According to Sarah Steinhardt, PharmD 2003, "Everyone knows that the sky’s the limit when you graduate with a Doctor of Pharmacy degree from Purdue University.” Sarah’s PharmD project (see The Purdue Pharmacist Vol. 79, No 4, Fall 2003) included flying astronaut-style on NASA’s KC-135 microgravity environment aircraft. Like Sarah’s experience, the year 2003-2004 at the School of Pharmacy and Pharmaceutical Sciences could be described as one exciting ride.

I was able to attend several regional meetings with our Alumni and Friends across the country. Faculty and staff participated in Purdue Day at the Indiana State Fair, our Annual First Nighter, White Coat Ceremony, Fall and Spring Advisory Council Meetings, Donor Recognition Brunch, the Capital One Bowl Game, Dean’s Executive Forums, Corporate Partner visits, the first annual Peck Symposium, Distinguished Alumni and Friend of Pharmacy awards, Career Day, the dedication of the Chao cGMP Center, the BoileRx, the President’s annual visit, faculty meetings, poster day, graduation banquet, and graduation—all were exciting times.

Substantial revision of our BSPS curriculum was approved in November, 2003. Graduates will be well-prepared for the next stage of their careers. We are recruiting new faculty members, we are close to implementing a combined degree program with the Krannert School of Management, we hope to create new endowed chairs, and we are always mindful of the necessity of replacing, expanding, or updating our current building. In order to remain at our current level of excellence, we will need more space to house new faculty, staff and students, as well as more advanced facilities to maintain our ability to attract high quality faculty and students into our programs. We are currently working toward the completion of laboratory renovations, updating the computer system of our pharmacy, and we hope to improve our student teaching laboratory and lounge areas.

Since I understand and appreciate the importance of maintaining the reputation and integrity of the School of Pharmacy, we are taking an active role in the Campaign for Purdue. As one major part of our participation, we are very pleased to honor the Anderson family for their generosity as major benefactors. The family endowed the Anderson Chair in Pharmacology, with additional support being provided by the Lilly Endowment. (see The Purdue Pharmacist Vol. 80, No 2, Spring 2004).

We are extremely grateful for the generous support provided by our alumni, friends, preceptors, retirees, professional and industrial partners, forum speakers, and many others. We already know some exciting changes will occur over the next year. For example, we will celebrate the grand opening of The Chao Center for Industrial Pharmacy and Contract Manufacturing (see The Purdue Pharmacist Vol. 80, No 1, Winter 2004). We also hope to see closer ties established with several units on campus, regional campuses, and Discovery Park, as well as with other universities in the State. Partnerships of this type will enhance our overall stature and provide an even stronger academic environment for our faculty, staff, and students.

Our applicant pool is strong, as is our spirit and the support from the upper administration of the University. Our graduates are in high demand, and, as noted above by Sarah, “the sky’s the limit.”

John M. Pezzuto
Dean
Reviewing the generosity of our alumni and friends is a humbling exercise each year. There are so many people who give their time and resources to make the School of Pharmacy one of the premier institutions of its kind in the world. It is my pleasure to share just a few highlights of the many gifts we receive each year.

The School of Pharmacy owes a debt of gratitude to the late Robert C. Anderson (BS ’31, HDR ’57). Before he passed away last year, Mr. Anderson established the Robert C. Anderson Chair in Pharmacology. With a generous matching gift from the Lilly Endowment, the total value of this chair is $2 million. This chair will enable the School to recruit one of the top pharmacologists in the field. Through their lifetime of service, enthusiasm and generosity to Purdue, Robert and Charlotte Anderson served as an example for other alumni for years to come.

Another highlight this year was Pfizer’s $1.75 million gift of manufacturing equipment to the Department of Industrial and Physical Pharmacy. This machinery will be used to train our students in contemporary drug manufacturing techniques and for research in chemistry and pharmaceuticals.

Albertson’s/Osco pledged $150,000 for Multicultural Programs. The funds will be used to encourage, develop, administer, and assess programs and activities that foster a climate of diversity within the School of Pharmacy. The gift will also be used to provide advocacy and support for individuals from racial, ethnic, religious, and social groups that have been historically underrepresented in our School.

Our alumni and friends established seven new endowments for the benefit of our students:

- Charles R. and Patricia M. Baker Pharmacy Scholarship. Establishment, support, and maintenance of one or more annual scholarships based on academic merit as defined by the School, for non-Indiana resident students in the third professional year of the Doctor of Pharmacy program in the School of Pharmacy. (Established in honor of her parents by Mary B. Baker, BS ’79.)
- Gil (MS ’55, PhD ’57) and Gwen (BS ’56) Banker Pharmacy Scholarship. Establishment, support, and maintenance of one or more annual scholarships, based on financial need, for students enrolled in the Pre-Pharmacy program or pursuing the Doctor of Pharmacy degree in the School of Pharmacy.
- Dr. Donald L. Beeler (BS ’64) Memorial Scholarship. Establishment, support, and maintenance of one or more annual scholarships for students enrolled in the Pre-Pharmacy program or pursuing the Doctor of Pharmacy degree in the School of Pharmacy.
- Blaha-Battaglia Graduate Student Award Fund. Frank (MS ’72, ChemE) and Jean (PhD ’74) Blaha-Battaglia established this fund to support and maintain one or more annual graduate awards for students enrolled in the department of Industrial and Physical Pharmacy. The award may be used to supplement a fellowship or to directly support the recipient’s research project.
- Arthur and Deborah Fiocco Pharmacy Fund. For the benefit of the Office of Multicultural Programs in the School of Pharmacy.
- Dr. Garnet E. Peck Graduate Scholarship. Establishment, support, and maintenance of one or more annual scholarships for graduate students enrolled in the Department of Industrial and Physical Pharmacy.

Fiscal 2004 Giving to the School of Pharmacy

<table>
<thead>
<tr>
<th>Source</th>
<th>Percentage</th>
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<td>Alumni</td>
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<tr>
<td>Corporate</td>
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<tr>
<td>Matching</td>
<td>3%</td>
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<tr>
<td>Friend</td>
<td>15%</td>
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<tr>
<td>Other</td>
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Gifts to the School of Pharmacy During the Last Decade

<table>
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<td>$1,711,393</td>
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<tr>
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<td>$1,187,076</td>
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<td>04</td>
<td>$1,472,703</td>
</tr>
</tbody>
</table>
Robert G. Railing (BS ’81) Memorial Scholarship.
Establishment, support, and maintenance of one or more annual scholarships for students pursuing the Doctor of Pharmacy degree with an interest in community pharmacy in an independent setting, and, exceptional enthusiasm for the advancement of the practice.

One of the gifts we are most proud of is the 2004 Class Gift. Fifty-nine students (45.3% of the class) participated by making a gift. In doing so, this group surpassed the participation rate of every other school at Purdue, and, that of the University (14.2%). To put this in perspective, the alumni of the School of Pharmacy have traditionally had the highest rate of participation within the university at 23.4%. The class raised over $8,000, which was matched by Pharmacy alumnus Bob Brown (BS ’51) and his wife Sondra. The funds have been designated for the renovation of the student lounge on the ground floor of the Pharmacy building.

I would like to extend a special thanks to the Campaign for Purdue Pharmacy co-chairs, Charles V. (Chuck) Flemming (BS ’57, HDR ’94) and Richard S. (Dick) Brychell (BS ’73) for their work in assisting the School in fundraising. Without their efforts, many of the accomplishments of the past year would not have been possible.

On behalf of Purdue University and the School of Pharmacy, please accept our sincere thank you for your generosity. Our numerous successes would not be possible without you.

Sincerely,
Christopher Smith
Director of Development
The faculty of the Department of Industrial and Physical Pharmacy (IPPH) at Purdue University’s School of Pharmacy can truly envision our department and program at the next level. The departmental budget now hovers around the $5 million level with about 80% of our funds coming from non-university sources. We have hired three outstanding new faculty and forged strong collaborations with two Engineering Departments. The Regulatory MS degree program continues to expand and the Chao Center for Industrial Pharmacy & Contract Manufacturing will open in early 2005.

IPPH focuses on educating students in Molecules to Market. Every new drug product draws on a network of pharmaceutical expertise that extends from drug development and formulation to monitoring and improving manufacturing processes for drug products. In all these areas, our students play an integral part of the pharmaceutical industry’s commitment to support public health and generate new knowledge.

As in the past, the pharmaceutical industry’s processes for drug development and manufacturing are in a time of extraordinary transition, characterized by new models (Process Analytical Technology and Quality by Design), new instrumentation, new processes, new regulatory input, and vital new work to be done. There continues to be an expanding and critical need for industrial pharmacists.

If you’re reading this document, the chances are you’ve watched a crystal grow. It grows at each face: not growth at the same rate on every face, but multidimensional growth governed by its intrinsic qualities. Members of the faculty of the Department of Industrial and Physical Pharmacy have taken a careful look at the Department’s intrinsic qualities and identified several strategies to help the Department grow. This growth would mean that the Department will be able to respond to the current and anticipated need for excellent new pharmaceutical professionals in drug delivery and drug development.

Of course, growing a crystal requires a solution. In this case, we hope you’ll consider becoming part of the solution!
The Department is planning major changes in undergraduate and graduate programs, as well as new infrastructure for instruction and research. The days when University, State, or Federal funding could finance this kind of growth are long gone. Through a combination of individual gifts and consortia, the Department seeks to fund these Initiatives. With your help, the Department can expand its Ph.D. program, add new equipment, recruit new faculty, and be better managers of an important resource—its links to the pharmaceutical industry.

The Department of Industrial and Physical Pharmacy’s Ph.D. program presently enrolls about eight new students a year. The faculty would like to increase the number of students and to expand graduate student involvement in all areas of faculty research, including materials science, analysis, biomaterials, formulation, manufacturing science, pharmacokinetics, and vaccine research. In addition to academic preparation, graduate students should have hands-on experience in cutting-edge laboratory methods and equipment and in high-end computer modeling and solid-state analysis. Funding is needed, not only for equipment purchases, but also for a Director of Laboratories who will work intensively with graduate students as they learn these methodologies.

Integration of theory and praxis is the hallmark of experimental science. The IPPH department already has established CAMP (Consortium for Advancement of Manufacturing in Pharmacy) and the Center for Pharmaceutical Processing Research. To provide advanced undergraduate and graduate students and faculty with infrastructure for manufacturing science research, the Department would like to expand and fund its existing Center for Industrial Pharmacy. With new funding, researchers from Purdue, other universities, and industry could use this Center to conduct research using state-of-the-art analytical and processing techniques.

In closing, we can truly see the next level. With your support and input, we believe it will become a reality in the near future.
The Department of Medicinal Chemistry and Molecular Pharmacology (MCMP) continues to conduct cutting-edge research and expand its academic programs and recruitment efforts. Drug Discovery will remain an important focus area for the Department. This year’s recruiting will enhance the Department’s strength in this area with additional faculty in the area of drug design and synthesis, and in the area of systems biology applied to drug targets. The goals are to increase the cadre of “molecule makers” in the department and to enhance opportunities to bring a systems approach in proteomics and informatics to bear on the understanding of pathways and targets. Our commitment to training in this area is also exemplified by the introduction of a new MCMP advanced graduate course entitled “Biological Targets for Drug Discovery.” This team-taught course has attracted the interest of graduate students in many life science disciplines across campus in addition to those in our own program.

We are delighted to report that Eric Barker, Greg Hockerman, and Val Watts were promoted to the rank of Associate Professor with tenure. Eric, Greg, and Val were recognized not only for their research excellence and scientific accomplishments, but also for their outstanding teaching contributions, especially in the professional program. They are among the School’s most highly regarded faculty by our students.

Collaborations are the hallmark of an outstanding interdisciplinary research program, and the unique juxtaposition of chemistry and biology in our department has led to the development of many important joint projects focused on both scientific questions and specific diseases. For example, recent faculty recruits, as well as long-standing scientific interests, have come together to establish a critical mass of faculty interested in Parkinson’s disease. MCMP faculty including Professors Davisson, Nichols, Rochet, and Watts are involved in several individual and collaborative projects focused on the understanding and treatment of this neurodegenerative disease, including an understanding of underlying disease mechanisms, the role of protein aggregates in disease progression, and the design of new molecules to slow the advance of the disease.

Designing novel anti-cancer drugs focusing on the function and cellular location of the protein Ras is another area of collaborative focus (Gibbs, Harrison, Borch). The Ras protein is mutated in several major cancers and inhibiting its function has been shown to kill cancer cells. Efforts are underway to design and synthesize both novel chemical inhibitors of Ras and agents that will mislocalize Ras in cells. Inhibitors of
Ras hold great promise for treating tumors where Ras is either mutated or over-expressed, while agents that mislocalize Ras will be useful to determine how mutated Ras causes tumorigenesis. The Gibbs lab is synthesizing novel compounds designed to prevent the Ras protein from either entering or leaving membrane microdomains (lipid rafts). Permanently localized Ras will be assessed for its ability to mediate signaling from cell surface receptors. If signaling is significantly impaired, this would represent a novel strategy to inhibit the Ras protein. The Borch lab has designed a prodrug version of inhibitors of Ras activity that allows the inhibitors (synthesized in the Gibbs lab) to enter cells. This strategy appears to be quite successful and is being extensively evaluated in cultured cells.

Another area of active collaboration within the department is the critical role of SH2 domains in the modulation of protein-protein interactions that are critical for cell regulation (Geahlen, Post, Borch). Expertise in cell biology, protein nmr and molecular design are coming together to develop strategies to inhibit cell proliferation by blocking these protein-protein interactions involving SH2 domains. The Syk tyrosine kinase, which was discovered in the Geahlen lab in 1988, is a key signaling molecule in B lymphocytes. Using nmr approaches in the Post lab, the structural basis for how Syk interacts with a critical binding partner in the cell was discovered. It was found this binding partner interacts with Syk in a unique manner, which differs from other binding partner interactions. This highly significant finding now will allow the Borch lab to design novel inhibitors to prevent Syk from interacting with its binding partners inside cells. These inhibitors are predicted to be potentially useful in the treatment of certain autoimmune diseases.

Professor Harrison has a long history of advocacy for minority student research training at Purdue. Working with the Cancer Center, the Cancer Centers Program and the NCI, and the existing Purdue Minority Access to Research Careers program, she successfully established a new summer research training program for underrepresented minority undergraduate students. Thanks to Professor Harrison’s efforts, research opportunities will now be available for undergraduates interested in spending a summer carrying out cancer research. The program is fully funded through the Purdue Cancer Center’s core grant mechanism.

This past year we awarded nine Ph.D. and four MS degrees. Currently, there are 92 graduate students in the laboratories of MCMP faculty (73 from MCMP and 19 from the Purdue interdisciplinary graduate programs). The Department had a successful graduate recruiting year, admitting 13 new students into our program this fall. Four of these students were also selected for University fellowships. We believe this reflects our successful efforts to create a graduate training environment with outstanding science, strong research mentors, and a nurturing program.
The 2003-2004 academic year has been replete with continued advancement for the Department of Pharmacy Practice (PHPR). Under the direction of Professors Julie Everett, Ellen Schellhase, and Chris Scott, our Kenya initiative has been successfully launched. We are the proud occupants of “The Purdue House” in Eldoret, where faculty and students are housed on a continuous basis as they provide patient care and participate in educational experiences in conjunction with our colleagues from the Indiana University School of Medicine and Moi University in Eldoret. Professors Bob Bennett and Cindi Koh-Knox have continued international initiatives with the nontraditional Doctor of Pharmacy program in Dubai, UAE. Professor Bennett was a participant in the Dubai Pharmaceutical and Technologies Conference and Exhibition (DUPHAT). Professors Bennett and Koh-Knox also presented geriatric care training programs through Silpakorn University in Thailand.

Social and administrative sciences faculty (Professors Joseph Thomas, Kent Summers, and Steve Abell) have been involved in the development of the Regenstrief Center for Healthcare Engineering. This Center is a collaborative effort among faculty from various Purdue University schools and healthcare organizations. Its mission is to improve the cost and quality of healthcare delivery.

In an effort to enhance the recruitment of domestic graduate students into the Department of Pharmacy Practice, the Pharmacy Practice Graduate Affairs subcommittee (Professors Joseph Thomas, Kevin Sowinski, Gail Newton, and Jim Tisdale) has developed an exchange program with Florida A&M and Xavier Universities. This program enables students from these universities to participate in research-focused training with social and administrative sciences and clinical faculty, while selected Purdue University Doctor of Pharmacy students are afforded opportunities to complete clerkship rotations through Florida A&M and Xavier.

In compliance with the standards set forth by the American Council on Pharmaceutical Education, Professor Patti Darbishire has successfully implemented
the first year of introductory pharmacy practice experience. Students completed a minimum of 20 hours of volunteer experience in a client-based, community healthcare related facility. Part of the experience involved direct contact with the clients of the organization in conjunction with a healthcare professional. Student response was overwhelmingly positive. They were particularly favorable regarding the ability to choose their own site (with approval by Professor Darbishire) and felt that the learning experience contributed to their professional development.

The Purdue University Pharmacy has increased engagement with the local community by implementing a free delivery service for residents of University Place, a retirement community located in West Lafayette that is owned by Franciscan Communities and affiliated with Purdue University. University Place offers three levels of senior living, those being independent and assisted living, as well as skilled nursing care. This new service provides a benefit not only to the residents of University Place but also the students enrolled in PHPR 468, Patient Services Experience, a core course within the Doctor of Pharmacy curriculum facilitated by the Pharmacy. The service provides students filling prescriptions for these residents with significant exposure to a wide array of medications used by the geriatric population. Many of the residents are retired Purdue University faculty and staff who enjoy not only the convenience of the service but the chance to enhance the learning experience of current Pharmacy students.

Dr. Brian Shepler has been named Director of Experiential Learning. He is assisted by Dr. Christy Nash, Associate Director, and a team of 12 faculty members and volunteers who have enabled us to regionalize the administrative infrastructure for experiential learning throughout the State of Indiana and Chicago.

Congratulations to Professor Judy Chen, who distinguished herself by becoming the first pharmacist accepted to participate in a faculty development program for primary care physicians targeted toward addressing the health needs of the underserved. Professor Chen will apply her knowledge in her practice site at the Tippecanoe Community Health Clinic.
Virginia F. Goodall
BS 1984
Executive Neuroscience Speaker Development Specialist
Eli Lilly and Company

Charles L. Goodall
BS 1984
Director, Pharmacy Technology Services
Walgreen Company

“We both feel very privileged to have attended Purdue University. Not only did we “find” a exceptional educational experience but we also “found” a wonderful spouse. A yearly contribution to Purdue is a very small price for us to pay for the true fortune we experience as a family. We hope someday that our daughters will also share in the greatness of Purdue and receive as much back as we have.”

**pharmacy admissions data**

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<tr>
<td>Males</td>
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<tr>
<td>Females</td>
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<tr>
<td>Out-of-State Resident</td>
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<tr>
<td>International</td>
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<tr>
<td>Caucasian American</td>
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<td>African American</td>
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<tr>
<td>Asian American</td>
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<tr>
<td>Hispanic American</td>
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<td>Other American/Unknown</td>
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<th>2004 ADMISSIONS PHARM.D. PROGRAM TOTAL ADMITTED</th>
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### Employment Survey

#### PharmD. Graduates

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<tr>
<td>Students Surveyed</td>
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<td>Responses</td>
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<tr>
<td>Continuing Education**</td>
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<tr>
<td>Seeking Employment</td>
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#### PharmD Average Range

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#### Commitment

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<td>Fellowship*</td>
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<td>Chain (Retail)</td>
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<tr>
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<td>Hospital</td>
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<tr>
<td>Ambulatory Clinic</td>
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<tr>
<td>Nuclear</td>
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#### Employment Salary Average: $87,095***

*graduate school/fellowship/residency

**only one salary reported

***does not include residency/fellowship students

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### Dean’s Minority Advocacy Council

- Lana S. Burrell
- Keith D. Carter
- Ralph Johnson
- Paul M. Jones
- Joanne D. Murphy-Woods
- Virgil C. Rowley
- Charles E. Sanders, Jr.
- Sarah A. Sanders
- Jason B. Santiago
- Eric A. Smith
- Bryan A. Woodfork

### Dean’s Industrial Advisory Council

- Juan M. Andres
- Mary B. Baker
- Gilbert S. Banker
- Donald O. Barrick
- Morgan L. Beatty
- James W. Bedford
- Maria D. Bowman-Horner
- John F. Derr
- Gary D. Dolch
- Ronald W. Dollens
- Arthur J. Fiocco, Jr.
- Mark W. Fitch
- Charles V. Flemming
- Robert M. Franz
- David C. Hsa
- Robert A. Lipper
- Katie L. MacFarlane
- Vincent E. McCurdy
- Michael S. McNear
- Y. Joseph Mo
- John E. Nine
- William G. Randolph III
- Arthur C. Solomon
- Gerald L. Wannarka
- Mary L. Westrick
- Roger E. Williams
- Rae Willis

---

### Dean’s Professional Advisory Council

- Kyle L. Allen
- Russel Allinson
- Quent D. Besing
- Richard S. Brychell
- Dale A. Bultemeier
- Matthew Clary
- Joyce Collins
- Daniel D. Degnan
- Christopher T. Dimos
- James A. Eskew
- Gregory A. Fox
- Charles L. Goodall
- Amanda B. Keltch-Senger
- James E. Krahulec
- Winifred A. Landis
- Wade A. Lange
- Dennis J. McCallian
- Jennifer S. McComb
- Michael B. McMains
- Kathy L. Michael
- Stephen L. Piepenbrink
- Nikki M. Price
- David W. Purdy
- Marvin R. Richardson
- Lawrence J. Sage
- Lorraine E. Shaffer
- Robert E. Shaffer
- William B. Smith
- Edward S. Smith
graduates

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<tr>
<th>B.S. Pharmacy</th>
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<td>Margie Cornett</td>
<td>Divya Abraham</td>
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<td>Michelle Adame</td>
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<td>Ashleigh Anderson</td>
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“For many of us, the experiences we had during our years at Purdue helped to shape our careers and the lives we lead today. In giving back to the University, we can continue to support and provide that experience for today’s students and make a positive impact on their careers. What a great opportunity we have when we choose to invest in the future of others.”
graduates awarded

Industrial and Physical Pharmacy

William Paul Findlay, Ph.D.
Major Professor: Kenneth R. Morris
Thesis Title: Near-Infrared Spectroscopic Monitoring of Fluidized Bed Granulation: Process Control and Control of Granule Strength

Yourong Fu, Ph.D.
Major Professor: Kinam Park
Thesis Title: Novel Fast Dissolving Tablet Formulations

Garry Lee Morefield, Ph.D.
Major Professor: Stanley L. Hem
Thesis Title: Potentiation of the Immune Response with Aluminum-Containing Adjuvants: I. Distribution of Adsorbed Antigen in Mono-Valent and Combination Vaccines; II. Role of Antigen Adsorption in Antigen Internalization by Dendritic Cells

John Jeffery Schwegman, Ph.D.
Major Professor: Steven L. Nail
Thesis Title: Measuring Protein Secondary Structure In-Situ During Freezing and Freeze-Drying Using Infrared Microscopy

Yoon Yeo, Ph.D.
Major Professor: Kinam Park
Thesis Title: The Solvent Exchange Method: A Novel Microencapsulation Technique

Medicinal Chemistry and Molecular Pharmacology

Ayele-Nati Nathalie Ahyi, M.S.
Major Professor: V. Jo Davison
Thesis Title: Characterization of Geldanamycin as a Potential Antifungal for Candida

Jinhua Chen, Ph.D.
Major Professor: Mark S. Cushman
Thesis Title: Lumazine Synthase Inhibitors: Part I. Structure Based Design and Synthesis. Part II. Design and Discovery of a Novel High Throughput Screening Method

Nejmi Dilmac, Ph.D.
Major Professor: Gregory H. Hockerman
Thesis Title: Drug Modulation of L-type Ca2+ Channels: Role of Pore Residues on Ca2+-Potentiation of Closed-Channel Block and Frequency-Dependent Block by Diltiazem and Verapamil

Allison Brendan Edsall, Ph.D.
Major Professor: Mark S. Cushman
Thesis Title: Design, Synthesis, and Evaluation of Novel Analogues of 2-Methoxyestradiol as Potential Anti-Cancer Agents

Guohong Liu, Ph.D.
Major Professor: Gregory H. Hockerman
Thesis Title: Differential Roles of L-type Calcium Channel Cav1.2 and Cav1.3 in Regulation of Insulin Secretion in INS-1 cells

Michelle Kaye Martin, M.S.
Major Professor: Richard F. Borch
Thesis Title: Design and Synthesis of Novel Farnesyl Transferase Inhibitors

Kyung-duk Moon, Ph.D.
Major Professor: Robert L. Geahlen
Thesis Title: Identification of Syk-interacting Proteins by a Yeast Two-hybrid Screen

Melinda Sue Morrell, M.S.
Major Professor: Ross V. Weatherman
Thesis Title: Chemical Biology of Rapid Steroid Hormone Signaling

Pei-sze Ng, Ph.D.
Major Professor: Donald E. Bergstrom

Priscilla Terrazas Reyes, M.S.
Major Professor: Ross V. Weatherman
Thesis Title: Synthesis of Chemical Probes for the Study of Steroid Hormone Action

Gustavo Javier Rodriguez, Ph.D.
Major Professor: Eric L. Barker
Thesis Title: Molecular Insights into the Translocation Mechanism for Substrates by the Serotonin Transporters

David Lance Roman, Ph.D.
Major Professor: Eric L. Barker
Thesis Title: Molecular Determinants of Ligand Interaction with Serotonin Transporters

Jennifer Rebecca Selken, M.S.
Major Professor: David E. Nichols
Thesis Title: Activation of α1-Adrenergic Receptors in the Prefrontal Cortex and Ventral Tegmental Area of the Rate is Required for the Locomotor Response to |±|1,3,4-Methylenedioxymethamphetamine

Ulke Ghate Shrikhande, M.S.
Major Professor: Robert L. Geahlen
Thesis Title: Adhesion in Breast Cells

Timothy Allan Vortherms, Ph.D.
Major Professor: Val J. Watts
Thesis Title: The Role of Gαs in Heterologous Sensitization of Adenylyl Cyclase

Melissa Zolodz, Ph.D.
Major Professor: Richard F. Borch
Thesis Title: Method Development for the Analysis of the Phosphotyrosine Proteome

Pharmacy Practice

Menaka Bhor, M.S.,
Major Professor: Holly L. Mason
Thesis Title: Attitude of Healthcare Administrators toward Email Communication Between Patients and Physicians

Charles Makin, M.S.
Major Professor: Matthew M. Murawski
Thesis Title: An Investigation of the Factors Influencing the Relationship Between Health Locus of Control and Consumer Responsiveness to Direct-to-consumer Advertising of Generic and Brand Name Prescription Medicines

Yogesh Punekar, Ph.D.
Major Professor: Joseph Thomas
Thesis Title: Development and Validation of a Patient Medication Risk Reduction Behavior Scale and Application in a Managed Care Population
jenkins-knevel research awards

The recipients of the Jenkins/Knevel Awards for Excellence in Research were honored at the annual Graduate Student Awards Symposium on October 30, 2003. Four outstanding young researchers were awarded this year, and each gave a brief presentation at the symposium. The presenters this year were Garry Morefield, Department of Industrial and Physical Pharmacy; Rebecca S. Myers, Department of Medicinal Chemistry and Molecular Pharmacology; Timothy A. Vortherms, Department of Medicinal Chemistry and Molecular Pharmacology; and Sara K. Quinney, Department of Pharmacy Practice.

The Jenkins/Knevel Awards honor Dr. Glenn L. Jenkins, Dean of the School from 1941 to 1966, and Dr. Adelbert M. Knevel, Associate Dean for Graduate Studies and Research from 1969 to 1987.

Under Dean Jenkins’ leadership, the quality of the graduate programs improved considerably, and Purdue soon had the largest graduate enrollment and most respected pharmaceutical sciences graduate program in the world. During his tenure as Associate Dean, Dr. Knevel maintained the high standards of excellence for graduate programs first set forth by Dean Jenkins and was instrumental in promoting the graduate student research awards program.

kienly awards

On October 30, 2003, the Albert and Anna Kienly Awards for Outstanding Teaching by Graduate Students were presented in the Purdue Memorial Union.

Peter Wildfong, Department of Industrial and Physical Pharmacy; Matthew McFarland, Department of Medicinal Chemistry and Molecular Pharmacology; and Sanjeev Balu, Department of Pharmacy Practice, were chosen as this year’s best teachers among their respective departmental graduate peer groups. Congratulations to Peter, Matthew, and Sanjeev.

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, 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.
Tyler Lecturer

Joseph R. Robinson (shown below) received a bachelor’s degree in pharmacy in 1961 and a master’s degree in pharmacy in 1963 from Columbia University. He received a Ph.D. in pharmaceutical sciences from the University of Wisconsin–Madison in 1966. He joined the faculty of the University of Wisconsin in 1966 as an assistant professor, became an associate professor in 1970, and a professor in 1974.

Dr. Robinson is a member of the editorial boards of many journals. He has been awarded honorary doctorates from the Royal Danish School of Pharmacy (1992) and the University of the Sciences in Philadelphia (2003), and is the recipient of the Ebert Prize (1989), the Maurice-Marie Janot Medal (1989), and the Nagai Award (1990). In addition, Dr. Robinson has received the American Pharmaceutical Association (APhA) Research Achievement Award (1991), the American Association of Pharmaceutical Scientists (AAPS) Research Achievement Award (1991), the Controlled Release Society (CRS) Founders Award (1993), the AAPS Dale E. Wurster Pharmaceutical Research Award (1996), the APhA Takeru Higuchi Research Prize (1997), and the American Association of Pharmaceutical Scientists (AAPS) Distinguished Pharmaceutical Scientist Award (1999).

He has been recognized as the Ortho Distinguished Lecturer (1988), the Riegelman Lecturer (1988), the Kenneth Avis Distinguished Professor Lecturer (1991), the Bergy Lecturer (1991), the 1993 Distinguished Lecturer in the Pharmaceutical Sciences at the University of Leiden in the Netherlands, and the Joseph Swintosky Lecturer (1999). Dr. Robinson is a past-president of both the Controlled Release Society (CRS) and the American Association of Pharmaceutical Scientists (AAPS). He also was a founder of AAPS.

Dr. Robinson’s research interest is in drug delivery as it relates to an understanding of biological barriers and to the physical and chemical ways to overcome these barriers. Thus, his past and current work involves improved ways to deliver drugs to the eye, gastrointestinal tract, and vaginal cavity.

Merck Scholar Awards

The School of Pharmacy 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 has pledged $50,000 in scholarship funds to encourage students to pursue careers in industrial pharmacy. The gift will support four undergraduate scholarships per year for five years, and the first Merck Scholar Award recipients were selected in the spring of 2002. The spring 2004 recipients are Sarah Dunn, Amanda Hinkle, Mary Katherine Jungbluth, and Tippu Khan. Previous recipients include Jacquelyn M. Cloonen, Molly N. Fricke, Stephanie M. Noe, Laura Rearick, Megan A. Reimann, and Carolyn S. Roedel.

Donald O. Barrick (BS’76), Senior Manager in New Products Planning for Merck and Company, Inc., commented “The bachelor of science curriculum at Purdue features a solid background in chemistry and science with the opportunity to focus on elective coursework in industrial pharmacy. The 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 four recipients of the Merck Scholar Award, and sincere thanks to Merck for its generous support of the School of Pharmacy.
Pinnacle Society
($10,000 and higher)
Robert C. Anderson
James Appino
Mary Baker
Gilbert & Gwen Banker
Robert A. & Sondra Brown
JeanAnne & James Chaney
Allen & Lee Chao
Raymond & Shulamit Cooper
John & Karen Emmerson
Art & Deborah Fiocco, Jr.
Charles & Madonna Flemming
Thomas & Beverly Gerding
Robert Kapalka
Albert Kiely, Jr.
John & Helen Koo
John & Barbara McCoy
Wayne & Helen McKeehan
Donald & Naomi Moore
D. James & Dorothy Morré
Steven & Lisa Nail
John & Janet Nine
Estate of Patsy Jane O’Malley
Thomas & Mary Ortyl
Michael & Sally Pierle

Mortar & Pestle Society
($5,000 - $9,999)
Jean & Frank Battaglia
Holly & William Bonsignore
Richard & Anne Borch
Edith Brayer
Richard & Susan Brychell
Stephan & Sally Byrn
Ang & Jeaninne Carnaghi
Alan & Marilyn Fites
Serena & Bill Ford
Joe & Marilyn Haberle
Karen & Thomas Jeppson
Alton Johnson
Robert & Nancy Lipper
Debra Mishler
Robert & Arda Sauté
Rae Willis & Candie Oldham

Dean’s Club
Inner Circle
($2,500 - $4,999)
Albert & Wendy Alderman
Donald & Susan Barrick
Henry & Sherrill Bryant
Joann Data & Herman Cantrell
Jeffrey Hatfield
Kenneth & Charlotte Heimlich
Brian & Betty Henderson
Richard & Susan Markham
William & Diane Randolph
Beth & Jerry Schilling
Arthur & Janet Solomon
Stanley & Terrelle Turnipseed
Bernard & Judith Williams

Dean’s Club Executive Level
($1,000 - $2,499)
Steven & Jill Abel
Kyle & Jill Allen
Thomas & Cynthia Andres
Jennifer & Derek Asay
Eric & Loretta Barker
Elizabeth & Scott Bearby
James & Cindy Bedford
Steven & Jane Beering
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Marianne Billeter
James & Rosemary Blakesley
John & Peggy Blower
Thomas & Andrea Boehning
Joseph Borowitz
Maria Bowman-Horner
Carol Boylan
Lynn & Jeffrey Brown
Sharon Brown
George & Marguerite Bruegge mann
Teresa Carvajal & Rodolfo Final
Elizabeth Chalmers
Charles & Leslie Conroy
John & Rebecca Craig
Gene & Phyllis Crum
Lorraine Davis
Frank & Beverlee Deardorff
Richard D’Elia

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John & Rebecca Craig
Gene & Phyllis Crum
Lorraine Davis
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Richard D’Elia

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Caterpillar Foundation
CC Ford Group
Chevron Phillips Chemical Company
ConocoPhillips
CSX Corporation
CVS Corporation
Delbarton Mothers Guild
Delphi Foundation, Inc.
Duosterberg Drug Company, Inc.
Eckerd Corporation
Eli Lilly and Company
Exelon
ExxonMobil Foundation
Family Dentistry of Wabash
FMR Research Associates, Inc.
Forest Pharmaceuticals, Inc.
Fraternal Order of Eagles
GE Foundation
GlaxoSmithKline Foundation
Guidant Foundation, Inc.
Guthrie’s Pharmacy
H & D Morre Foundation
Hancocks Drug Store
Hoffmann-La Roche
Hudson Drug & Hallmark Shop
IMO Consulting
J M Long Foundation
Johnson & Johnson Merck Consumer Pharmaceuticals Co.
Johnson Controls Foundation
Joliet Professional Pharmacy Corp.
Kroger Company Foundation
L. Brandys, Inc.
Lafayette Printing Company, Inc.
Larry Farmer Appraisal Company, Inc.
Laughrey Family Foundation, Inc.
Leight M. Wilson Foundation, Inc.
Lippincott Williams & Wilkins
Lombard Family Foundation
Long Term RX Pharmacy, Inc.
Mallinckrodt Incorporated
Martec Pharmaceutical, Inc.
Maurer’s Apothecary
McAllister Foundation
McGraw-Hill Companies
McKesson HBOC Foundation, Inc.
Medical Arts Pharmacy
Medicine Shoppe
Merck & Company Incorporated
Minnesota Mutual Life Insurance Co.
Morton Grove Pharmaceuticals, Inc.
Mylan Pharmaceuticals, Inc.
National Association of Chain Drug Stores
Northeast Indiana Pharmacists Assoc., Inc.
Novartis
Novartis Pharmaceuticals Corporation
Owens-Illinois Fund
Paul Kehrer Family Foundation
Peavey Grain
Pfizer Incorporated
Pharma-Card Incorporated
Pharmacia
Pharmacists Mutual Insurance Company
Pharmacy Week, Inc.
Physicians Health Plan of Northern Indiana, Inc.
Pierle Family Charitable Foundation
Prairie Seed Company, Inc.
Princeton Partners, Inc.
Priority Healthcare Corp.
Procter & Gamble Fund
Purdue University Student Organizations
Robert and Charlotte Anderson Charitable Foundation
Roche
Roxane Laboratories, Inc.
Sanofi Research
Sara Lee Foundation
Schering-Plough Foundation/MGP
Shell Oil Company Fdn
Shopko Stores, Inc.
Southwestern Indiana Pharm. Assoc.
Square D Foundation
SSCI Incorporated
St. Joseph Co. Pharmacy Assoc.
Stephen A. Cook, DDS
Takeda Pharmaceuticals N. America
Temple-Inland Foundation
The Compounding Ctr. Pharmacy
Tippecanoe County Pharmaceutical Assoc.
Tomkins Corporation Foundation
Tucker Pharmacy & Health Care
Tyco
United Technologies
Walgreen Company
Wal-Mart Corporation
Wishard Memorial Foundation
WJS Enterprise, Inc.
WoltersKluwer Health
Wood Pharmacy
Wyeth
Zale Drugs, Inc.
Zolman’s Orchard Pharmacy
honorarium & memorial gifts
Gifts received during July 1, 2003 - June 30, 2004

In Memory of Donald L. Beeler
Martin Barbarich
Harriet Beeler
Tracy Bibler
Judith Blank
John Bozic
Thomas Capper
John Coffin
Stephen Cook
Donald Cota
Janene Coughlin
Barbara Dawson
Karin Disher
Mary Eisert
John Freeman
Kathleen George
Clara Mae Hagedorn
Eugene Hagedorn
Kevin Hagedorn
Fred Hecker
James Hecker
Marcia Holloway
Gary Jackson
Noble Kizer, Jr.
George Kochert
Paula Kohl
Mark Langkamp
Donald Lowes
B. Jane Lutgen
Barbara Mitchell
Ruth Moran
Gary Pfleeger
Lynn Pestle
Donald Porth, III
Prairie Seed Company, Inc.
Sandra Slayton
Janice Slutz
J. David Webb
Jerry Witter

In Memory of H.I. Byrn
Dorothy Byrn

In Memory of Robert K. Chalmers
Michael Neibauer

In Memory of Donald R. Ganong
Christopher Ganong

In Memory of Harry J. Glass
Ralph Lies, Jr.

In Honor of Ernest J. Koestering, Jr.
Joe and Marilyn Haberle

In Honor of Mary M. Losey
Alice Nelson
Virginia Shen

In Memory of Phyllis C. Mansfield
Bobby Bryant
Nicholas Popovich
Steven Scott

In Memory of Richard L. Myers
Gary Kortkamp

In Honor of Alice D. Nelson
Mary Losey
Virginia Shen

In Memory of Robert G. Railing
Frederick Lewis
Frances Gates
Lee Ann McCandless

In Honor of Charles O. Rutledge
Mary Losey

In Memory of Robert J. Schaaf
Suzanne Bousquet
Joe and Marilyn Haberle
Tippecanoe County Pharmaceutical Association

In Honor of Leon & Virginia Shen
Mary Losey
Alice Nelson

In Memory of Charles H. Thurgood
Joe and Marilyn Haberle

In Memory of Sylvan K. Young
Michael Young
faculty awards and recognition

Richard F. Borch was named Fellow of the American Association for the Advancement of Science.

Charles H. Brown was approved as a Certified Anticoagulation Care Provider (CACP) by the National Certification Board for Anticoagulation Providers (NCBAP), January, 2004.

Stanley L. Hem was named Distinguished Alumnus of the School of Pharmacy at the University of Connecticut in May, 2004.

Gregory H. Hockerman received the Seeds for Success Award from Purdue University, 2004.

Jane E. Krause was the recipient of the Henry W. Heine Memorial Award for Excellence in Undergraduate Teaching, School of Pharmacy, Purdue University, April, 2004.

Holly L. Mason was awarded the Distinguished Alumnus Citation of Merit from the University of Wisconsin-Madison, November, 2003.

D. James Morré received the Society of Sigma Xi Faculty Research Award from Purdue University, September 2004.

Kinam Park received both the Controlled Release Society Founders Award (2004) and the CRS-NanoSystems Outstanding Pharmaceutical Paper Award (2004).

Rodolfo Pinal was awarded a research grant from Eli Lilly and a graduate research grant from the Purdue Research Foundation.

Carol B. Post was named a Purdue University Faculty Scholar.

David J. Riese received the Career Development Award, U.S. Army Medical Research and Materiel Command (USAMRMC) Breast Cancer Research Program (BCRP), 2000–2004. He was also a nominee for the Charles B. Murphy Award from the Schools of Pharmacy, Nursing, and Health Sciences at Purdue University, 2004.

Christopher M. Scott was named Outstanding Faculty Clerkship Preceptor, School of Pharmacy, Purdue University.

Joseph Thomas, III received First Place for a poster presentation (Behavioral Sciences) titled "Associations Between Patient Expectations, Disconfirmation of Expectations, and Perceived Satisfaction with Pharmacists’ Services.” The research for the poster was conducted by Murtuza F. Bharmal, Graduate Advisee and Leslie Stroud, Freshman Scholar Advisee, under his direction. The poster was presented at the Sigma Xi Graduate Student Research Poster Competition, Purdue University, April, 2004. The poster presentation was also selected for American Pharmacists Association Poster Rounds with the Experts at the American Pharmacists Association Annual Meeting, March, 2004.

Dr. Thomas was appointed to the Executive Committee, Academy of Pharmaceutical Research and Science, American Pharmacists Association.

Ross V. Weatherman was appointed AACP-AFPE Pharmacy Faculty New Investigator, 2004.

faculty teaching achievements & external honors and achievements of students

Stanley L. Hem
Garry Morefield received a National Research Council Fellowship

Kinam Park
AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (Mentor Yong Qiu: American Association of Pharmaceutical Scientists, 2003); AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (Mentor Yoon Yeo: American Association of Pharmaceutical Scientists, 2004)

Val J. Watts
Erica L. Sawyer, 2004 Phi Lambda Sigma-Glaxo Smith Kline-AFPE Scholar

faculty personnel changes

Industrial and Physical Pharmacy
M. Teresa Carvajal and Rodolfo Pinal were hired as Assistant Professors.

Medicinal Chemistry and Molecular Pharmacology
Eric L. Barker, Gregory H. Hockerman, and Val J. Watts were promoted from Assistant Professors to Associate Professors of Medicinal Chemistry and Molecular Pharmacology. Chang-Deng Hu was hired as Assistant Professor of Molecular Pharmacology.

Pharmacy Practice
Faculty hired included Judy T. Chen, Pharm.D., BCPS, Assistant Professor of Pharmacy Practice; Kimberly S. Plake, Ph.D., Assistant Professor of Pharmacy Practice; Kenneth (Kent) H. Summers, Ph.D., Associate Professor of Pharmacy Practice; and Alan J. Zillich, Pharm.D., Assistant Professor of Pharmacy Practice.
**Faculty International Initiatives**

**Steven R. Abel**
The Department of Pharmacy Practice has officially launched the Kenya initiative. We have secured housing and transportation; our first group of four clerkship students will be participating in experiential learning in Eldoret during August-October, 2004.

**Robert W. Bennett**
*Director, International Nontraditional Doctor of Pharmacy Program, Dubai, UAE—Cohort 1 (5 students, started January 2002), Cohort 2 (5 students, started January 2003), Cohort 3 (13 students, started January 2004), Cohort 4 (14 students, started August 2004), Cohort 1 will graduate in December 2004.*

**Dubai Pharmaceutical and Technologies Conference and Exhibition (DUPHAT)** is an international conference conducted by the Department of Health and Medical Services, Dubai, United Arab Emirates in cooperation with the American Society of Health-System Pharmacists (ASHP), European Federation for Pharmaceutical Sciences (EUFPS), European Society of Clinical Pharmacy (ESCP), and Austrian Federation for Pharmaceutical Sciences (F.I.P.).

**Podium Presentations to Physicians and Health Sciences within Purdue University**

- **2004, Dubai, United Arab Emirates, March 22, 2004.**
  - Geriatric Care Training Programs—Silpakorn University Faculty of Pharmacy, Nakhom Pathom, Thailand, September 29 through October 3, 2003. Purposes: (1) To train Thai pharmacy school faculty to teach pharmacists about geriatric care, (2) To train pharmacists to provide care to geriatric patients, (3) To teach faculty and pharmacists about how to utilize pharmacy students on clinical rotations at selected practice sites to develop and implement geriatric pharmacy services.

- **Geriatric Care Training Seminar Presentations to Thai Pharmacy Faculty** (8 schools represented). Presentations given on Components of Continuing Pharmacy Education Programs. Geriatric Care Training Program for Faculty, Silpakorn University Faculty of Pharmacy, Nakhom Pathom, Thailand, September 29, 2003. Using assessments and evaluations to measure program effectiveness. Geriatric Care Training Program for Faculty, Silpakorn University Faculty of Pharmacy, Nakhom Pathom, Thailand, September 29, 2003. Assessing the effectiveness of continuing pharmacy education programs. Geriatric Care Training Program for Faculty, Silpakorn University Faculty of Pharmacy, Nakhom Pathom, Thailand, September 29, 2003.


**Teresa Carvajal**
Participated in the French Alsace Consortium; Grenoble University, France; and the Universidad de Lisboa, Portugal.

**Mark S. Cushman**
Initiated collaboration involving Purdue, Munich Technical University, and the University of Kansas for high-throughput screening to identify inhibitors of enzymes in the riboflavin biosynthesis pathway, and for inhibitors of non-mevalonate terpene biosynthesis.

**Raymond E. Galinsky**
Attended the 7th International ISSX Meeting (International Society for the Study of Xenobiotics) held in Vancouver, BC, Canada in September 2003 and has a poster presentation.

**Holly L. Mason**
Represented Pharmacy, Nursing and Health Sciences within Purdue delegation to Zhejiang University in Hangzhou, China, October 2003.

**D. James Morré**
Participated in research collaborations in Germany, Australia, Belgium, France, and Spain.

**Christopher M. Scott**
First faculty member to serve two months in Eldoret Kenya to assist with setting up the program.

**Stanley M. Shaw**
Developed a proposal "Integrated Study Abroad in Nuclear Pharmacy" resulting in an award from International Programs at Purdue for two undergraduate pharmacy students to study abroad for the summer, 2003. One student studied in London and the other in Innsbruck under internationally recognized nuclear pharmacy professors.

**Served as Chair, Special Interest Group in Radiologic/Nuclear Pharmacy in the International Pharmaceutical Federation (F.I.P.). Attended the FIP Pharmacy and Pharmaceutical Science World Congress in Sydney, Australia, as a part of his responsibilities for the SIG. Business meeting and scientific session were held at the meeting.**

**Kara D. Weatherman**
SCHOOL OF PHARMACY
2003-2004 COMMITTEES

Academic Advisors
Associate Dean for Professional Programs: H.L. Mason
Assoc. Director & Schedule Deputy, Office of Student Services: J.E. Dubes
Assoc. Director, Office of Student Services: T.P. George
Asst. Director, Office of Student Services: S.C. Howell
Director of Minority Programs: J.B. Jimerson
Asst. Director for Recruitment, Office of Student Services: H.W. Keckler

Faculty Advisors for Student Organizations
Academy of Students of Pharmacy: E.L. Barker, A. Farkas
American Association of Pharmaceutical Scientists: L. Taylor
Industrial Pharmacy Club: F. Brown, Jr.
International Society of Pharmaceutical Outcomes Research: K. Summers
Kappa Epsilon: Mrs. J. Blank, V.J. Killion

Kappa Psi: D.J. Riese
Mentoring Board: J.B. Jimerson
Pharmacy Council: H.L. Mason, J.M. Pezzuto
Phi Delta Chi: G.T. Wilson
Phi Lambda Sigma: J.C. Rochet
Prepharmacy Club: J.E. Dubes, T.P. George
Presidents’ Council: H.L. Mason
Purdue Pharmacy Ambassadors: H.W. Keckler, S.C. Howell
Purdue Student Christian Association: J.L. Borowitz
Rho Chi: S.L. Hem
Society of Nuclear Pharmacy, Purdue Student Chapter: K. Duncan, S.M. Shaw
Student National Pharmaceutical Association: M.L. Harrison, J.B. Jimerson, J.M. Pezzuto

Executive Committee

Graduate Executive Committee
G.M. Loudon, Chmn., D.E. Bergstrom, K.R. Morris, J. Thomas

Pharmacy Admissions

Professional Programs
Curriculum Committee

Non-traditional Pharm.D.
Advisory Committee

B.S. Pharmaceutical Sciences Committee
F. Brown, Chmn., K.R. Morris, M.A. Green, T.P. George, G.H. Hockerman, H.W. Keckler, H.L. Mason, Martin Okos (FSE), Mary K. Jungbluth (student rep.)

Integrated Laboratory Coordinating Committee
G.M. Loudon, Chmn., S.R. Byrn, J.A. Everett, H.L. Mason, D.J. Riese, L.L. Rogers, S.A. Scott, V.J. Watts

Experiential Programs Planning Committee

Schedules
J.E. Dubes, Schedule Deputy; D. Gillespie, P. Aveline, D.O. Kildsig

Award Nominations Committee

Student Cases
H.L. Mason, Chmn., B.C. Carlstedt, J.E. Dubes, T.P. George, S.L. Hem, J.B. Jimerson

Academic Standards and Readmissions

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

Undergraduate Awards
H.L. Mason, Chmn., F. Brown, J.E. Dubes, S.C. Howell

Nominations
R.L. Geahlen, Chmn., M.D. Murray, S.L. Hem
School Animal Care Committee
G.P. Carlson, Chmn., G.E. Isom, D.E. Nichols

School Liaison for Animal Facility
G.P. Carlson

Building Deputy
J.B. Rogers

Faculty Secretary
D. Lenartz, S.R. Abel

AACF Delegate
J. Thomas, A.H. Sheehan (alternate)

Representative to Faculty Senate

Representative to Graduate Council
J. Thomas [2003-2004]

Representative to the University Internationalization Committee
C.B. Post

Faculty Liaison for Core Courses Taught by Other Schools
BIOL 110/111 D.J. Riese B
IOL 221 V.J. Davisson
BIOL 201/202 D.J. Riese
CHEM 115/116 G.M. Loudon
ENGL 101/102 M. Green
ECON 210 M.M. Murawski
MA 223/224 D.O. Kildsig
PHYS 220 G.M. Loudon
STAT 503 A.H. Sheehan

SCHOOLS OF
PHARMACY, NURSING,
AND HEALTH SCIENCES
2003-2004 COMMITTEES

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

Faculty Promotions (Area)
J.M. Pezzuto, Chmn., S.R. Abel,
R.F. Borch, S.R. Byrn, G.P. Carlson,
B.C. Carlstedt, L.E. Geddes,
G.M. Loudon (ex-officio), H.L. Mason
(ex-officio), K.R. Morris, D.L. Nichols,
J.C. Novak, G.A. Sandison

Faculty Promotions (Graduate)
G.M. Loudon, Chmn., D.E. Bergstrom,
D.O. Kildsig, V.J. Killion, F.S. Rosenthal,
E. Rossen, A.H. Sheehan

Grade Appeals Committee
SCHOOL OF PHARMACY
Faculty: M.R. Mychaskiw, Chmn.,
(Alternate: D.E. Nichols)
Graduate Students:
Jimmy Donelson [MCMP],
Janjeev Balu [IPPH],
Abhay Gupta [IPPH],
Undergraduate Students:
Matt Kelm, [Alternate: Simon Frey]

SCHOOL OF NURSING
Faculty: J. Overbay, J. Kirkpatrick
Undergraduate Student:
Rachel Powell

SCHOOL OF HEALTH SCIENCES
Faculty: G.P. Carlson
(Alternate: N. Zimmerman)
Graduate Students: Jason Harris,
Hernando Perez (alt.)
Undergraduate Students:
Michelle Oyler,
Marie Rosswurm (alt.)

Grievance Committee
Chairperson: Nancy Edwards
Secretary: Rob Stewart
Steering Committee: Barbra Wall,
Jim Morré, Matt Murawski

Term Expiring Two Weeks Before
Beginning of Fall Semester, 2004:
Pharmacy: D. Bergstrom, D. Kania,
J. Morré, K. Morris, K. Park,
C. Post, D. Riese, E. Schellhase,
C. Scott
Nursing: P. Aaltonen, C. Bozich-Keith,
P. Coyle-Rogers, N. Edwards,
K. Schafer

Health Sciences: J. McGlothlin

Term Expiring Two Weeks Before
Beginning of Fall Semester, 2005:
Pharmacy: C. Ashendal, R. Bennett,
E. Curry, R. Galinsky, M. Green,
D. Kildsig, M. Murawski,
K. Sowinski, L. Taylor
Nursing: C. Blue, M. Criswell,
J. Overbay, B. Wall (convener),
K. Yehle

Health Sciences: R. Stewart

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

Health and Safety Committee
G.M. Loudon, Chmn., C.L. Blue,
C.J. Chang, J.P. Penn,
M.M. Murawski, L. Rogers,
K.M. Sowinski [IUMC liaison],
J. Schweitzer, J.E. Stowell

Representatives to
United Way Campaign
S.R. Byrn, IPPH, Chmn.;
R. Stewart, HSCI, Chmn.

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

Murphy Award Committee
G.M. Loudon, Chmn., L. Geddes,
J.K. Hoggatt, G.T. Wilson,
N. J. Zimmerman, and three
student members

Minority Advocacy
M.R. Mychaskiw, Chmn., F. Brown,
S.R. Byrn, G.P. Carlson, K. Chang,
M.L. Harrison, J.B. Jimerson, D.O.
Kildsig, H.L. Mason, G.D. Newton,
J.C. Novak, J.M. Pezzuto, R. Walkup,
V.J. Watts, J. Wolcott-McQuigg, J. Yost

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

**Grants, Contracts, Voluntary Support, and Fellowships**

**$12.7 million**  
($15.8 million with Cancer Center)

### Industrial and Physical Pharmacy  **$3,821,284**

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### M.A. Green

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### S.L. Hem

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**Department of Pharmacy Practice $1,717,624**

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<td>SEX-BASED DIFFERENCES IN DIGOXIN DISPOSITION AND RESPONSE</td>
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<td>J.E. Tisdale</td>
<td>AMERICAN HEART ASSOC</td>
<td>MECHANISMS OF INCREASED RISK OF TORSADES OF POINTES ASSOCIATED WITH POTASSIUM CHANNEL BLOCKING AGENTS IN HEART FAILURE</td>
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<td>PREVENTION OF ATRIAL FIBRILLATION AFTER OPEN CHEST SURGERY</td>
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<td>MECHANISMS OF INCREASED RISK OF DRUG-INDUCED TORSADES DE POINTES IN PATIENTS WITH HEART FAILURE DUE TO LEFT VENTRICULAR DYSFUNCTION</td>
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<td>MECHANISMS OF INCREASED RISK OF DRUG-INDUCED TORSADES DE POINTES IN PATIENTS WITH HEART FAILURE DUE TO LEFT VENTRICULAR DYSFUNCTION</td>
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<tr>
<td>C.D. Williams</td>
<td>INDIANA UNIVERSITY</td>
<td>ASTHMA CLINICAL RESEARCH CENTER</td>
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| Cancer Research Center | $3,101,113 |

| D.E. Bergstrom        | PHS-NIH NATNL CANCER INST | TRAINING IN DRUG AND CARCINOGEN-DNA INTERACTIONS | 296,197 |
|                       |                        | TRAINING IN DRUG AND CARCINOGEN-DNA INTERACTIONS | 291,533 |

| R.F. Borch            | CARROLL COUNTY CANCER ASSOC | INDIANA COUNTY CANCER SOCIETIES | 115 |
|                       |                              | INDIANA COUNTY CANCER SOCIETIES | 3,000 |
|                       |                              | INDIANA COUNTY CANCER SOCIETIES | 132 |
|                       | CANCER ASSOC MARSHALL COUNTY, INC | INDIANA COUNTY CANCER SOCIETIES | 1,000 |
|                       | CARROLL COUNTY CANCER ASSOC | INDIANA COUNTY CANCER SOCIETIES | 131 |
|                       | INDIANA ELKS CHARITIES, INC | CANCER RESEARCH | 107,059 |
|                       | LAFAYETTE LIONS CLUB | CANCER RESEARCH | 250 |
|                       | PHS-NIH NATNL CANCER INST | CANCER CENTER SUPPORT GRANT (CORE) | 1,139,423 |
|                       |                              | CANCER CENTER SUPPORT GRANT (CORE) | 1,186,617 |
|                       |                              | CANCER CENTER SUPPORT GRANT (CORE) P30 CURE SUPPLEMENT | 75,656 |

Kenneth R. Morris


Kinam Park


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Rodolfo Pinal


Medicinal Chemistry and Molecular Pharmacology

Eric L. Barker

Donald E. Bergstrom


Richard F. Borch

Donald E. Bergstrom

Joseph L. Borowitz

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Mark S. Cushman


Richard F. Borch


V. Jo Davisson


Robert L. Geahlen


Richard A. Gibbs


Gregory H. Hockerman


Chang-Deng Hu


Gary E. Isom


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**David E. Nichols**


**John M. Pezzuto**


Carol B. Post


David J. Riese

Val J. Watts
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C.A. Johnston, M.A. Beazely, M.L.

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Ross V. Weatherman


M.D. Johnson, H. Zuo, K-H Lee, J.P.


Pharmacy Practice

Steven R. Abel


Charles H. Brown


Judy T. Chen


David R. Foster


Cynthia P. Koh-Knox


Matthew M. Murawski


Gail D. Newton


Kimberly S. Plake

K.S. Plake, R.J. Chesnut, and S.


Kevin M. Sowinski


B.A. Mueller, D.A. Pasko, K.M.


B.R. Overholser, M.B. Kays, K.M.


B.R. Overholser, M.B. Kays, A.


K.M. Sowinski, A. Lucktir, M.B.

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Joseph Thomas, III


James E. Tisdale


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Stanley L. Hem

Kenneth R. Morris

Kinam Park


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