eric Van Horn. Previous recipients include Holly Angermeier, Jacquelyn Cloonen, Sarah Dunn, Molly Fricke, Amanda Hinkle, Jonathan Hoggatt, Mary Katherine Jungbluth, Tippu Khan, Stephanie Noe, Laura Rearick, Megan Reimann, Carolyn Roedel, and Rebecca Turner.

Donald O. Barrick (BS 1976), Senior Manager in New Products Planning for Merck and Company, Inc., says “The bachelor of science program provides great preparation for careers in the areas of production technical support, pharmaceutical research and development, manufacturing or regulatory affairs. Merck is proud to support such an innovative degree program, and we are confident that it will attract bright, talented students who will become future leaders in our industry.”

Congratulations to the recent recipients of the Merck Scholar Award, and sincere thanks to Merck for its continued support of the School.
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and James B. Chaney
Pharmacist
Rite Aid Pharmacies

“It’s not right for the students to have culture shock coming from the Purdue Pharmacy Practice Laboratory into the field, especially since the purpose of the dispensing laboratory is to teach them what they need to know in everyday life. To keep Purdue’s Pharmacy School in the top five in the country, the students have to be able to work with the latest dispensing equipment. Therefore, we are happy to support the students and the new Pharmacy Practice Laboratory.”

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Presidents' Council: H. L. Mason

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H. W. Keckler, S. C. Howell

Purdue Pharmacy Student Christian Association: J. L. Borowitz

Purdue Student Society of Health System Pharmacists: S. A. Scott, C. M. Scott
Rho Chi: S. L. Hem

Society of Nuclear Pharmacy, Purdue Student Chapter:
K. D. Weatherman, S. Piepenbrink

Student National Pharmaceutical Association: P. L. Darbishire

Executive Committee

Graduate Executive Committee
G. M. Loudon, Chmn., E. L. Barker, S. L. Hem, J. Thomas

Pharmacy Admissions

Professional Programs
Curriculum Committee

Non-traditional Pharm.D.
Advisory Committee
B. C. Carlstedt, Chmn., S. R. Abel, R. W. Bennett, C. Koh-Knox, H. L. Mason, S. A. Scott, B. M. Shepler

B.S. Pharmaceutical Sciences Committee
F. Brown, Chmn., M. T. Carvajal, M. A. Green, T. P. George, G. H. Hockerman, H. W. Keckler, H. L. Mason, Ryan McCann (student rep.), Martin Okos (FSE), Whitney Royer (student rep.), L. S. Taylor

Integrated Laboratory
Coordinating Committee

Experiential Learning Advisory Council

Experiential Learning Academic Standards Committee
B. M. Shepler, Chmn., M. B. Kays, H. L. Mason, C. L. Nash, S. A. Scott

Schedules
J. E. Dubes, Schedule Deputy; D. Gillespie, P. Mull, J. Yost

Award Nominations Committee
S. L. Hem, Chmn., R. L. Geahlen, M. A. Green, C. B. Post, K. H. Summers, J. E. Tisdale

Student Cases

Pharm.D. Academic Standards and Readmissions

IPPE Advisory
P. L. Darbishire, Chmn., S. R. Abel, K. L. Duncan Weatherman, H. L. Mason, S. A. Scott, B. M. Shepler, V. J. Watts

Undergraduate Awards
H. L. Mason, Chmn. (DP/BSPS), F. Brown (BSPS), J. E. Dubes (DP), T. P. George (BSPS), S. C. Howell (DP)

Nominations
R. L. Geahlen, Chmn., S. L. Hem, M. M. Murawski

School Animal Care Committee
G. P. Carlson, Chmn., G. E. Isom, D. E. Nichols

Supervisor for Animal Facility
D. E. Nichols

Building Deputy
J. Mott and J. Rogers

Faculty Secretary
D. Lenartz, S. R. Abel

AAACP Delegate
K. S. Plake
Representative to Faculty Senate
D. L. Nichols (term expires 2006),
G. T. Wilson (term expires 2007),
S. R. Byrn (term expires 2008)

Representative to Graduate Council
G. M. Loudon (2005-2006)

Faculty Liaison for core courses taught by other schools
BIOL 110/111: D. J. Riese
AGEC 217 / ECON 210:
M. M. Murawski
BIOL 221: V. J. Davison
MA 301/302: D. J. Riese
PHYS 220: G. M. Loudon
ENGL 115/116: G. M. Loudon
ENG 106/108: G. M. Loudon

College of Pharmacy, Nursing, and Health Sciences
2005-2006 Committees

Executive Advisory Committee
J. M. Pezzuto, Chmn., S. R. Abel,
R. F. Borch, S. R. Byrn, M. E. Gillespie,
G. M. Loudon, H. L. Mason, J. C.
Novak, J. C. Smith, G. A. Sandison

Faculty Promotions (Area)
J. M. Pezzuto, Chmn., S. R. Abel,
R. F. Borch, S. R. Byrn, L. Geddes,
G. E. Isom, G. M. Loudon [ex-officio],
H. L. Mason [ex-officio], J. C. Novak,
G. A. Sandison. (To be elected: IPPH,
PHPR, HSCI)

Library
G. M. Loudon, Chmn., D. E. Bergstrom,
P. Coyle-Rogers, V. J. Killion, D. O.

Grade Appeals Committee
SCHOOL OF PHARMACY
Faculty: S. Hem, Chair, R. Pinal (alt.)
Graduate Students:
David Engers, Jeremy Schieler
and Seema Dedhiya (alts.)
Undergraduate Students:
Laura Smith, Elizabeth Darrah (alt.)

SCHOOL OF NURSING
Faculty: N. Edwards
Graduate Students:
Mollie Hanlon and
Emily Hillycord (alt.)
Undergraduate Students:
Mitsh Knisely and Lauren
Misiewicz (alt.)

SCHOOL OF HEALTH SCIENCES
Faculty: F. Rosenthal, R. Stewart (alt.)
Graduate Students: David Carlson
and Jason Harris (alt.)
Undergraduate Students:
Meredith Turner and
David Bond (alt.)

Grievance Committee
Chairperson: P. L. Darbishire
Secretary: D. Schmeiser
Steering Committee:
D. Campbell, K. Morris, J. J. Li

TERM EXPIRING TWO WEEKS BEFORE
BEGINNING OF FALL SEMESTER, 2006:
Pharmacy: S. Hem, A. Sheehan,
J. Davison, C. Hu, J. Everett,
R. Gibbs, R. Geahlen, C.-j. Chang
Nursing: D. Campbell, P. Gunning,
C. Richardson, K. Sanders,
D. Schmeiser
Health Sciences: N. Zimmerman

TERM EXPIRING TWO WEEKS BEFORE
BEGINNING OF FALL SEMESTER, 2007:
Pharmacy: K. Morris (convener),
E. Barker, P. Darbishire,
B. Overholser, K. Plake, C. Scott,
V. Watts, C. Williams, A. Zillich
Nursing: M. Braswell, A. Brown,
C. Chang, S. Rudman, L. Sands
Health Sciences: J. J. Li

Graduate Programs
and Policies Committee
G. M. Loudon, Chmn., E. L. Barker,
G. P. Carlson, S. L. Hem, J. C. Novak,
J. Thomas

Health and Safety Committee
G. M. Loudon, Chmn., P. Aaltonen,
C.-j. Chang, J. P. Fenn, M. M.
Murawski, R. Pinal, K. M. Sowinski
(IUMC liaison), J. Schweitzer

Representatives to
United Way Campaign
D. R. Foster, PHPR, Senior Chair;
R. V. Weatherman, MCMP, Jr. Chair

Computer Committee
C. B. Post, Chmn., C. L. Ashendel,
M. M. Murawski, K. Park,
F. S. Rosenthal, P. Aaltonen

Murphy Award Committee
S. L. Hem, Chmn., G. M. Loudon,
G. T. Wilson, N. J. Zimmerman,
Trista Anderson, Megan Battles,
Stacy Millsap, Dante Simmons,
Jodi Stephens

Minority Advocacy
J. M. Pezzuto, Chmn., M. I. Altman,
C. L. Ashendel, S. R. Byrn, G. P. Carlson,
M. T. Carvajal, M. L. Geiger,
J. B. Jimerson, H. L. Mason,
K. R. Morris, M. M. Murawski,
K. S. Plake, V. J. Watts

* Dean Pezzuto is an ex-officio member of
all committees (except Grade Appeals
and School Grievance Committees) to
which he is not specifically named.

Mark Okafor, Best Poster, Social and Administrative
Sciences Academy of Pharmaceutical Research
and Science, 2006 Annual Meeting of the American
Pharmacists Association

Balu Sanjeev, Best New Investigator Podium
Presentation for PhD mentee based on co-authored
paper presented at the 2006 International Meeting of
the International Society for Pharmaceutical Outcomes
Research

Xin (Cindy) Zhang, ASCPT Presidential Training Award, 2006 ASCPT Annual Meeting

Carol B. Post
Jae-Eun Suk, ENC Travel Award; Joshua Ward, graduate
student, Biophysics Training Grant trainee; Yajie Zhang,
Davisson Travel Award

Jean-Christophe Rochet
John D. Hulleman, AFPE Pre-doctoral Fellowship, 2006; Fang Liu, World Parkinson’s Congress Travel Award, 2006

Lynne S. Taylor
Yuerong Hu, AAPS–APQ Graduate Student Award;
Patrick Marsac, AAPS Graduate Student Award, PhRMA
Pre-doctoral Fellowship (second year), Schering-Plough
Science & Innovation Award; Daniel Romary, AAPS–AFPE
Gateway to Research Scholarship; Saly Romero-Torres,
PDA Journal Pre-doctoral Fellowship; Hakam Wikstrom,
AAPS Graduate Student Award; Hakam Wikstrom,
Coblentz Society Student Award

Alan J. Zillich
DeAnna Hoxie, residency candidate, received an
incentive grant from the American Pharmacists
Association for the project “A National Survey of Retail
Pharmacists to Determine Knowledge, Attitudes, and
Practices regarding Travel Health Information and
Immunization Services”
Steven R. Abel
Named Bucke Professor of Pharmacy Practice, April 2006. Honorary Faculty Member Iron Key Senior Honor Society.

Richard F. Borch
Fellow of the American Association for the Advancement of Science, 2003-present.

Patricia L. Darbishire
Purdue Alumni Faculty Incentive Grant ($1,000).

Richard A. Gibbs
University Faculty Scholar, 2006-2010.

Arun K. Ghosh
Fellow of the American Association for the Advancement of Science (2005). Seed for Success Award, Purdue University (2006).

Tony Hazbun
The PhRMA foundation 2006 Research Starter Grant in Pharmacology/Toxicology received at the ASBMB/ASPET meeting in San Francisco, 2005.

Stanley L. Hem
Henry W. Heine Memorial Award for Excellence in Undergraduate Teaching, School of Pharmacy and Pharmaceutical Sciences.

Kenneth R. Morris

David E. Nichols
Provost’s Award for Outstanding Graduate Mentor, Purdue University, 2006.

Carol A. Ott
Outstanding Clinical Care Award, Wishard Health Services/Midtown Community Mental Health, August 2005.

Carol B. Post
Purdue University Faculty Scholar.

Jean-Christophe Rochet
Seed for Success Award, Purdue University.

Joseph Thomas, III

James E. Tisdale
American College of Clinical Pharmacy (ACCP) Frontiers Career Development Research Award, from the ACCP Research Institute, for the proposal entitled, “Female Sex Hormone Effects on Ventricular Action Potential Duration and Dispersion.”

Val J. Watts
Tony and Mary Hulman Health Achievement Award for Health Science Research. Seed for Success Award, Purdue University.

Kara Duncan Weatherman
Fellow, American Pharmacists Association (APhA), March 2006.

Industrial and Physical Pharmacy
Gregory T. Knipp was hired as Assistant Professor. Stanley M. Shaw retired as Professor. Dane O. Kildsig, Professor, passed away. Carl Wassgren, Associate Professor in Mechanical Engineering, accepted a courtesy appointment.

Medicinal Chemistry and Molecular Pharmacology
Markus A. Lill was hired as Assistant Professor and began his position September 2006. Marietta L. Harrison was appointed the Interim Director of the Oncological Sciences Center in Discovery Park.

Pharmacy Practice
Karen S. Hudmon was hired as Associate Professor of Pharmacy Practice and Jennifer L. Morris was hired as Clinical Assistant Professor of Pharmacy Practice.
faculty international initiatives

Steven R. Abel
Our Kenya initiative continues to be successful, with increasing numbers of students expressing interest in program participation.

International program grants have been received for collaborative programs involving the Thai Consortium (see the report from Cindi Koh-Knox) and the University of Sydney Faculty of Pharmacy (Steve Abel). The latter opportunity will enable students from Purdue to visit the University of Sydney to hone their skills related to community pharmacy practice with an emphasis on home medication review. Students from the University of Sydney will visit Purdue to gain concentrated experience in progressive health-system pharmacy practice.

Robert W. Bennett
International Nontraditional Doctor of Pharmacy Program, Dubai, UAE - Cohort 1 (5 students, started January 2002; these students graduated last year). Cohort 2 (5 students, started January 2003; these students graduated this year), Cohort 3 (13 students, started January 2004; these students are beginning clinical rotations this fall). Cohort 4 (14 students, started August 2004; these students are beginning rotations later this year). Cohort 5 (25 students, started Fall 2005, currently in didactic coursework), Cohort 6 (Started January 2006, 15 students, currently in didactic coursework).

Developing the Doctor of Pharmacy Degree at Alepppo University in Damascus, Syria. Working with Dr. Akia (President of Alepppo) and a committee of pharmacy faculty to implement the nontraditional doctor of pharmacy program for qualified pharmacists in Syria. He is also working with Rola Kaakeh, on a PharmD Student Project.

Stephen R. Byrne
Several initiatives are being pursued related to both Regulatory and Quality Compliance graduate certificate and MS degree programs in China. However, the Chinese government may provide a substantial barrier to implementation, three courses have been provided to members of the Kazakhstan FDA. These courses were taught jointly with Parenteral Drug Association (PDA) and were quite successful. However, the need for future programs is not clear.

M. Teresa Carvajal
Collaborated to implement IPPH courses for master’s degree at the Universite Louis Pasteur, Strasbourg, France. This program includes exchange students (last year of their career or first year graduate students). Two students from France spent six months at Purdue working on two different projects.

Ching-jer Chang
Served as Research Advisor for the development of selenophene antitumor agents for the Development Center for Biotechnology, Taiwan.

Served on the Advisory Committee for the National Science Council, National Health and Technology for Biotechnology and Pharmaceuticals, Taiwan.

Served on the Review Committee, Research Grant Council, Hong Kong.

Judy T. Chen
Kenya initiative Faculty Preceptor, May–June 2006. MSC 407: Therapeutics, Moi University’s Teaching and Referral Hospital, Eldoret, Kenya. Dr. Chen presented 1.5 hours of lecture on Thyroid Disorders to 4th year Kenyan medical students.

Patricia L. Darbishire
Study abroad in Thailand (April 2006).

Tony Hazbun
Developing a research-based exchange or internship program with academic institutions in Queensland, Australia.

Gregory H. Hockerman
Collaborated on a grant proposal with Dr. Jens Rettig, Universität des Saarlandes, Physiologisches Institut, Homburg, Germany (RO1 DK064736-01A1).

Collaborated with Dr. Lena Eliasson, University of Lund, Lund, Sweden.

Participated in a seminar at University of Lausanne, Switzerland, July 2005.

Chang-Deng Hu
Establishment of an image center at Huazhong University of Science and Technology in Wuhan, China, for visualization of molecular interactions in living cells (ongoing).

Cynthia P. Koh-Knox
Study abroad in Thailand (April 2006); International Learning Grant, $5,600.

Matthew M. Murawski
Dissertation reviewer for the doctoral research of Kari Linden of the Department of Pharmacology and Toxicology, University of Helsinki, Finland.

Christian L. Nash
Preceptor/Student conference in Dubai, UAE.

PHRM lab instructor for Dubai, UAE distance learning program.

Brian R. Overholser


International Travel Funding from the Purdue Research Foundation ($1,000).

Kinam Park
Organized the first Purdue-KIST (Korean Institute of Science and Technology) collaborative symposium on “Biomedical Photonics: Molecular Imaging and Nanomedicine.” The symposium featured four speakers from Purdue and four Korean speakers.

Kimberly S. Plake
Selected to go on Access China Faculty Development Trip, Sponsored by SIT (School for International Training), all expenses paid.

Jean-Christophe Rochet
International grant application reviews: UK Motor Neurone Disease Association (September, 2005); Meervoud Programme, Earth & Life Sciences Council, the Netherlands (December, 2005).

Organization of international meetings: Symposium entitled “Novel therapeutic approaches for treating neurodegenerative diseases” as part of the 230th ACS National Meeting (Washington, DC, August 29, 2005).

Ellen M. Schellhase
Co-Coordinator of the Purdue Kenya Program.

Christopher M. Scott
Participated in the Kenya project.

James E. Tisdale
Invited to spend two weeks as a visiting professor at Misr International University in Cairo, Egypt, from May 1-12, 2006.

Taught cardiovascular pharmacotherapy to pharmacy students, and delivered a research seminar to faculty and students.

Kara Duncan Weatherman
Invited to participate in a European Union collaborative group developing on-line nuclear pharmacy training courseware in England. The VirRAD Virtual Radiopharmacy (Europe) program is currently hosted at www.virrad.org.
# Research Funding

## Industrial and Physical Pharmacy

**$3,682,632**

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<th>Sponsor</th>
<th>Title</th>
<th>Amount</th>
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<td>MULTI-SPONSOR</td>
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<td>PHS-NIH NATIONAL CANCER INSTITUTE</td>
<td>PET RADIOTRACERS TO EVALUATE TUMOR MULTIDRUG RESISTANCE</td>
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<td>THE STUDY OF ANNEALING USING RAMAN MICROSCOPY</td>
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<td>CHARACTERIZATION OF HUMAN GI OLIGOPEPTIDE TRANSPORTERS</td>
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<td>PURDUE ALUMNI ASSOCIATION, INC</td>
<td>THE ROLE OF PEPTIDE/HISTIDINE TRANSPORTERS IN HISTAMINE BIOGENESIS</td>
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K. Park

PHS-NIH NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCE
- HYDROTROPIC POLYMERS FOR ORAL DELIVERY OF PACLITAXEL: $284,603
- LAYER-BY-LAYER ASSEMBLY FOR MAKING DRUG-ELUTING STENTS: $367,767
- SOLVENT EXCHANGE METHODS FOR PROTEIN MICROENCAPSULATION: $253,272
- SOLVENT EXCHANGE METHODS FOR PROTEIN MICROENCAPSULATION: $247,011

PHS-NIH NATIONAL HEART, LUNG & BLOOD INSTITUTE
- LAYER-BY-LAYER ASSEMBLY FOR MAKING DRUG-ELUTING STENTS: $371,631

R. Pinal

ABBOTT LABORATORIES
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER IN PHARMACEUTICAL PROCESSING: $35,000

AMGEN, INC
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER IN PHARMACEUTICAL PROCESSING: $35,000

DMV INTERNATIONAL GMBH
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER FOR PHARMACEUTICAL PROCESSING (DMV INTERNATIONAL): $35,000

ELI LILLY AND COMPANY
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER IN PHARMACEUTICAL PROCESSING: $35,000

ELI LILLY AND COMPANY FOUNDATION
- MULTI-Sponsored: $1,000

NATIONAL SCIENCE FOUNDATION
- APPLICATION OF ANTIPLASTICIZATION EFFECTS AS DESIGN AND OPTIMIZATION TOOLS PHARMACEUTICAL PROCESS RESEARCH: $150,000

PFIZER, INC
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER IN PHARMACEUTICAL PROCESSING: $35,000

PURDUE RESEARCH FOUNDATION: XR GRANT
- APPLICATIONS OF HOT-MELT EXTRUSION TO THE PRODUCTION OF DRUG DISPERSIONS WITH IMPROVED DRUG DELIVERY ATTRIBUTES FOR POORLY SOLUBLE DRUGS: $14,912

SHIONOGI AND COMPANY, LTD
- INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER IN PHARMACEUTICAL PROCESSING: $35,000

D.T. Smith

PHS-NIH NATIONAL INSTITUTE NEURO DISORDERS, STROKES
- RESTORING CONDUCTION IN CHRONICALLY INJURED SPINAL CORD: $175,750
- RESTORING CONDUCTION IN CHRONICALLY INJURED SPINAL CORD: $171,620

L.S. Taylor

AMERICAN FDN FOR PHARMACEUTICAL EDUCATION
- AAPS-AFPE GATEWAY TO RESEARCH SCHOLARSHIPS: $5,000

ELI LILLY AND COMPANY FOUNDATION
- MULTI-Sponsored: $1,000

PFIZER, INC
- DEVELOPMENT OF WET GRANULATION FOR THE PREVENTION OF HYDRATION PRONE APIs: $45,000

PHRMA FOUNDATION
- PHRMA FOUNDATION: $20,000

Medicinal Chemistry and Molecular Pharmacology $8,009,694

E.L. Barker

PHS-NIH NATIONAL INSTITUTE ON DRUG ABUSE
- PSYCHOSTIMULANT RECOGNITION BY SEROTONIN TRANSPORTERS: $220,753

D.E. Bergstrom

PURDUE DOCTORAL PROGRAM
- JUNCOSA, JOSE: $15,263

PURDUE UNIVERSITY F N ANDREWS FELLOWSHIP
- SEALOVER, NATLIE: $15,263
<table>
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<th>Name</th>
<th>Grant Type</th>
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<td>Geldanamycin-Mediated Uptake of Nanoparticle Probes</td>
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<td>Proteomic Analysis of Protein Prenylation</td>
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<td>Modulating Farnesyl Transferase Protein Selectivity: Tools to Selectively Alter Protein Function</td>
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<td>G.E. Isom</td>
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<td>D.J. Morré</td>
<td>D.JAMES &amp; DOROTHY MORRE</td>
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<td>DEVELOPMENT OF POTENTIALLY SELECTIVE DOPAMINE AGONISTS</td>
<td>$352,500</td>
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<td>PHS-NIH NATNL INSTITUTE ON DRUG ABUSE</td>
<td>STEROCHEMICAL ASPECTS OF HALLUCINOGENESIS</td>
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<td>J.M. Pezzuto</td>
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<td>A LINK BETWEEN OXIDATIVE STRESS, PROTEIN AGGREGATION, AND AGING</td>
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V.J. Watts
PHS-NIH NATIONAL INSTITUTE OF MENTAL HEALTH
D2 RECEPTOR-INDUCED HETEROLOGOUS SENSITIZATION OF ADENYLATE CYCLASE $211,959
D2 RECEPTOR-INDUCED HETEROLOGOUS SENSITIZATION OF ADENYLATE CYCLASE $46,763

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Department of Pharmacy Practice $634,710

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PRF SUMMER RESEARCH GRANTS
R.L. ROUDEBUSH VA MEDICAL CENTER
ROSS GRADUATE FELLOWSHIP-ASSISTANTSHIP
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COMMUNITY HEALTH NETWORK $53,338
CONCENTRICS INDUSTRIAL PHARMACY PRACTICE FELLOWSHIP $89,982
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REGENSTRIEF INSTITUTE HEALTH CARE $13,631
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Purdue Alumni Association, Inc
Purdue Research Foundation: XR Grant
PHARMACISTS AND PHYSICIANS’ PERCEPTIONS OF PHARMACEUTICAL CARE
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MCNEIL Pharmaceutical
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C.D. Williams
Indiana University
ASTHMA CLINICAL RESEARCH CENTER
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A.J. Zillich
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$14,208

Purdue Cancer Center $3,215,539

D.E. Bergstrom
PHS-NIH National Cancer Institute
CANCER CENTER TRAINING GRANT
$288,751
TRAINING IN DRUG AND CARCINOGEN-DNA INTERACTIONS
$256,892

R.F. Borch
Carroll County Cancer Association
MULTI-SPONSORED
$4,000
MULTI-SPONSORED
$190
MULTI-SPONSORED
$107
MULTI-SPONSORED
$105

Indiana Elks Charities, Inc
MULTI-SPONSORED
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Lafayette Lions Club
MULTI-SPONSORED
$250

Lions Club
MULTI-SPONSORED
$250

PHS-NIH National Cancer Institute
CANCER CENTER SUPPORT GRANT
$1,199,850
CANCER CENTER SUPPORT GRANT (CORE)
$1,175,651
NCI Cancer Center Supplement for Undergraduate Student Research Experience (P30S)
$85,717
NCI Cancer Institute Supplement for Undergraduate Student Research Experience
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Chang-Deng Hu


Gary E. Isom


Douglas LaCount

D. James Morré


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David E. Nichols


Carol B. Post


Jean-Christophe Rochet


Val J. Watts


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Ross V. Weatherman


Pharmacy Practice
Steven R. Abel

Judy T. Chen


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Karen S. Hudmon


Jane E. Krause
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Matthew M. Murawski
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